R410A Tropical VRF Series

D4 Plus/ Mini VRF

Commercial Air Conditioners

50/60 Hz

For more technical information please visit **www.coolex.com.kw**

Table of Contents

D4 PLUS SERIES	02
DC INVERTER MINI VRF	33
INDOOR UNITS LINEUP	41
CONTROL SYSTEMS	76
HRV	102
BRANCH PIPE	105
ABOUT RIC	108
Coolex Distributors	109

OTHER COOLEX PRODUCTS

1. Air Cooled Screw Water Chillers
2. Air Cooled Scroll Water Chillers
3. Residential Packaged Units
4. Air Handling Units
5. Commercial Package Units
6. Ducted Split Units
7. Concealed Split Units
8. Fan Coil Units

D4 PLUS SERIES

COOLEX is proud to introduce its D4 PLUS SERIES VRF. Designed to optimize the system and better meet market needs.

D4 PLUS SERIES VRF offers a capacity of up to 64HP in 2HP increments by combining up to 4 outdoor units. It also incorporates a range of outstanding features, wide-range outdoor and indoor units, high external static pressure, and energy saving technologies. It supports an incredible piping length of 1,000m and a level difference of 110m, making it perfect for large high-rise buildings.

FEATURES

Wide Range of Outdoor Units

The outdoor units capacity range from 8HP up to 64HP in 2HP increment. Maximum 64 indoor units with capacity up to 130% of total outdoor units can be connected in one refrigeration system.

Wide Operation Range

No matter in extremely cold winter when outdoor temperature down to as low as -20°C (-4°F) or in hot summer when temperature is up to 54°C (129°F), the D4 Plus series system will keep stable operation.

Long Piping Length

The solution supports an incredible piping length of 1,000m and level difference of 110m, making it perfect for large projects.

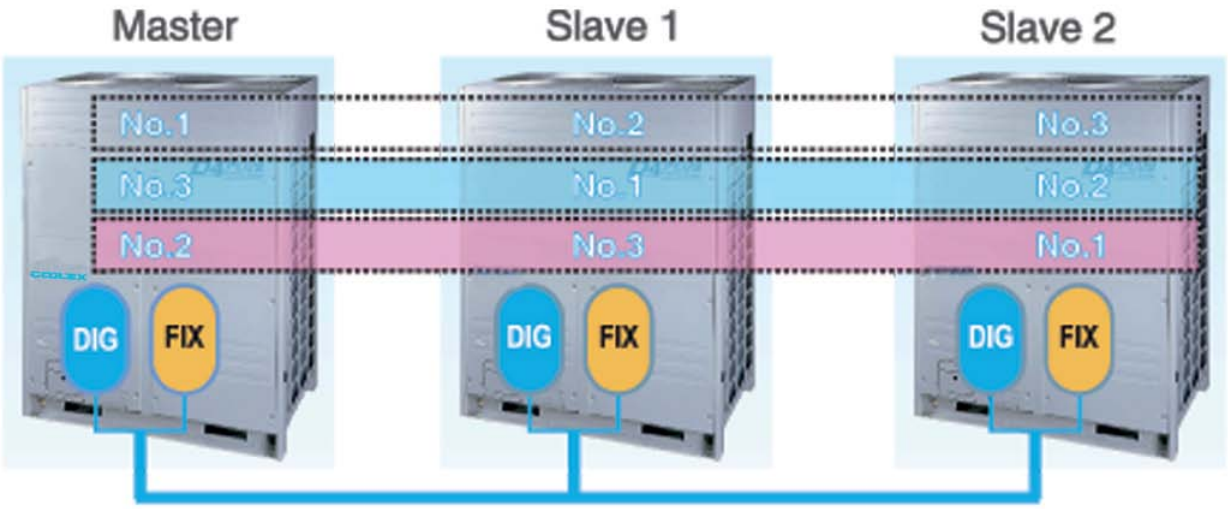
Extra High Static Pressure – Max. 40Pa and Air Volume Increased by 10%

High-static pressure propeller and optimized fan guard can adapt to various installation environments.
Up to 40 Pa* external static pressure units for customized applications. A standard 0-20Pa function is equipped by default.

HIGHER RELIABILITY

Duty Cycling

In one combination, any outdoor unit can run as the master outdoor unit to equalize the service life of all units.



Back-up Function

In a multiple system, when the master unit failed, any single unit can be set as the master unit, then the remaining units can keep on working. This can be set on main board by DIP switch at site.

HIGHER RELIABILITY

High efficiency oil return technology

Four stages oil control technology ensure every outdoor's and compressor's oil always keep in the safe level, completely avoid being oil shortage.

1st stage: compressor internal oil separate;
2nd stage: high efficiency oil separator;
3rd stage: oil balance technology between compressors;
4th stage: system oil return program.

Indoor Unit Quantity Monitoring

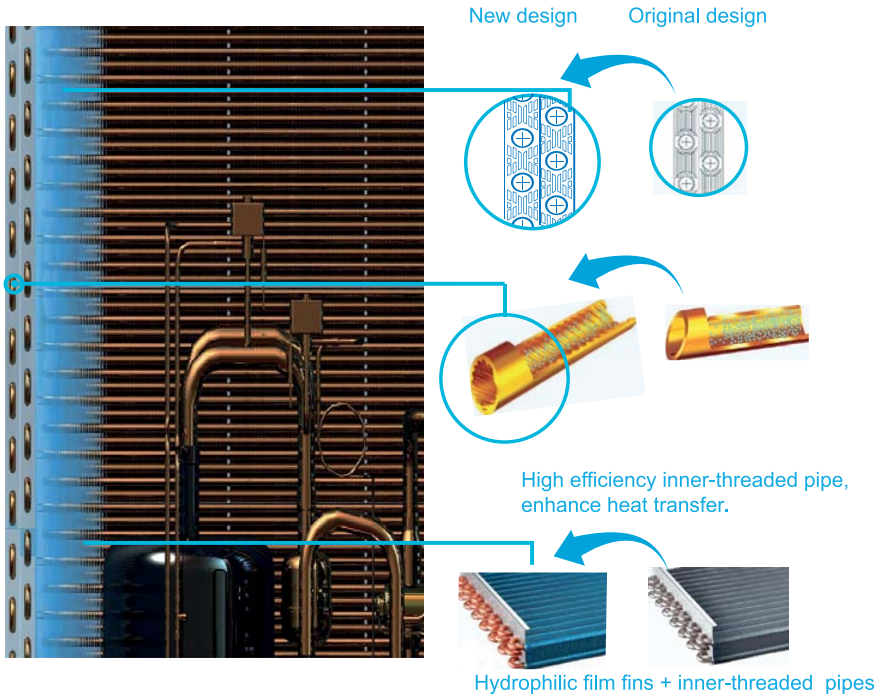
The quantity of indoor units should be exactly set on the outdoor main board, once some indoor units miscommunicate with outdoor units during system running, the outdoor units will stop and display the fault code "H7". This can prevent compressor from liquid hammer caused by dropped indoor units with EXV unclosed.

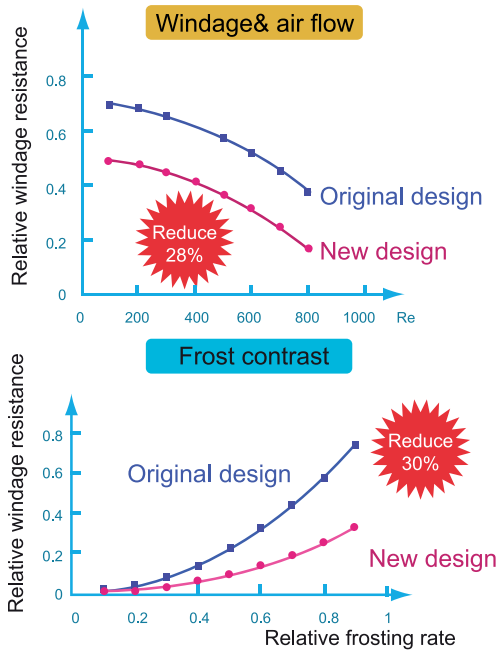
HIGH EFFICIENCY

The D4 PLUS Series with high efficient digital scroll compressor, DC motor and high efficient heat exchanger, achieve the world's Top Class energy efficiency. The cooling EER up to 4.35 and the heating COP up to 4.8 in the 8HP category.

High Efficient Heat Exchanger

- The new designed window fins enlarge the heat-exchanging area , decrease the air resistance, save more power and enhance heat exchange performance.
- Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.





ENHANCED COMFORT

Quick Warm-up & Cool-down Design and Less Temperature Fluctuation

By utilizing the benefits of the digital compressor, the system can reach full load quickly and shorten the warm-up and cool-down times to provide an immediate and comfortable air solution.
Less temperature fluctuation will create a better living environment.

Night Silent Operation Mode

Night Silent Mode feature which is easily set on the main board allows the unit to be set to varies time options during Non Peak and Peak operation time optimizing the units noise output.
Extra silent operation mode can reduce sound level further, minimum 46.8dB (A).

Intelligent Defrost Extend the Comfortable Time

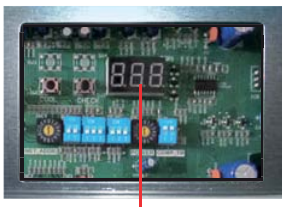
EASIER INSTALLATION AND SERVICE

Compact Design for Effective Use of Space

Compact size and light weight design minimizes the installation footprint, reduces the installation floor load, and is easier for transportation.

Easy Maintainence

Checking window on electric control box for convenient spot checking and status enquiry.



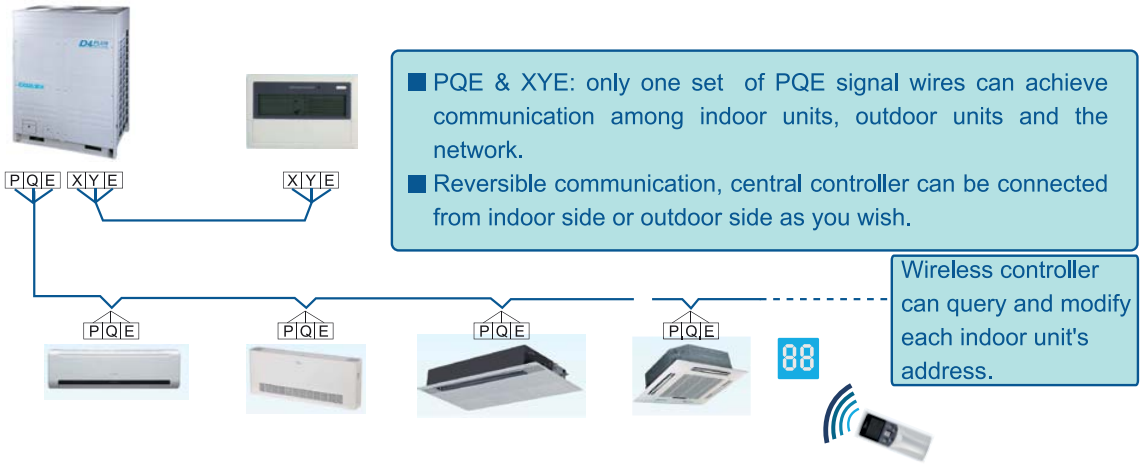
Checking window on electric control box for convenient spot checking and status enquiry.

Self-diagnosis function helps service engineers locate faults quickly and easily.

Compressor is located near the door, which simplifies checks and enables valve or compressor parts to be replaced easily.

Simple Signal Line Connection

Installation is easier as communication wiring can be shared by indoor & outdoor units . It's easy for the user to retrofit the existing system with a centralized control by simply connecting to the outdoor units.



- PQE & XYE: only one set of PQE signal wires can achieve communication among indoor units, outdoor units and the network.
- Reversible communication, central controller can be connected from indoor side or outdoor side as you wish.

Wireless controller can query and modify each indoor unit's address.

EASIER INSTALLATION AND SERVICE

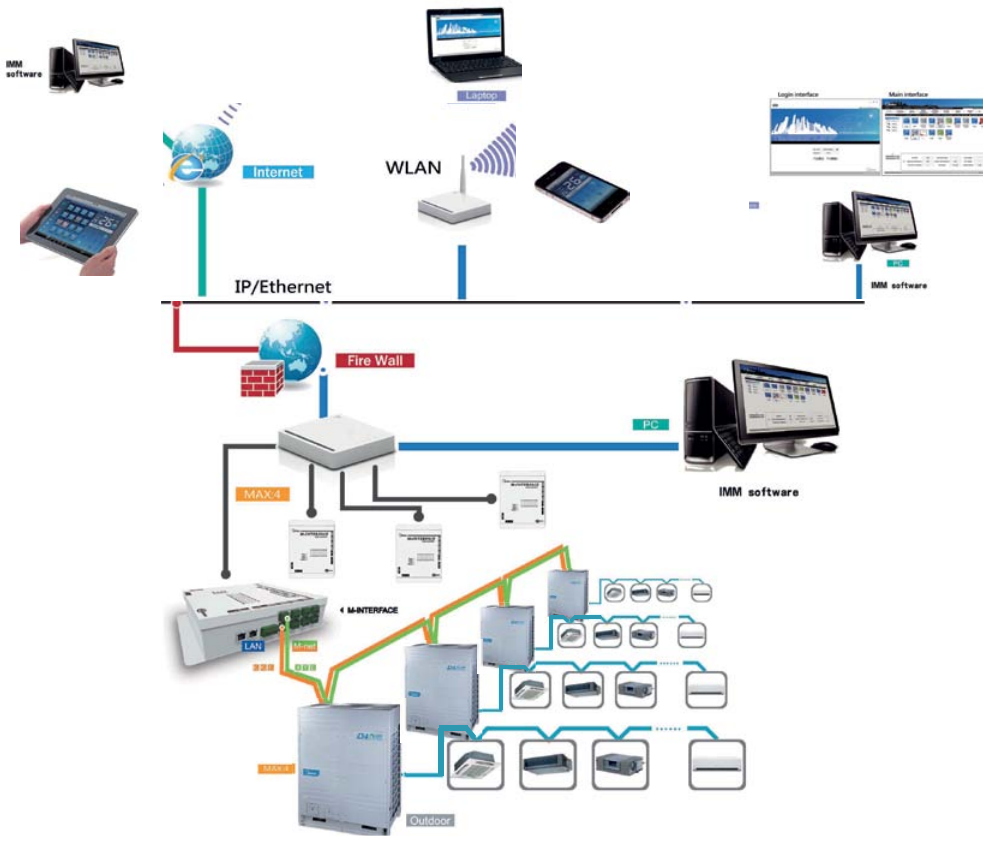
Auto Addressing

Outdoor unit can distribute address for each indoor units automatically.
Wireless controller and wired controller can enquire and modify each indoor units' address.

Various locking modes

Various locking modes enhance convenience for users.
In VIP priority or vote priority mode, the address of the VIP unit should be set as 63, if there is no 63 unit, it will respond to vote priority.

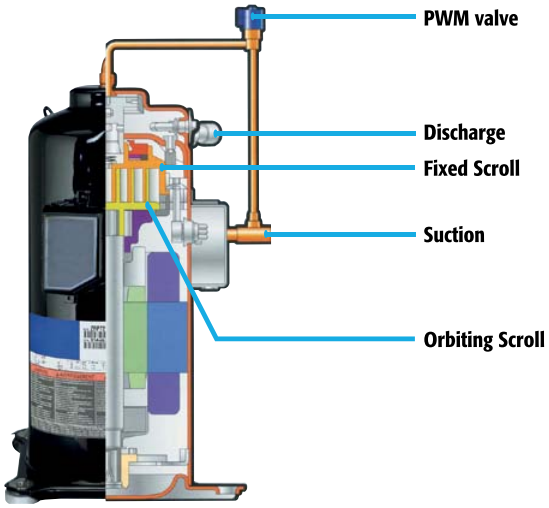
Intelligent Manager of CDVE, designed specifically to control VRF systems, is based around a centralized format and dedicated to the complete control and monitoring of all the system's functions. It can be used as a flexible multi-purpose system and applied to a variety of needs, according to the scale, purpose and control method of each building.



ADVANCED TECHNOLOGIES

Digital Scroll Compressor

The digital scroll compressor utilizes axial compliant sealing technology to precisely adjust the axial motion range of the stator scroll pan. And there is an additional connecting by-pass between the suction inlet and the pressure bore at the floating sealing point of axial stator.



DC Fan Motor

According to the running load and pressure, it controls the speed of DC fan to achieve the min. power consumption.

- Used across entire range of models (from 8 to 64 HP).
- Efficiency improvement up to 45% especially at low speed.
- Wide speed adjustment with 18 steps vector control.

DC motor

Fan Grille

Optimized fan blade shape with new air outlet grille enhanced air volume which greatly improves fan performance and decreases noise.
Also, a higher external static pressure has been achieved up to 40 Pa.(0-20Pa is standard, 20~40Pa should be customized.)

COOLEX

TOTAL COMBINATION OF OUTDOOR UNIT

Model	N° of Outdoor Units	N° of Compressors	Outdoor Unit Combination					Maximum No° of Connectable Indoor Units	Capacity (kW)		
			8HP	10HP	12HP	14HP	16HP		Cooling*	Cooling**	Heating
CDVC-D252(8)W/*N1-B	1	2	1					13	25.2	24.5	27.0
CDVC-D280(10)W/*N1-B	1	2		1				16	28.0	25.8	31.5
CDVC-D335(12)W/*N1-B	1	2			1			20	33.5	30.8	37.5
CDVC-D400(14)W/*N1-B	1	3				1		23	40.0	36.7	45.0
CDVC-D450(16)W/*N1-B	1	3					1	26	45.0	41.24	50.0
CDVC-D504(16)W/*N1-B	2	4	2					26	50.4	49.0	54.0
CDVC-D532(18)W/*N1-B	2	4	1	1				29	53.2	50.3	58.5
CDVC-D560(20)W/*N1-B	2	4		2				33	56.0	51.6	63.0
CDVC-D587(20)W/*N1-B	2	4	1		1			33	58.7	55.3	64.5
CDVC-D615(22)W/*N1-B	2	4		1	1			36	61.5	56.6	69.0
CDVC-D652(22)W/*N1-B	2	5	1			1		36	65.2	61.2	72.0
CDVC-D670(24)W/*N1-B	2	4			2			39	67.0	62.0	75.0
CDVC-D680(24)W/*N1-B	2	5		1		1		39	68.0	62.5	76.5
CDVC-D702(24)W/*N1-B	2	5	1				1	39	70.2	65.74	77.0
CDVC-D730(26)W/*N1-B	2	5		1			1	43	73.0	67.0	81.5
CDVC-D735(26)W/*N1-B	2	5			1	1		43	73.5	67.5	82.5
CDVC-D756(24)W/*N1-B	3	6	3					39	75.6	73.5	81.0
CDVC-D784(26)W/*N1-B	3	6	2	1				43	78.4	74.8	85.5
CDVC-D785(28)W/*N1-B	2	5			1		1	46	78.5	72.04	87.5
CDVC-D800(28)W/*N1-B	2	6				2		46	80.0	73.4	90.0
CDVC-D812(28)W/*N1-B	3	6	1	2				46	81.2	76.1	90.0
CDVC-D839(28)W/*N1-B	3	6	2		1			46	83.9	79.8	91.5
CDVC-D840(30)W/*N1-B	3	6		3				50	84.0	77.0	94.5
CDVC-D850(30)W/*N1-B	2	6				1	1	50	85.0	77.9	95.0
CDVC-D867(30)W/*N1-B	3	6	1	1	1			50	86.7	81.1	96.0
CDVC-D895(32)W/*N1-B	3	6		2	1			53	89.5	82.4	100.5
CDVC-D900(32)W/*N1-B	2	6					2	53	90.0	82.5	100.0
CDVC-D904(30)W/*N1-B	3	7	2			1		50	90.4	85.7	99.0
CDVC-D922(32)W/*N1-B	3	6	1		2			53	92.2	86.1	102.0
CDVC-D932(32)W/*N1-B	3	7	1	1		1		53	93.2	87.0	103.5
CDVC-D950(34)W/*N1-B	3	6		1	2			56	95.0	87.0	106.5
CDVC-D954(32)W/*N1-B	3	7	2				1	53	95.4	90.24	104.0
CDVC-D960(34)W/*N1-B	3	7		2		1		56	96.0	88.3	108.0
CDVC-D982(34)W/*N1-B	3	7	1	1			1	56	98.2	91.54	108.5
CDVC-D987(34)W/*N1-B	3	7	1		1	1		56	98.7	92.0	109.5
CDVC-D1005(36)W/*N1-B	3	6			3			59	100.5	92.4	112.5
CDVC-D1008(32)W/*N1-B	4	8	4					53	100.8	98.0	108.0
CDVC-D1010(36)W/*N1-B	3	7		2			1	59	101.0	92.8	113.0
CDVC-D1015(36)W/*N1-B	3	7		1	1	1		59	101.5	93.3	114.0
CDVC-D1036(34)W/*N1-B	4	8	3	1				56	103.6	99.3	112.5
CDVC-D1037(36)W/*N1-B	3	7	1		1		1	59	103.7	96.54	114.5
CDVC-D1052(36)W/*N1-B	3	8	1			2		59	105.2	97.9	117.0
CDVC-D1064(36)W/*N1-B	4	8	2	2				59	106.4	100.6	117.0
CDVC-D1065(38)W/*N1-B	3	7		1	1		1	63	106.5	97.8	119.0
CDVC-D1070(38)W/*N1-B	3	7			2	1		63	107.0	98.3	120.0
CDVC-D1080(38)W/*N1-B	3	8		1		2		63	108.0	99.2	121.5
CDVC-D1091(36)W/*N1-B	4	8	3		1			59	109.1	104.3	118.5
CDVC-D1092(38)W/*N1-B	4	8	1	3				63	109.2	101.9	121.5
CDVC-D1102(38)W/*N1-B	3	8	1			1	1	63	110.2	102.44	122.0
CDVC-D1119(38)W/*N1-B	4	8	2	1	1			63	111.9	105.6	123
CDVC-D1120(40)W/*N1-B	3	7			2		1	64	112.0	102.84	125.0
CDVC-D1120(40)W/*N1-B	4	8		4				64	112.0	103.0	126.0
CDVC-D1130(40)W/*N1-B	3	8		1		1	1	64	113.0	103.7	126.5
CDVC-D1135(40)W/*N1-B	3	8			1	2		64	113.5	104.2	127.5
CDVC-D1147(40)W/*N1-B	4	8	1	2	1			64	114.7	106.9	127.5
CDVC-D1152(40)W/*N1-B	3	8	1				2	64	115.2	106.98	127.0
CDVC-D1156(38)W/*N1-B	4	9	3			1		64	115.6	110.2	126.0
CDVC-D1174(40)W/*N1-B	4	8	2		2			64	117.4	110.6	129.0
CDVC-D1175(42)W/*N1-B	4	8		3	1			64	117.5	108.2	132.0
CDVC-D1180(42)W/*N1-B	3	8		1			2	64	118.0	108.28	131.5
CDVC-D1184(40)W/*N1-B	4	9	2	1		1		64	118.4	111.5	130.5
CDVC-D1185(42)W/*N1-B	3	8			1	1	1	64	118.5	108.74	132.5

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
The models in dark background are factory-recommended models.
The detail specifications for factory-recommended models please refer to the specification tables of the below.
Both R type (50Hz) units and C type (60)Hz units are suitable

COOLEX

TOTAL COMBINATION OF OUTDOOR UNIT

Model	N° of Outdoor Units	N° of Compressors	Outdoor Unit Combination					Maximum No° of Connectable Indoor Units	Capacity (kW)		
			8HP	10HP	12HP	14HP	16HP		Cooling*	Cooling**	Heating
CDVC-D1200(42)W/*N1-B	3	9				3		64	120.0	110.1	135.0
CDVC-D1202(42)W/*N1-B	4	8	1	1	2			64	120.2	111.9	133.5
CDVC-D1206(40)W/*N1-B	4	9	3				1	64	120.6	114.74	131.0
CDVC-D1212(42)W/*N1-B	4	9	1	2		1		64	121.2	112.8	135.0
CDVC-D1230(44)W/*N1-B	4	8		2	2			64	123.0	113.0	138.0
CDVC-D1234(42)W/*N1-B	4	9	2	1			1	64	123.4	116.04	135.5
CDVC-D1235(44)W/*N1-B	3	8			1		2	64	123.5	113.28	137.5
CDVC-D1239(42)W/*N1-B	4	9	2		1	1		64	123.9	116.5	136.5
CDVC-D1240(44)W/*N1-B	4	9		3		1		64	124.0	114.1	139.5
CDVC-D1250(44)W/*N1-B	3	9				2	1	64	125.0	114.64	140.0
CDVC-D1257(44)W/*N1-B	4	8	1		3			64	125.7	116.9	139.5
CDVC-D1262(44)W/*N1-B	4	9	1	2			1	64	126.2	117.34	140.0
CDVC-D1267(44)W/*N1-B	4	9	1	1	1	1		64	126.7	117.8	141.0
CDVC-D1285(46)W/*N1-B	4	8		1	3			64	128.5	118.2	144.0
CDVC-D1289(44)W/*N1-B	4	9	2		1		1	64	128.9	121.04	141.5
CDVC-D1290(46)W/*N1-B	4	9		3			1	64	129.0	118.64	144.5
CDVC-D1295(46)W/*N1-B	4	9		2	1	1		64	129.5	119.1	145.5
CDVC-D1300(46)W/*N1-B	3	9				1	2	64	130.0	119.2	145.0
CDVC-D1304(44)W/*N1-B	4	10	2			2		64	130.4	122.4	144.0
CDVC-D1317(46)W/*N1-B	4	9	1	1	1		1	64	131.7	122.34	146.0
CDVC-D1322(46)W/*N1-B	4	9	1		2	1		64	132.2	122.8	147.0
CDVC-D1332(46)W/*N1-B	4	10	1	1		2		64	133.2	123.7	148.5
CDVC-D1340(48)W/*N1-B	4	8			4			64	134.0	123.0	150.0
CDVC-D1345(48)W/*N1-B	4	9		2	1		1	64	134.5	123.64	150.5
CDVC-D1350(48)W/*N1-B	3	9					3	64	135.0	123.7	150.0
CDVC-D1350(48)W/*N1-B	4	9		1	2	1		64	135.0	124.1	151.5
CDVC-D1354(46)W/*N1-B	4	10	2			1	1	64	135.4	126.94	149.0
CDVC-D1360(48)W/*N1-B	4	10		2		2		64	136.0	125.0	153.0
CDVC-D1372(48)W/*N1-B	4	9	1		2		1	64	137.2	127.34	152.0
CDVC-D1382(48)W/*N1-B	4	10	1	1		1	1	64	138.2	128.24	153.5
CDVC-D1387(48)W/*N1-B	4	10	1		1	2		64	138.7	128.7	154.5
CDVC-D1400(50)W/*N1-B	4	9		1	2		1	64	140.0	128.64	156.5
CDVC-D1404(48)W/*N1-B	4	10	2				2	64	140.4	131.48	154.0
CDVC-D1405(50)W/*N1-B	4	9			3	1		64	140.5	129.1	157.5
CDVC-D1410(50)W/*N1-B	4	10		2		1	1	64	141.0	129.54	158.0
CDVC-D1415(50)W/*N1-B	4	10		1	1	2		64	141.5	130.0	159.0
CDVC-D1432(50)W/*N1-B	4	10	1	1			2	64	143.2	132.8	158.5
CDVC-D1437(50)W/*N1-B	4	10	1		1	1	1	64	143.7	133.24	159.5
CDVC-D1452(50)W/*N1-B	4	11	1			3		64	145.2	134.6	162.0
CDVC-D1455(52)W/*N1-B	4	9			3		1	64	145.5	133.64	162.5
CDVC-D1460(52)W/*N1-B	4	10		2			2	64	146.0	134.1	163.0
CDVC-D1465(52)W/*N1-B	4	10		1	1	1	1	64	146.5	134.54	164.0
CDVC-D1470(52)W/*N1-B	4	10			2	2		64	147.0	135.0	165.0
CDVC-D1480(52)W/*N1-B	4	11		1		3		64	148.0	135.9	166.5
CDVC-D1487(52)W/*N1-B	4	10	1		1		2	64	148.7	137.78	164.5
CDVC-D1502(52)W/*N1-B	4	11	1			2	1	64	150.2	139.14	167.0
CDVC-D1515(54)W/*N1-B	4	10		1	1		2	64	151.5	139.1	169.0
CDVC-D1520(54)W/*N1-B	4	10			2	1	1	64	152.0	139.54	170.0
CDVC-D1530(54)W/*N1-B	4	11		1		2	1	64	153.0	140.44	171.5
CDVC-D1535(54)W/*N1-B	4	11			1	3		64	153.5	140.9	172.5
CDVC-D1552(54)W/*N1-B	4	11	1			1	2	64	155.2	143.68	172.0
CDVC-D1570(56)W/*N1-B	4	10			2		2	64	157.0	144.08	175.0
CDVC-D1580(56)W/*N1-B	4	11		1		1	2	64	158.0	145.0	176.5
CDVC-D1585(56)W/*N1-B	4	11			1	2	1	64	158.5	145.44	177.5
CDVC-D1600(56)W/*N1-B	4	12				4		64	160.0	146.8	180.0
CDVC-D1602(56)W/*N1-B	4	11	1				3	64	160.2	148.22	177.0
CDVC-D1630(58)W/*N1-B	4	11		1			3	64	163.0	149.52	181.5
CDVC-D1635(58)W/*N1-B	4	11			1	1	2	64	163.5	149.98	182.5
CDVC-D1650(58)W/*N1-B	4	12				3	1	64	165.0	151.34	185.0
CDVC-D1685(60)W/*N1-B	4	11			1		3	64	168.5	154.52	187.5
CDVC-D1700(60)W/*N1-B	4	12				2	2	64	170.0	155.88	190.0
CDVC-D1750(62)W/*N1-B	4	12				1	3	64	175.0	160.4	195.0
CDVC-D1800(64)W/*N1-B	4	12					4	64	180.0	165.0	200.0

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
The models in dark background are factory-recommended models.
The detail specifications for factory-recommended models please refer to the specification tables of the below.
Both R type (50Hz) units and C type (60 Hz) units are suitable

SPECIFICATIONS-50HZ UNITS

Model			CDVC-D252(8)W/RN1-B	CDVC-D280(10)W/RN1-B	CDVC-D335(12)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	7.2	8.0	9.5
		kW	25.2	28.0	33.5
		Btu/h	86,000	95,500	114,300
		kcal/h	21,672	24,080	28,810
	Cooling**	RT	7.0	7.4	8.7
		kW	24.5	25.8	30.8
		Btu/h	83,940	88,030	105,090
		kcal/h	21,070	22,188	26,488
	Heating	RT	7.7	8.9	10.7
		kW	27.0	31.5	37.5
		Btu/h	92,100	107,500	128,000
		kcal/h	23,220	27,090	32,250
Power Input	Cooling*	kW	5.8	6.8	8.2
	Cooling**	kW	7.5	8.7	10.4
	Heating	kW	5.6	7.0	8.1
EER*			4.35	4.10	4.10
EER**			3.27	2.97	2.96
COP			4.80	4.50	4.65
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		13	16	20
Sound Pressure Level		dB(A)	57	57	58
Pipe Connections	Liquid Pipe	mm(inch)	Φ9.5(3/8)	Φ9.5(3/8)	Φ12.7(1/2)
	Gas Pipe	mm(inch)	Φ22.2(7/8)	Φ22.2(7/8)	Φ25.4(1)
	Gas Balance Pipe	mm(inch)	-	-	-
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		1	1	1
	Air Flow Rate	m3/h	11,700	11,700	11,700
		CFM	6,887	6,887	6,887
	Motor Output	W	425	425	490
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		1	1	1
	Capacity	W	16,848	16,848	16,848
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667	3,667	3,667
Fixed Scroll Compressor	Quantity		1	1	1
	Capacity	W	13,921	13,921	16,200
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,194	3,194	3,252
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9(19.8)	9(19.8)	10(22)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimensions (W×H×D)		mm	960×1,615×765	960×1,615×765	960×1,615×765
		inch	37.8×63.6×30.1	37.8×63.6×30.1	37.8×63.6×30.1
Packing (W×H×D)		mm	1,025×1,790×830	1,025×1,790×830	1,025×1,790×830
		inch	40.4×70.5×32.7	40.4×70.5×32.7	40.4×70.5×32.7
Net Weight		kg(lbs)	240(529)	240(529)	242(533)
Gross Weight		kg(lbs)	255(562)	255(562)	257(566)
Operating Temp. Range	Cooling	°C(°F)	-15~54(5~129)	-15~54(5~129)	-15~54(5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model			CDVC-D400(14)W/RN1-B	CDVC-D450(16)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	11.4	12.8
		kW	40.0	45.0
		Btu/h	136,500	153,500
		kcal/h	34,400	38,700
	Cooling**	RT	10.5	11.7
		kW	36.7	41.2
		Btu/h	125,220	140,580
		kcal/h	31,562	35,466
	Heating	RT	12.8	14.2
		kW	45	50
		Btu/h	153,500	170,600
		kcal/h	38,700	43,000
Power Input	Cooling*	kW	9.6	11.3
	Cooling**	kW	12.1	14.4
	Heating	kW	9.6	11.1
EER*			4.15	4.00
EER**			3.03	2.86
COP			4.70	4.50
Connectable IndoorUnit	Total Capacity	%	50-130	50-130
	Max. Quantity		23	26
Sound Pressure Level		dB(A)	60	61
Pipe Connections	Liquid Pipe	mm(inch)	Φ12.7(1/2)	Φ 12.7(1/2)
	Gas Pipe	mm(inch)	Φ 25.4(1)	Φ 28.6(1 1/8)
	Gas Balance Pipe	mm(inch)	-	-
Fan	Type		Axial propeller	Axial propeller
	Quantity		2	2
	Air Flow Rate	m3/h	15,600	15,600
		CFM	9,183	9,183
	Motor Output	W	420+380	420+380
	ESP	Pa	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		1	1
	Capacity	W	16,848	16,848
	Oil Type		POE	POE
	Oil Charge	ml	3,667	3,667
Fixed Scroll Compressor	Quantity		2	2
	Capacity	W	16,200×2	16,200×2
	Oil Type		POE	POE
	Oil Charge	ml	3,252×2	3,252×2
Refrigerant	Type		R410A	R410A
	Factory Charging	kg(lbs)	14(30.9)	14(30.9)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	1,250×1,615×765	1,250×1,615×765
		inch	49.2×63.6×30.1	49.2×63.6×30.1
Packing (W×H×D)		mm	1,305×1,790×820	1,305×1,790×820
		inch	51.4×70.5×32.3	51.4×70.5×32.3
Net Weight		kg(lbs)	330(727)	330(727)
Gross Weight		kg(lbs)	345(761)	345(761)
Operating Temp. Range	Cooling	°C(°F)	-15~54(5~129)	-15~54(5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC-D532(18)W/RN1-B	CDVC-D560(20)W/RN1-B	CDVC-D615(22)W/RN1-B
	Independent Unit		CDVC-D252(8)W/RN1-B	CDVC-D280(10)W/RN1-B	CDVC-D280(10)W/RN1-B
			CDVC-D280(10)W/RN1-B	CDVC-D280(10)W/RN1-B	CDVC-D335(12)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	15.2	16.0	17.5
		kW	53.2	56.0	61.5
		Btu/h	181,500	191,000	209,800
		kcal/h	45,752	48,160	52,890
	Cooling**	RT	14.4	14.7	16.1
		kW	50.3	51.6	56.6
		Btu/h	171,970	176,060	193,120
		kcal/h	43,258	44,376	48,676
	Heating	RT	16.7	18.0	19.7
		kW	58.5	63.0	69.0
		Btu/h	199,600	215,000	235,500
		kcal/h	50,310	54,180	59,340
Power Input	Cooling*	kW	12.6	13.7	15.0
	Cooling**	kW	16.2	17.4	19.1
	Heating	kW	12.6	14.0	15.1
EER*			4.21	4.10	4.10
EER**			3.10	2.97	2.96
COP			4.63	4.50	4.58
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		29	33	36
Sound Pressure Level		dB(A)	62	62	62
Pipe Connections	Liquid Pipe	mm(inch)	Φ15.9(5/8)	Φ15.9(5/8)	Φ15.9(5/8)
	Gas Pipe	mm(inch)	Φ28.6(1 1/8)	Φ28.6(1 1/8)	Φ28.6(11/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		2	2	2
	Air Flow Rate	m3/h	23,400	23,400	23,400
		CFM	13,774	13,774	13,774
	Motor Output	W	425×2	425×2	425+490
	ESP	Pa	0~20 (def ault)	0~20 (def ault)	0~20 (def ault)
			20~40(customized)	20~40(customized)	20~40(customized)
Digital Scroll Compressor	Quantity		2	2	2
	Capacity	W	16,848×2	16,848×2	16,848×2
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×2	3,667×2	3, 667×2
Fixed Scroll Compressor	Quantity		2	2	2
	Capacity	W	13,921×2	13,921×2	13, 921+16,200
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,194×2	3,194×2	3,194+3, 252
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9×2(19.8×2)	9×2(19.8×2)	9+10(19.8+22)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1,615×765)×2	(960×1,615×765)×2	(960×1,615×765)×2
		inch	(37.8×63.6×30.1)×2	(37.8×63.6×30.1)×2	(37.8×63.6×30.1)×2
Packing (W×H×D)		mm	(1,025×1,790×830)×2	(1,025×1,790×830)×2	(1,025×1,790×830)×2
		inch	(40.4×70.5×32.7)×2	(40.4×70.5×32.7)×2	(40.4×70.5×32.7)×2
Net Weight		kg(lbs)	240(529)×2	240(529)×2	240(529)+242(533)
Gross Weight		kg(lbs)	255(562)×2	255(562)×2	255(562)+257(566)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC-D680(24)W/RN1-B	CDVC-D730(26)W/RN1-B	CDVC-D800(28)W/RN1-B
	Independent Unit		CDVC-D280(10)W/RN1-B	CDVC-D280(10)W/RN1-B	CDVC-D400(14)W/RN1-B
			CDVC-D400(14)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D400(14)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	19.4	20.8	22.8
		kW	68,0	73.0	80.0
		Btu/h	232.000	249,000	273,000
		kcal/h	58,480	62,780	68,800
	Cooling**	RT	17.8	19.1	21.0
		kW	62.5	67.0	73.4
		Btu/h	213,250	228,610	250,440
		kcal/h	53,750	57,620	63,124
	Heating	RT	21.8	23.2	25.6
		kW	76.5	81.5	90.0
		Btu/h	261,000	278,100	307,000
		kcal/h	65,790	70,090	77,400
Power Input	Cooling*	kW	16.5	18.1	19.3
	Cooling**	kW	20.8	23.1	24.2
	Heating	kW	16.6	18.1	19.2
EER*			4.13	4.04	4.15
EER**			3.00	2.90	3.03
COP			4.62	4.50	4.70
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		39	43	46
Sound Pressure Level		dB(A)	63	63	64
Pipe Connections	Liquid Pipe	mm(inch)	Φ15.9(5/8)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ28.6(1 1/8)	Φ 31.8(1 1/4)	Φ31.8(1 1/4)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ 16(5/8)	Φ 16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		3	3	4
	Air Flow Rate	m3/h	27,300	27,300	31,200
		CFM	16,070	16,070	18,365
	Motor Output	W	425+420+380	425+420+380	(420+380)×2
	ESP	Pa	0~20(default)	0~20(default)	0~20 (default)
			20~40(customized)	20~40(customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		2	2	2
	Capacity	W	16,848×2	16,848×2	16,848×2
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×2	3,667×2	3,667×2
Fixed Scroll Compressor	Quantity		3	3	4
	Capacity	W	13,921+16,200×2	13,921+16,200×2	16,200×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,194+3,252×2	3,194+3,252×2	3,252×4
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9+14(19.8+30.9)	9+14(19.8+30.9)	14×2(30.9×2)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1,615×765)+(1,250×1,615×765)	(960×1,615×765)+(1,250×1,615×765)	(1,250×1,615×765)×2
		inch	(37.8×63.6×30.1)+(49.2×63.6×30.1)	(37.8×63.6×30.1)+(49.2×63.6×30.1)	(49.2×63.6×30.1)×2
Packing (W×H×D)		mm	(1,025×1,790×830)+(1,305×1,790×820)	(1,025×1,790×830)+(1,305×1,790×820)	(1,305×1,790×820)×2
		inch	(40.4×70.5×32.7)+(51.4×70.5×32.3)	(40.4×70.5×32.7)+(51.4×70.5×32.3)	(51.4×70.5×32.3)×2
Net Weight		kg(lbs)	240(529)+330(727)	240(529)+330(727)	330(727)×2
Gross Weight		kg(lbs)	255(562)+345(761)	255(562)+345(761)	345(761)×2
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC-D850(30)W/RN1-B	CDVC-D900(32)W/RN1-B	CDVC-D960(34)W/RN1-B
	Independent Unit		CDVC-D400(14)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D280(10)W/RN1-B
			CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D280(10)W/RN1-B
			-	-	CDVC-D400(14)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	24.2	25.6	27.4
		kW	85.0	90.0	96.0
		Btu/h	290,000	307, 000	327,500
		kcal/h	73,100	77,400	82,560
	Cooling**	RT	22.2	23.5	25.2
		kW	77.9	82.5	88.3
		Btu/h	265,800	281, 160	301,280
		kcal/h	66,994	70,950	75,938
	Heating	RT	27.0	28.4	30.8
		kW	95.0	100.0	108.0
		Btu/h	324,100	341, 200	368,500
		kcal/h	81,700	86,000	92,880
Power Input	Cooling*	kW	20.9	22.5	23.3
	Cooling**	kW	26.5	28.8	29.5
	Heating	kW	20.7	22.2	23.6
EER*			4.07	4.00	4.12
EER**			2.94	2.86	2.99
COP			4.59	4.50	4.58
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		50	53	56
Sound Pressure Level		dB(A)	64	64	64
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ31.8(1 1/4)	Φ 31.8(1 1/4)	Φ38.1(1 1/2)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ 16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		4	4	4
	Air Flow Rate	m3/h	31,200	31,200	39,000
		CFM	18,365	18,365	22,957
	Motor Output	W	420×2+380×2	420×2+380×2	425×2+420+380
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		2	2	3
	Capacity	W	16,848×2	16,848×2	16,848×3
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×2	3,667×2	3,667×3
Fixed Scroll Compressor	Quantity		4	4	4
	Capacity	W	16,200×4	16,200×4	13,921×2+16,200×2
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×4	3,252×4	3,194×2+3,252×2
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×2(30.9×2)	14×2(30.9×2)	9×2+14(19.8×2+30.9)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1,250×1,615×765)×2	(1,250×1,615×765)×2	(960×1,615×765)×2+(1,250×1,615×765)
		inch	(49.2×63.6×30.1)×2	(49.2×63.6×30.1)×2	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)
Packing (W×H×D)		mm	(1,305×1,790×820)×2	(1,305×1,790×820)×2	(1,025×1,790×830)×2+(1,305×1,790×820)
		inch	(51.4×70.5×32.3)×2	(51.4×70.5×32.3)×2	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)
Net Weight		kg(lbs)	330(727)×2	330(727)×2	240(529)×2+330(727)
Gross Weight		kg(lbs)	345(761)×2	345(761)×2	255(562)×2+345(761)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC -D1010(36)W/RN1-B	CDVC -D1065(38)W/RN1-B	CDVC -D1130(40)W/RN1-B
	Independent Unit		CDVC -D280(10)W/RN1-B	CDVC -D280(10)W/RN1-B	CDVC -D280(10)W/RN1-B
			CDVC -D280(10)W/RN1-B	CDVC -D335(12)W/RN1-B	CDVC -D400(14)W/RN1-B
			CDVC -D450(16)W/RN1-B	CDVC -D450(16)W/RN1-B	CDVC -D450(16)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	28.8	30.3	32.2
		kW	101.0	106.5	113.0
		Btu/h	344,500	363,300	385,500
		kcal/h	86,860	91,590	97,180
	Cooling**	RT	26.5	27.8	29.6
		kW	92.8	97.8	103.7
		Btu/h	316,640	333,700	353,830
		kcal/h	79,808	84,108	89,182
	Heating	RT	32.2	33.9	36.0
		kW	113.0	119.0	126.5
		Btu/h	385,600	406,100	431,600
		kcal/h	97,180	102,340	108,790
Power Input	Cooling*	kW	24.9	26.3	27.7
	Cooling**	kW	31.8	33.5	35.2
	Heating	kW	25.1	26.2	27.7
EER*			4.05	4.06	4.08
EER**			2.92	2.92	2.95
COP			4.50	4.55	4.57
Connectable IndoorUnit	Total Capacity	%	50 -130	50 -130	50 -130
	Max. Quantity		59	63	64
Sound Pressure Level		dB(A)	64	64	65
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ38.1(1 1/2)	Φ 38.1(1 1/2)	Φ38.1(1 1/2)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ 16(5/8)	Φ 16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		4	4	5
	Air Flow Rate	m3/h	39,000	39,000	42,900
		CFM	22,957	22,957	25,252
	Motor Output	W	425×2+420+380	425×2+420+380	425+(420+380)×2
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		3	3	3
	Capacity	W	16,848×3	16,848×3	16,848×3
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×3	3,667×3	3,667×3
Fixed Scroll Compressor	Quantity		4	4	5
	Capacity	W	13,921×2+16,200×2	13,921+16,200×3	13,921+16,200×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,194×2+3,252×2	3,194+3,252×3	3,194+3,252×4
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9×2+14(19.8×2+30.9)	9+10+14(19.8+22+30.9)	9+14×2(19.8+30.9×2)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1,615×765)×2+(1,250×1,615×765)	(960×1,615×765)×2+(1,250×1,615×765)	(960×1,615×765)+(1,250×1,615×765)×2
		inch	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)	(37.8×63.6×30.1)+(49.2×63.6×30.1)×2
Packing (W×H×D)		mm	(1,025×1,790×830)×2+(1,305×1,79×820)	(1,025×1,790×830)×2+(1,305×1,79×820)	(1,025×1,790×830)+(1,305×1,790×820)×2
		inch	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)	(40.4×70.5×32.7)+(51.4×70.5×32.3)×2
Net Weight		kg(lbs)	240(529)×2+330(727)	240(529)+242(533)+330(727)	240(529)+330(727)×2
Gross Weight		kg(lbs)	255(562)×2+345(761)	255(562)+257(566)+345(761)	255(562)+345(761)×2
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC-D1200(42)W/RN1-B	CDVC-D1250(44)W/RN1-B	CDVC-D1300(46)W/RN1-B
	Independent Unit		CDVC-D400(14)W/RN1-B	CDVC-D400(14)W/RN1-B	CDVC-D400(14)W/RN1-B
			CDVC-D400(14)W/RN1-B	CDVC-D400(14)W/RN1-B	CDVC-D450(16)W/RN1-B
			CDVC-D400(14)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	34.2	35.6	37.0
		kW	120.0	125.0	130.0
		Btu/h	409,500	426,500	443,500
		kcal/h	103,200	107,500	111,800
	Cooling**	RT	31.5	32.7	33.9
		kW	110.1	114.6	119.2
		Btu/h	375,660	391,020	406,380
		kcal/h	94,686	98,590	102,512
	Heating	RT	38.3	39.8	40.2
		kW	135.0	140.0	145.0
		Btu/h	460,500	477,600	494,700
		kcal/h	116,100	120,400	124,700
Power Input	Cooling*	kW	28.9	30.5	32.1
	Cooling**	kW	36.3	38.6	40.9
	Heating	kW	28.7	30.3	31.8
EER*			4.15	4.09	4.04
EER**			3.03	2.97	2.91
COP			4.70	4.63	4.56
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	66	66	66
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ38.1(1 1/2)	Φ 38.1(1 1/2)	Φ38.1(1 1/2)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ 16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		6	6	6
	Air Flow Rate	m3/h	46,800	46,800	46,800
		CFM	27,548	27,548	27,548
	Motor Output	W	(420+380)×3	(420+380)×3	(420+380)×3
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		3	3	3
	Capacity	W	16,848×3	16,848×3	16,848×3
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×3	3,667×3	3,667×3
Fixed Scroll Compressor	Quantity		6	6	6
	Capacity	W	16,200×6	16,200×6	16,200×6
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×6	3,252×6	3,252×6
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×3(30.9×3)	14×3(30.9×3)	14×3(30.9×3)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1,250×1,615×765)×3	(1,250×1,615×765)×3	(1,250×1,615×765)×3
		inch	(49.2×63.6×30.1)×3	(49.2×63.6×30.1)×3	(49.2×63.6×30.1)×3
Packing (W×H×D)		mm	(1,305×1,790×820)×3	(1,305×1,790×820)×3	(1,305×1,790×820)×3
		inch	(51.4×70.5×32.3)×3	(51.4×70.5×32.3)×3	(51.4×70.5×32.3)×3
Net Weight		kg(lbs)	330(727)×3	330(727)×3	330(727)×3
Gross Weight		kg(lbs)	345(761)×3	345(761)×3	345(761)×3
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model		Combination Unit	CDVC-D1350(48)W/RN1-B	CDVC-D1432(50)W/RN1-B	CDVC-D1460(52)W/RN1-B
		Independent Unit	CDVC-D450(16)W/RN1-B	CDVC-D252(8)W/RN1-B	CDVC-D280(10)W/RN1-B
			CDVC-D450(16)W/RN1-B	CDVC-D280(10)W/RN1-B	CDVC-D280(10)W/RN1-B
			CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B
			-	CDVC-D450(16)W/RN1-B	CDVC -D450(16)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	38.4	40.8	41.6
		kW	135.0	143.2	146.0
		Btu/h	460,500	488,500	498,000
		kcal/h	116,100	123,152	125,560
	Cooling**	RT	35.2	37.8	38.2
		kW	123.7	132.8	134.1
		Btu/h	421,740	453,130	457,220
		kcal/h	106,382	114,208	115,326
	Heating	RT	42.6	45.1	46.4
		kW	150.0	158.5	163.0
		Btu/h	511,800	540,800	556,200
		kcal/h	129,000	136,310	140,180
Power Input	Cooling*	kW	33.8	35.1	36.2
	Cooling**	kW	43.2	45.0	46.2
	Heating	kW	33.3	34.9	36.2
EER*			4.00	4.08	4.04
EER**			2.86	2.95	2.90
COP			4.50	4.55	4.50
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	66	66	66
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 22.2(7/8)	Φ22.2(7/8)
	Gas Pipe	mm(inch)	Φ 38.1(11/2)	Φ 41.2(15/8)	Φ 41.2(15/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		6	6	6
	Air Flow Rate	m3/h	46,800	54,600	54,600
		CFM	27,548	32,139	32,139
	Motor Output	W	(420+380)×3	425×2+(420+380)×2	425×2+(420+380)×2
	ESP	Pa	0~20(default)	0~20(default)	0~20(default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		3	4	4
	Capacity	W	16,848×3	16,848×4	16,848×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×3	3,667×4	3,667×4
Fixed Scroll Compressor	Quantity		6	6	6
	Capacity	W	16,200×6	13,921×2+16,200×4	13,921×2+16,200×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×6	3,194×2+3,252×4	3,194×2+3,252×4
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×3(30.9×3)	9×2+14×2(19.8×2+30.9×2)	9×2+14×2(19.8×2+30.9×2)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1,250×1,615×765)×3	(960×1,615×765)×2+(1,250×1,615×765)×2	(960×1,615×765)×2+(1,250×1,615×765)×2
		inch	(49.2×63.6×30.1)×3	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)×2	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)×2
Packing (W×H×D)		mm	(1,305×1,790×820)×3	(1,025×1,790×830)×2+(1,305×1,790×820)×2	(1,025×1,790×830)×2+(1,305×1,790×820)×2)
		inch	(51.4×70.5×32.3)×3	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)×2	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)×2
Net Weight		kg(lbs)	330(727)×3	240(529)×2+330(727)×2	240(529)×2+330(727)×2
Gross Weight		kg(lbs)	345(761)×3	255(562)×2+345(761)×2	255(562)×2+345(761)×2
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC-D1515(54)W/RN1-B	CDVC-D1580(56)W/RN1-B	CDVC-D1650(58)W/RN1-B
	Independent Unit		CDVC-D280(10)W/RN1-B	CDVC-D280(10)W/RN1-B	CDVC-D400(14)W/RN1-B
			CDVC-D335(12)W/RN1-B	CDVC-D400(14)W/RN1-B	CDVC-D400(14)W/RN1-B
			CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D400(14)W/RN1-B
			CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B	CDVC-D450(16)W/RN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	43.1	45.0	47.0
		kW	151.5	158.0	165.0
		Btu/h	516,800	539,000	563,000
		kcal/h	130,290	135,880	141,900
	Cooling**	RT	39.6	41.3	43.2
		kW	139.1	145.0	151.3
		Btu/h	474,280	494,410	516,240
		kcal/h	119,626	124,700	130,152
	Heating	RT	48 .1	50.2	52.5
		kW	169.0	176.5	185.0
		Btu/h	576,700	602,200	631,100
		kcal/h	145,340	151,790	159,100
Power Input	Cooling*	kW	37.5	39.0	40.2
	Cooling**	kW	47.9	49.6	50.7
	Heating	kW	37.3	38.8	39.8
EER*			4.04	4.05	4.11
EER**			2.90	2.90	3.00
COP			4.53	4.55	4.64
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	66	67	68
Pipe Connections	Liquid Pipe	mm(inch)	Φ22.2(7/8)	Φ 22.2(7/8)	Φ22.2(7/8)
	Gas Pipe	mm(inch)	Φ 41.2(15/8)	Φ 41.2(15/8)	Φ 41.2(15/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ 16(5/8)	Φ 16(5/8)
Fan	Type		Axial pr opeller	Axial propeller	Axial propeller
	Quantity		6	7	8
	Air Flow Rate	m3/h	54,600	58,500	62,400
		CFM	32,139	34,435	36,731
	Motor Output	W	425+490+(420+380)×2	425+(420+380)×3	(420+380)×4
	ESP	Pa	0~20(default)	0~20(default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		4	4	4
	Capacity	W	16,848×4	16,848×4	16,848×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×4	3,667×4a	3,667×4
Fixed Scroll Compressor	Quantity		6	7	8
	Capacity	W	13,921+16,200×5	13,921+16,200×6	16,200×8
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,194+3,252×5	3,194+3,252×6	3,252×8
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9+10+14×2(19.8+22+30.9×2)	9+14×3(19.8+30.9×3)	14×4(30.9×4)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1,615×765)×2+(1,250×1,615×765)×2	(960×1,615×765)+(1,250×1,615×765)×3	(1,250×1,615×765)×4
		inch	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)×2	(37.8×63.6×30.1)+(49.2×63.6×30.1)×3	(49.2×63.6×30.1)×4
Packing (W×H×D)		mm	(1,025×1,790×830)×2+(1,305×1,790×820)×2	(1,025×1,790×830)+(1,305×1,790×820)×3	(1,305×1,790×820)×4
		inch	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)×2	(40.4×70.5×32.7)+(51.4×70.5×32.3)×3	(51.4×70.5×32.3)×4
Net Weight		kg(lbs)	240(529)+242(533)+330(727)×2	240(529)+330(727)×3	330(727)×4
Gross Weight		kg(lbs)	255(562)+257(566)+345(761)×2	255(562)+345(761)×3	345(761)×4
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-50HZ UNITS

Model	Combination Unit		CDVC-D1700(60)W/CN1-B	CDVC-D1750(62)W/CN1-B	CDVC-D1800(64)W/CN1-B
	Independent Unit		CDVC-D400(14)W/CN1-B	CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	48.4	49.8	51.2
		kW	170.0	175.0	180.0
		Btu/h	580,000	597,000	614,000
		kcal/h	146,200	150,500	154,800
	Cooling**	RT	44.4	45.7	46.9
		kW	155.9	160.4	165.0
		Btu/h	531,600	546,960	562,320
		kcal/h	134,057	137,944	141,900
	Heating	RT	54.0	55.4	56.8
		kW	190.0	195.0	200.0
		Btu/h	648,200	665,300	682,400
		kcal/h	163,400	167,700	172,000
Power Input	Cooling*	kW	41.8	43.4	45.0
	Cooling**	kW	53.0	55.3	57.6
	Heating	kW	41.4	42.9	44.4
EER*			4.07	4.00	4.00
EER**			2.90	2. 90	2.90
COP			4.59	4.50	4.50
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	68	68	68
Pipe Connections	Liquid Pipe	mm(inch)	Φ22.2(7/8)	Φ 22.2(7/8)	Φ22.2(7/8)
	Gas Pipe	mm(inch)	Φ 41.2(15/8)	Φ 41.2 (15/8)	Φ 41.2 (15/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		8	8	8
	Air Flow Rate	m3/h	62,400	62,400	62,400
		CFM	36,731	36,731	36,731
	Motor Output	W	(420+380)×4	(420+380)×4	(420+380)×4
	ESP	Pa	0~20 (default)	0~20(default)	0~20(default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		4	4	4
	Capacity	W	16,848×4	16,848×4	16,848×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,667×4	3,667×4	3,667×4
Fixed Scroll Compressor	Quantity		8	8	8
	Capacity	W	16,200×8	16,200×8	16,200×8
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×8	3,252×8	3,252×8
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×4(30.9×4)	14×4(30.9×4)	14×4(30.9×4)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1,250×1,615×765)×4	(1,250×1,615×765)×4	(1,250×1,615×765)×4
		inch	(49.2×63.6×30.1)×4	(1,305×1,790×820)×4	(1,305×1,790×820)×4
Packing (W×H×D)		mm	(1,305×1,790×820)×4	(51.4×70.5×32.3)×4	(51.4×70.5×32.3)×4
		inch	(51.4×70.5×32.3)×4	(49.2×63.6×30.1)×4	(49.2×63.6×30.1)×4
Net Weight		kg(lbs)	330(727)×4	330(727)×4	330(727)×4
Gross Weight		kg(lbs)	345(761)×4	345(761)×4	345(761)×4
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model			CDVC-D252(8)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D335(12)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	7.2	8.0	9.5
		kW	25.2	28	33.5
		Btu/h	86,000	95,500	114,300
		kcal/h	21,672	24,080	28,810
	Cooling**	RT	7	7.4	8.7
		kW	24.5	25.8	30.8
		Btu/h	83,940	88,030	105,090
		kcal/h	21070	22188	26488
	Heating	RT	7.7	8.9	10.7
		kW	27	31.5	37.5
		Btu/h	92,100	107,500	128,000
		kcal/h	23,220	27,090	32,250
Power Input	Cooling*	kW	5.79	6.83	8.17
	Cooling**	kW	7.50	8.70	10.40
	Heating	kW	5.63	7	8.06
EER*			4.35	4.1	4.1
EER**			3.27	2.97	2.96
COP			4.8	4.5	4.65
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		13	16	20
Sound Pressure Level		dB(A)	57	57	58
Pipe Connections	Liquid Pipe	mm(inch)	Φ9.5(3/8)	Φ9.5(3/8)	Φ 12.7(1/2)
	Gas Pipe	mm(inch)	Φ 22.2(7/8)	Φ 22.2(7/8)	Φ 25.4(1)
	Gas Balance Pipe	mm(inch)	-	-	-
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		1	1	1
	Air Flow Rate	m3/h	11,700	11700	11,700
		CFM	6,887	6,887	6,887
	Motor Output	W	425	425	490
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		1	1	1
	Capacity	W	18,100	18,100	18,100
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252	3,252	3,252
Fixed Scroll Compressor	Quantity		1	1	1
	Capacity	W	17,000	17,000	17,000
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252	3,252	3,252
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9(19.8)	9(19.8)	10(22)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	960×1615×765	960×1615×765	960×1615×765
		inch	37.8×63.6×30.1	37.8×63.6×30.1	37.8×63.6×30.1
Packing (W×H×D)		mm	1025×1790×830	1025×1790×830	1025×1790×830
		inch	40.4×70.5×32.7	40.4×70.5×32.7	40.4×70.5×32.7
Net Weight		kg(lbs)	240(529)	240(529)	242(533)
Gross Weight		kg(lbs)	255(562)	255(562)	257(566)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model			CDVC--D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	11.4	12.8
		kW	40	45
		Btu/h	136,500	153,500
		kcal/h	34,400	38,700
	Cooling**	RT	10.5	11.7
		kW	36.7	41.24
		Btu/h	125,220	140,580
		kcal/h	31562	35466.4
	Heating	RT	12.8	14.2
		kW	45	50
		Btu/h	153,500	170,600
		kcal/h	38,700	43,000
Power Input	Cooling*	kW	9.64	11.25
	Cooling**	kW	12.10	14.40
	Heating	kW	9.57	11.11
EER*			4.15	4
EER**			3.03	2.86
COP			4.7	4.5
Connectable IndoorUnit	Total Capacity	%	50-130	50-130
	Max. Quantity		23	26
Sound Pressure Level		dB(A)	60	61
Pipe Connections	Liquid Pipe	mm(inch)	Φ12.7(1/2)	Φ 12.7(1/2)
	Gas Pipe	mm(inch)	Φ 25.4(1)	Φ 28.6(1 1/8)
	Gas Balance Pipe	mm(inch)	-	-
Fan	Type		Axial propeller	Axial propeller
	Quantity		1+1	1+1
	Air Flow Rate	m3/h	15,600	15,600
		CFM	9,183	9,183
	Motor Output	W	420+360	420+360
	ESP	Pa	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		1	1
	Capacity	W	18,100	18,100
	Oil Type		POE	POE
	Oil Charge	ml	3,252	3,252
Fixed Scroll Compressor	Quantity		2	2
	Capacity	W	17,000×2	17,000×2
	Oil Type		POE	POE
	Oil Charge	ml	3,252×2	3,252×2
Refrigerant	Type		R410A	R410A
	Factory Charging	kg(lbs)	14(30.9)	14(30.9)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	1250×1615×765	1250×1615×765
		inch	49.2×63.6×30.1	49.2×63.6×30.1
Packing (W×H×D)		mm	1305×1790×820	1305×1790×820
		inch	51.4×70.5×32.3	51.4×70.5×32.3
Net Weight		kg(lbs)	330(727)	330(727)
Gross Weight		kg(lbs)	345(761)	345(761)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D532(18)W/CN1-B	CDVC-D560(20)W/CN1-B	CDVC-D615(22)W/CN1-B
	Independent Unit		CDVC-D252(8)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B
			CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D335(12)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	15.2	16.0	17.5
		kW	53.2	56	61.5
		Btu/h	181,500	191,000	209,800
		kcal/h	45,752	48,160	52,890
	Cooling**	RT	14.4	14.7	16.1
		kW	50.3	51.6	56.6
		Btu/h	171,970	176,060	193,120
		kcal/h	43,258	44,376	48,676
	Heating	RT	16.7	18.0	19.7
		kW	58.5	63	69
		Btu/h	199,600	215,000	235,500
		kcal/h	50,310	54,180	59,340
Power Input	Cooling*	kW	12.6	13.7	15.0
	Cooling**	kW	16.2	17.4	19.1
	Heating	kW	12.6	14.0	15.1
EER*			4.21	4.10	4.10
EER**			3.10	2.97	2.96
COP			4.63	4.50	4.58
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		29	33	36
Sound Pressure Level		dB(A)	62	62	62
Pipe Connections	Liquid Pipe	mm(inch)	Φ15.9(5/8)	Φ 15.9(5/8)	Φ 15.9(5/8)
	Gas Pipe	mm(inch)	Φ28.6(1 1/8)	Φ 28.6(1 1/8)	Φ 28.6(1 1/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ 16(5/8)	Φ 16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		2	2	2
	Air Flow Rate	m3/h	23,400	23,400	23,400
		CFM	13,774	13,774	13,774
	Motor Output	W	425×2	425×2	425+490
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		2	2	2
	Capacity	W	18,100×2	18,100×2	18,100×2
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×2	3,252×2	3,252×2
Fixed Scroll Compressor	Quantity		2	2	2
	Capacity	W	17,000×2	17,000×2	17,000×2
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×2	3,252×2	3,252×2
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9×2(19.8×2)	9×2(19.8×2)	9+10(19.8+22)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1615×765)×2	(960×1615×765)×2	(960×1615×765)×2
		inch	(37.8×63.6×30.1)×2	(37.8×63.6×30.1)×2	(37.8×63.6×30.1)×2
Packing (W×H×D)		mm	(1025×1790×830)×2	(1025×1790×830)×2	(1025×1790×830)×2
		inch	(40.4×70.5×32.7)×2	(40.4×70.5×32.7)×2	(40.4×70.5×32.7)×2
Net Weight		kg(lbs)	240(529)×2	240(529)×2	240(529)+242(533)
Gross Weight		kg(lbs)	255(562)×2	255(562)×2	255(562)+257(566)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~27 (-4~80.6)	-20~27 (-4~80.6)	-20~27 (-4~80.6)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

COOLEX

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D680(24)W/CN1-B	CDVC-D730(26)W/CN1-B	CDVC-D800(28)W/CN1-B
	Independent Unit		CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D400(14)W/CN1-B
			CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D400(14)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	19.4	20.8	22.8
		kW	68	73	80.0
		Btu/h	232,000	249,000	273,000
		kcal/h	58,480	62,780	68,800
	Cooling**	RT	17.8	19.1	21.0
		kW	62.5	67	73.4
		Btu/h	213,250	228,610	250,440
		kcal/h	53,750	57,620	63,124
	Heating	RT	21.8	23.2	25.6
		kW	76.5	81.5	90.0
		Btu/h	261,000	278,100	307,000
		kcal/h	65,790	70,090	77,400
Power Input	Cooling*	kW	16.5	18.1	19.3
	Cooling**	kW	20.8	23.1	24.2
	Heating	kW	16.6	18.1	19.1
EER*			4.13	4.04	4.15
EER**			3.00	2.90	3.03
COP			4.62	4.50	4.70
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		39	43	46
Sound Pressure Level		dB(A)	63	63	64
Pipe Connections	Liquid Pipe	mm(inch)	Φ15.9(5/8)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ28.6(1 1/8)	Φ 31.8(1 1/4)	Φ31.8(1 1/4)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ 16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		3	3	4
	Air Flow Rate	m3/h	27,300	27,300	31,200
		CFM	16,070	16,070	18,366
	Motor Output	W	425+420+360	425+420+360	(420+360)×2
	ESP	Pa	0~20 (default)	10~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		2	2	2
	Capacity	W	18,100×2	18,100×2	18,100×2
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×2	3,252×2	3,252×2
Fixed Scroll Compressor	Quantity		3	3	4
	Capacity	W	17,000×3	17,000×3	17,000×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×3	3,252×3	3,252×4
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9+14(19.8+30.9)	9+14(19.8+30.9)	14×2(30.9×2)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1615×765)+(1250×1615×765)	(960×1615×765)+(1250×1615×765)	(1250×1615×765)×2
		inch	(37.8×63.6×30.1)+(49.2×63.6×30.1)	(37.8×63.6×30.1)+(49.2×63.6×30.1)	(49.2×63.6×30.1)×2
Packing (W×H×D)		mm	(1025×1790×830)+(1305×1790×820)	(1025×1790×830)+(1305×1790×820)	(1305×1790×820)×2
		inch	(40.4×70.5×32.7)+(51.4×70.5×32.3)	(40.4×70.5×32.7)+(51.4×70.5×32.3)	(51.4×70.5×32.3)×2
Net Weight		kg(lbs)	240(529)+330(727)	240(529)+330(727)	330(727)×2
Gross Weight		kg(lbs)	255(562)+345(761)	255(562)+345(761)	345(761)×2
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~27 (-4~80.6)	-20~27 (-4~80.6)	-20~27 (-4~80.6)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D850(30)W/CN1-B	CDVC-D900(32)W/CN1-B	CDVC-D960(34)W/CN1-B
	Independent Unit		CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D280(10)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D280(10)W/CN1-B
			-	-	CDVC-D400(14)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	24.2	25.6	27.4
		kW	85	90	96
		Btu/h	290,000	307,000	327,500
		kcal/h	73,100	77,400	82,560
	Cooling**	RT	22.2	23.5	25.2
		kW	77.9	82.5	88.3
		Btu/h	265,800	281,160	301,280
		kcal/h	66994	70,950	75,938
	Heating	RT	27.0	28.4	30.8
		kW	95	100	10 8
		Btu/h	324,100	341,200	368,500
		kcal/h	81,700	86,000	92,880
Power Input	Cooling*	kW	20.9	22.5	23.3
	Cooling**	kW	26.5	28.8	29.5
	Heating	kW	20.7	22.2	23.6
EER*			4.07	4.00	4.12
EER**			2.94	2.86	2.99
COP			4.59	4.50	4.58
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		50	53	56
Sound Pressure Level		dB(A)	64	64	64
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ 31.8(11/4)	Φ 31.8(11/4)	Φ 38.1(11/2)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ 16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		4	4	4
	Air Flow Rate	m3/h	31,200	31,200	39,000
		CFM	18,365	18,365	22,957
	Motor Output	W	(420+360)×2	(420+360)×2	425×2+420+360
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		2	2	3
	Capacity	W	18,100×2	18,100×2	18,100×3
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×2	3,252×2	3,252×3
Fixed Scroll Compressor	Quantity		4	4	4
	Capacity	W	17,000×4	17,000×4	17,000×4
	Oil Type		P O E	P OE	POE
	Oil Charge	ml	3,252×4	3,252×4	3,252×4
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×2(30.9×2)	14×2(30.9×2)	9×2+14(19.8×2+30.9)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1250×1615×765)×2	(1250×1615×765)×2	(960×1615×765)×2+(1250×1615×765)
		inch	(49.2×63.6×30.1)×2	(49.2×63.6×30.1)×2	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)
Packing (W×H×D)		mm	(1305×1790×820)×2	(1305×1790×820)×2	(1025×1790×830)×2+(1305×1790×820)
		inch	(51.4×70.5×32.3)×2	(51.4×70.5×32.3)×2	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)
Net Weight		kg(lbs)	330(727)×2	330(727)×2	240(529)×2+330(727)
Gross Weight		kg(lbs)	345(761)×2	345(761)×2	255(562)×2+345(761)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D1010(36)W/CN1-B	CDVC-D1065(38)W/CN1-B	CDVC-D1130(40)W/CN1-B
	Independent Unit		CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B
			CDVC-D280(10)W/CN1-B	CDVC-D335(12)W/CN1-B	CDVC-D400(14)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	28.8	30.3	32.2
		kW	101	106.5	113
		Btu/h	344,500	363,300	385,500
		kcal/h	86,860	91,590	97,180
	Cooling**	RT	26.5	27.8	29.6
		kW	92.8	97.8	103.7
		Btu/h	316,640	333,700	353,830
		kcal/h	79,808	84,108	89,182
	Heating	RT	32.2	33.9	36.0
		kW	113	119	126.5
		Btu/h	385,600	406,100	431,600
		kcal/h	97,180	102,340	108,790
Power Input	Cooling*	kW	24.9	26.3	27.7
	Cooling**	kW	31.8	33.5	35.2
	Heating	kW	25.1	26.2	27.7
EER*			4.05	4.06	4.08
EER**			2.92	2.92	2.95
COP			4.50	4.55	4.57
Connectable IndoorUnit	Total Capacity	%	50-130	5 0-130	50-130
	Max. Quantity		59	63	64
Sound Pressure Level		dB(A)	64	64	65
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ38.1(11/2)	Φ 38.1(11/2)	Φ38.1(11/2)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		4	4	5
	Air Flow Rate	m3/h	39,000	39,000	42,900
		CFM	22,957	22,957	25,252
	Motor Output	W	425×2+420+360	425×2+420+360	425+(420+360)×2
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		3	3	3
	Capacity	W	18,100×3	18,100×3	18,100×3
	Oil Type		PO E	POE	POE
	Oil Charge	ml	3,252×3	3,252×3	3,252×3
Fixed Scroll Compressor	Quantity		4	4	5
	Capacity	W	17,000×4	17,000×4	17,000×5
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252× 4	3,252×4	3,252×5
Refrigerant	Type		R410A	R410A	R 410A
	Factory Charging	kg(lbs)	9×2+14(19.8×2+30.9)	9+10+14(19.8+22+30.9)	9+14×2(19.8+30.9×2)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1615×765)×2+(1250×1615×765)	(960×1615×765)×2+(1250×1615×765)	(960×1615×765)×2+(1250×1615×765)
		inch	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)
Packing (W×H×D)		mm	(1025×1790×830)×2+(1305×1790×820)	(1025×1790×830)×2+(1305×1790×820)	(1025×1790×830)×2+(1305×1790×820)
		inch	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)
Net Weight		kg(lbs)	240(529)×2+330(727)	240(529)+242(533)+330(727)	240(529)+330(727)×2
Gross Weight		kg(lbs)	255(562)×2+345(761)	255(562)+257(566)+345(761)	255(562)+345(761)×2
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D1200(42)W/CN1-B	CDVC-D1250(44)W/CN1-B	CDVC-D1300(46)W/CN1-B
	Independent Unit		CDVC-D400(14)W/CN1-B	CDVC-D400(14)W/CN1-B	CDVC-D400(14)W/CN1-B
			CDVC-D400(14)W/CN1-B	CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	34.2	35.6	37.0
		kW	120.0	125.0	130
		Btu/h	409,500	426,500	443,500
		kcal/h	103,200	107,500	111,800
	Cooling**	RT	31.5	32.7	33.9
		kW	110.1	114.6	119.2
		Btu/h	375,660	391,020	406,380
		kcal/h	94,686	98,590.4	102,512
	Heating	RT	38.4	39.8	40.2
		kW	135.0	140.0	145
		Btu/h	460,500	477,600	494,700
		kcal/h	116,100	120,400	124,700
Power Input	Cooling*	kW	28.9	30.5	32.1
	Cooling**	kW	36.3	38.6	40.9
	Heating	kW	28.7	30.3	31.8
EER*			4.15	4.09	4.04
EER**			3.03	2.97	2.91
COP			4.70	4.63	4.56
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	66	66	66
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 19.1(3/4)	Φ19.1(3/4)
	Gas Pipe	mm(inch)	Φ38.1(1 1/2)	Φ38.1(1 1/2)	Φ38.1(1 1/2)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		6	6	6
	Air Flow Rate	m3/h	46,800	46,800	46,800
		CFM	27,549	27,549	27,548
	Motor Output	W	(420+360)×3	(420+360)×3	(420+360)×3
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		3	3	3
	Capacity	W	18,100×3	18,100×3	18,100×3
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×3	3,252×3	3,252×3
Fixed Scroll Compressor	Quantity		6	6	6
	Capacity	W	17,000×6	17,000×6	17,000×6
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×6	3,252×6	3,252×6
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×3(30.9×3)	14×3(30.9×3)	14×3(30.9×3)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1250×1615×765)×3	(1250×1615×765)×3	(1250×1615×765)×3
		inch	(49.2×63.6×30.1)×3	(49.2×63.6×30.1)×3	(49.2×63.6×30.1)×3
Packing (W×H×D)		mm	(1305×1790×820)×3	(1305×1790×820)×3	(1305×1790×820)×3
		inch	(51.4×70.5×32.3)×3	(51.4×70.5×32.3)×3	(51.4×70.5×32.3)×3
Net Weight		kg(lbs)	330(727)×3	330(727)×3	330(727)×3
Gross Weight		kg(lbs)	345(761)×3	345(761)×3	345(761)×3
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D1350(48)W/CN1-B	CDVC-D1432(50)W/CN1-B	CDVC-D1460(52)W/CN1-B
	Independent Unit		CDVC-D450(16)W/CN1-B	CDVC-D252(8)W/CN1-B	CDVC-D280(10)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
			-	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	38.4	40.8	41.6
		kW	135	143.2	146.0
		Btu/h	460,500	488,500	498,000
		kcal/h	116,100	123,152	125,560
	Cooling**	RT	35.2	37.8	38.2
		kW	123.7	132.8	134.1
		Btu/h	421,740	453,130	457,220
		kcal/h	106,382	114,208	115,326
	Heating	RT	42.6	45.1	46.4
		kW	150	158.5	163.0
		Btu/h	511,800	540,800	556,200
		kcal/h	129,000	136,310	140,180
Power Input	Cooling*	kW	33.8	35.1	36.2
	Cooling**	kW	43.2	45.0	46.2
	Heating	kW	33.3	34.8	36.2
EER*			4.00	4.08	4.04
EER**			2.86	2.95	2.90
COP			4.50	4.55	4.50
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	66	66	66
Pipe Connections	Liquid Pipe	mm(inch)	Φ19.1(3/4)	Φ 22.2(7/8)	Φ22.2(7/8)
	Gas Pipe	mm(inch)	Φ 38.1(11/2)	Φ 41.2(15/8)	Φ 41.2(15/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		6	6	6
	Air Flow Rate	m3/h	46,800	54,600	54,600
		CFM	27,548	32,139	32,139
	Motor Output	W	(420+360)×3	425×2+(420+360)×2	425×2+(420+360)×2
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		3	4	4
	Capacity	W	18,100×3	18,100×4	18,100×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×3	3,252×4	3,252×4
Fixed Scroll Compressor	Quantity		6	6	6
	Capacity	W	17,000×6	17,000×6	17,000×6
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×6	3,252×6	3,252×6
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×3(30.9×3)	9×2+14×2(19.8×2+30.9×2)	9×2+14×2(19.8×2+30.9×2)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1250×1615×765)×3	(960×1615×765)×2+(1250×1615×765)×2	(960×1615×765)×2+(1250×1615×765)×2
		inch	(49.2×63.6×30.1)×3	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)×2	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)×2
Packing (W×H×D)		mm	(1305×1790×820)×3	(1025×1790×830)×2+(1305×1790×820)×2	(1025×1790×830)×2+(1305×1790×820)×2
		inch	(51.4×70.5×32.3)×3	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)×2	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)×2
Net Weight		kg(lbs)	330(727)×3	240(529)×2+330(727)×2	240(529)×2+330(727)×2
Gross Weight		kg(lbs)	345(761)×3	255(562)×2+345(761)×2	255(562)×2+345(761)×2
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

SPECIFICATIONS-60HZ UNITS

Model	Combination Unit		CDVC-D1515(54)W/CN1-B	CDVC-D1580(56)W/CN1-B	CDVC-D1650(58)W/CN1-B
	Independent Unit		CDVC-D280(10)W/CN1-B	CDVC-D280(10)W/CN1-B	CDVC-D400(14)W/CN1-B
			CDVC-D335(12)W/CN1-B	CDVC-D400(14)W/CN1-B	CDVC-D400(14)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D400(14)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	43.1	45.0	47.0
		kW	151.5	158	165
		Btu/h	516,800	539,000	563,000
		kcal/h	130,290	135,880	141,900
	Cooling**	RT	39.6	41.3	43.2
		kW	139.1	145	153.3
		Btu/h	474,280	494,410	516,240
		kcal/h	119,626	124,700	130,152
	Heating	RT	48.1	50.2	52.6
		kW	169	176.5	185.0
		Btu/h	576,700	602,200	631,100
		kcal/h	145,340	151,790	159,100
Power Input	Cooling*	kW	37.5	39.0	40.2
	Cooling**	kW	47.9	49.6	50.7
	Heating	kW	37.3	38.8	39.8
EER*			4.04	4.05	4.11
EER**			2.90	2.92	3.02
COP			4.53	4.55	4.65
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	66	67	68
Pipe Connections	Liquid Pipe	mm(inch)	Φ22.2(7/8)	Φ 22.2(7/8)	Φ22.2(7/8)
	Gas Pipe	mm(inch)	Φ 41.2(1 5/8)	Φ 41.2(1 5/8)	Φ41.2(1 5/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		6	7	8
	Air Flow Rate	m3/h	54,600	58,500	62,400
		CFM	32,139	34,435	36,732
	Motor Output	W	425+490+(420+360)×2	425+(420+360)×3	(420+360)×4
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		4	4	4
	Capacity	W	18,100×4	18,100×4	18,100×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×4	3,252×4	3,252×4
Fixed Scroll Compressor	Quantity		6	7	8
	Capacity	W	17,000×6	17,000×7	17,000×8
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×6	3,252×7	3,252×8
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	9+10+14×2(19.8+22+30.9×2)	9+14×3(19.8+30.9×3)	14×4(30.9×4)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(960×1615×765)×2+(1250×1615×765)×2	(960×1615×765)+(1250×1615×765)×3	(1250×1615×765)×4
		inch	(37.8×63.6×30.1)×2+(49.2×63.6×30.1)×2	(37.8×63.6×30.1)+(49.2×63.6×30.1)×3	(49.2×63.6×30.1)×4
Packing (W×H×D)		mm	(1025×1790×830)×2+(1305×1790×820)×2	(1025×1790×830)+(1305×1790×820)×3	(1305×1790×820)×4
		inch	(40.4×70.5×32.7)×2+(51.4×70.5×32.3)×2	(40.4×70.5×32.7)+(51.4×70.5×32.3)×3	(51.4×70.5×32.3)×4
Net Weight		kg(lbs)	240(529)+242(533)+330(727)×2	240(529)+330(727)×3	330(727)×4
Gross Weight		kg(lbs)	255(562)+257(566)+345(761)×2	255(562)+345(761)×3	345(761)×4
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

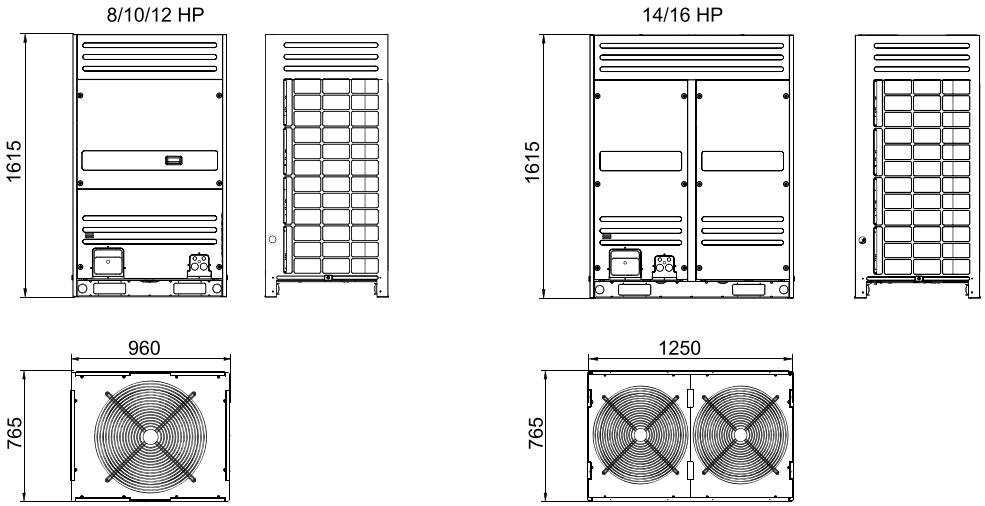
Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

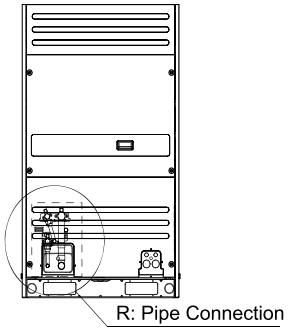
SPECIFICATIONS-60HZ UNITS

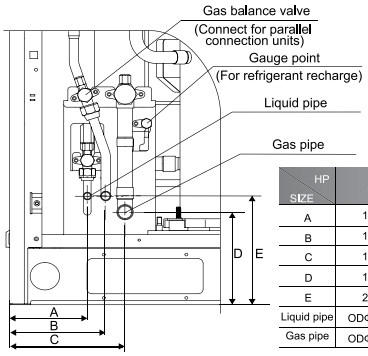
Model		Combination Unit	CDVC-D1700(60)W/CN1-B	CDVC-D1750(62)W/CN1-B	CDVC-D1800(64)W/CN1-B
		Independent Unit	CDVC-D400(14)W/CN1-B	CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D400(14)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
			CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B	CDVC-D450(16)W/CN1-B
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	48.4	49.8	51.2
		kW	170.0	175	180
		Btu/h	580,000	597,000	614,000
		kcal/h	146,200	150,500	154,800
	Cooling**	RT	44.4	45.7	46.9
		kW	155.9	160.4	165
		Btu/h	531,600	546,960	562,320
		kcal/h	134,057	137,944	141,900
	Heating	RT	54.0	55.4	56.8
		kW	190.0	195.0	200
		Btu/h	648,200	665,300	682,400
		kcal/h	163,400	167,700	172,000
Power Input	Cooling*	kW	41.8	43.4	45.0
	Cooling**	kW	53.0	55.3	57.6
	Heating	kW	41.4	42.9	44.4
EER*			4.07	4.03	4.00
EER**			2.94	2.90	2.86
COP			4.59	4.54	4.50
Connectable IndoorUnit	Total Capacity	%	50-130	50-130	50-130
	Max. Quantity		64	64	64
Sound Pressure Level		dB(A)	68	68	68
Pipe Connections	Liquid Pipe	mm(inch)	Φ22.2(7/8)	Φ 22.2(7/8)	Φ22.2(7/8)
	Gas Pipe	mm(inch)	Φ 41.2(1 5/8)	Φ 41.2(1 5/8)	Φ41.2(1 5/8)
	Gas Balance Pipe	mm(inch)	Φ16(5/8)	Φ16(5/8)	Φ16(5/8)
Fan	Type		Axial propeller	Axial propeller	Axial propeller
	Quantity		8	8	8
	Air Flow Rate	m3/h	62,400	62,400	62,400
		CFM	36,731	36,731	36,731
	Motor Output	W	(420+360)×4	(420+360)×4	(420+360)×4
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)
			20~40 (customized)	20~40 (customized)	20~40 (customized)
Digital Scroll Compressor	Quantity		4	4	4
	Capacity	W	18,100×4	18,100×4	18,100×4
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×4	3,252×4	3,252×4
Fixed Scroll Compressor	Quantity		8	8	8
	Capacity	W	17,000×8	17,000×8	17,000×8
	Oil Type		POE	POE	POE
	Oil Charge	ml	3,252×8	3,252×8	3,252×8
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg(lbs)	14×4(30.9×4)	14×4(30.9×4)	14×4(30.9×4)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	(1250×1615×765)×4	(1250×1615×765)×4	(1250×1615×765)×4
		inch	(49.2×63.6×30.1)×4	(49.2×63.6×30.1)×4	(49.2×63.6×30.1)×4
Packing (W×H×D)		mm	(1305×1790×820)×4	(1305×1790×820)×4	(1305×1790×820)×4
		inch	(51.4×70.5×32.3)×4	(51.4×70.5×32.3)×4	(51.4×70.5×32.3)×4
Net Weight		kg(lbs)	330(727)×4	330(727)×4	330(727)×4
Gross Weight		kg(lbs)	345(761)×4	345(761)×4	345(761)×4
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-20~24(-4~75.2)	-20~24(-4~75.2)	-20~24(-4~75.2)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

UNIT DIMENSIONS





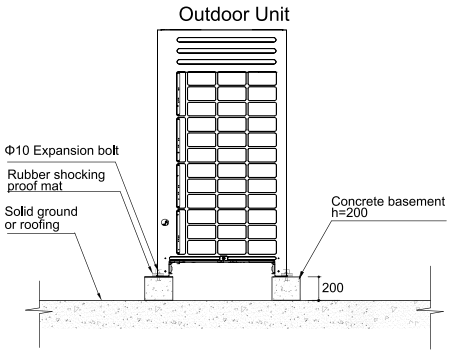


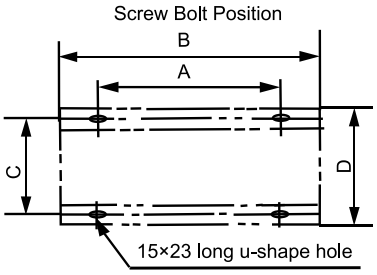
R Section View

HP / SIZE	8	10	12	14	16
A	130	130	130	165	165
B	160	160	160	195	195
C	195	195	195	230	230
D	170	170	170	170	170
E	200	200	200	200	200
Liquid pipe	ODΦ12.7	ODΦ12.7	ODΦ15.9	ODΦ15.9	ODΦ15.9
Gas pipe	ODΦ25.4	ODΦ25.4	ODΦ31.8	ODΦ31.8	ODΦ31.8

Installation Dimension

Unit: mm





HP / SIZE	8/10/12	14/16
A	830	1120
B	960	1250
C	736	736
D	765	765

Notes:

1) Ensure that the outdoor unit is instead in a dry, well-ventilated place.
2) Ensure that the noise and exhaust ventilation of the outdoor unit do not affect the neighbors of the property owner or the surrounding ventilation.
3) Ensure that the outdoor unit is installed in a well ventilated place as close as possible to the indoor unit.
4) Ensure that the outdoor unit is installed in a cool place without direct sunshine exposure or direct radiation of high pump heat source
5) do not install the outdoor unit in a dirty or severely polluted area to avoid blocking the heat exchanger
6) do not install the outdoor unit in a place with oil pollution or full of harmful gases such as sulfurous gas
Do not install the outdoor unit in a place surrounded by salt air (expect for the models with corrosion-resistant function)

DC Inverter Mini VRF

The DC Inverter Mini VRF Series has developed as a high-efficiency product that will appeal to broader range of users. It is ideal for small offices, villas, apartment and shops.
CDVE launched two models DC inverter mini VRF (10.5kW/14kW) especially for tropical application. It supports piping length up to 100m and longer drop difference up to 30m, max. 8 indoor units can be connected to one outdoor unit, making it perfect for commercial and residential application.

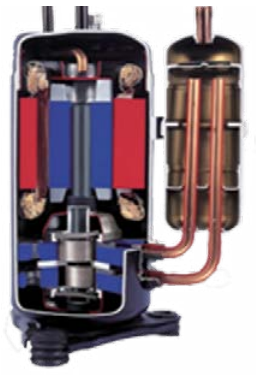
FEATURES

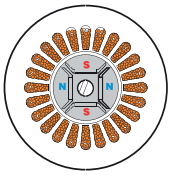
Coolex's continuous technological innovations fully meets current market needs. All of this year's new technologies have been developed to provide the most efficient and convenient air conditioners.

High efficiency full DC inverter compressor

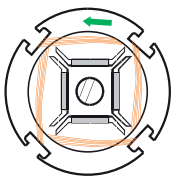
This advanced technology enables the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls.

This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.

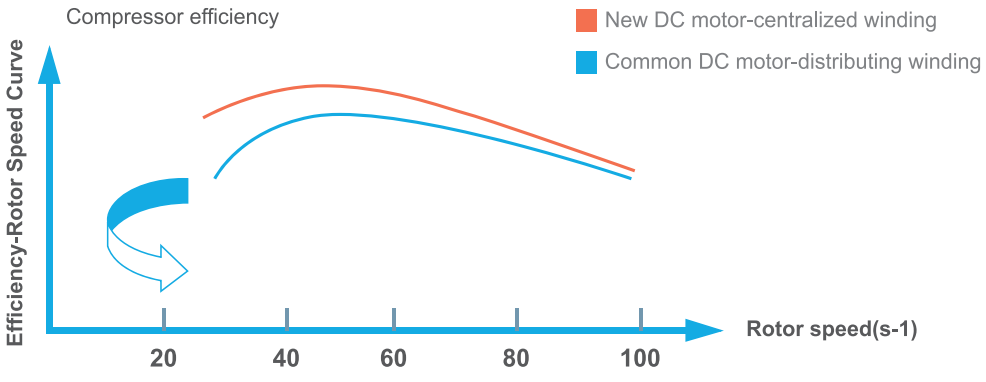




Centralizing winding



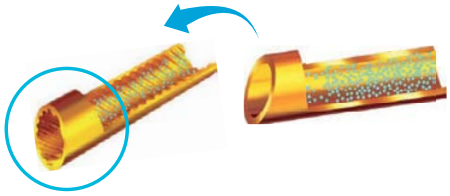
Distributing winding



FEATURES

High performance heat exchanger

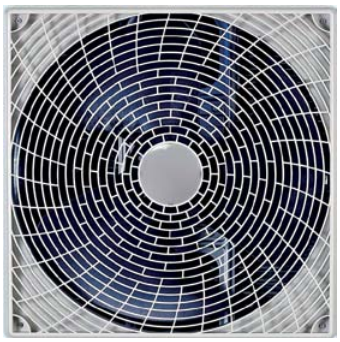
The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.
Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.



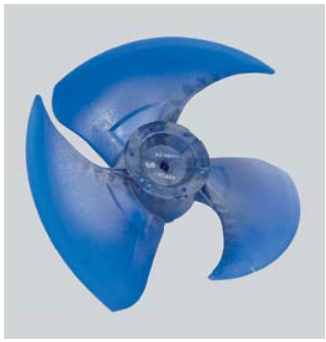
High efficiency inner-threaded pipe, enhance heat transfer.

Low-operating sound design

Optimally design fan shape and new designed discharge air grille and air deflector, making higher air volume and lower operation sound.

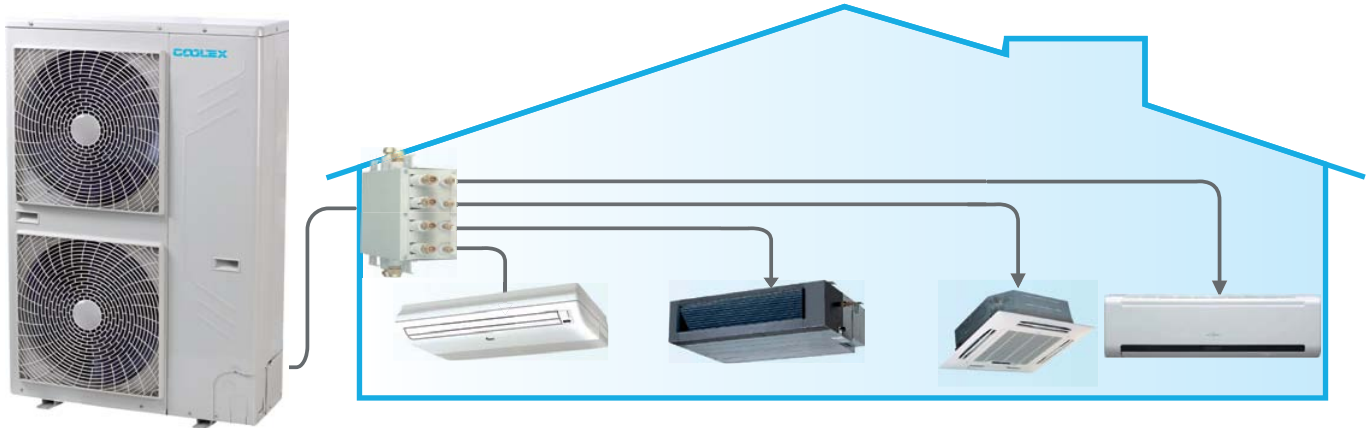


Newly Designed Fan Guard



Powerful Large Propeller

Mini VRF with intelligent control gives you independent zoning control with maximum flexibility.
A single outdoor unit supports up to eight indoor units, freeing up considerable space outside.Use your backyard more wisely with much more space available created by less number of outdoor units.



FEATURES

Auto addressing

The addresses of indoor units can be set automatically by outdoor unit.

Wired controller and wireless controller can enquire and modify the address of each indoor units .

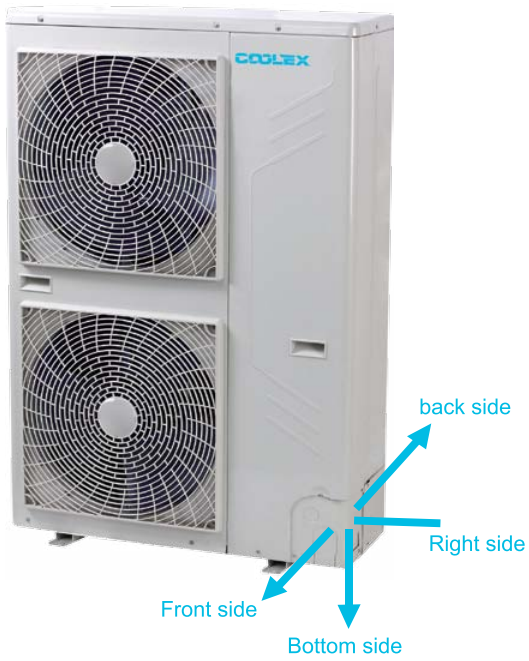
Simple signal line connection

Installation is much easier as the communication wiring between indoor & outdoor units can be shared.

It's easy for the user to retrofit the existing system with a centralized control by simply connecting to the outdoor units.

More convenience in installation

A four-direction space is available for connecting pipes and wiring in various installation scenarios.



Benefits of R410A refrigerant

ozone-friendly R-410A refrigerant to eliminate pollutants and limit the use of materials with high global warming potential (GWP).

R410A delivers multiple benefits

Wide operation temperature range

Up to 54°C in cooling mode and down to -15°C in heating mode.

The operation range of the Mini VRF system works to reduce limitations on installation locations. The wide operation range of the Mini VRF system greatly increases the number of possible installation locations where the system can run stably.

Mini VRF system operates stably at extreme temperatures ranging from minus 15°C to 54°C

FEATURES

Flexible piping design

The Mini VRF provides a max. piping length possibility of 100m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoors unit can be up to 8m. These generous allowances facilitate an extensive array of system designs.

Auto-restart function

Even if an extended power failure occurs, the A/C system automatically restarts with the same settings. A power failure will not cause any settings to be lost, thus eliminating the need for re-programming.

Easy maintenance

Forced cooling button makes outdoor unit run in cooling mode at any condition, so it is very easy for you to charge refrigerant to the system when it need to be done.

The self-diagnosis function detects malfunctions in major locations in the system and displays the type of malfunction and location. This allows service and maintenance to be performed more efficiently.

Space saving design

The Mini VRF units are slimmer and more compact, resulting in significant savings in installation space.

FEATURES

Easy installation

No need special room for the outdoor units. Easy installation: No special area is required for outdoor units. All outdoor units can be transported by elevator, which greatly simplifies installation and reduces time and labor.
The Mini VRF system's indoor and outdoor units are almost as easy to install as residential air conditioning systems, making them ideal for small offices and shops.

Comfortable temperature

The inverter Mini VRF can quickly reach the desired temperature. After reaching the set temperature, it finely adjusts to cope with any changes. This means less temperature fluctuations to achieve maximum comfort in minutes.

More convenient piping connector -branch box

Easier and safer installation thanks to a branch box that simplifies piping work and the adoption of screw connection.
Both left and right pipe flare connectin from outdoor unit to branch box is reserved, which greatly simplifies field installation.
Two sets of pipe size converter are packed with branch box to transfer the pipe size from Ø6.35mm to Ø9.53mm and from Ø12.7mm to Ø15.9mm.

- **Low noise**
  The branch pipe is linear expansion design regulates the flow of refrigerant and reduces the noise. By locating the branch box in the ceiling or outside ,noise generated by the branch box can be kept clear of living spaces, thus maintaining the noise level to a minimum.Two sets of pipe size converter packed with branch box to transfer the pipe size from Ø6.35mm to Ø9.5 and from Ø12.7mm to Ø15.9mm.

- **Brazing-free quick installation**
  All the piping leading to and from the branch box is connected using screw joints, which can be installed quickly and easily.

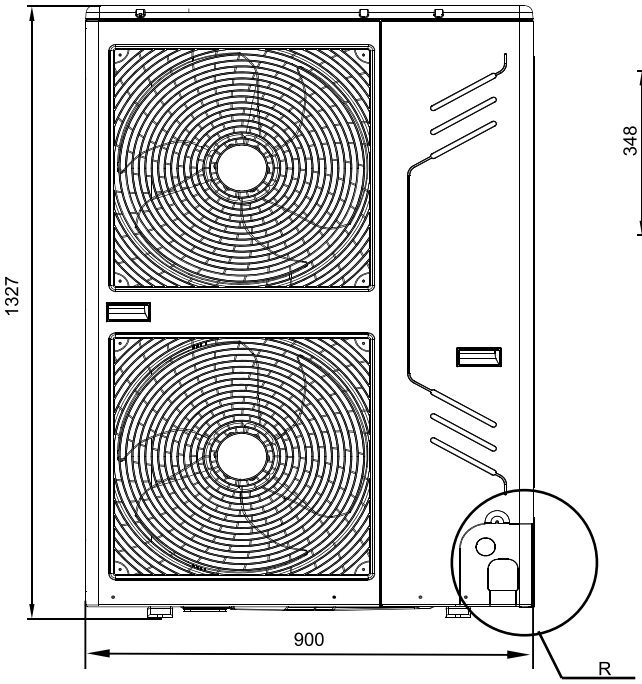
- **Indoor installation**
  The branch box can be installed in the ceiling rather than outside. Removing the side and bottom covers provides easy access for maintaining inner components such as circuit boards.

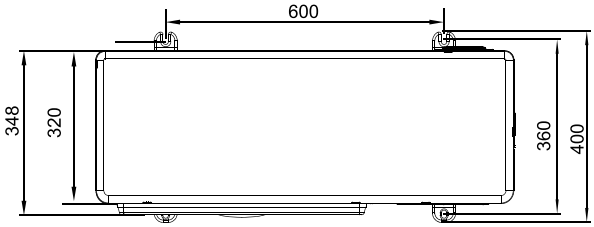
GENERAL DATA-OUTDOOR UNIT

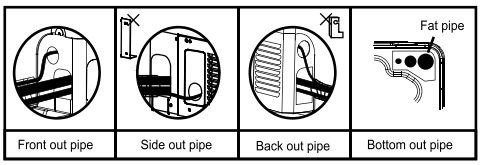
Model			CDVC-V105W/DRN1	CDVC-V140W/DRN1
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Capacity	Cooling*	RT	3.0	4.0
		kW	10.5	14.0
		Btu/h	35,826	47,768
		kcal/h	9,030	12,040
	Cooling**	RT	2.7	3.6
		kW	9.6	12.7
		Btu/h	32,755	43,469
		kcal/h	8,256	10,956
	Heating	RT	3.4	4.5
		kW	12.0	16.0
		Btu/h	40,944	54,592
		kcal/h	10,320	13,760
Power Input	Cooling*	kW	3.07	4.10
	Cooling**	kW	3.35	4.47
	Heating	kW	3.48	4.59
EER*			3.42	3.41
EER**			2.87	2.85
COP			3.45	3.49
Connectable IndoorUnit	Total Capacity	%	45-130	45-130
	Max. Quantity		6	8
Sound Pressure Level		dB(A)	52	52
Pipe Connections	Liquid Pipe	mm(inch)	Φ9.53(3/8)	Φ9.53(3/8)
	Gas Pipe	mm(inch)	Φ15.9(5/8)	Φ15.9(5/8)
Fan	Type		Axial propeller	Axial propeller
	Quantity		2	2
	Air Flow Rate	m3/h	7600	7600
		CFM	4,470	4,470
	Motor Output	W	100×2	100×2
Compressor	Type		Rotary	Rotary
	Oil Type		FV50S	FV50S
	Oil Charge	ml	870+630	1400+250
Refrigerant	Type		R410A	R410A
	Factory Charge	kg(lbs)	3.3(7.3)	3.9(8.6)3.9(8.6)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)		mm	900×1327×320	900×1327×320
		inch	35.4×52.2×12.6	35.4×52.2×12.6
Packing (W×H×D)		mm	1016×1377×435	1016×1377×435
		inch	40×54.2×17.1	40×54.2×17.1
Net Weight		kg(lbs)	99(218)	103(227)
Gross Weight		kg(lbs)	110(242)	113(249)
Operating Temp. Range	Cooling	°C(°F)	-10~54 (14~129)	-10~54 (14~129)
	Heating	°C(°F)	-15~27 (5~80.6)	-15~27 (5~80.6)

Notes: Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.*
*Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.*
Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.
Piping length: Interconnecting piping length 7.5m, level difference of zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588

UNIT DIMENSIONS

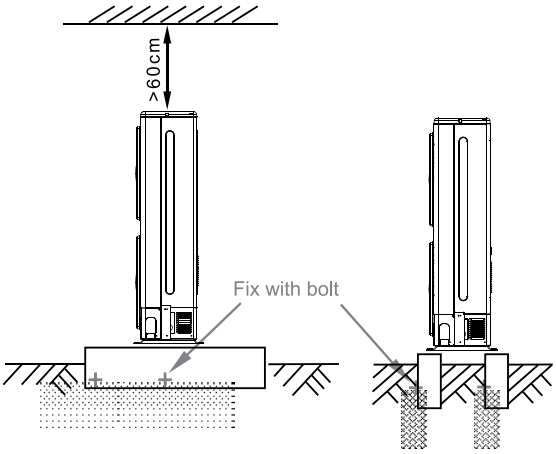




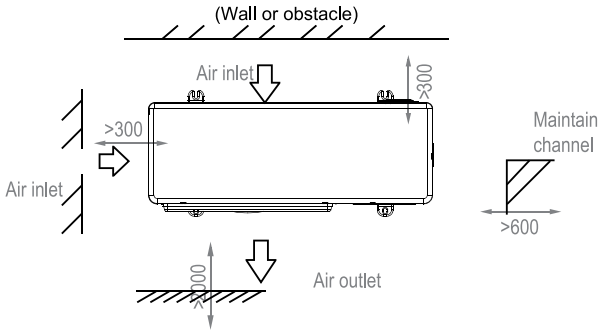


R amplification

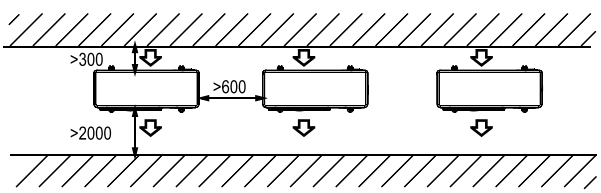
Unit installation

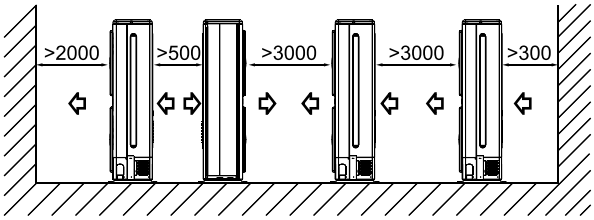


Single Unit installation



Parallel installation





INDOOR UNITS

One-way Cassette
Two-way Cassette
Compact Four-way Cassette
Four-way Cassette
Concealed Duct Unit (A5 Type)
Fresh Air Processing Unit
High Static Pressure Duct
Ceiling & Floor
Floor Standing
Console
Wall mounted

INDOOR UNITS

Type		Model	15	18	22	28	36	45	56	71	80	90	100	112	125	140	160	200	250	280	400	450	560
		kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
One-way Cassette	CDVE-D XX Q1/N1-D			●	●	●	●																
	CDVE-D XX Q1/N1-C							●	●														
Two-way Cassette	CDVE-D XX Q2/N1				●	●	●	●	●	●													
Compact Four-way Cassette	CDVE-D XX Q4/N1-A3		●		●	●	●	●															
Four-way Cassette	CDVE-D XX Q4/N1-D					●	●	●	●	●	●	●	●	●		●							
Low Static Pressure Duct	CDVE-D XX T3/N1-C			●	●	●	●	●	●	●	●												
Concealed Duct Unit(A5 Type)	CDVE-D XX T2/N1-BA5										●	●		●		●							
	CDVE-D XX T2/N1-DA5		●		●	●	●	●	●	●													
High Static Pressure Duct	CDVE-D XX T1/N1-B									●	●	●		●									
																●	●						
																		●	●	●			
																					●	●	●
Ceiling & Floor	CDVE-D XX DL/N1-C						●	●	●	●	●	●		●		●	●						
Wall-mounted	CDVE-D XX G/N1-S CDVE-D XX G/DN1-S		●		●	●	●	●	●														
	CDVE-D XX G/N1YB				●	●	●	●	●														
	CDVE-D XX G-R3/N1Y									●	●	●											
	CDVE-D XX G/N1Y-11D5				●	●	●	●	●	●													
Floor Standing	CDVE-D XX Z/N1-F3B				●	●	●	●	●	●	●												
	CDVE-D XX Z/N1-F4(F5)				●	●	●	●	●	●	●												
Console	CDVE-D XX Z/DN1-B				●	●	●	●															
Fresh Air Processing Unit	CDVE-D XX T1/N1-FA														●	●							
																		●	●	●			

12 types and more than 100 models are available to meet varied customer requirements, 1.5kW model is only available for V4 plus and MINI VRF system.

●: Available for 50&60Hz.

●: Only available for 50Hz.

COOLEX

ONE-WAY CASSETTE

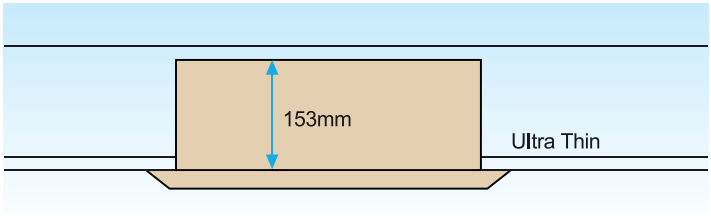
- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- LED Display
- Super High Air Flow
- Built-in Drain Pump

Only 153mm thickness

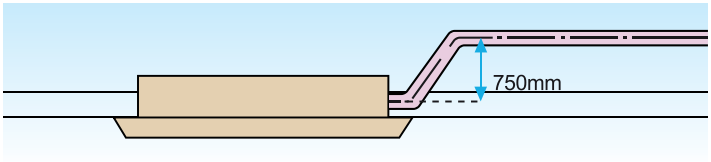
Compact design,ultra slim body with a minimum thickness of 153mm for model 18-36,especially suitable for narrow ceiling , such as in lobbies and small meeting rooms.

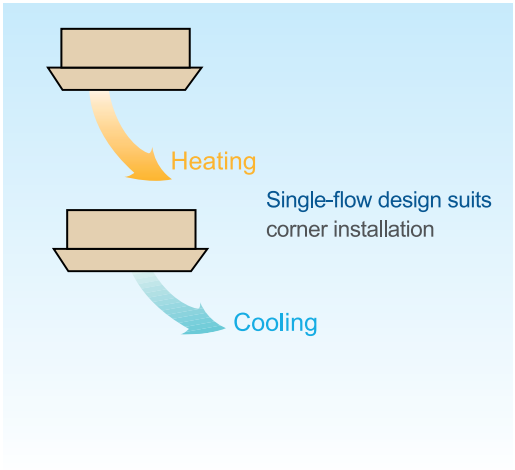
Auto swing

Auto swing mechanism guarantees even airflow distribution and a better room temperature balance.



Standard built-in drain pump with 750mm pump head.

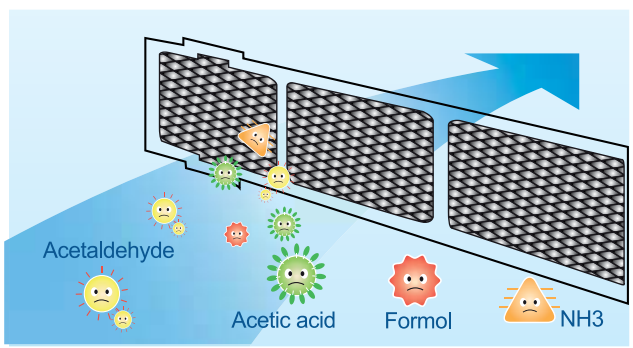




Fresh air, improved air quality

Reserved fresh air intake port for high quality air creates a comfortable and healthy environment.

Special enzyme sterilization and filtering technologies filter bacteria, smog, and pollen. Provide a clean, healthy and natural air supply.



GENERAL DATA

50Hz

Model			CDVE-D18Q1/N1-D	CDVE-D22Q1/N1-D	CDVE-D28Q1/N1-D	CDVE-D36Q1/VN1-D	CDVE-D45Q1/N1-C	CDVE-D56Q1/N1-C
Power supply			220/240V-1Ph-50Hz					
Cooling capacity		kW	1.8	2.2	2.8	3.6	4.5	5.6
		kcal/h	1500	1900	2400	3100	3900	4800
		Btu/h	6100	7500	9600	12300	15400	19100
Heating capacity		kW	2.2	2.6	3.2	4	5	6.3
		kcal/h	1900	2200	2800	3400	4300	5400
		Btu/h	7500	8900	10900	13600	17100	21500
Rated input	Cooling	W	41	41	41	41	80	85
	Heating		41	41	41	41	80	85
Rated current	Cooling	A	0.24	0.24	0.25	0.25	0.37	0.39
	Heating		0.24	0.24	0.25	0.25	0.37	0.39
Airflow rate(H/M/L)		m^3/h	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503	860/810/702
		CFM	308/238/162	308/238/162	337/268/185	337/268/185	414/370/296	506/476/413
Sound pressure level(H/M/L)		dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(W×H×D)	mm	1054×169×425				1147×200×640	
	Gross dim.(W×H×D)		1155×245×490				1380×265×775	
	Net/Gross	kg	12.5/16		13/16.5		31.5/37.2	
Panel	Net dim.(W×H×D)	mm	1180×36.5×465		1180×36.5×465		1425×10×755	
	Gross dim.(W×H×D)		1232×107×517		1232×107×517		1500×110×870	
	Net/Gross	kg	3.5/5.2		3.5/5.2		9/12	
Piping connections	L(flare)	mm	Φ6.35		Φ6.35		Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7		Φ12.7		Φ12.7	Φ15.9
	Drain piping OD	mm	Φ25		Φ25		Φ25	
Standard Controller			Wireless remote controller RM05/BG(T)E-A/E)					

60Hz

Model			CDVE-D18Q1/VN1-D	CDVE-D22Q1/VN1-D	CDVE-D28Q1/VN1-D	CDVE-D36Q1/VN1-D	CDVE-D45Q1/VN1-C	CDVE-D56Q1/VN1-C
Power supply			208/230V-1Ph-60Hz				220/240V-1Ph-60Hz	
Cooling capacity		kW	1.8	2.2	2.8	3.6	4.5	5.6
		kcal/h	1500	1900	2400	3100	3900	4800
		Btu/h	6100	7500	9600	12300	15400	19100
Heating capacity		kW	2.2	2.6	3.2	4	5	6.3
		kcal/h	1900	2200	2800	3400	4300	5400
		Btu/h	7500	8900	10900	13600	17100	21500
Rated input	Cooling	W	41	41	41	41	80	85
	Heating		41	41	41	41	80	85
Rated current	Cooling	A	0.24	0.24	0.25	0.25	0.37	0.39
	Heating		0.24	0.24	0.25	0.25	0.37	0.39
Airflow rate(H/M/L)		m^3/h	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503	860/810/702
		CFM	308/238/162	308/238/162	337/268/185	337/268/185	414/370/296	506/476/413
Sound pressure level(H/M/L)		dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(W×H×D)	in.(mm)	41-1/2×6-21/32×16-47/64(1054×169×425)				45-5/32×7-7/8×25-13/64(1147×200×640)	
	Gross dim.(W×H×D)		45-15/32×9-41/64×19-19/64(1155×245×490)				54-21/64×10-7/16×30-33/64(1380×265×775)	
	Net/Gross	lbs.(kg)	27.8/35.3(12.5/16)		28.8/36.4(13/16.5)		(69.5/82.1)31.5/37.2	
Panel	Net dim.(W×H×D)	in.(mm)	46-29/64×1-7/16×18-5/16(1180×36.5×465)		46-29/64×1-7/16×18-5/16(1180×36.5×465)		56-7/64×25/64×29-23/32(1425×10×755)	
	Gross dim.(W×H×D)		48-1/2×4-7/32×20-23/64(1232×107×517)		48-1/2×4-7/32×20-23/64(1232×107×517)		59-1/16×4-21/64×34-1/4(1500×110×870)	
	Net/Gross	lbs.(kg)	7.7/11.5(3.5/5.2)		7.7/11.5(3.5/5.2)		19.6/26.5(9/12)	
Piping connections	L(flare)	in.(mm)	1/4 (Φ6.35)		1/4 (Φ6.35)		1/4(Φ6.35)	3/8(Φ9.53)
	G(flare)	in.(mm)	1/2(Φ12.7)		1/2(Φ12.7)		1/2(Φ12.7)	5/8(Φ15.9)
	Drain piping OD	in.(mm)	63/64(Φ25)		63/64(Φ25)		63/64(Φ25)	
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)					

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit

COOLEX

TWO-WAY CASSETTE

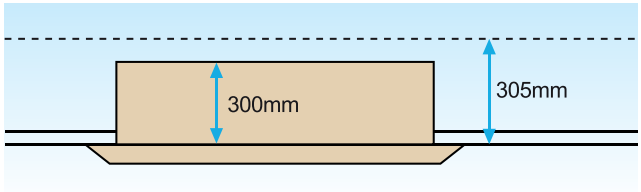
- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- LED Display
- Super High Air Flow
- Built-in Drain Pump

Quiet operation

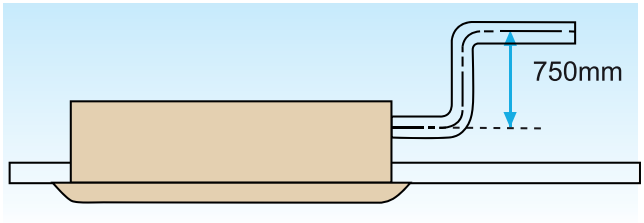
Optimized airflow duct with low resistance greatly reduces noise, minimum down to 24dB(A).

Stylish design and slim body

Thanks to the stylish appearance and slim body, the unit suits any room's decor and ambience. At only 300mm high, the unit requires only a small suspended ceiling space. Installation has no height limitations, which makes overall design features much more flexible.



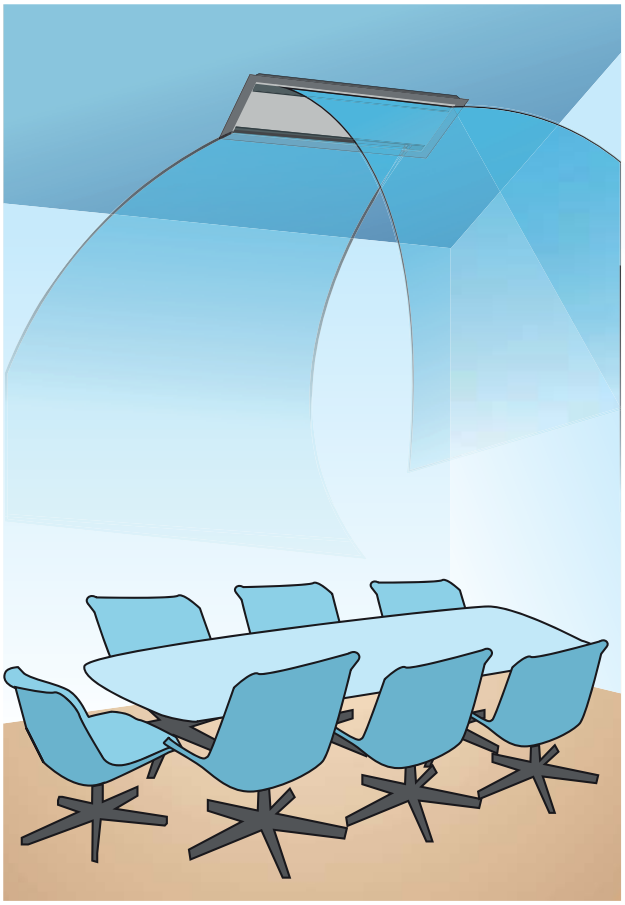
Standard built-in drain pump with 750mm pump head (higher pump head can be customized).



Flat-type suction grille design greatly simplifies maintenance work.

High airflow

High airflow for high ceiling application guarantees comfort in large space. It makes every person in the room get even distribution of airflow and temperature.



GENERAL DATA

50Hz

Model			CDVE-D22Q2/N1	CDVE-D28Q2/N1	CDVE-D36Q2/N1	CDVE-D45Q2/N1	CDVE-D56Q2/N1	CDVE-D71Q2/N1
Power supply			220/240V-1Ph-50Hz					
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
Heating capacity		kW	2.6	3.2	4.0	5.0	6.3	8.0
		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,900	10,900	13,600	17,100	21,500	27,300
Power input	Cooling	W	57	57	60	92	108	154
	Heating		57	57	60	92	108	154
Rated current	Cooling	A	0.35	0.45	0.45	0.55	0.55	0.75
	Heating		0.35	0.45	0.45	0.55	0.55	0.75
Airflow rate(H/M/L)		m^3/h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1,200/1,000/770
		CFM	385/312/241	385/312/241	427/348/270	500/394/324	577/471/394	706/589/453
Sound pressure level(H/M/L)		dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Refrigerant		Type	R410A					
		Control method	EXV					
Body	Net dim.(W×H×D)	mm	1,172×299×591	1,172×299×591	1,172×299×591	1,172×299×591	1,172×299×591	1,172×299×591
	Gross dim.(W×H×D)		1,355×400×675	1,355×400×675	1,355×400×675	1,355×400×675	1,355×400×675	1,355×400×675
	Net/Gross	kg	34/42.5	34/42.5	34/42.5	36.5/45	36.5/45	36.5/45
Panel	Net dim.(W×H×D)	mm	1,430×53×680	1,430×53×680	1,430×53×680	1,430×53×680	1,430×53×680	1,430×53×680
	Gross dim.(W×H×D)		1,525×130×765	1,525×130×765	1,525×130×765	1,525×130×765	1,525×130×765	1,525×130×765
	Net/Gross	kg	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15
Piping connections	L(flare)	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)					

60Hz

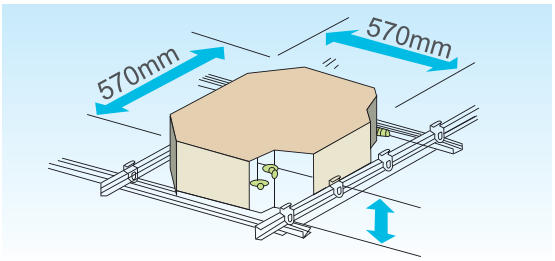
Model			CDVE-D22Q2/VN1	CDVE-D28Q2/VN1	CDVE-D36Q2/VN1	CDVE-D45Q2/VN1	CDVE-D56Q2/VN1	CDVE-D71Q2/VN1
Power supply			208/230V-1Ph-60Hz					
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9600	12,300	15,400	19,100	24,200
Heating capacity		kW	2.6	3.2	4	5	6.3	8
		kcal/h	2200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,900	10,900	13,600	17,100	21,500	27,300
power input	Cooling	W	78	78	83	115	133	205
	Heating		78	78	83	115	133	205
Rated current	Cooling	A	0.35	0.45	0.45	0.55	0.55	0.75
	Heating		0.35	0.45	0.45	0.55	0.55	0.75
Airflow rate(H/M/L)		m^3/h	674/509/381	674/509/381	740/577/435	878/689/561	941/776/654	1,236/1,110/864
		CFM	397/300/224	397/300/224	436/340/256	517/406/330	554/457/385	727/653/509
Sound pressure level(H/M/L)		dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Refrigerant		Type	R410A					
		Control method	EXV					
Body	Net dim.(W×H×D)	in.(mm)	46-9/32×11-49/64×23-17/64(1172×299×591)					
	Gross dim.(W×H×D)		53-11/32×15-3/4×26-37/64(1355×400×675)					
	Net/Gross	lbs.(kg)	75/94(34/42.5)	75/94(34/42.5)	75/94(34/42.5)	80.5/99(36.5/45)	80.5/99(36.5/45)	80.5/99(36.5/45)
Panel	Net dim.(W×H×D)	in.(mm)	56-19/64×2-3/32×26-49/64(1430×53×680)					
	Gross dim.(W×H×D)		60-3/64×5-1/8×30-1/8(1525×130×765)					
	Net/Gross	lbs.(kg)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)
Piping connections	L(flare)	in.(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.53)	Φ3/8(9.53)
	G(flare)	in.(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Drain piping	in.(mm)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)					

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit

COMPACT FOUR-WAY CASSETTE

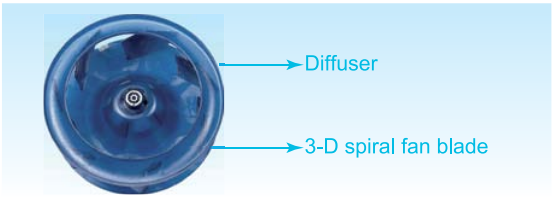
- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Built-in Drain Pump
- LED Display
- Super High Air Flow

Compact design, easy installation and maintenance



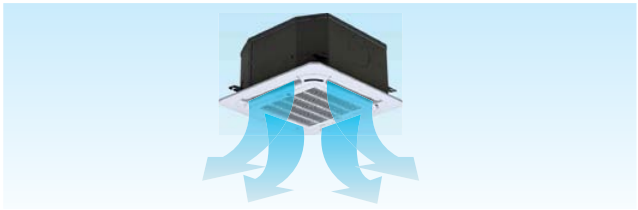
Extremely compact casing suits any room's decor and requires little space for installation on a low ceiling. Due to the compact body and light weight, all models can be installed without a hoist.

Quiet operation gentle air supply



Streamline plate ensures quiet operation
Advanced 3-D spiral fan design reduces air resistance and operation noise.

Four way uniform airflow

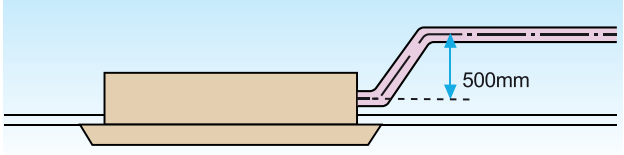


Four air discharge ports provide strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature. High airflow mode can maximize the conditioning effect in rooms that are over 3m high.

360°Airflow outlet

360° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature.

Lift pump



Drain pump with a 500mm pump head is fitted as standard; maximum 600mm pump head is available.

GENERAL DATA

50Hz

Model			CDVE-D15Q4/N1-A3	CDVE-D22Q4/N1-A3	CDVE-D28Q4/N1-A3	CDVE-D36Q4/N1-A3	CDVE-D45Q4/N1-A3
Power supply			220/240V-1Ph-50Hz				
Cooling capacity		kW	1.5	2.2	2.8	3.6	4.5
		kcal/h	1300	1900	2400	3100	3900
		Btu/h	5100	7500	9600	12300	15400
Heating capacity		kW	1.7	2.4	3.2	4	5
		kcal/h	1500	2100	2700	3400	4300
		Btu/h	5800	8200	10900	13600	17100
Rated input	Cooling	W	36	50	50	56	56
	Heating		36	50	50	56	56
Rated current	Cooling	A	0.22	0.22	0.22	0.25	0.25
	Heating		0.22	0.22	0.22	0.25	0.25
Airflow rate(SH/H/M/L)		m^3/h	501/435/283/208	522/414/313/238	522/414/313/238	610/521/409/314	610/521/409/314
		CFM	295/256/167/98	307/244/184/140	307/244/184/140	359/307/241/185	359/307/241/185
Sound pressure level(H/M/L)		dB(A)	34.9/32.5/22.5	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8	41.5/35.6/28.8
Refrigerant		Type	R410A				
		Control method	EXV				
indoor unit	Net dim.(W×H×D)	mm	570x260x570	570x260x570	570x260x570	570x260x570	570x260x570
	Gross dim.(W×H×D)		675x285x675	675x285x675	675x285x675	675x285x675	675x285x675
	Net/Gross	kg	16/19.5	16/20	16/20	18/22	18/22
Panel	Net dim.(W×H×D)	mm	647x50x647	647x50x647	647x50x647	647x50x647	647x50x647
	Gross dim.(W×H×D)		715x123x715	715x123x715	715x123x715	715x123x715	715x123x715
	Net/Gross	kg	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Drain piping	mm	ODΦ25	ODΦ25	ODΦ25	ODΦ25	ODΦ25
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

60Hz

Model			CDVE-D22Q4/VN1-A3	CDVE-D28Q4/VN1-A3	CDVE-D36Q4/VN1-A3	CDVE-D45Q4/VN1-A3
Power supply			208/230V-1Ph-60Hz			
Cooling capacity		kW	2.2	2.8	3.6	4.5
		kcal/h	1,900	2,400	3,100	3,900
		Btu/h	7,500	9,600	12,300	15,400
Heating capacity		kW	2.4	3.2	4	5
		kcal/h	2,100	2,800	3,400	4,300
		Btu/h	8,200	10,900	13,600	17,100
power input	Cooling	W	51	52	58	58
	Heating		43	44	50	51
Rated current	Cooling	A	0.175	0.175	0.21	0.21
	Heating		0.175	0.175	0.21	0.21
Airflow rate(H/M/L)		m^3/h	532/397/292/215	539/408/310/231	632/496/359/263	632/496/359/263
		CFM	313/234/172/127	317/240/182/136	372/292/211/155	372/292/211/155
Sound pressure level(H/M/L)		dB(A)	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8	41.5/35.6/28.8
Refrigerant		Type	R410A			
		Control method	EXV			
Body	Net dim.(W×H×D)	in.(mm)	22-7/16×10-15/64×22-7/16(570×260×570)			
	Gross dim.(W×H×D)		26-9/16×11-7/32×26-9/16(675×285×675)			
	Net/Gross	lbs.(kg)	35.3/44.1/(16/20)	35.3/44.1/(16/20)	39.7/48.5(18/22)	39.7/48.5(18/22)
Panel	Net dim.(W×H×D)	in.(mm)	25-15/32x1-31/32x25-15/32(647x50x647)			
	Gross dim.(W×H×D)		28-5/32x4-27/32x28-5/32(715x123x715)			
	Net/Gross	lbs.(kg)	6.6/11(3/5)	6.6/11(3/5)	6.6/11(3/5)	6.6/11(3/5)
Piping connections	L(flare)	in.(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
	G(flare)	in.(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Drain piping	in.(mm)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)			

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit

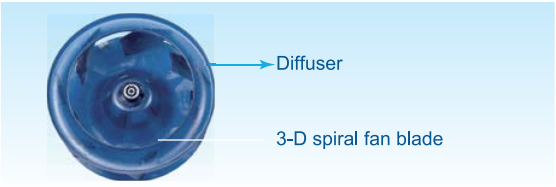
COOLEX

FOUR-WAY CASSETTE

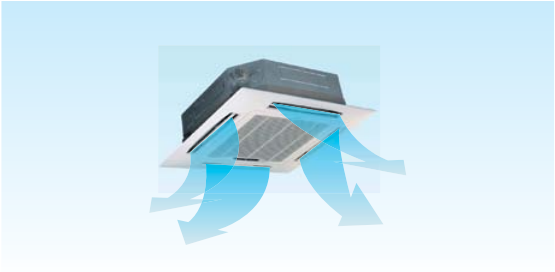
- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Built-in Drain Pump
- LED Display
- Super High Air Flow

Quiet operation, gentle air supply

- Streamline plate ensures quiet operation.
- Advanced 3-D spiral fan design reduces air resistance and operation noise.



Four-stage fan speed



Easy troubleshooting

By adding digital tube on the display board, Error Codes can be displayed directly for troubleshooting.

Four-way uniform air flow

Four air discharge ports provide strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature. High airflow mode can maximize the conditioning effect in rooms that are over 3m high.

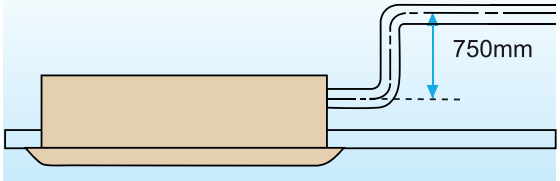
360°Airflow outlet

360° air outlet provides strong air flow circulation to cool or heat every corner of a

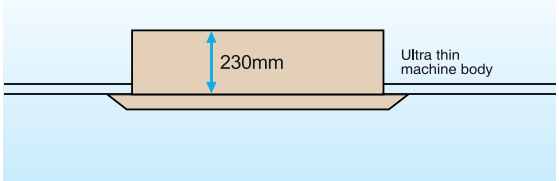
Reserved multi-function ports

High lift pump

Drain pump can take condenser water up to 750mm, which simplifies installation of the drain piping system.



Ultra-thin machine body (minimum height 230mm) simplifies installation and maintenance.



GENERAL DATA

50Hz

Model			CDVE-D28Q4/N1-D	CDVE-D36Q4/N1-D	CDVE-D45Q4/N1-D	CDVE-D56Q4/N1-D	CDVE-D71Q4/N1-D
Power supply			220/240V-1Ph-50Hz				
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1
		kcal/h	2,400	3,100	3,900	4,800	6,100
		Btu/h	9,600	12,300	15,400	19,100	24,200
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0
		kcal/h	2,800	3,400	4,300	5,400	6,900
		Btu/h	10,900	13,600	17,100	21,500	27,300
Rated input	Cooling	W	80	80	75	75	82
	Heating		80	80	75	75	82
Rated current	Cooling	A	0.4	0.4	0.4	0.4	0.5
	Heating		0.4	0.4	0.4	0.4	0.5
Airflow rate((SH/H/M/L))		m^3/h	1,187/847/766/640	1,187/847/766/640	1,121/864/755/658	1,121/864/755/658	1,385/1,157/955/749
		CFM	699/498/450/376	699/498/450/376	660/508/444/387	660/508/444/387	815/680/562/440
Sound pressure level(H/M/L)		dB(A)	42/38/35	42/38/35	42/38/35	42/38/35	45/42/39
Refrigerant		Type	R410A				
		Control method	EXV				
Indoor Unit	Net dim.(W×H×D)	mm	904×230×840	904×230×840	904×230×840	904×230×840	904×230×840
	Gross dim.(W×H×D)		955×260×955	955×260×955	955×260×955	955×260×955	955×260×955
	Net/Gross	kg	24/28	24/28	26/30	26/30	26/30
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Gross dim.(W×H×D)		1,000×60×1,000	1,000×60×1,000	1,000×60×1,000	1,000×60×1,000	1,000×60×1,000
	Net/Gross	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Model			CDVE-D80Q4/N1-D	CDVE-D90Q4/N1-D	CDVE-D100Q4/N1-D	CDVE-D112Q4/N1-D	CDVE-D140Q4/N1-D
Power supply			220/240V-1Ph-50Hz				
Cooling capacity		kW	8.0	9.0	10.0	11.2	14.0
		kcal/h	6,900	7,700	8,600	9,600	12,000
		Btu/h	27,300	30,700	34,100	38,200	47,800
Heating capacity		kW	9.0	10.0	11.1	12.5	15.0
		kcal/h	7,700	8,600	9,500	10,800	12,900
		Btu/h	30,700	34,100	37,900	42,700	51,200
Power input	Cooling	W	97	160	160	160	170
	Heating		97	160	160	160	170
Rated current	Cooling	A	0.5	0.7	0.7	0.7	0.8
	Heating		0.5	0.7	0.7	0.7	0.8
Airflow rate (SH/H/M/L)		m^3/h	1,431/1,236/973/729	1,758/1,540/1,300/1,120	1,758/1,540/1,300/1,120	1,758/1,540/1,300/1,120	1,843/1,800/1,500/1,280
		CFM	842/727/572/429	1,035/906/765/659	1,035/906/765/659	1,035/906/765/659	1,085/1,059/883/753
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/45/43	48/45/43	48/45/43	50/47/44
Refrigerant		Type	R410A				
		Control method	EXV				
Indoor Unit	Net dim.(W×H×D)	mm	904×230×840	904×300×840	904×300×840	904×300×840	904×300×840
	Gross dim.(W×H×D)		955×260×955	955×330×955	955×330×955	955×330×955	955×330×955
	Net/Gross	kg	26/30	32/37	32/37	32/37	32/37
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Gross dim.(W×H×D)		1,000×60×1,000	1,000×60×1,000	1,000×60×1,000	1,000×60×1,000	1,000×60×1,000
	Net/Gross	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	L(flare)	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Drain piping	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit

GENERAL DATA

60Hz

Model			CDVE-D28Q4/N1-D	CDVE-D36Q4/N1-D	CDVE-D45Q4/N1-D	CDVE-D56Q4/N1-D	CDVE-D71Q4/N1-D
Power supply			220/240V-1Ph-60Hz				
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1
		kcal/h	2,400	3,100	3,900	4,800	6,100
		Btu/h	9,600	12,300	15,400	19,100	24,200
Heating capacity		kW	3.2	4	5	6.3	8
		kcal/h	2,800	3,400	4,300	5,400	6,900
		Btu/h	10,900	13,600	17,100	21,500	27,300
Power input	Cooling	W	90	90	90	90	115
	Heating		90	90	90	90	115
Rated current	Cooling	A	0.4	0.4	0.4	0.4	0.5
	Heating		0.4	0.4	0.4	0.4	0.5
Airflow rate(SH/H/M/L)		m^3/h	1,155/847/766/640	1,155/847/766/640	1,207/864/755/658	1,207/864/755/658	1,327/1,157/955/749
		CFM	680/499/451/377	680/499/451/377	710/509/444/387	710/509/444/387	781/681/562/441
Sound pressure level(H/M/L)		dB(A)	42/38/35	42/38/35	42/38/35	42/38/35	45/42/39
Refrigerant		Type	R410A				
		Control method	EXV				
Body	Net dim.(W×H×D)	in.(mm)	35-19/32×9-1/16×33-5/64(904×230×840)				
	Gross dim.(W×H×D)		37-19/32x10-15/64x37-19/32(955x260x955)				
	Net/Gross	lbs.(kg)	53 /61.7(24/28)	53 /61.7(24/28)	57.3 /66.2(26/30)	57.3 /66.2(26/30)	57.3 /66.2(26/30)
Panel	Net dim.(W×H×D)	in.(mm)	37-13/32×2-9/64×37-13/32(950×54.5×950)				
	Gross dim.(W×H×D)		39-3/8x2-23/64x39-3/8 (1000x60x1000)				
	Net/Gross	lbs.(kg)	11.0/19.9(5/9)	11.0/19.9(5/9)	11.0/19.9(5/9)	11.0/19.9(5/9)	11.0/19.9(5/9)
Piping connections	L(flare)	in.(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.53)	Φ3/8(9.53)
	G(flare)	in.(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Drain piping	in.(mm)	OD 1-17/64(φ32)				
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Model			CDVE-D80Q4/N1-D	CDVE-D90Q4/N1-D	CDVE-D100Q4/N1-D	CDVE-D112Q4/N1-D	CDVE-D140Q4/N1-D
Power supply			220/240V-1Ph-60Hz				
Cooling capacity		kW	8	9	10	11.2	14
		kcal/h	6,900	7,700	8,600	9,600	12,000
		Btu/h	27,300	30,700	34,100	38,200	47,800
Heating capacity		kW	9	10	11.1	12.5	15
		kcal/h	7,700	8,600	9,500	10,800	12,900
		Btu/h	30,700	34,100	37,900	42,700	51,200
Power input	Cooling	W	115	160	160	160	180
	Heating		115	160	160	160	180
Rated current	Cooling	A	0.5	0.7	0.7	0.7	0.8
	Heating		0.5	0.7	0.7	0.7	0.8
Airflow rate(SH/H/M/L)		m^3/h	1,357/1,236/973/729	1,795/1,590/1,300/1,090	1,795/1,590/1,300/1,090	1,795/1,590/1,300/1,090	1,881/1,678/1,358/1,115
		CFM	799/727/573/429	1,057/936/765/642	1,057/936/765/642	1,057/936/765/642	1,107/988/799/656
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/45/43	48/45/43	48/45/43	50/47/44
Refrigerant		Type	R410A				
		Control method	EXV				
Body	Net dim.(W×H×D)	in.(mm)	35-19/32×9-1/16×33-5/64 (904×230×840)	35-19/32×11-13/16×33-5/64(904×300×840)			
	Gross dim.(W×H×D)		37-19/32x10-15/64x37-19/32(955x260x955)	37-19/32x11-13/16x37-19/32(955x330x955)			
	Net/Gross	lbs.(kg)	57.3/66(26/30)	70.5/81.6(32/37)	70.5/81.6(32/37)	70.5/81.6(32/37)	70.5/81.6(32/37)
Panel	Net dim.(W×H×D)	in.(mm)	37-13/32×2-9/64×37-13/32(950×54.5×950)				
	Gross dim.(W×H×D)		39-3/8x2-23/64x39-3/8 (1000x60x1000)				
	Net/Gross	lbs.(kg)	11.0/17.6(5/8)	11.0/17.6(5/8)	11.0/17.6(5/8)	11.0/17.6(5/8)	11.0/17.6(5/8)
Piping connections	L(flare)	in.(mm)	Φ3/8(9.53)	Φ3/8(9.53)	Φ3/8(9.53)	Φ3/8(9.53)	Φ3/8(9.53)
	G(flare)	in.(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Drain piping	in.(mm)	OD 1-17/64(φ32)				
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit

COOLEX

LOW STATIC PRESSURE DUCT

- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Wired Controller
- Super High Air Flow

Low sound level

Utilizes the centrifugal type blower, provides a minimum noise level of 24dB (A), an excellent choice for hotels and other sound-sensitive places.

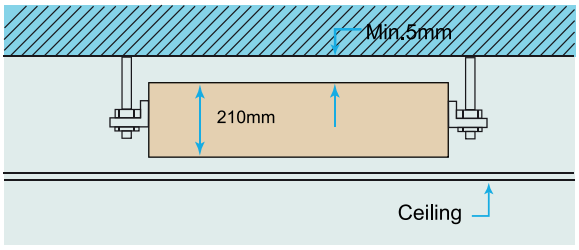
V shape evaporator-- good for heat exchanging

V shape evaporator design enhances heat exchanging efficiency about 22%.

Convenient for installation and maintenance

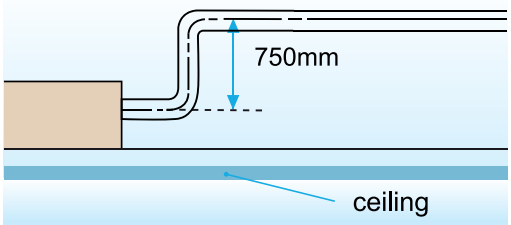
The EXV is fixed inside the indoor unit.

Compact design



Uniform 210mm in height, compact design for easy locate where space ceiling is limited,
The whole body adopts fireproof plastic material, the minimum weight is 14kg.

Options



A drain pump with 750mm pumphead is an optional accessory.

GENERAL DATA

50Hz

Model			CDVE-D18T3/N1-C	CDVE-D22T3/N1-C	CDVE-D28T3/N1-C	CDVE-D36T3/N1-C	CDVE-D45T3/N1-C	CDVE-D56T3/N1-C	CDVE-D71T3/N1-C
Power supply			220/240V-1Ph-50Hz						
Cooling capacity		kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		kcal/h	1500	1900	2400	3100	3900	4800	6100
		Btu/h	6100	7500	9600	12300	15400	19100	24200
Heating capacity		kW	2.2	2.6	3.2	4	5	6.3	8
		kcal/h	1900	2200	2800	3400	3900	5400	6900
		Btu/h	7500	8900	10900	13600	17100	21500	27300
Rated input	Cooling	W	59	59	59	65	105	105	130
	Heating		59	59	59	65	105	105	130
Rated current	Cooling	A	0.31	0.31	0.31	0.36	0.36	0.36	0.5
	Heating		0.31	0.31	0.31	0.36	0.36	0.36	0.5
Airflow rate(SH/H/M/L)		m³/h	606(30pa)/578/512/409			646(30pa)/617/551/441	803(pa)/824/690/609		1207(30pa)/1060/970/811
		CFM	357/340/301/241			380/363/324/260	473/485/406/358		710/624/571/477
External Static Pressure		Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)
Sound pressure level(H/M/L)		dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30
Refrigerant		Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
		Control method	EXV	EXV	EXV	EXV	EXV	EXV	EXV
Indoor Unit	Net dim.(W×H×D)	mm	740×210×470	740×210×470	740×210×470	740×210×470	960×210×470	960×210×470	1180×210×470
	Gross dim.(W×H×D)	mm	910×230×510	910×230×510	910×230×510	910×230×510	1130×230×510	1130×230×510	1350×230×510
	Net/Gross	kg	14/17.5	14/17.5	14/17.5	14/17.5	17.5/22	17.5/22	21/26.5
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)						

60Hz

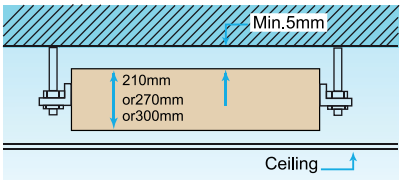
Model			CDVE-D18T3/VN1-C	CDVE-D22T3/VN1-C	CDVE-D28T3/VN1-C	CDVE-D36T3/VN1-C	CDVE-D45T3/VN1-C	CDVE-D56T3/VN1-C	CDVE-D71T3/VN1-C
Power supply			208/230V-1Ph-60Hz						
Cooling capacity		kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		kcal/h	1500	1900	2400	3100	3900	4800	6100
		Btu/h	6100	7500	9600	12300	15400	19100	24200
Heating capacity		kW	2.2	2.6	3.2	4	5	6.3	8
		kcal/h	1900	2200	2800	3400	3900	5400	6900
		Btu/h	7500	8900	10900	13600	17100	21500	27300
Rated input	Cooling	W	59	59	59	65	105	105	130
	Heating		59	59	59	65	105	105	130
Rated current	Cooling	A	0.26	0.26	0.26	0.3	0.5	0.5	0.6
	Heating		0.26	0.26	0.26	0.3	0.5	0.5	0.6
Airflow rate(SH/H/M/L)		m³/h	606(30pa)/578/512/409	606(30pa)/578/512/409	606(30pa)/578/512/409	646(30pa)/617/551/441	803(30pa)/824/690/609	803(30pa)/824/690/609	1207(30pa)/1060/970/811
		CFM	357/340/301/241	357/340/301/241	357/340/301/241	380/363/324/260	473/485/406/358	473/485/406/358	710/624/571/477
External Static Pressure		Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)
Sound pressure level(H/M/L)		dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30
Refrigerant		Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
		Control method	EXV	EXV	EXV	EXV	EXV	EXV	EXV
Indoor Unit	Net dim.(W×H×D)	in.(mm)	29-9/64×8-17/64×18-1/2(740×210×470)				37-51/64×8-17/64×18-1/2 (960×210×470)		46-29/64×8-17/64×18-1/2 (1180×210×470)
	Gross dim.(W×H×D)	in.(mm)	35-53/64×9-1/16×20-5/64(910×230×510)				44-31/64×9-1/16×20-5/64(1130×230×510)		53-5/32×9-1/16×20-5/64 (1350×230×510)
	Net/Gross	lbs.(kg)	32.0/39.7(14.5/18)				39.7/49.6(18/22.5)	39.7/49.6(18/22.5)	49.6/58.5(22.5/26.5)
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	3/8(Φ9.53)	3/8(Φ9.53)
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	5/8(Φ15.9)	5/8(Φ15.9)
	Drain piping	in.(mm)	OD 63/64(Φ25)						
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)						

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit
** External static pressure is based on high speed indoor air flow.*

CONCEALED DUCT UNIT (A5 TYPE)

- Auto Restart
- Fresh Air
- Follow Me
- Anti-Cold Air Function
- Built-in Drain Pump
- Wired Controller
- Auto Addressing
- Cleanable Panel
- Connectable To Duct
- Super High Air Flow

Compact size



Only 210mm (15~71 models) or 270mm (80 to 112 models) or 300mm (140 model) in height.

External static pressure

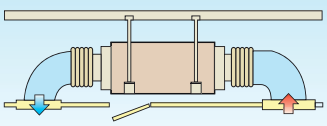
Four speed fan motor (Super high speed is optional)

Change the wiring connection from 'SH' to 'H' to change the ESP.

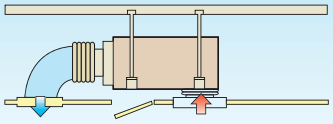
Convenient installation

The EXV is fixed inside of the indoor unit.
Standard filter is housed in an aluminum frame, which is removable from the bottom in the downward direction.
Suction chamber is included as standard equipment.
Fresh air hole, air inlet/outlet flange are standard for easy duct connection.
A rear air inlet is standard and an inlet at the bottom is optional. Both use the same connectable duct.

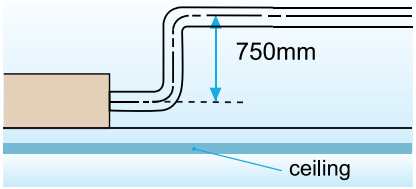
Air intake from back



Air intake from below



drain pump as standard



Flexible control and easy maintenance

Standard wired remote controller KJR-29B1/BK-E.
The electrical control box can be removed 1m away from the unit for easy maintenance access. Customers need to request this service in advance for it is done at Midea CAC factory.
Standard functional ports are included such as Remote On/Off Dry contact switch and Alarm signal output (220V).

GENERAL DATA

50Hz

Model			CDVE-D15T2 /N1X-DA5	CDVE-D22T2 /N1X-DA5	CDVE-D28T2 /N1X-DA5	CDVE-D36T2 /N1X-DA5	CDVE-D45T2 /N1X-DA5	CDVE-D56T2 /N1X-DA5
Power supply			220-240V~1Ph~50Hz					
Cooling capacity		kW	1.5	2.2	2.8	3.6	4.5	5.6
		kcal/h	1290	1900	2400	3100	3900	4800
		Btu/h	5100	7500	9600	12300	15400	19100
Heating capacity		kW	1.7	2.6	3.2	4	5	6.3
		kcal/h	1500	2200	2800	3400	4300	5400
		Btu/h	5800	8900	10900	13600	17100	21500
Rated input	Cooling	W	56	57	57	61	98	103
	Heating		56	57	57	61	98	103
Rated current	Cooling	A	0.31	0.31	0.31	0.33	0.36	0.36
	Heating		0.31	0.31	0.31	0.33	0.36	0.36
Airflow rate(SH/H/M/L)		m^3/h	588(30pa)/538/456/375			614(30pa)/597/514/429	763(30pa)/811/684/575	763(30pa)/811/684/575
		CFM	346/317/268/221			361/351/303/253	449/477/403/338	449/477/403/338
External Static Pressure		Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)
Sound pressure level(H/M/L)		dB(A)	35.8/34.6/31.4	36/35/32	37/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(W×H×D)	mm	740x210x500	740x210x500	740x210x500	740x210x500	960x210x500	960x210x500
	Gross dim.(W×H×D)	mm	870×285×525	870×285×525	870×285×525	870×285×525	1,115x285x525	1,115x285x525
	Net/Gross	kg	17.5/20.5	17.5/20	17.5/20	17.5/20	22.5/26	22.5/26
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping OD	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Model			CDVE-D71T2/N1-DA5	CDVE-D80T2/N1-BA5	CDVE-D90T2/N1-BA5	CDVE-D112T2/N1-BA5	CDVE-D140T2/N1-BA5
Power supply			220-240V~1Ph~50Hz				
Cooling capacity		kW	7.1	8	9	11.2	14
		kcal/h	6,100	6,900	7,700	9,600	12,000
		Btu/h	24,200	27,300	30,700	38,200	47,800
Heating capacity		kW	8	9	10	12.5	15.5
		kcal/h	6,900	7,700	8,600	10,800	13,300
		Btu/h	27,300	30,700	34,100	42,700	52,900
Rated input	Cooling	W	105	198	200	313	274
	Heating		0.47	1.0	1.0	1.8	1.55
Rated current	Cooling	A	105	198	200	313	274
	Heating		0.47	1.0	1.0	1.8	1.55
Airflow rate(SH/H/M/L)		m^3/h	1127(30pa)/1029/934/781	1388(50pa)/1345/1165/1013	1388(50pa)/1345/1165/1013	1851(80pa)/1800/1556/1400	1745(100pa)/1905/1636/1400
		CFM	663/606/550/460	817/792/686/596	817/792/686/596	1,089/1,059/916/824	1,027/1121/963/824
External Static Pressure		Pa	10(10~30)	20(10~50)	20(10~50)	40(10~80)	40(10~100)
Sound pressure level(H/M/L)		dB(A)	41.4/39/35	45.4/39.8/37	45.4/39.8/37	48.0 /41.9/38	47.7/43.2/39.0
Refrigerant		Type	R410A				
		Control method	EXV				
Indoor Unit	Net dim.(W×H×D)	mm	1,180x210x500	1,230×270×775	1,230×270×775	1,230×270×775	1,290×300×865
	Gross dim.(W×H×D)	mm	1,335x285x525	1,355×350×795	1,355×350×795	1,355×350×795	1,400×375×925
	Net/Gross	kg	28/31.5	38/46.5	40/48	40/48	49/58
Piping connections	L(flare)	mm	Φ9.53	Φ 9.53	Φ 9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ15.9	Φ 15.9	Φ 15.9	Φ15.9	Φ15.9
	Drain piping OD	mm	Φ25	Φ25	Φ25	Φ25	Φ25
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Sound level is measured at 1.4m below the air out-let.
** External static pressure is based on high speed indoor air flow.*
** Specifications are subject to change without prior notice for product improvement.*

GENERAL DATA

60Hz

Model			CDVE-D22T2 /VN1-DA5	CDVE-D28T2 /VN1-DA5	CDVE-D36T2 /VN1-DA5	CDVE-D45T2 /VN1-DA5	CDVE-D56T2 /VN1-DA5	CDVE-D71T2 /VN1-DA5
Power supply			208/230V-1Ph-60Hz					
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
		kcal/h	1900	2400	3100	3900	4800	6100
		Btu/h	7500	9600	12300	15400	19100	24200
Heating capacity		kW	2.6	3.2	4	5	6.3	8
		kcal/h	2200	2800	3400	4300	5400	6900
		Btu/h	8200	10900	13600	17100	21500	27300
Rated input	Cooling	W	66	72	77	100	100	125
	Heating		66	72	77	100	100	125
Rated current	Cooling	A	0.24	0.24	0.28	0.48	0.48	0.6
	Heating		0.24	0.24	0.28	0.48	0.48	0.6
Airflow rate(SH/H/M/L)		m^3/h	588(30pa)/538/456/375	588(30pa)/538/456/375	614(30pa)/597/514/429	763(30pa)/811/684/575	763(30pa)/811/684/575	1127(30pa)/1029/934/781
		CFM	346/317/268/221	346/317/268/221	361/351/303/253	449/477/403/338	449/477/403/338	663/606/550/460
External Static Pressure		Pa	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)
Sound pressure level(H/M/L)		dB(A)	36/35/32	36/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34	41.4/39/35
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(W×H×D)	in.(mm)	29-9/64x8-17/64x19-11/16(740x210x500)			37-51/64x8-17/64x19-11/16(960x210x500)	37-51/64x8-17/64x19-11/16(960x210x500)	46-29/64x8-17/64x19-11/16(1180x210x500)
	Gross dim.(W×H×D)	in.(mm)	34-1/4×11-7/32×20-43/64(870×285×525)			43-57/64×11-7/32×20-43/64(1115×285×525)	43-57/64×11-7/32×20-43/64(1115×285×525)	52-9/16×11-7/32×20-43/64(1335×285×525)
	Net/Gross	lbs.(kg)	38.6/44.1(17.5/20)	38.6/44.1(17.5/20)	38.6/44.1(17.5/20)	49.6/57.3(22.5/26)	49.6/57.3(22.5/26)	61.8/69.5(28/31.5)
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ 6.35)	1/4(Φ6.35)	3/8(Φ9.53)	3/8(Φ9.53)
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ 12.7)	1/2(Φ12.7)	5/8(Φ15.9)	5/8(Φ15.9)
	Drain piping	in.(mm)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Model			CDVE-D80T2/VN1-BA5	CDVE-D90T2/VN1-BA5	CDVE-D112T2/VN1-BA5	CDVE-D140T2/VN1-BA5
Power supply			208/230V-1Ph-60Hz			
Cooling capacity		kW	8	9	11.2	14
		kcal/h	6,900	7,700	9,600	12000
		Btu/h	27,300	30,700	38,200	47800
Heating capacity		kW	9	10	12.5	15.5
		kcal/h	7,700	8,600	10,800	13300
		Btu/h	30,700	34,100	42,700	52900
Rated input	Cooling	W	133	134	378	352
	Heating		133	134	378	352
Rated current	Cooling	A	1	1	1.8	1.55
	Heating		1	1	1.8	1.55
Airflow rate((SH/H/M/L))		m^3/h	1,388(50pa)/1,345/1,165/1,013	1,388(50pa)/1,345/1,165/1,013	1,851(80pa)/1,800/1,556/1,400	1,745(100pa)/1,905/1,636/1,400
		CFM	817/792/686/596	817/792/686/596	1,089/1,059/916/824	1,027/1,121/963/824
External Static Pressure		Pa	20(10~50)	20(10~50)	40(10~80)	40(10-100)
Sound pressure level(H/M/L)		dB(A)	45.4/39.8/37	45.4/39.8/37	48.0 /41.9/38	47.7/43.2/39
Refrigerant		Type	R410A			
		Control method	EXV			
Indoor Unit	Net dim.(W×H×D)	in.(mm)	48-27/64×10-5/8×30-33/64(1230×270×775)			50-25/32×11-13/16×34-1/16(1290×300×865)
	Gross dim.(W×H×D)	in.(mm)	53-11/32×13-25/31×31-19/64 (1355×350×795)			55-1/8×14-49/64×36-27 /64(1400×375×925)
	Net/Gross	lbs.(kg)	84/102.5(38/46.5)	88.2/105.8(40/48)	88.2/105.8(40/48)	108.0/127.9(49/58)
Piping connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)
	G(flare)	in.(mm)	Φ5/8(Φ 15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ 15.9)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 63/64(Φ25)			
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)			

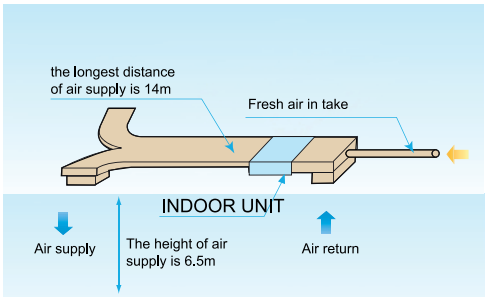
Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Sound level is measured at 1.4m below the air out-let.
** External static pressure is based on high speed indoor air flow.*
** Specifications are subject to change without prior notice for product improvement.*

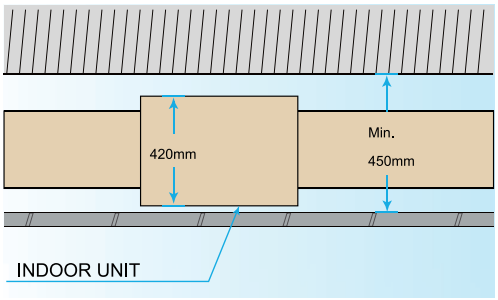
HIGH STATIC PRESSURE DUCT

- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Wired Controller
- Connectable To Duct

Flexible duct design

External static pressure can be up to 196Pa (models 71 to 160) or 280Pa (models 200 to 560).





The maximum distance for air supply is about 14m at height of 6.5m.
With a 420mm (models 71 to 160) thick body, the minimum distance required above the ceiling is 450mm.

Greater flexibility with the four-speed fan

Four speed fan motor(model 71 to 160)

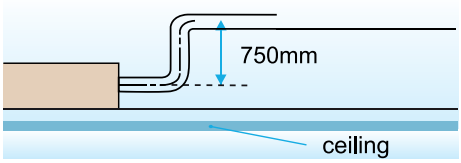
Convenient installation

The EXV is fixed inside the indoor unit (models 70-160), requires no extra connection.
Standard filter is housed in an aluminum frame, which is removable from the bottom in the downward direction.
Flange for air in/outlet duct connection is standard.

Flexible control and convenient for maintenance

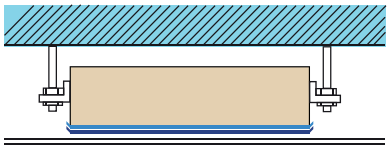
Wired remote controller KJR-29B1/BK-E is as standard, and wireless remote controller RM05/BG(T)E-A is as an option.
The display board is connected to the E-box in factory, easier troubleshooting by LED display.
Easy access filters both at the rear & bottom
Standard functional port such as remote on/off dry contact.

Option



Drain pump with 750mm pump head is optional (models 71 to 160)

ouble-skin drainage pan



Double-skin drainage pan provide double protection for ceilings (models 71 to 160 and models 400 to 560)

GENERAL DATA

50Hz

Model			CDVE-D71T1/N1-B	CDVE-D80T1/N1-B	CDVE-D90T1/N1-B	CDVE-D112T1/N1-B	CDVE-D140T1/N1-B	CDVE-D160T1/N1-B
Power supply			220/240-1Ph-50Hz					
Cooling capacity		kW	7.1	8	9	11.2	14	16
		kcal/h	6,100	6,900	7,700	9,600	12,000	13,800
		Btu/h	24,200	27,300	30,700	38,200	47,800	54,600
Heating capacity		kW	8	9	10	12.5	16	17
		kcal/h	6,900	7,700	8,600	10,800	13,800	14,600
		Btu/h	27,300	30,700	34,100	42,700	54,600	58,000
power (cooling)	Input	W	263	263	423	524	724	940
	Rated Current	A	1.23	1.23	1.87	2.3	2.85	4.77
power (Heating)	Input	W	263	263	423	524	724	940
	Rated Current	A	1.2	1.23	1.87	2.3	2.8	4.77
Indoor air flow(H/M/L)		m^3/h	1,443/1,361/1,218	1,416/1,338/1,220	1,951/1,741/1,518	2,116/1,936/1,520	3,000/2,618/2,226	3,620/3,044/2,744
		CFM	849/801/717	883/788/718	1,148/1,025/893	1,246/1,140/895	1,766/1,541/1,310	2,131/1,792/1,615
External Static Pressure		Pa	25(25~ 196)	37(37~ 196)	37(37~ 196)	50(50~ 196)	50(50~ 196)	50(50~ 196)
Sound pressure level(H/M/L)		dB(A)	48/46/44	48/46/44.5	52/49/47	52/49/47	53/50/48	54/52/50
Refrigerant		Type	R410A					
		Control method	EXV					
Net dimension (W×H×D)		mm	952×420×690	952×420×690	952×420×690	952×420×690	1,300×420×691	1,300×420×691
Packing dimension (W×H×D)		mm	1,090×440×768	1,090×440×768	1,090×440×768	1,090×440×768	1,436×450×768	1,436×450×768
Net/Gross Weight		kg	45/50	45/50	46.5/52.4	50.6/56	68/70	70/77.5
Piping connections	L(flare)	mm	Φ9.53	Φ 9.53	Φ 9.53	Φ9.53	Φ 9.53	Φ 9.53
	G(flare)	mm	Φ15.9	Φ 15.9	Φ15.9	Φ15.9	Φ 15.9	Φ 15.9
	Drain piping	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Model			CDVE-D200T1/ N1-B	CDVE-D250T1/ N1-B	CDVE-D280T1/ N1-B	CDVE-D400T1/ N1	CDVE-D450T1/ N1	CDVE-D560T1/ N1
Power supply			220/240-1Ph-50Hz					
Cooling capacity		kW	20	25	28	40	45	56
		kcal/h	17,200	21,500	24,100	34,400	38,700	48,200
		Btu/h	68,200	85,300	95,500	136,500	153,500	191,100
Heating capacity		kW	22.5	26	31.5	45	50	63
		kcal/h	19,400	22,400	27,100	38,700	43,000	54,200
		Btu/h	76,800	88,700	107,500	153,500	170,600	214,960
power (cooling)	Input	W	1516	1516	1516	2700	2700	3400
	Rated Current		8.6	8.6	8.6	12.5	12.5	15.5
power (Heating)	Input	A	1516	1516	1516	2700	2700	3400
	Rated Current		8.6	8.6	8.6	12.5	12.5	15.5
Indoor air flow(H/M/L)		m^3/h	3,840/3,595/2,970	3,840/3,595/2,970	3,840/3,595/2,970	7,472/6,072/4,995	7,472/6,072/4,995	9,550/7,950/6,600
		CFM	2,260/2,116/1,748	2,260/2,116/1,748	2,260/2,116/1,748	4,398/3,574/2,940	4,398/3,574/2,940	5,621/4,679/3,884
External Static Pressure		Pa	200(50~280)	200(50~280)	200(50~280)	200(50~280)	200(50~280)	200(50~280)
Sound pressure level(H/M/L)		dB(A)	59/55/52	59/55/52	59/55/52	61/59/56	61/59/56	63/60/57
Refrigerant		Type	R410A					
		Control method	EXV					
Net dimension(W×H×D)		mm	1,443×470×810	1,443×470×810	1,443×470×810	1,970×668×902.5	1,970×668×902.5	1,970×668×902.5
Packing dimension(W×H×D)		mm	1,509×550×990	1,509×550×990	1,509×550×990	2,095×800×964	2,095×800×964	2,095×800×964
Net/Gross Weight		kg	115/129	115/129	115/129	232/245	232/245	235/250
Piping connections	L(flare)	mm	Φ9.53×2	Φ 9.53×2	Φ 9.53×2	Φ12.7×2	Φ12.7×2	Φ15.9×2
	G(flare)	mm	Φ15.9×2	Φ15.9×2	Φ15.9×2	Φ22.2x2	Φ22.2x2	Φ28.6×2
	Drain piping	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Sound level is measured at 1.4m below the air out-let.
** External static pressure is based on high speed indoor air flow.*
** Specifications are subject to change without prior notice for product improvement.*

COOLEX

GENERAL DATA

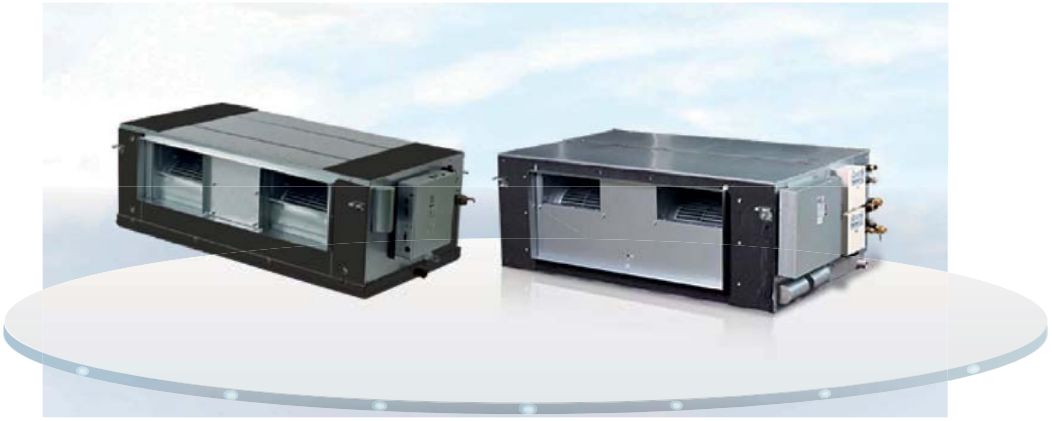
60Hz

Model			CDVE-D71T1/VN1-B	CDVE-D80T1/VN1-B	CDVE-D90T1/VN1-B	CDVE-D112T1/VN1-B
Power supply			1-phase,208-230V,60Hz			
Cooling capacity		kW	7.1	8	9	11.2
		kcal/h	6,100	6,900	7,700	9,600
		Btu/h	24,200	27,300	30,700	38,200
Heating capacity		kW	8	9	10	12.5
		kcal/h	6,900	7,700	8,600	10,800
		Btu/h	27,300	30,700	34,100	42,700
Rated input	Cooling	W	414	402	409	409
	Heating		414	402	409	409
Rated current	Cooling	A	1.8	1.8	1.8	2.01
	Heating		1.8	1.8	1.8	2.01
Airflow rate(H/M/L)		m^3/h	1683/1550/1317	1683/1550/1317	2240/2020/1590	2186/1975/1560
		CFM	990/912/775	990/912/775	1318/1188/935	1286/1162/918
External Static Pressure		Pa	40(30~196)	40(30~196)	40(30~196)	50(30~ 196)
Sound pressure level(H/M/L)		dB(A)	48/46/44.5	48/46/44.5	52/49/47	52/49/47
Refrigerant		Type	R410A			
		Control method	EXV			
Indoor Unit	Net dim.(W×H×D)	in(mm)	37-31/64×16-17/32×27-11/64(952×420×690)			
	Gross dim.(W×H×D)	in(mm)	42-29/32×17-21/64×30-15/64(1090×440×768)			
	NetGross	lbs(kg)	102.6/114.7(46.5/52)	102.6/114.7(46.5/52)	110.3/124.6(50/56.5)	110.3/124.6(50/56.5)
Piping connections	L(flare)	in(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)
	G(flare)	in(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)
	Drain piping	in(mm)	OD 1-17/64(Φ32)			
Standard Controller			Wired controller KJR-29B1/BK-E (6m wrie is standard)			

Model			CDVE-D140T1/VN1-B	CDVE-D160T1/VN1-B	CDVE-D400T1/N1	CDVE-D450T1/N1
Power supply			208~230V-1Ph-60Hz			
Cooling capacity		kW	14	16	40	45
		kcal/h	12,000	13,800	34400	38,700
		Btu/h	47,800	54,600	136500	153,500
Heating capacity		kW	16	18	45	50
		kcal/h	13,800	15,500	38700	43,000
		Btu/h	54,600	61,400	153,500	170600
Rated input	Cooling	W	527	532	1,600	1,600
	Heating		527	532	1,600	1,600
Rated current	Cooling	A	2.2	2.2	7.5	7.5
	Heating		2.2	2.2	7.5	7.5
Airflow rate(H/M/L)		m^3/h	2969/2688/2469	2969/2688/2469	7083/6200/4630	7083/6200/4630
		CFM	1746/1582/1452	1746/1582/1452	4166/3647/2723	4166/3647/2723
External Static Pressure		Pa	50(30~ 196)	50(30~ 196)	196(50~250)	196(50~250)
Sound pressure level(H/M/L)		dB(A)	53/50/48	54/52/50	61/59/56	61/59/56
Refrigerant		Type	R410A			
		Control method	EXV			
Indoor Unit	Net dim.(W×H×D)	in(mm)	47-1/4×15-3/4×23-5/8 (1,200×400×600)		77-9/16×26-19/64×33-51/64(1,970×668×858.5)	
	Gross dim.(W×H×D)	in(mm)	56-17/32×17-23/32×30-15/64(1436×450×768)		82-31/64×31-1/2×37-61/64(2,095×800×964)	
	NetGross	lbs(kg)	149.9/154.3(68/70)	153.3/167.6(69.5/76)	511/540(232/245)	511/540(232/245)
Piping connections	L(flare)	in(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)
	G(flare)	in(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)
	Drain piping	in(mm)	OD 1-17/64(Φ32)			
Standard Controller			Wired controller KJR-29B1/BK-E(6m wrie is standard)			

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temperature: 95°F(35°C)DB,equivalent ref. Piping:26.25ft(8m)(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 68°F(20°C)DB, outdoor temperature: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit.
** Specifications are subject to change without prior notice for product improvement.*

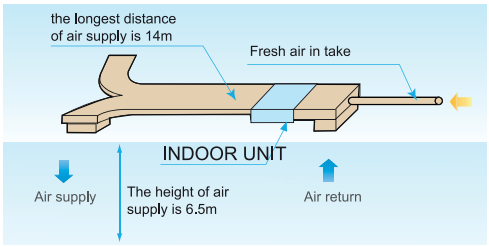
FRESH AIR PROCESSING UNIT



Healthy and comfortable

Fresh air is imported, provides a healthy and comfortable living environment.

100% Fresh air processing unit

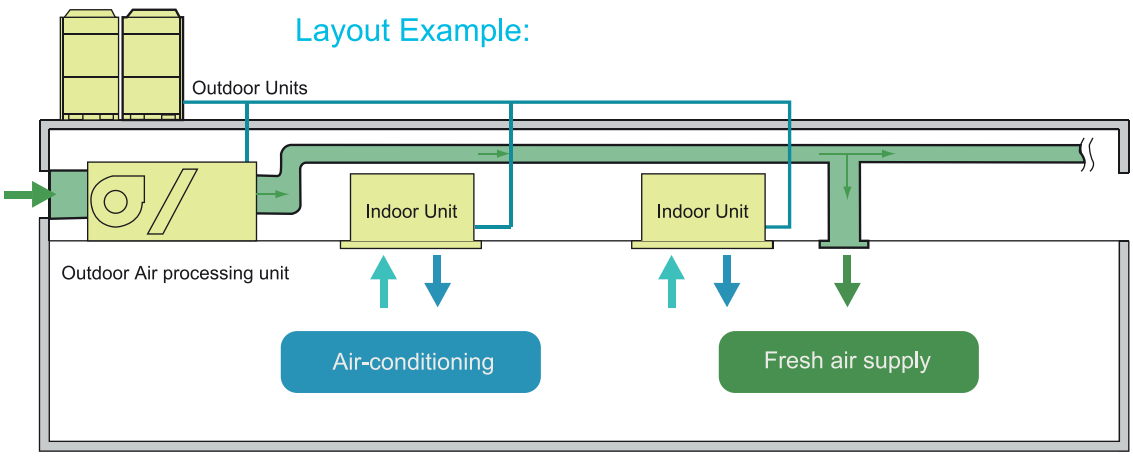


Both fresh air filtration and heating/cooling can be achieved in a single system.
Indoor units and fresh air processing unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.

High external static pressure

External static pressure can be up to 220Pa(models 125 to 140) and 260Pa(models 200 to 280) for more flexible duct applications. The maximum distance of air supply is about 14m and the maximum height of air supply is about 6.5m.

Innovative air supply technology for excellent room temperature control



GENERAL DATA

50Hz

Model			CDVE-D125T1/N1-FA	CDVE-D140T1/N1-FA	CDVE-D200T1/N1-FA	CDVE-D250T1/N1-FA	CDVE-D280T1/N1-FA
Power supply			220-240V~1Ph~50Hz				
Cooling capacity		kW	12.5	14	20	25	28
		kcal/h	10,800	12,000	17,200	21,500	24,100
		Btu/h	42,700	47,800	68,200	85,300	95,500
Heating capacity		kW	10.5	12	18	20	22
		kcal/h	9,000	10,300	15,550	17,200	18,900
		Btu/h	35,800	41,000	61,400	68,200	75,100
power (cooling)	Input	W	430	430	1063	1,063	1063
	Rated Current	A	2.4	2.4	5.3	5.6	5.6
power (Heating)	Input	W	461	430	1063	1,063	1,063
	Rated Current	A	2.4	2.4	5.3	5.6	5.6
Indoor air flow(H/M/L)		m^3/h	2,142/1,870/1,611	2,142/1,870/1,611	3,210/2,700/2,200	3,205/2,750/2,300	3,205/2,750/2,300
		CFM	1,261/1101/948	1,261/1101/948	1,889/1,589/1,295	1,886/1,619/1,354	1,886/1,619/1,354
External Static Pressure		Pa	50(50~196)	50(50~196)	200(50~280)	200(50~280)	200(50~280)
Sound pressure level(H/M/L)		dB(A)	54/52/50	54/52/50	54/53/51	55/54/52	55/54/52
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		mm	1,300×420×690	1,300×420×690	1,443×470×810	1,443×470×810	1,443×470×810
Packing dimension(W×H×D)		mm	1,436×450×768	1,436×450×768	1,509×550×990	1,509×550×990	1,509×550×990
Net/Gross Weight		kg	69.5/76	69.5/76	115/125	115/125	115/125
Piping connections	L(flare)	mm	Φ9.53	Φ 9.53	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ 15.9	Φ 15.9	Φ 15.9	Φ 15.9	Φ 15.9
	Drain piping	mm	ODΦ25	ODΦ25	ODΦ32	ODΦ32	ODΦ32
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)				

60Hz

Model			CDVE-D125T1/VN1-FA	CDVE-D140T1/VN1-FA	CDVE-D200T1/VN1-FA	CDVE-D250T1/VN1-FA	CDVE-D280T1/VN1-FA
Power supply			208~230V-1Ph-60Hz				
Cooling capacity		kW	12.5	14	20	25	28
		kcal/h	10,800	12000	17,200	21,500	24,100
		Btu/h	42,600	47,800	68,200	85,300	95,500
Heating capacity		kW	10.5	12	18	20	22
		kcal/h	9,000	10,300	15,500	17,200	18,900
		Btu/h	36,000	41,000	61,400	68,200	75,000
Rated input	Cooling	W	468	468	616	616	616
	Heating		468	468	616	616	616
Rated current	Cooling	A	2.4	2.4	4.2	4.4	4.4
	Heating		2.4	2.4	4.2	4.4	4.4
Indoor air flow(H/M/L)		m^3/h	2,142/1,870/1,611	2,142/1,870/1,611	3,210/2,700/2,200	3,205/2,750/2,300	3,205/2,750/2,300
		CFM	1,261/1,101/948	1,261/1,101/948	1,889/1,589/1,295	1,886/1,619/1,354	1,886/1,619/1,354
External Static Pressure		Pa	50(50~196)	50(50~196)	200(50~280)	200(50~280)	200(50~280)
Sound pressure level(H/M/L)		dB(A)	54/52/50	53/50/48	54/53/51	55/54/52	55/54/52
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		in.(mm)	51-3/16×16-17/32×27-11/64(1300×420×690)		56-13/16×18-1/2×31-57/64(1443×470×810)		
Packing dimension(W×H×D)		in.(mm)	56-17/32×17-23/32×30-1/4(1,436×450×768)		59-13/32×21-21/32×38-31/32(1,509×550×990)		
Net/Gross Weight		lbs.(kg)	153.2/167.5(69.5/76)	153.2/167.5(69.5/76)	251/274(114/124)	251/274(114/124)	251/274(114/124)
Piping connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)
	G(flare)	in.(mm)	Φ5/8(ΦΦ15.9)	Φ5/8(ΦΦ15.9)	Φ5/8(ΦΦ15.9)	Φ5/8(ΦΦ15.9)	Φ5/8(ΦΦ15.9)
	Drain piping	in.(mm)	OD 1-17/64(ΦΦ32)				
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)				

Notes:

1. Nominal cooling capacities are based on the following conditions: Outdoor air temp. : 91.4 °F(33°C) DB, 75.2 °F(24°C) WB, equivalent ref. piping :26.25 ft horizontal

2. Nominal heating capacities are based on the following conditions: Outdoor air temp. : 32 °F(0°C) DB, 30.2 °F(-1°C) WB, equivalent ref. piping :26.25 ft horizontal

3. Sound level is measured at 1.4m below the air out-let.

** External static pressure is based on high speed indoor air flow.*

** Specifications are subject to change without prior notice for product improvement.*

1)when outdoor-air processing units are connected , the total connection capacity must be with in 50% to 100% of that of the outdoor units.

2)when outdoor air processing units are standard indoor units are connected, the total connection capacity of the outdoor-air processing units must not exceed 30% of that of the outdoor units.

3)outdoor-air processing units can be used without indoor units .

4)the fresh air processing units is not available for V4+R system. Connection condition:the following restrictions must be observed in order to maintain the indoor units connected to the same system..

CEILING & FLOOR

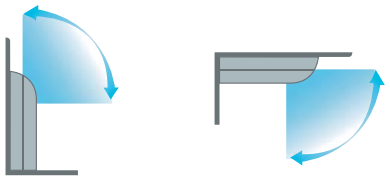
- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Built-in Drain Pump
- LED Display

Panel with LED display

The front panel and display panel have different colors to choose: white and brown for big panel, blue and brown for small panel. Other colors are available if required.

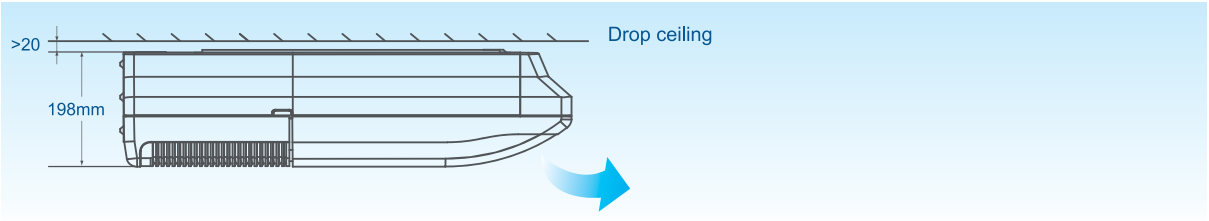
Convenient installation

- The unit even can be easily installed at the corner of a narrow ceilings.
- It is especially useful when central installation is impossible due to features such as lights.



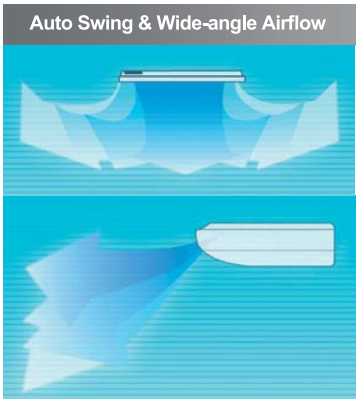
The unit can be installed either horizontally on the ceiling or vertically against the wall.

Quiet and comfortable environment



- The slim and sleek design starting at just 30kg enables quick, easy and neat installation.
- Low noise operations; minimum 36 dB(A)

Auto swing and wide angle air flow



1.Auto horizontal and auto vertical swing functions for more even and comfortable airflow.
2.Three air flow speeds: low, medium and high; double air guides.
3.Adopt electrical expansion valve, ensuring precise flow control, lower modulation noise when EXV operating.
4.Smoother airflow and less turbulence due to the multi-blade fan and the air guide design.

GENERAL DATA

50Hz

Model			CDVE-D36DL/N1-C	CDVE-D45DL/N1-C	CDVE-D56DL/N1-C	CDVE-D71DL/N1-C	CDVE-D80DL/N1-C
Power supply			220/240-1Ph-50Hz				
Cooling capacity		kW	3.6	4.5	5.6	7.1	8
		kcal/h	3,100	3,900	4,800	6,100	6,900
		Btu/h	12,300	15,400	19,100	24,200	27,300
Heating capacity		kW	4	5	6.3	8	9
		kcal/h	3,400	4300	5,400	6,800	7,700
		Btu/h	13,600	17,100	21,500	27,300	30,700
Power input	Cooling	W	49	120	122	125	130
	Heating		49	120	122	125	130
Rated current	Cooling	A	0.23	0.67	0.67	0.67	0.83
	Heating		0.23	0.67	0.67	0.67	0.83
Airflow rate(H/M/L)		m^3/h	650/570/500	800/600/500	800/600/500	800/600/500	1,200/900/700
		CFM	383/335/294	471/353/294	471/353/294	471/353/294	706/530/412
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38	45/43/40
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		mm	990×203×660	990×203×660	990×203×660	990×203×660	1,280×203×660
Packing dimension(W×H×D)		mm	1,089×296×744	1,089×296×744	1,089×296×744	1,089×296×744	1,379×296×744
Net weight		kg	26	28	28	28	34.5
Gross weight		kg	32	34	34	34	41
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ 9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ 12.7	Φ 12.7	Φ 15.9	Φ15.9	Φ15.9
	Drain piping	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ16	OD Φ16
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Model			CDVE-D90DL/N1-C	CDVE-D112DL/N1-C	CDVE-D140DL/N1-C	CDVE-D160DL/N1-C
Power supply			220/240-1Ph-50Hz			
Cooling capacity		kW	9	11.2	14	16
		kcal/h	7,700	9,600	13,300	13,800
		Btu/h	30,700	38,200	47,800	54,600
Heating capacity		kW	10	12.5	15	18
		kcal/h	8,600	10,800	12,900	15,500
		Btu/h	34,100	42,700	51,200	61,400
Power input	Cooling	W	130	182	182	300
	Heating		130	182	182	300
Rated current	Cooling	A	0.83	1.11	1.11	1.41
	Heating		0.83	1.11	1.11	1.41
Airflow rate(H/M/L)		m^3/h	1,200/900/700	1,980/1,860/1,730	1,980/1,860/1,730	1,980/1,860/1,730
		CFM	706/530/412	1,165/1,095/1,018	1,165/1,095/1,018	1,165/1,095/1,018
Sound pressure level(H/M/L)		dB(A)	45/43/40	47/45/42	47/45/42	47/45/42
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(W×H×D)		mm	1,280×203×660	1,670×244×680	1,670×244×680	1,670×285×680
Packing dimension(W×H×D)		mm	1,379×296×744	1,764×329×760	1,764×329×760	1,775×377×760
Net weight		kg	34.5	54	54	57.5
Gross weight		kg	41	59	59	63.5
Piping connections	L(flare)	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ 15.9	Φ 15.9	Φ15.9	Φ 15.9
	Drain piping	mm	ODΦ16	ODΦ16	OD Φ 16	ODΦ16
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)			

Notes:
1. Nominal cooling capacities are based on the following conditions: return airtemperature.: 27°CDB, 19°CWB, and outdoor temperature.:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB, outdoor temp.: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Floor standing :Sound level is measured 1m from air-outlet in horizontal distance, 1m above the floor in vertical distance.
Ceiling mounted:Sound level is measured 1m from air-outlet in horizontal distance,1m from air-outlet in vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

GENERAL DATA

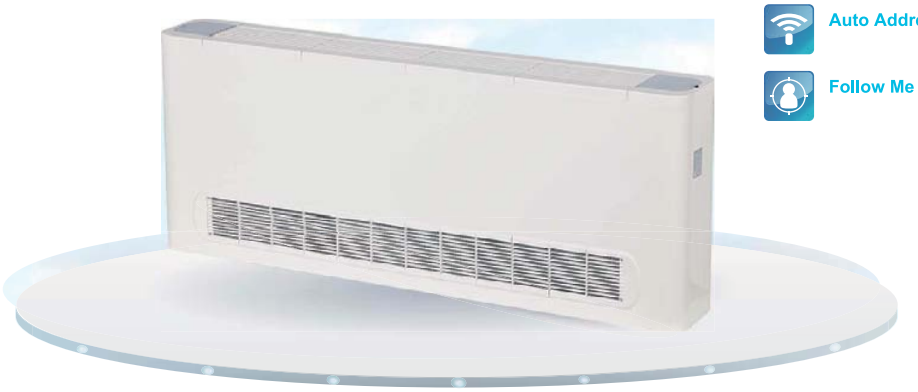
60Hz

Model			CDVE-D36DL/N1-C	CDVE-D45DL/N1-C	CDVE-D56DL/N1-C	CDVE-D71DL/N1-C
Power supply			220/240-1Ph-60Hz			
Cooling capacity		kW	3.6	4.5	5.6	7.1
		kcal/h	3,100	3,900	4,800	6,100
		Btu/h	12,300	15,400	19,100	24,200
Heating capacity		kW	4	5	6.3	8
		kcal/h	3,400	4300	5,400	6,800
		Btu/h	13,600	17,100	21,500	27,300
Power input	Cooling	W	50	148	148	148
	Heating		50	148	148	148
Rated current	Cooling	A	0.55	0.55	0.55	0.57
	Heating		0.55	0.55	0.55	0.57
Airflow rate(H/M/L)		m^3/h	600/480/400	750/650/550	750/650/550	750/650/550
		CFM	353/283/235	441/383/324	441/383/324	441/383/324
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(W×H×D)		in.(mm)	38-31/32×7-63/64×25-63/64(990×203×660)			
Packing dimension(W×H×D)		in.(mm)	42-7/8x11-21/32x29-9/32(1089x296x744)			
Net/Gross weight		lbs.(kg)	57.3/70.6(26/32)	61.7/75.0(28/34)	61.7/75.0(28/34)	61.7/75.0(28/34)
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	3/8(Φ9.53)	3/8(Φ9.53)
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	5/8(Φ15.9)	5/8(Φ15.9)
	Drain piping	in.(mm)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)			

Model			CDVE-D80DL/N1-C	CDVE-D90DL/N1-C	CDVE-D112DL/N1-C	CDVE-D140DL/N1-C	CDVE-D160DL/N1-C
Power supply			220/240V-1Ph-60Hz				
Cooling capacity		kW	8	9	11.2	14	16
		kcal/h	6,900	7,700	9,600	12,000	13,800
		Btu/h	27,300	30,700	38,200	47,800	54,600
Heating capacity		kW	9	10	12.5	15	18
		kcal/h	7,700	8,600	10,800	12,900	15,477
		Btu/h	30,700	34,100	42,700	51,200	61,400
Power input	Cooling	W	183	183	245	245	378
	Heating		183	183	245	245	378
Rated current	Cooling	A	0.6	0.6	0.83	0.83	1.75
	Heating		0.6	0.6	0.83	0.83	1.75
Airflow rate(H/M/L)		m^3/h	1,200/900/700	1,200/900/700	1,980/1,860/1,730	1,980/1,860/1,730	2,300/2,100/1,800
		CFM	706/530/412	706/530/412	1,165/1,095/1,018	1,165/1,095/1,018	1,354/1,236/1,060
Sound pressure level(H/M/L)		dB(A)	45/43/40	45/43/40	47/45/42	47/45/42	47/45/42
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		in.(mm)	50-25/64×7-63/64×25-63/64(1280×203×660)		65-3/4 x9-39/64x26-49/64(1670 x244x680)		65-3/4x11-7/32x26-49/64 (1670x285x680)
Packing dimension(W×H×D)		in.(mm)	54-19/64x11-21/32x29-19/64(1379x296x744)		69-29/64 x12-61/64x29-59/64(1764x329x760)		69-7/8x14-27/32x29-59/64 (1775x377x760)
Net/Gross weight		lbs.(kg)	76.1/90.4(34.5/41)	76.1/90.4(34.5/41)	119.0/130.1(54/59)	119.0/130.1(54/59)	126.5/139.7(57.5/63.5)
Piping connections	L(flare)	in.(mm)	3/8(Φ9.53)	3/8(Φ9.53)	3/8(Φ9.53)	3/8(Φ9.53)	3/8(Φ9.53)
	G(flare)	in.(mm)	5/8(Φ15.9)	5/8(Φ15.9)	5/8(Φ15.9)	5/8(Φ15.9)	5/8(Φ15.9)
	Drain piping	in.(mm)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temperature: 95°F(35°C)DB,equivalent ref. piping: 26.25ft. (8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 68°F(20°C)DB, outdoor temperature: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft.(8m) (horizontal)
3. Floor standing :Sound level is measured 3.28ft(1m) from air-outlet in horizontal distance, 3.28ft(1m) above the floor in vertical distance. Ceiling mounted:Sound level is measured 3.28ft(1m) from air-outlet in horizontal distance,3.28ft(1m) from air-outlet in vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

FLOOR STANDING



- Auto Restart
- Cleanable Panel
- Auto Addressing
- Anti-Cold Air Function
- Follow Me
- LED Display

Easy installation

Floor standing types can be hung on the wall or installed on the floor. The floor type of unit can make cleaning and maintenance much easier. Running the piping from the rear allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.

Easy maintenance

Filter is provided as a standard accessory. It can be removed and cleaned easily thanks to Midea's sophisticated design and the product's removable blades.

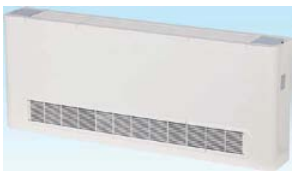
The streamlined appearance harmonizes the unit with a given room's interior decor. All metal parts are made of commercial grade galvanized steel for maximum protection against corrosion.

Saves installation space

Concealed floor standing type

The body is concealed in the skirting board to improve aesthetics. The body is just 212mm deep, and can be installed at the room's perimeter. Special installation methods eliminate noise in the room area.

F3B series concealed type



Air intake from front(F4 series)

Air intake from below(F5 series)

GENERAL DATA

50Hz

Model			CDVE-D22Z/ N1-F3B	CDVE-D28Z/ N1-F3B	CDVE-D36Z/ N1-F3B	CDVE-D45Z/ N1-F3B	CDVE-D56Z/ N1-F3B	CDVE-D71Z/ N1-F3B	CDVE-D80Z/ N1-F3B
			CDVE-D22Z/ N1-F4	CDVE-D28Z/ N1-F4	CDVE-D36Z/ N1-F4	CDVE-D45Z/ N1-F4	CDVE-D56Z/ N1-F4	CDVE-D71Z/ N1-F4	CDVE-D80Z/ N1-F4
			CDVE-D22Z/ N1-F5	CDVE-D28Z/ N1-F5	CDVE-D36Z/ N1-F5	CDVE-D45Z/ N1-F5	CDVE-D56Z/ N1-F5	CDVE-D71Z/ N1-F5	CDVE-D80Z/ N1-F5
Power supply			220/240-1Ph-50Hz						
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8
		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	6,900
		Btu/h	7,500	9,500	12,300	15,400	19,100	242,00	27,300
Heating capacity		kW	2.4	3.2	4	5	6.3	8	9
		kcal/h	2,100	2,800	3,400	4,300	5,400	6,900	7,700
		Btu/h	8,200	10,900	13,600	17,100	21,500	27,300	30,700
Power input	Cooling	W	40	46	46	49	88	130	130
	Heating		40	46	46	49	88	130	130
Rated current	Cooling	A	0.19	0.2	0.19	0.22	0.38	0.57	0.57
	Heating		0.19	0.2	0.15	0.22	0.38	0.57	0.57
Airflow rate(H/M/L)		m^3/h	530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	1,380/1,100/870
		CFM	312/268/235	335/285/248	367/307/221	388/319/259	677/571/489	812/647/512	812/647/512
Sound pressure level(H/M/L)	F3B	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
	F4		36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
	F5		36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Refrigerant		Type	R410A						
		Control method	EXV						
Net dimension (W×H×D)	F3B	mm	840×544×212	840×544×212	1,036×544×212	1,036×544×212	1,336×544×212	1,336×544×212	1,336×544×212
	F4		1,000×625×220	1,000×625×220	1,200×625×220	1,200×625×220	1,500×625×220	1,500×625×220	1,500×625×220
	F5		1,000×625×220	1,000×625×220	1,200×625×220	1,200×625×220	1,500×625×220	1,500×625×220	1,500×625×220
Packing dimension (W×H×D)	F3B	mm	939×639×305	939×639×305	1,139×639×305	1,139×639×305	1,439×639×305	1,439×639×305	1,439×639×305
	F4		1,089×683×312	1,089×683×312	1,289×683×312	1,289×683×312	1,589×683×312	1,589×683×312	1,589×683×312
	F5		1,182×683×312	1,182×683×312	1,382×683×312	1,382×683×312	1,682×683×312	1,682×683×312	1,682×683×312
Net/Gross weight	F3B	kg	26/29.5	26/29.5	29.5/34	29.5/34	36/40	36/40	36/40
	F4		30/35	30/35	37/43	37/43	44/50	44/50	44/50
	F5		30/38	30/38	37/46	37/46	44/53	44/53	44/53
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Drain piping	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)						

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Sound level is measured 1m from the air out-let in horizontal distance and 1m above the floor in vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

COOLEX

CONSOLE

- Auto Restart
- Cleanable Panel
- Auto Addressing
- Anti-Cold Air Function
- Follow Me
- LED Display

Compact size and stylish

- The elegant and thin unit body complements the existing decor and saves space.
- The EXV is installed inside of the indoor unit for added compactness.

Flexible installation

- Can be installed on the floor or lower wall
- As a floor standing type, it can be semi or fully accessed without losing capacity.

High Comfort

- Flexible air blow: vertical auto swing and wide angle louvers ensure that warm air reaches every corner of the room and increases the air flow coverage.
- Indoor unit adopts DC motor with five fan speeds to meet different requirements.
- Applies the Fujikoki mechanical expansion valve which offers 2,000-stage element positions to ensure precise flow control and lower modulation noise when the EXV is operating.

Powerful mode can be selected for rapid cooling or heating

COOLING MODE

Quick cooling | To maintain temperature

HEATING MODE

Anti-cold air | Normal operation

Two air outlets and four air inlets

Four directions of air inlet; two options of air outlet: Up and Down; or Up only.

Bottom, top, and right/left side, for better ventilation.

Low-noise design

Five-speed indoor unit; low noise; low power consumption.

Low noise operation, lowest to 26dB(A)

GENERAL DATA

50Hz

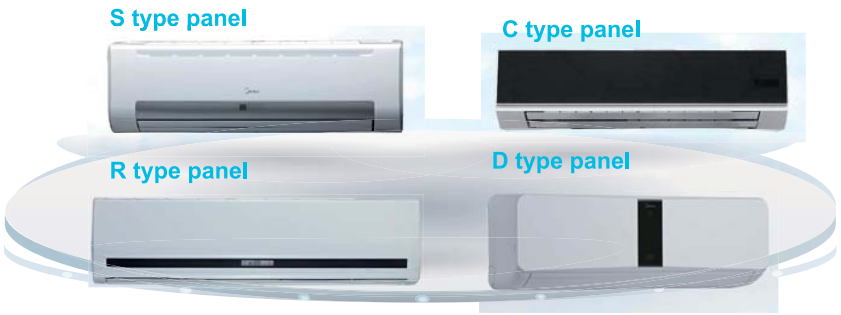
Model			CDVE-D22Z/DN1-B	CDVE-D28Z/DN1-B	CDVE-D36Z/DN1-B	CDVE-D45Z/DN1-B
Power supply			220/240-1Ph-50Hz			
Cooling capacity		kW	2.2	2.8	3.6	4.5
		kcal/h	1,900	2,400	3,100	3,900
		Btu/h	7,500	9,600	12,300	15,400
Heating capacity		kW	2.6	3.2	4.0	5.0
		kcal/h	2,200	2,800	3,400	4,300
		Btu/h	8,900	10,900	13,600	17,100
Power input	Cooling	W	20	25	25	45
	Heating		20	25	25	45
Rated current	Cooling	A	0.09	0.11	0.15	0.2
	Heating		0.09	0.11	0.15	0.2
Airflow rate(H/M/L)		m^3/h	430/345/229	510/430/229	510/430/229	660/512/400
		CFM	253/203/135	300/253/135	300/253/135	388/300/235
Sound pressure level(H/M/L)		dB(A)	38/32/26	39/33/27	39/33/27	42/39/36
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(W×H×D)		mm	700×210×600	700×210×600	700×210×600	700×210×600
Packing dimension(W×H×D)		mm	810×305×710	810×305×710	810×305×710	810×305×710
Net weight		kg	14	15	15	15
Gross weight		kg	19	20	20	20
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Drain piping	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ16
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)			

60Hz

Model			CDVE-D22Z/DN1-B	CDVE-D28Z/DN1-B	CDVE-D36Z/DN1-B	CDVE-D45Z/DN1-B
Power supply			220/240V-1Ph-60Hz			
Cooling capacity		kW	2.2	2.8	3.6	4.5
		kcal/h	1,900	2,400	3,100	3,900
		Btu/h	7,500	9,600	12,300	15,400
Heating capacity		kW	2.6	3.2	4.0	5.0
		kcal/h	2,200	2,800	3,400	4,300
		Btu/h	8,900	10,900	13,600	17,100
Power input	Cooling	W	20	25	25	45
	Heating		20	25	25	45
Rated current	Cooling	A	0.09	0.11	0.15	0.2
	Heating		0.09	0.11	0.15	0.2
Airflow rate(H/M/L)		m^3/h	468/450/395	468/450/395	467/427/395	540/481/421
		CFM	275/265/232	275/265/232	275/251/232	318/283/248
Sound pressure level(H/M/L)		dB(A)	38/32/26	39/33/27	39/33/27	42/39/36
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(W×H×D)		in.(mm)	27-9/16x8-9/32x23-5/8(700x210x600)			
Packing dimension(W×H×D)		in.(mm)	31-7/8 x12-1/64x27-15/16 (810x305x710)			
Net weight		lbs.(kg)	30.9(14)	33(15)	33(15)	33(15)
Gross weight		lbs.(kg)	42.9(19)	44.1(20)	44.1(20)	44.1(20)
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)
	Drain piping	in.(mm)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)			

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft(8m) (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3.Sound level is measured 3.28ft.(1m) from the air out-let in horizontal distance and 3.28ft.(1m) above the floor in vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

WALL-MOUNTED



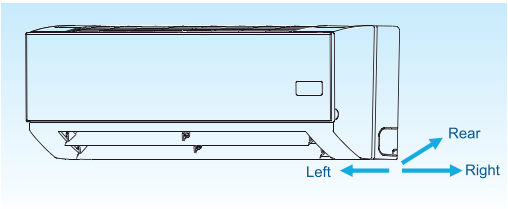
- Auto Restart
- Auto Addressing
- Cleanable Panel
- Anti-Cold Air Function
- Follow Me
- LED Display

Panel with LED display

The front panel and display panel have different colors to choose: white and brown for big panel, blue and brown for small panel.

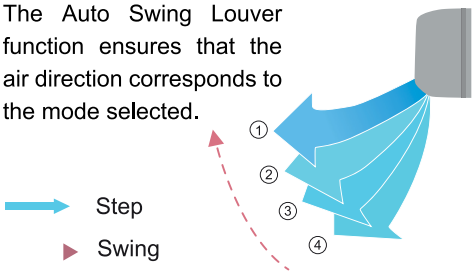
Convenient installation

- Multi-refrigerant outlet pipe method: left\right\rear, more flexible for installation.
- For S panel,R panel & C panel , the EXV is built-in the indoor unit , compact size , longer the connection pipe;gas pipe:468mm;liquid pipe:550mm,more flexible for installation. For D panel, the EXV can be 5m far away from the indoor unit, which lower the noise.
- Adopts new type fixing plate, is easy to install and stable.



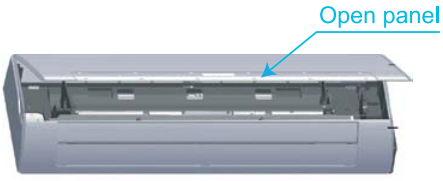
Auto swing louver

The Auto Swing Louver function ensures that the air direction corresponds to the mode selected.



Easy maintenance

The front panel can be removed for easy maintenance access.



Optimal comfort through better flow control and quiet operations

The mechanical expansion valve offers 2,000-stage element positions to ensure precise flow control and less modulation noise when the EXV is operating for a quiet and comfortable environment. Three air flow speeds: low, medium and high; double air guides. Smoother airflow and less turbulence is ensured by the multi-blade fan and the air guide design.

GENERAL DATA

S type panel (50Hz)

Model			CDVE-D15G/N1-S	CDVE-D22G/N1-S	CDVE-D28G/N1-S	CDVE-D36G/N1-S	CDVE-D45G/N1-S	CDVE-D56G/N1-S
Power supply			220/240-1Ph-50Hz					
Cooling capacity		kW	1.5	2.2	2.8	3.6	4.5	5.6
		kcal/h	1290	1900	2400	3100	3900	4800
		Btu/h	5100	7500	9600	12300	15400	19100
Heating capacity		kW	1.7	2.4	3.2	4	5	6.3
		kcal/h	1470	2100	2800	3400	4300	5400
		Btu/h	5800	8200	10900	13600	17100	21500
Rated input	Cooling	W	28	28	28	28	45	45
	Heating		28	28	28	28	45	45
Rated current	Cooling	A	0.12	0.14	0.14	0.14	0.2	0.2
	Heating		0.12	0.14	0.14	0.14	0.2	0.2
Airflow rate(H/M/L)		m^3/h	427/389/336	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
		CFM	251/229/198	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure level(H/M/L)		dB(A)	33/31/28	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(W×H×D)	mm	915×230×290	915×230×290	915×230×290	915×230×290	1072×230×315	1072×230×315
	Gross dim.(W×H×D)		1,020×315×390	1,020×315×390	1,020×315×390	1,020×315×390	1,180×315×415	1,180×315×415
	NetGross	kg	12.4/15.9	13/16.8	13/16.8	13/16.8	15.1/19.5	15.1/19.5
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping	mm	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)					

Model			CDVE-D22G/DN1-S	CDVE-D28G/DN1-S	CDVE-D36G/DN1-S	CDVE-D45G/DN1-S	CDVE-D56G/DN1-S
Power supply			220/240V-1Ph-50Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity		kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
		kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800
		Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	W	28	28	28	45	45
	Heating		28	28	28	45	45
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.20+4.05	0.20+4.05
Airflow rate(H/M/L)		m^3/h	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
		CFM	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		mm	915×230×290	915×230×290	915×230×290	1,072×230×315	1,072×230×315
Packing dimension(W×H×D)		mm	1,020×315×390	1,020×315×390	1,020×315×390	1,180×315×415	1,180×315×415
Net weight		kg	13.3	13.3	13.3	15.5	15.5
Gross weight		kg	17.1	17.1	17.1	19.9	19.9
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping	mm	ODΦ16.5	OD Φ16.5	ODΦ16.5	ODΦ16.5	OD Φ16.5
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Sound level is measured 1m below the air outlet horizontally and vertically.
** Specifications are subject to change without prior notice for product improvement.*

GENERAL DATA

C type panel (50hz)

Model			CDVE-D22G/N1YB	CDVE-D28G/N1YB	CDVE-D36G/N1YB	CDVE-D45G/N1YB	CDVE-D56G/N1YB
Power supply			220/240-1Ph-50Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity		kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
		kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800
		Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	W	28	28	28	45	45
	Heating		28	28	28	45	45
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.2+4.05	0.2+4.25
Airflow rate(H/M/L)		m^3/h	520/480/430	520/480/430	520/480/430	860/755/630	925/860/755
		CFM	306/283/253	306/283/253	306/283/253	506/444/371	544/506/444
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		mm	915×210×290	915×210×290	915×210×290	1,070×210×315	1,070×210×315
Packing dimension(W×H×D)		mm	1,020×300×385	1,020×300×385	1,020×300×385	1,165×285×395	1,165×285×395
Net weight		kg	12	12	12	15	15
Gross weight		kg	16	17.5	17.5	19	18
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping	mm	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Model			CDVE-D22G/DN1YB	CDVE-D28G/DN1YB	CDVE-D36G/DN1YB	CDVE-D45G/DN1YB	CDVE-D56G/DN1YB
Power supply			220/240V-1Ph-50Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity		kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
		kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800
		Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	W	28	28	28	45	45
	Heating		28	28	28	45	45
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.20+4.05	0.20+4.05
Airflow rate(H/M/L)		m^3/h	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
		CFM	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		mm	915×210×290	915×210×290	915×210×290	1,070×210×315	1,070×210×315
Packing dimension(W×H×D)		mm	1,020×300×385	1,020×300×385	1,020×300×385	1,165×285×395	1,165×285×395
Net weight		kg	12	12	12	15	15
Gross weight		kg	17.5	17.5	17.5	19	19
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping	mm	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
3. Sound level is measured 1m below the air outlet horizontally and vertically.
** Specifications are subject to change without prior notice for product improvement.*

GENERAL DATA

R type panel (50Hz)

Model			CDVE-D71G-R3/N1Y	CDVE-D80G-R3/N1Y	CDVE-D90G-R3/N1Y
Power supply			220/240-1Ph-50Hz		
Cooling capacity		kW	7.1	8	9
		kcal/h	6,100	6,900	7,700
		Btu/h	24,200	27,300	30,700
Heating capacity		kW	8	9	10
		kcal/h	6,900	7,700	8,600
		Btu/h	27,300	30,700	34,100
Power input	Cooling	W	75	86	86
	Heating		75	86	86
Rated current	Cooling	A	0.33	0.39	0.39
	Heating		0.33	0.39	0.39
Airflow rate(H/M/L)		m^3/h	1,190/880/680	1,320/840/640	1,320/840/640
		CFM	700/518/400	776/494/376	776/494/376
Sound pressure level(H/M/L)		dB(A)	47/43/42	48/43/38	49/43/38
Refrigerant		Type	R410A		
		Control method	EXV		
Net dimension(W×H×D)		mm	1,250×245×325	1,250×245×325	1,250×245×325
Packing dimension(W×H×D)		mm	1,345×335×430	1,345×335×430	1,345×335×430
Net weight		kg	19.9	19.9	19.9
Gross weight		kg	25	25	25
Piping connections	L(flare)	mm	Φ9.53	Φ 9.53	Φ 9.53
	G(flare)	mm	Φ15.9	Φ 15.9	Φ 15.9
	Drain piping	mm	OD Φ16.5	OD Φ 16.5	OD Φ16.5
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)		

S type panel (60Hz)

Model			CDVE-D22G/N1-S	CDVE-D28G/N1-S	CDVE-D36G/N1-S	CDVE-D45G/N1-S	CDVE-D56G/N1-S
Power supply			220/2040V-1Ph-60Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity		kW	2.4	3.2	4	5	6.3
		kcal/h	2,100	2,800	3,400	4,300	5,400
		Btu/h	8,200	10,900	13,600	17,100	21,500
Power input	Cooling	W	28	28	28	51	51
	Heating		28	28	28	51	51
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14	0.14	0.14	0.2	0.2
Airflow rate(H/M/L)		m^3/h	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
		CFM	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		in.(mm)	36-1/32x9-1/16x11-13/32(915×230×290)			42-7/32 x9-1/16x12-13/32(1072×230×315)	
Packing dimension(W×H×D)		in.(mm)	40-5/32x12-13/32x15-11/32(1020×315×390)			46-15/32×12-13/32×16-11/32(1180×315×415)	
Net weight		lbs.(kg)	28.7(13)	28.7(13)	28.7(13)	33.4(15.1)	33.4(15.1)
Gross weight		lbs.(kg)	37.1(16.8)	37.1(16.8)	37.1(16.8)	43/19.5	43/19.5
Piping connections	L(flare)	in.(mm)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ 1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller			Wireless remote controller(RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft(8m)(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3. Sound level is measured 3.28ft.(1m) below the air out-let both in horizontal and vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

GENERAL DATA

S type panel (60Hz)

Model			CDVE-D22G/DN1-S	CDVE-D28G/DN1-S	CDVE-D36G/DN1-S	CDVE-D45G/DN1-S	CDVE-D56G/DN1-S
Power supply			220/240-1Ph-60Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,500	12,300	15,400	19,100
Heating capacity		kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
		kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800
		Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17100+3100	21,500+3,100
Power input	Cooling	W	28	28	28	51	51
	Heating		28	28	28	51	51
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.20+4.05	0.20+4.05
Airflow rate(H/M/L)		m^3/h	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
		CFM	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		in.(mm)	36-1/32x9-1/16x11-13/32(915×230×290)			42-7/32 x9-1/16x12-13/32(1072×230×315)	
Packing dimension(W×H×D)		in.(mm)	40-5/32x12-13/32x15-11/32(1020×315×390)			46-15/32×12-13/32×16-11/32(1180×315×415)	
Net weight		lbs.(kg)	29.3(13.3)	29.3(13.3)	29.3(13.3)	34.2(15.5)	34.2(15.5)
Gross weight		lbs.(kg)	37.7(17.1)	37.7(17.1)	37.7(17.1)	43.9(19.9)	43.9(19.9)
Piping connections	L(flare)	in.(mm)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ 1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

C type panel (60Hz)

Model			CDVE-D22G/N1YB	CDVE-D28G/N1YB	CDVE-D36G/N1YB	CDVE-D45G/N1YB	CDVE-D56G/N1YB
Power supply			220~240V-1Ph-60Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity		kW	2.4	3.2	4	5	6.3
		kcal/h	2,200	2,800	3,400	4,300	5,400
		Btu/h	8,900	10,900	13,600	17,100	21,500
Power input	Cooling	W	28	28	28	45	45
	Heating		28	28	28	45	45
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14	0.14	0.14	0.2	0.2
Airflow rate(H/M/L)		m^3/h	557/520/467	557/520/467	557/520/467	842/722/597	842/722/597
		CFM	328/306/275	328/306/275	328/306/275	496/425/351	496/425/351
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		in.(mm)	36-1/32x8-9/32x11-13/32(915×210×290)			42-7/32×8-9/32×12-13/32(1070×210×315)	
Packing dimension(W×H×D)		in.(mm)	40-5/32×11-13/16×15-5/32(1020×300×385)			45-7/8x11-7/32x15-9/16(1165x285×395)	
Net weight		lbs.(kg)	26.5(12)	26.5(12)	26.5(12)	33.1(15)	33.1(15)
Gross weight		lbs.(kg)	38.6(17.5)	38.6(17.5)	38.6(17.5)	41.9(19)	39.7(18)
Piping connections	L(flare)	in.(mm)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ 1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft(8m)(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3. Sound level is measured 3.28ft.(1m) below the air out-let both in horizontal and vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

GENERAL DATA

C type panel (60Hz)

Model			CDVE-D22G/DN1YB	CDVE-D28G/DN1YB	CDVE-D36G/DN1YB	CDVE-D45G/DN1YB	CDVE-D56G/DN1YB
Power supply			220/240V-1Ph-60Hz				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity		kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
		kcal/h	2,200+600	2,800+600	3,400+600	4,300+800	5,400+800
		Btu/h	8,900+2600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	W	28	28	28	45	45
	Heating		28	28	28	45	45
Rated current	Cooling	A	0.14	0.14	0.14	0.2	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.2+4.05	0.2+4.25
Airflow rate(H/M/L)		m^3/h	557/520/467	557/520/467	557/520/467	842/722/597	842/722/597
		CFM	328/306/275	328/306/275	328/306/275	496/425/351	496/425/351
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(W×H×D)		in.(mm)	36-1/32x8-9/32x11-13/32(915×210×290)			42-7/32×8-9/32×12-13/32(1070×210×315)	
Packing dimension(W×H×D)		in.(mm)	40-5/32×11-13/16×15-5/32(1020×300×385)			45-7/8x11-7/32x15-9/16(1165x285×395)	
Net weight		lbs.(kg)	26.5(12)	26.5(12)	26.5(12)	33.1(15)	33.1(15)
Gross weight		lbs.(kg)	38.6(17.5)	38.6(17.5)	38.6(17.5)	41.9(19)	41.9(19)
Piping connections	L(flare)	in.(mm)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 1/4(Φ6.35)	Φ 3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ 1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

R type panel (60Hz)

Model			CDVE-D71G-R3/QN1Y	CDVE-D80G-R3/QN1Y	CDVE-D90G-R3/QN1Y
Power supply			220/240V-1Ph-60Hz		
Cooling capacity		kW	7.1	8	9
		kcal/h	6,100	6,900	7,700
		Btu/h	24,200	27,300	30,700
Heating capacity		kW	8	9	10
		kcal/h	6,900	7,700	8,600
		Btu/h	27,300	30,700	34,100
Power input	Cooling	W	79	95	95
	Heating		79	95	95
Rated current	Cooling	A	0.33	0.39	0.39
	Heating		0.33	0.39	0.39
Airflow rate(H/M/L)		m^3/h	1,190/880/680	1,320/840/640	1,320/840/640
		CFM	700/518/400	776/494/376	776/494/376
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/43/38	49/43/38
Refrigerant		Type	R410A		
		Control method	EXV		
Net dimension(W×H×D)		in.(mm)	49-7/32×9-41/64×12-51/64(1250×245×325)		
Packing dimension(W×H×D)		in.(mm)	52-61/64×13-3/16×16-59/64(1345×335×430)		
Net weight		lbs.(kg)	43.8(19.9)		
Gross weight		lbs.(kg)	55.1(25)		
Piping connections	L(flare)	in.(mm)	Φ 3/8(Φ9.53)		
	G(flare)	in.(mm)	Φ5/8(Φ15.9)		
	Drain piping	in.(mm)	OD 21/32(Φ16.5)		
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)		

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft(8m)(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3. Sound level is measured 3.28ft.(1m) below the air out-let both in horizontal and vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

COOLEX

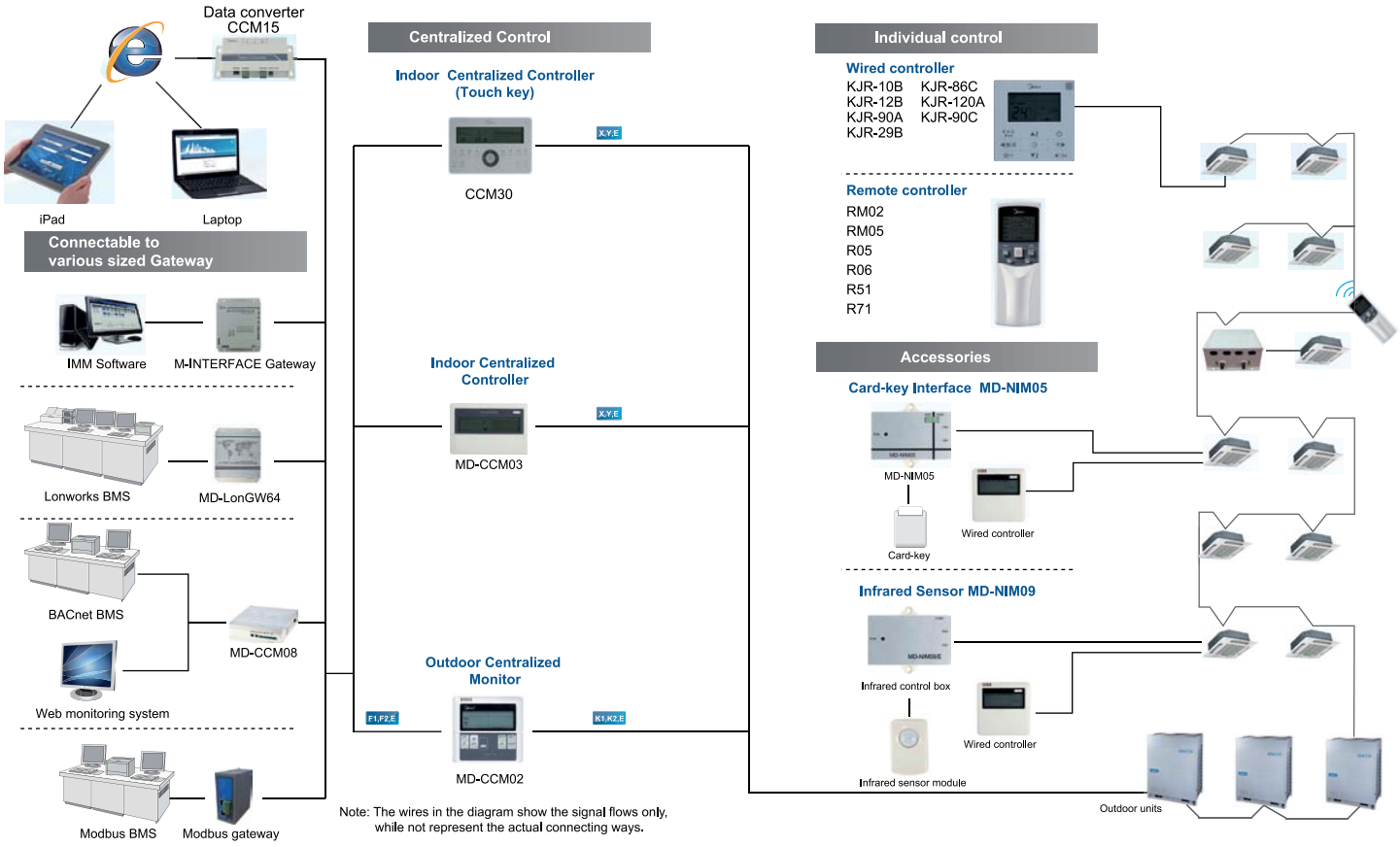
GENERAL DATA

D type panel

Model			CDVE-D22G /N1Y-11D5	CDVE-D28G /N1Y-11D5	CDVE-D36G /N1Y-11D5	CDVE-D45G /N1Y-11D5	CDVE-D56G /N1Y-11D5	CDVE-D71G /N1Y-11D5
Power supply			220/240-1Ph-50Hz					
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
		kcal/h	1900	2400	3100	3900	4800	6100
		Btu/h	7500	9600	12300	15400	19100	24200
Heating capacity		kW	2.4	3.2	4	5	6.3	8
		kcal/h	2100	2800	3400	4300	5400	6900
		Btu/h	8200	10900	13600	17100	21500	27300
Rated input	Cooling	W	25	29.9	38.7	42.1	61.7	79
	Heating		25	29.9	38.7	42.1	0.3	0.35
Rated current	Cooling	A	0.13	0.15	0.18	0.21	61.7	79
	Heating		0.13	0.15	0.18	0.21	0.3	0.35
Airflow rate(H/M/L)		m^3/h	367/295/263	491/403/341	576/419/360	724/511/436	1,056/883/741	1,182/842/702
		CFM	216/174/155	289/237/201	339/247/212	426/301/257	622/520/436	696/496/413
Sound pressure level(H/M/L)		dB(A)	33/31/28	33/31/28	33/31/28	38/36/32	38/36/32	43/41/38
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(W×H×D)	mm	680×180×255	770×190×255	770×190×255	905×205×275	1,030×220×315	1,030×220×315
	Gross dim.(W×H×D)		885×310×395	975×310×395	975×310×395	1,110×310×395	1,240×310×415	1,240×310×415
	Net/Gross	kg	6.5/11.9	7.4/12.8	7.4/12.8	9.1/14.7	12.9/19.2	12.9/19.2
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)					

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temp. : 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. piping: 26.25ft(8m)(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3. Sound level is measured 3.28ft.(1m) below the air out-let both in horizontal and vertical distance.
** Specifications are subject to change without prior notice for product improvement.*

CONTROL SYSTEMS



COMPARISON OF CONTROLLERS

Item		Remote controller			Wired Controller				Centralized Controller		
Item		RM05/ RM02	R51/ R71	R05/ R06	KJR-10B /KJR-12B	KJR120A	KJR-90A /KJR-86C	KJR-29B KJR-90C	CCM30/ MDCCM03	MD-CCM09	KJR-90B
MAX. controllable IDU		/			1	1	1	1	64	64	16
A/C control function	On/Off	○	○	○	○	○	○	○	○	○	○
	Operation mode setting	○	○	○	○	○	○	○	○	○	○
	Fan speed setting	○	○	○	○	○	○	○	○	○	—
	Room temp. setting	○	○	○	○	○	○	○	○	○	—
	Vertical swing	○	○/—	○/—	—	—	—	—	—	—	—
	Horizontal swing	○	○	○	○	○	○/—	○	○	○	—
	Air direction	○/—	—/○	○	—	—	—	—	—	—	—
	Economic mode	○	○	○/—	○	○	—	—	—	—	—
	Central setting	—	—	—	—	—	—	—	○	○	○
	Keyboard lock	○	○/	○	○	○	—	○	○	○	—
	Mode lock	—	—	—	—	—	—	—	○	○	—
	Remote signal receiving	—	—	—	—	—	—	○	—	—	—
	26°C shortcut setting	—/○	—	—	—	—	—/○	—	—	—	—
	Silent mode	—	—	—	—	—	—	○	—	—	—
Display	Backlight	○	○/—	○	○/—	○	—/○	○	○	○	○
	Current time	○/—	—	○	○/—	○	○/—	—	—	○	—
	RC prohibition	—	—	—	—	—	—	—	○	○	—
	Address	—	—	—	—	—	—	—	○	○	—
	Error code	—	—	—	—	○	—	—	○	○	—
	Room temp.	—	—	—	—	—	—/○	—	—	—	—
Timer	Period	—	—	—	—	—	—	—	—	Week	—
	On/Off per day	—	—	—	—	—	—	—	—	4	—
	On/Off per week	—	—	—	—	—	—	—	—	28	—
	On/Off timer	○	○	○	○	○	○/—	○	○	○	—
Control	FOLLOW ME	—/○	—	—	—/○	—	—	○	—	—	—
	Emergent stop	—	—	—	—	—	—	—	○	—	—
	Emergent start	—	—	—	—	—	—	—	○	—	—
	Address setting	○	—	—	—	—	—	○	—	—	—
	BMS access	—	—	—	—	—	—	—	○	—	—
	Control via internet	—	—	—	—	—	—	—	○	—	—
	Air filter cleaning reminding	—	—	—	○/—	○	—	○	○/—	—	—

Notes:

○ : *Available controller functions*

▭ : *Not available controller functions*

COOLEX

WIRELESS REMOTE CONTROLLER

RM02

RM05

R05

R06

R51

R71

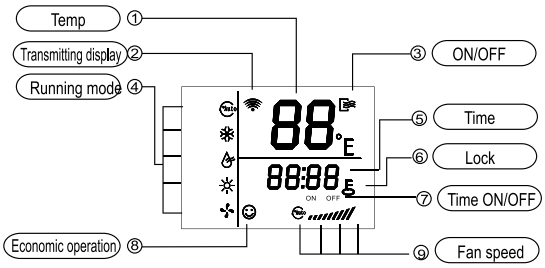
Functions

Portable device

The wireless remote controller is a portable control device that enables users to control the A/C anywhere within a distance of 11m.

Simplified user interface

Users can synchronize the air conditioners' parameters with the display panel on the wireless remote controller to precisely control a room's environment.



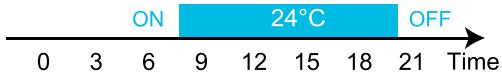
Background light

The background light allows users to operate the device in a dark room. The device lights up when a button is pressed, and turns off when a given operation is completed.

*The follow me function is available for RM02

Built-in timer

The built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



The indoor unit is set to work in automode from 8:00 to 20:00

Setting addresses

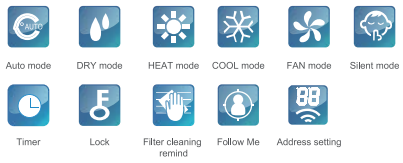
Besides the machine' s auto addressing function, users can set the indoor unit' s address on the wireless remote controller RM05/RM02.

Model	RM02	RM05	R05	R06	R51	R71
Dimensions (H×W×D)(mm)	150x60x15	150x65x20	150x65x20	100x55x20	140x60x15	125x42x27
Power (V)	1.5V(LR03/AAA)×2					

WIRED CONTROLLER

KJR-29B

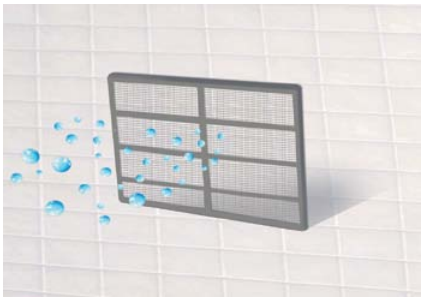
KJR-90C



Functions

Air filter cleaning reminding

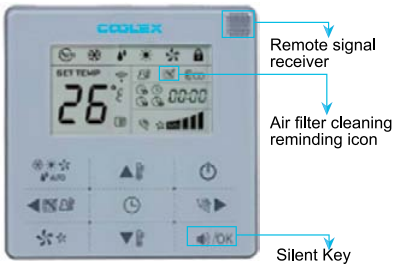
The wired controller records the total running time of the indoor unit. When the accumulated running time reaches the pre-set value, it will remind users need to clean the air filter of the indoor unit.
Clean the filter regularly can keep indoor air fresh and clean, good for your health.



*Available for KJR-10B/KJR-29B/KJR-90C model.

Silent mode

Under the cooling, heating and auto mode,when operate the silent mode, it can reduce the running noise through setting the fan speed to low. This will help you bring a quieter environment.



KJR-29B
(Touch key)

Remote signal receiving function

KJR-29B and KJR-90C provide a signal receiver for remote controller. Signal from remote controller can be received by a wired controller, then sent to the indoor unit and it conveniences to control.

Locking wired controller

The locking function can be used to prevent other people from using the controller.

Model	29B	90C
Dimensions (H×W×D)(mm)	120×120×20	86×86×16.5
Power (V)	DC 5V	

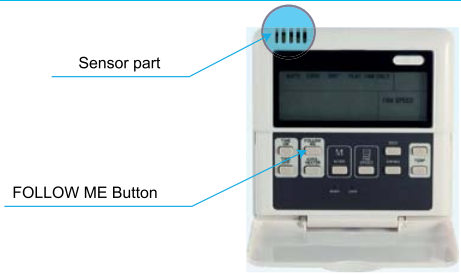
WIRED CONTROLLER

KJR-10B

KJR-12B

Functions

Follow me

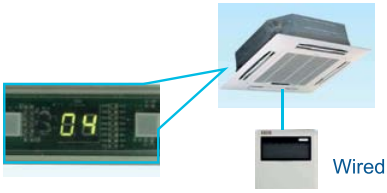


With the FOLLOW ME function, the wired controller can detect the air temperature at the user' s altitude instead that of the ceiling or floor. This helps making the room environment comfortable and the temperature accurate.

*The follow me function is available for KJR-12B/KJR-29B model.

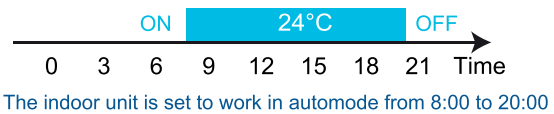
Setting addresses

With the address setting function,and easy for the installation and future service. The service person can set the address for indoor unit by KJR-10B, KJR-29B and KJR-90C.



Built-in timer

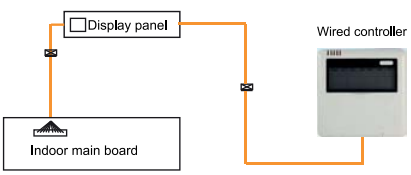
Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



The indoor unit is set to work in automode from 8:00 to 20:00

Easy connection

The wired controller conveniently connects to the indoor unit' s display panel via connecting wire.



Model	10B	12B
Dimensions (H×W×D)(mm)	120×120×15	120×120×15
Power (V)	DC 5V	

WIRED CONTROLLER

KJR-90A

KJR-86C

KJR-120A

Functions

Features

- Small and easy to install
- Suitable for all types of indoor units
- Can be stored in a mounting cabinet

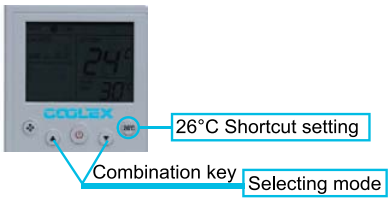
KJR-90A

Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.

Mode setting

Mode-button hidden controller: Press the temperature buttons "▲" and "▼" simultaneously for 3 seconds to select the operation mode: COOL and HEAT. The design is suitable for hotels, hospitals, schools and other similar types of buildings.



KJR-86C

Auto mode

For V4 plus R series used only. Under the auto mode of V4 plus R system, it can automatically switch to COOL or HEAT mode according to the temperature difference value between Tf(indoor temperature) and Ts(setting temperature)

KJR-120A

Model	90A	86C	120A
Dimensions (H×W×D)(mm)	90×86×13	86×86×18	120×120×20
Power (V)	DC 5V		

COOLEX

WIRED CONTROLLER

HRV Wired Controller

KJR-27B

Functions

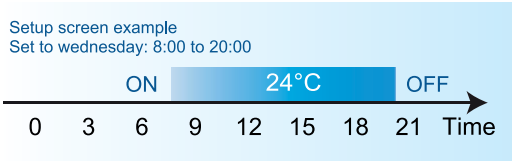
HRV controller

KJR-27B is individually designed for HRV—Heat Recovery Ventilator. The HRV can work in the following modes: exhaust, air supply, bypass, heat exchange, and auto.

AUTO->HEAT EXCHANGE->
EXHAUST->BYPASS->AIR SUPPLY

Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the HRV at the set times.



Model	KJR-27B
Dimensions (H×W×D)(mm)	120×120×15
Power (V)	198-242V(50/60Hz)

Weekly Schedule Controller

MD-CCM04

Functions

Simple disign

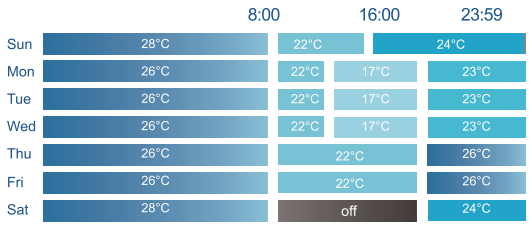
MD-CCM04 can be used as a weekly schedule wired controller or general wired controller. It can query the indoor temperature and the setting parameters of the weekly schedule. It can display the error codes and running state of the indoor unit. With the LCD backlight, and allows users to operation the device in a dark room.

Delay function

The function is specially designed for a person who is working overtime. During the weekly schedule running, press delay button it will delay 1hour or 2 hours to turn off the air conditioner.

Weekly schedule

Users can set up to 4 periods per day, and select the desired running mode and room temperature.

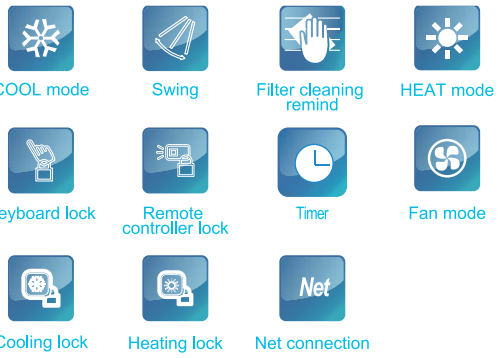


Model	MD-CCM04
Dimensions (H×W×D)(mm)	120×120×15
Power (V)	DC 5V

Indoor Centralized Controller

MD-CCM03

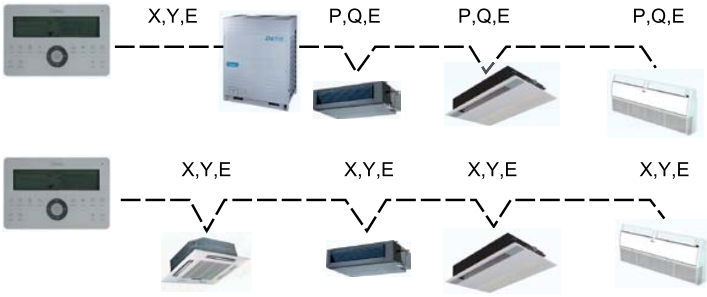
CCM30



Functions

Centralized control

The centralized controller is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1,200m.
The device connects to the master outdoor units of Coolex newly designed products to simplify and centralize the wiring configuration. The two connection modes are as follows:

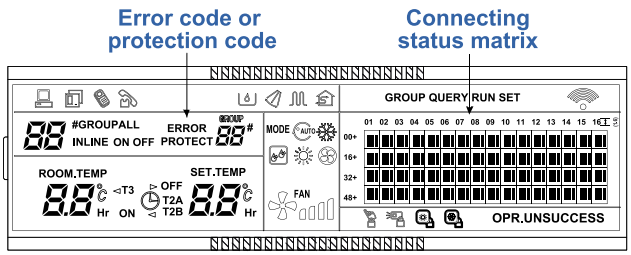


Three lock modes

Centralized controller provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the centralized controller's keyboard as they wish.

Indoor unit working status display

The centralized controller displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.



Air filter cleaning reminding function

The air filter cleaning reminder function is only available on the touch-key central controller CCM30. The "FL" icon indicates that the air filter in a given indoor unit needs cleaning.

CCM30

CENTRALIZED CONTROLLER

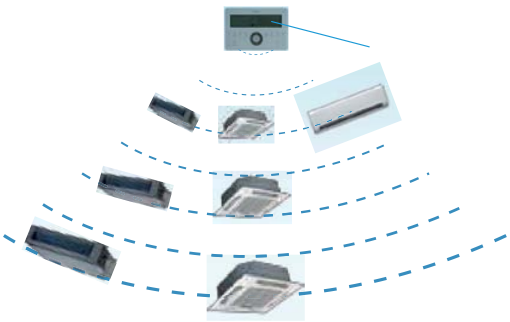
Functions

Stylish design

CCM's stylish design suits high-end environments. The keyboard lock function is used to prevent operational mistakes.

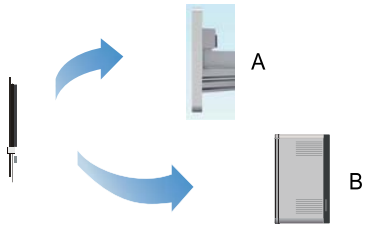
Single/unified control

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.

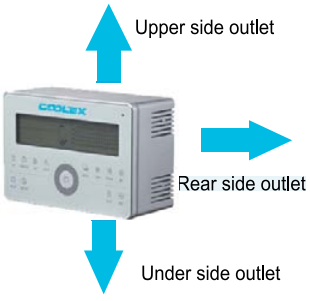


Easy installation

Centralized controller offers two different appearances to mostly suit the installation. The A structure must be embedded into the wall and the B structure doesn't need. Both of them are easy to operate.



*The A,B structure is available for CCM30, and MD-CCM03 only has B structure



B structure leading-out mode sketch

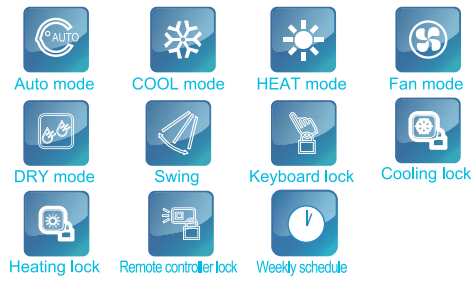
Access to network monitoring

The centralized controller is able to bridge up to 64 indoor units on the network monitoring and building management systems.

Model	MD-CCM03	CCM30
Dimensions (H×W×D)(mm)	179×119×74	180×122×78 and 180×122×68
Power (V)	198-242V(50/60Hz)	

Weekly Schedule Centralized Controller

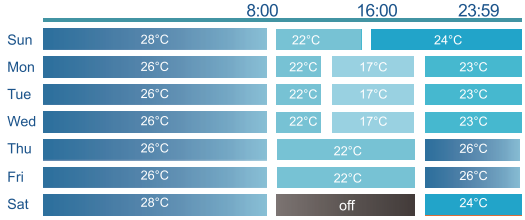
MD-CCM09



Functions

Weekly schedule

MD-CCM09 can include up to 64 indoor units in the weekly schedule. Users can set up to 4 periods per day, and select the desired running mode and room temperature. The operating object can be a single indoor unit or all the indoor units.

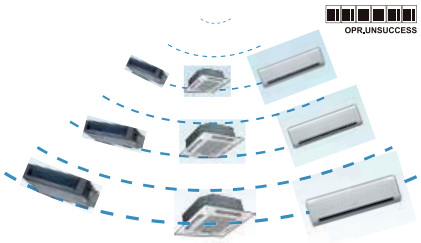


Three lock modes

Centralized controller MD-CCM09 provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the MD-CCM09' s keyboard as they wish.

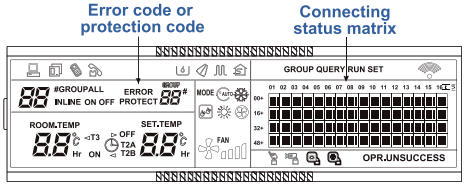
Single/unified control mode

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Indoor unit working status display

MD-CCM09 displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.

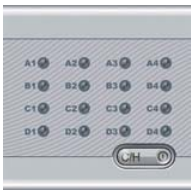


Model	MD-CCM09
Dimensions (H×W×D)(mm)	179×119×74
Power (V)	198-242V(50/60Hz)

Unified On/Off Controller

KJR-90B

Unified controller design with graceful appearance and explicit panel.



Functions

Unified control

KJR-90B offers on/off and heating/cooling functionality for indoor units based on preset temperatures to ensure easy management.

Centralized control

KJR-90B can be used to centrally control up to 16 indoor units.

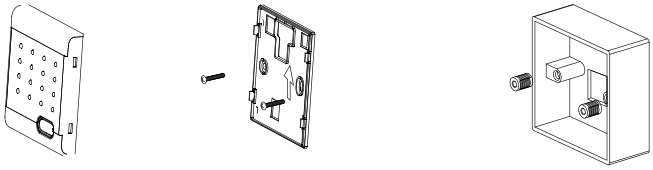
Light indicator

The LEDs on KJR-90B indicate the indoor units' running status for easy fault detection. The lights switch off automatically to save energy once a given operation is complete. The indicators are as follows:

Light	Blue	Red	Flash
Single On/Off Key	Cooling/Fan	Heating	IDU Error
Unified On/Off Key			EEPROM Error

Easy installation

KJR-90B can be easily mounted on the built-in cabinet:



Model	KJR-90B
Dimensions (H×W×D)(mm)	90×86×8
Power (V)	DC 5V

Outdoor Centralized Monitor

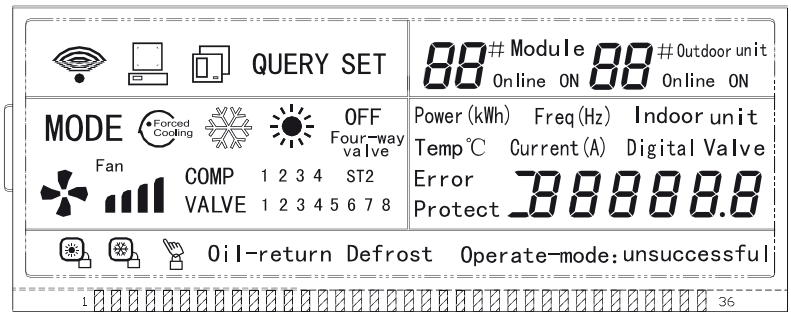
MD-CCM02

Query parameters
4-way/EXV valve
Protection/ Error codes
Power consumption
With the ODU communication
With the PC communication
Forced Cooling

Functions

ODU parameters display

MD-CCM02 enables users to easily check outdoor units' running status, including frequency, temperature, current, pressure, protection codes and error codes.



Graph 2 LCD Screen

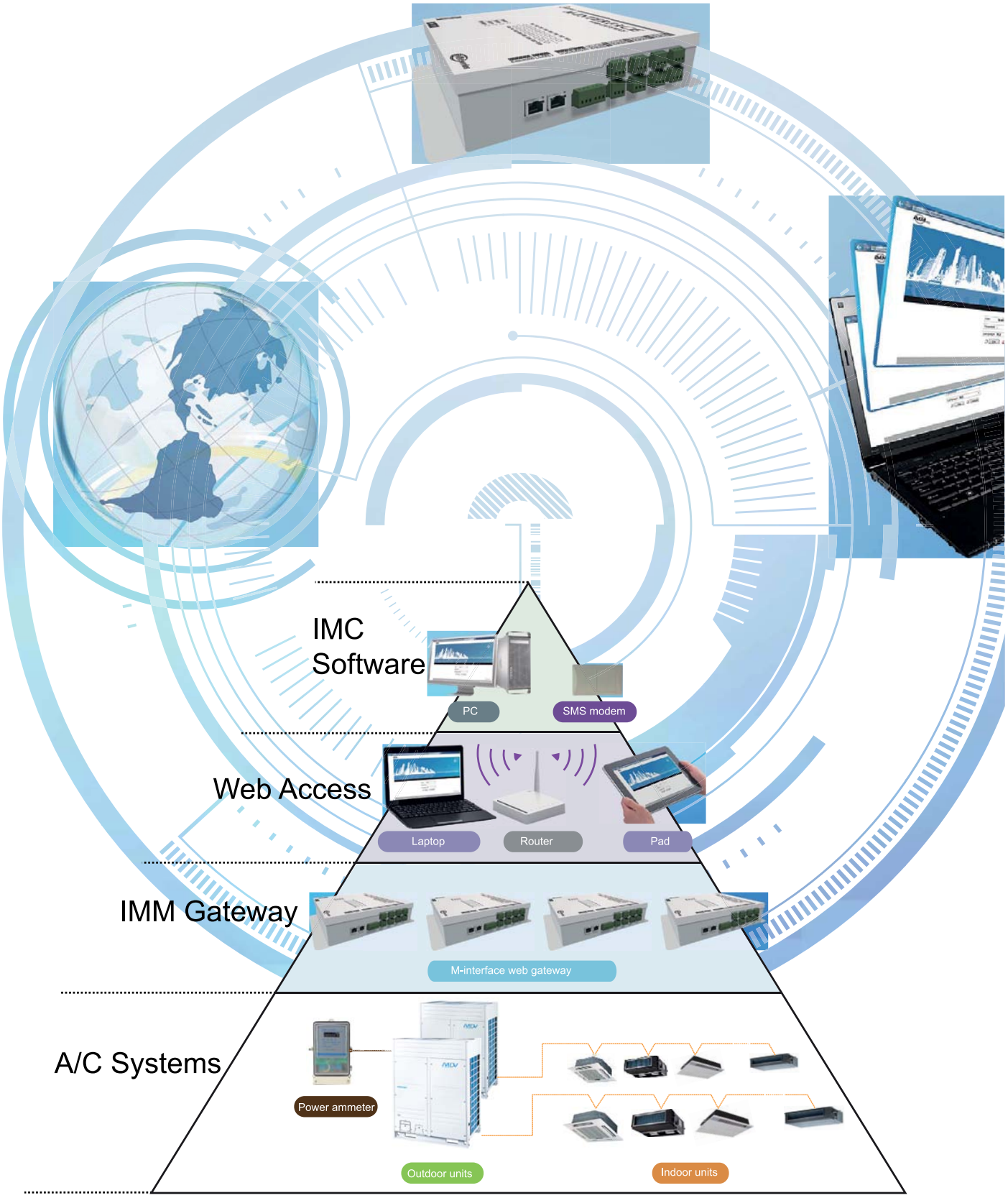
Access to network monitoring

MD-CCM02 can connect up to 8 refrigerant systems and 32 outdoor units to the network system.

Model	MD-CCM02
Dimensions (H×W×D)(mm)	120×120×15
Power (V)	198-242V(50/60Hz)

COOLEX

CENTRAL CONTROL SOFTWARE



Central Control Software

IMC (Intelligent Manager of Coolex)

4th Generation Network Control System

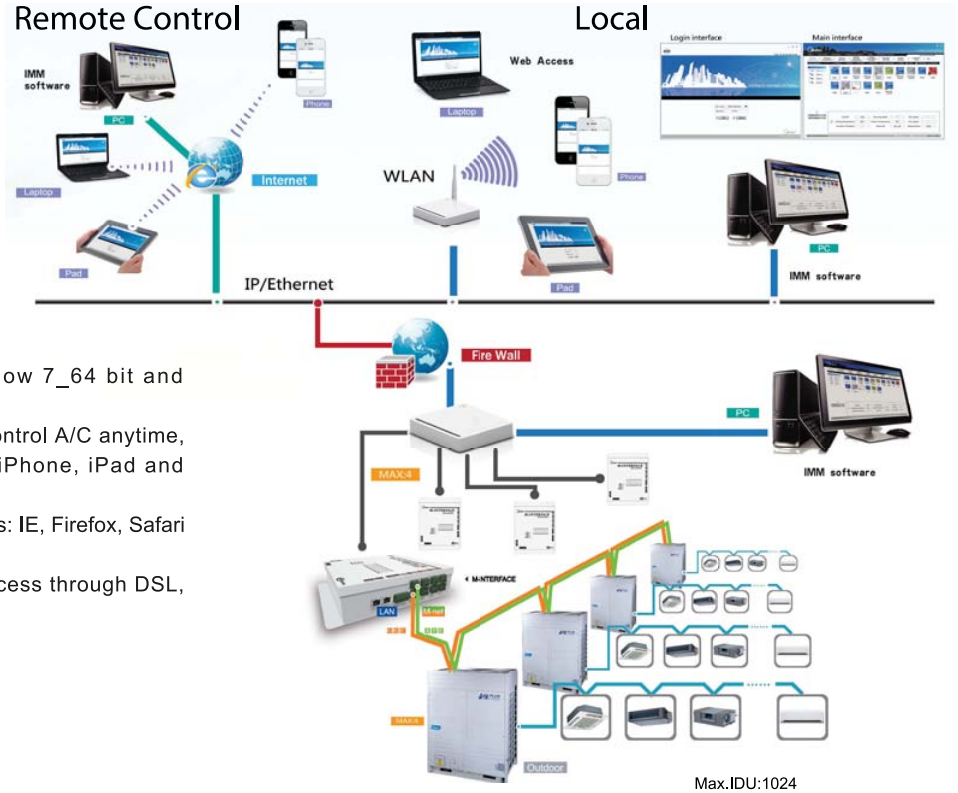
Functions

Intelligent Manager of Coolex,designed specifically to control VRF systems,is based on a centralized format and dedicated to the complete control and monitoring of all the system's functions. It can be used as a flexible multi-purpose system and applied to a variety of needs, according to the scale, purpose and control method of each building.

- Up to 4 M-interfaces, 64 refrigerant systems, 1,024 indoor units, and 256 outdoor units can be controlled by one PC.
- Web Access
- User friendly operation
- Central building monitoring and control
- Energy saving management

  SMS modem (optional)
- Electricity charge distribution
- Annual schedule control
- Low-load operation indicate
- Generate operational history reports (daily, weekly, monthly)
- Fault display & Warning message
- Filter replacement reminder

Network Control Application



- Can run on ,Window 7_64 bit and Window XP_32 bit.
- Can monitor and control A/C anytime, anywhere by PC, iPhone, iPad and notebook computer.
- Support WEB access: IE, Firefox, Safari and Chrome.
- Enables remote access through DSL, VPNs and so on.

Max.IDU:1024

COOLEX

CENTRAL CONTROL SOFTWARE

Various Managements

Simple Operation and Management

Click & operate, a user-friendly interface allows even non-experts to perform the building management system easily.

Data Management

Operational information of individual indoor units are monitored, allowing for distribution of power consumption at outdoor units.
Stores operation data on multiple systems and displays it in graphical format for visual management.
Uses IMC software to generate tenant reports and help building owners bill for energy use.

Electricity Charge Distribution(Patented)

Provides information on proportional electrical power distribution to optimize electricity consumption management.

Uses software to calculate electric power proportional distribution, output and save electricity consumption data for each indoor unit (or group) which is connected to the intelligent manager.
Applies the patented Coolex Calculation Method to calculate consumption rates according to capacity demand which is based on various parameters: setting temperature, room temperature, running mode, rated HP, public areas, unused rooms, and nighttime use; outputs this information on a charge calculation sheet to evenly divide power consumption charges among tenants.

Hightlights

Web Access function

With the web access function, a PC, laptop computer or a smart phone can be used as a remote controller.

Visual Navigation

Clicking the jump button will display a list of all available screens. Clicking the back button will return to the previous screen.

Energy Saving Management

Based on a predetermined schedule, the Intelligent Manager executes capacity control and intermittent operations on all air conditioning units to maintain a high comfort index.

Data Backup

The M-interface will automatically back up data on the installed SD card (2GB) in case system failure occurs, such as: power failure or system dam. IMC software also stores the previous 3 months' operational data on the HDD.

Schedule Control

Automatically performs facility start/stop control, switches the operating mode, sets temperatures and enables/disables the remote control according to the present time schedule. 4 sections and 20 actions per day for each single unit or group.

Multiple Languages

Provides seven language settings:

English	French	Italian
Russian	German	Spanish
Simple Chinese		

Warning Message

The system can receive error messages from air conditioning units in more than one buildings or structures via public phone lines.
*Requires the Midea "SMS Modem" to send automatic warning messages to designated phone numbers.

Electricity Charge Distribution

Electricity charges can be easily divided when billing users for air conditioning power charges; for example, for tenants in a commercial building, offices in a rented building, or rooms in a hotel.

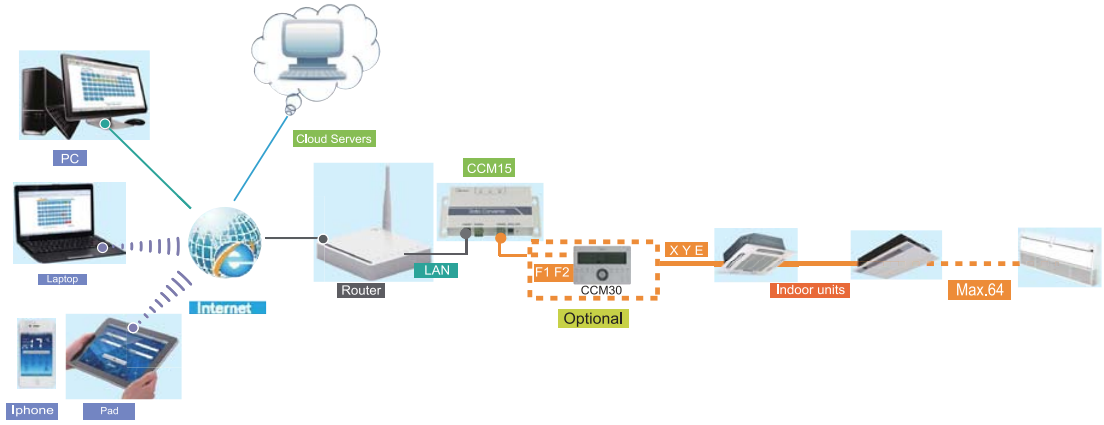
Data converter

CCM15

- Can realize data conversion between TCP/IP protocol and 485 protocol.
- WEB function realizes VRF system's webpage access.
- User can monitor and query the air conditioners through LAN and WAN.
- Providing the TCP / IP port for VRF system of Coolex to achieve WEB/HTTP/TCP/IP access.
- Can remotely control the A/C systems through computer, iPhone, iPad or other intelligent terminals.

Network example

- Can be directly connected with XYE port of the indoor units.
- Up to connect 64 indoor units.
- CCM03/CCM30 is optional and can be connected with CCM15 through F1, F2 and E ports.
- The system consisting A/C system, data converter CCM15, router, cloud server and control terminal.



Simply control interface

- Software control/ Cloud server control (WEB access).
- Click & operate, a user-friendly interface.
- Allows signal and group control.
- Simplified user control interface.
- Colour indication and icon makes it easy to recognize unit state.
- Can full screen display and the temperature can be adjusted by fingers' sliding.

ACCESSORIES

Weekly schedule control

- With weekly schedule function for iPad.
- Multiple sections in each day for single unit or group.
- Automatically performs facility start/stop control, operating mode, setting temperatures and according to the present time schedule.

Web features

- Query and control single unit or group.
- Weekly schedule setting: can set multiple sections in each day for single unit or group.
- Group user control : a user can use the same ID to manage hundreds of CCM15, when selecting the "As group user" button on the login page.
- History error: easy service and management with history error function.

Intelligent control

- The air conditioner remote control can be realized by mobile phone or tablet computer.
- You can query the running state of the air conditioner any time and any where and even make an appointment in advance.
- Can remotely turn off the air conditioner to avoid the power waste, when you are in a hurry to leave.

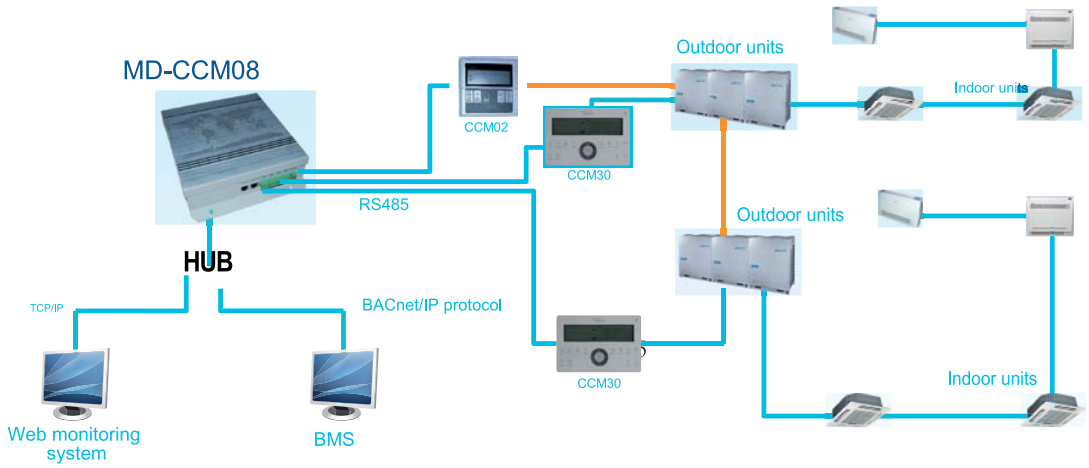
BACnet® BMS Gateway

MD-CCM08

Contains 4 groups of RS485 communication ports and be able to connect up to 256 indoor units or 128 outdoor units to the BMS. Be free to connect to the BMS or not.

Network example

One MD-CCM08 gateway can connect MAX.4 CCM02 or CCM03,and each 485 port only can connect one CCM02 or one CCM03/CCM30.



Monitoring units online

MD-CCM08 allows users to track units' operational status and change their running parameters on Internet Explorer for maximum control convenience

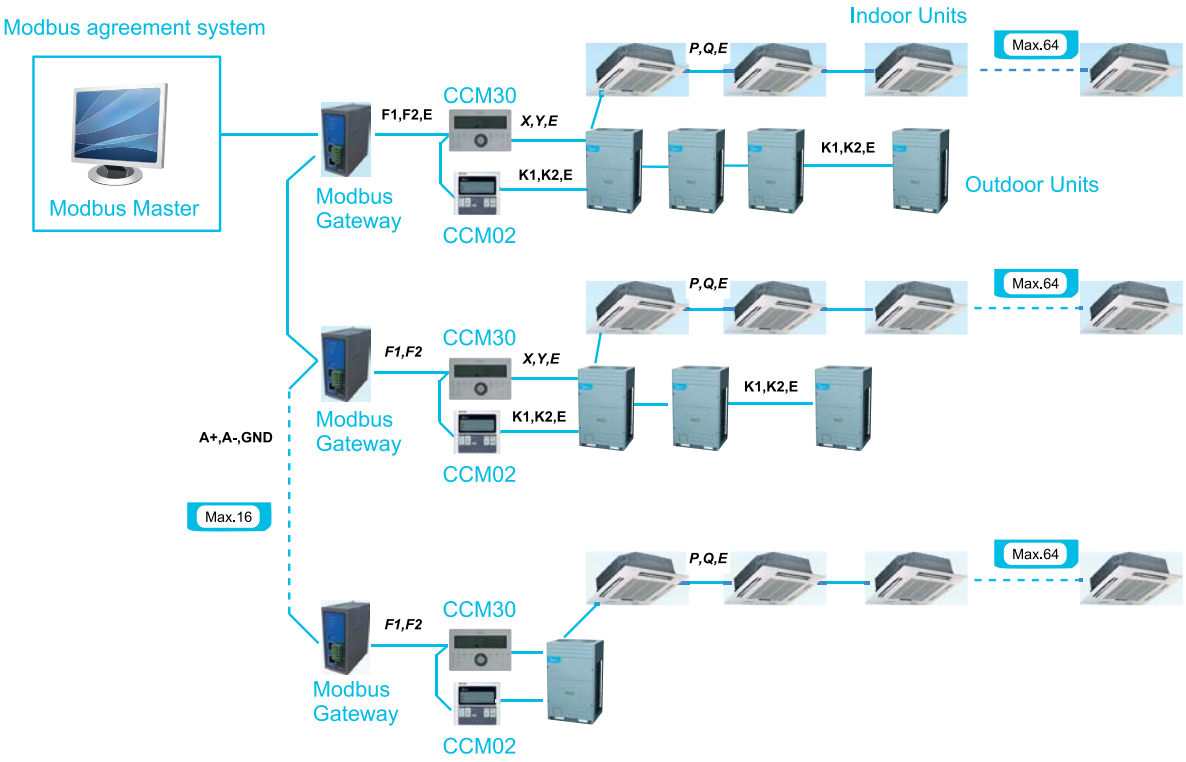
Wide compatibility

CCM08 has a wonderful adaptability to the BMS

Modbus BMS Gateway

Supports Modbus protocol networks
Bridges the Coolex central A/C system and the BMS
Establishes a Modbus network comprising up to 1,024 indoor units and 64 outdoor units
Transfers data in RTU mode
Provides a wide voltage range: 12-48V DC

Network example



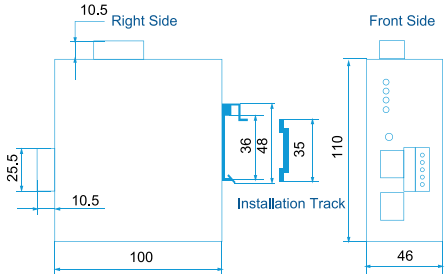
One Modbus gateway can bridge one refrigerant system with a PC or the Modbus master.

Config A/C System via Web

When the Modbus network is set, users can conveniently configure their A/C network system over the Internet using different TCP/IP browsers.

Dimensions

The Modbus Gateway is designed with a small size. It's equipped a installation track for the easy on-site installation.



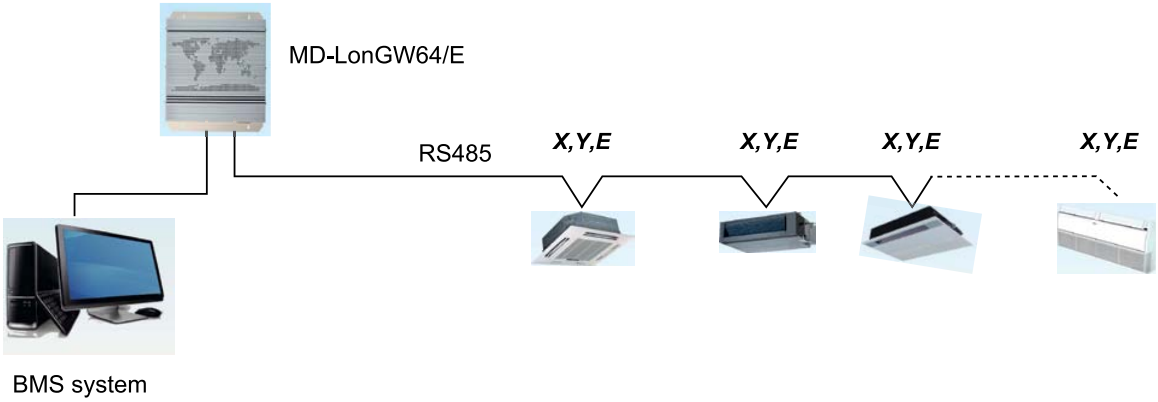
LonWorks® BMS Gateway

MD-LonGW64

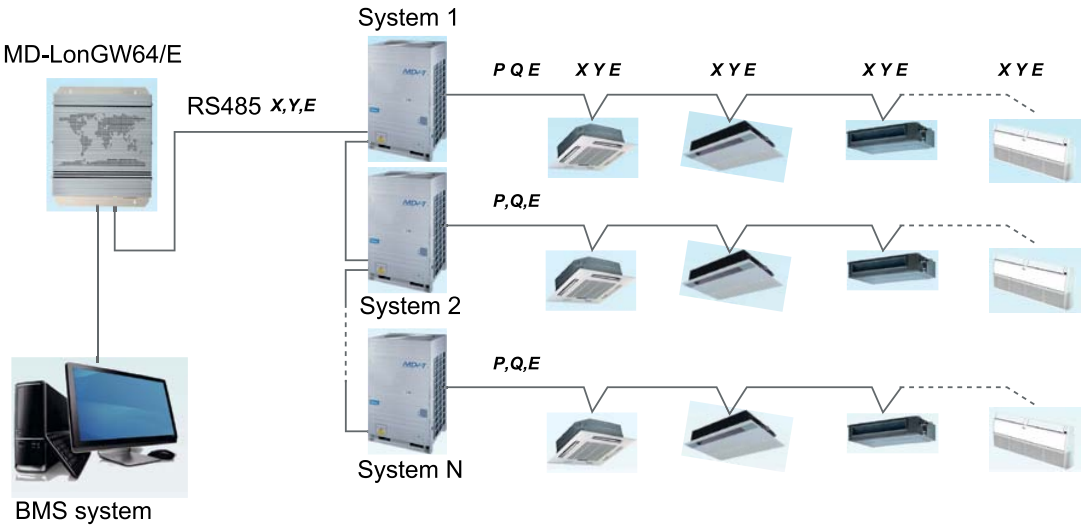
Compliance with LonMark protocol,and realizes the management and control of A/C.
Can connect up to 64 indoor units to the BMS.
Realizes non-polarity communication,and also the application can be download online.

Network example

Connection method 1: Suitable for all of air conditioner systems and connect max.64 indoor units.



Connection method 2: Only suitable for V4 plus system and connect max.64 indoor units.



Model	MD-LonGW64
Dimensions (H×W×D)(mm)	31.9×25.1×6.1
Power (V)	177~265V AC(50Hz/60Hz)

3-Phase Protector

HWUA/DPB71CM48

Detect the power condition and make the corresponding protecting action.
Protect the compressor from being damaged.
Automatically distinguish the abnormal power supply conditions and automatically recover.

HWUA

DPB71CM48

Excellent reliability

The protector protects the entire system from power supply problems, and auto restart after recovery.

Specifications

Model	With over/under voltage function				Without over/under voltage function
	HWUA	DPA53CM23	HWUA	DPB71CM48	DPA51CM44
Power supply (V-Ph-Hz)Temp.	220~480V-3Ph 50/60Hz	208~480V-3Ph 50/60Hz	220~480V-3Ph 50/60Hz	380~480V-3Ph 50/60Hz	208~480V-3Ph 50/60Hz
range(°C)	-20°C~50°C	50Hz: -20°C~60°C 60Hz: -20°C ~50°C	-20°C~50°C	-20°C~50°C	50Hz: -20°C ~60°C 60Hz: -20°C ~50°C
Rated operational power(VA)	2.9 VA	7 VA	2.9 VA	13 VA	13 VA
Over voltage	12%	12%	18%	18%	/
Under voltage	-12%	-12%	-12%	-12%	/
Phase imbalance	8%	/	8%	8%	/
Dimensions(W×H×D)(mm)	90×69×35	81×67.2×17.5	90×69×35	81×67×35	81×67.2×17.5

Digital Power Ammeter

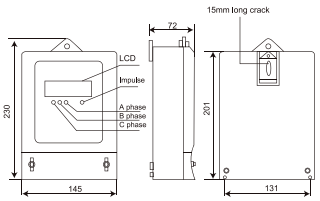
DTS634/DTS636

Calculates power consumption.
Does not need adjusting after long-term use.
Corresponds one outdoor unit to one digital power meter.

Low power consumption

The digital power meter consumes minimal energy.
Voltage circuit: less than 2W/10VA
Current circuit: less than 2.5VA

Indications and installation



The digital power meter is tested after manufacture so it can be immediately deployment and used on-site. The LED indicators and installation schematic are shown in the figure on the left.

Model	DTS634/DTS636
Dimensions (H×W×D)(mm)	230×145×72
Power (V)	200V-500V(50/60Hz)

ACCESSORIES

Remote Alarm Controller

KJR-32B

Functions

Simple design

KJR-32B is specially designed for engineering applications. It does not display the ODU's working parameters, but it can connect to the alarm device when ODU is working abnormally, the RUN light will flash.

Model	KJR-32B
Dimensions (H×W×D)(mm)	150×85×70
Power (V)	198-242V(50/60Hz)

Indoor Unit Group Controller

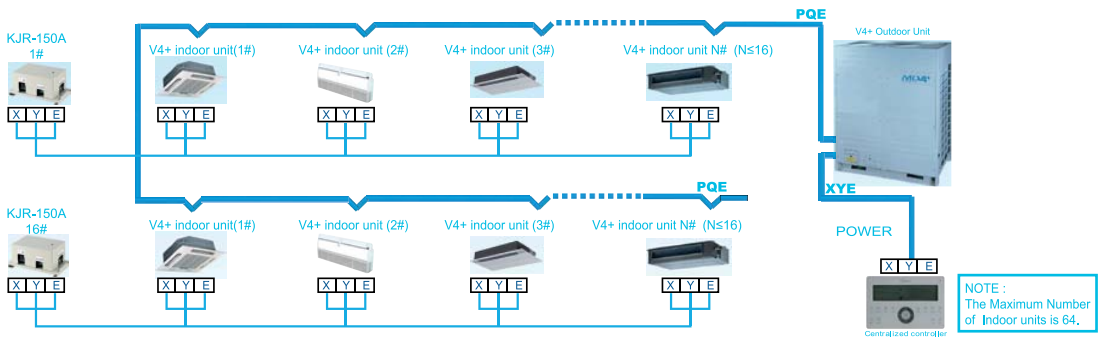
KJR-150A

Functions

Simple design

KJR-150A is specially designed for V4 plus indoor units. A group controller can connect up to 16 V4 plus indoor units through X1, Y1 and E terminals, but it cannot directly connect to the central controller. If you need to use a central controller or a PC, you can connect to the XYE from an outdoor unit. A group controller can control a group of indoor units simultaneously, and query the running status of each unit in the group via the display panel.

System wiring diagram



Model	KJR-150A
Dimensions (H×W×D)(mm)	150×85×70
Power (V)	198-242V(50/60Hz)

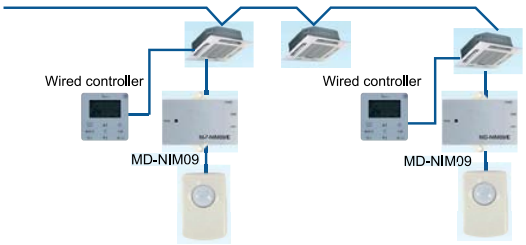
ACCESSORIES

Infrared sensor controller

MD-NIM09

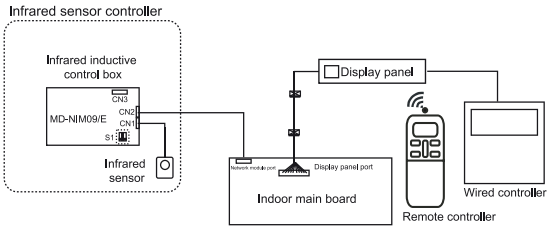
Automatically adjust the room environment.
Automatically extend the shutting down time, avoiding frequent ON/OFF.
Graceful appearance accommodates itself to different buildings.

Installation example



MD-NIM09 works together with the wired controller.

Electrical wiring

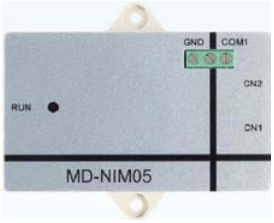


Model	MD-NIM09
Dimensions (H×W×D)(mm)	Senor part: 46×30×25.6, Control box: 86×72.8×15.5
Power (V)	DC 5V

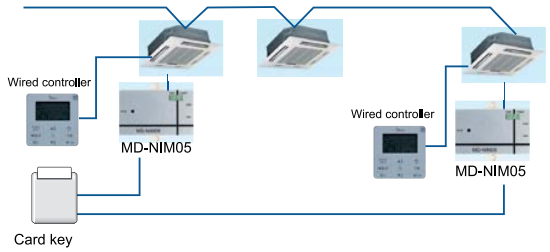
Hotel Card Key Interface Module

MD-NIM05

Cooperate with the wired controller to automate control.
Eliminates the need for high voltage power, making the device safe and steady.
Includes a build-in auto-restart function.

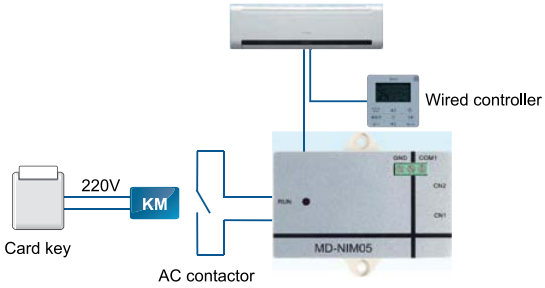


Installation example



Wired controller is necessary in this card-key system.

Electrical wiring



Model	MD-NIM05
Dimensions (H×W×D)(mm)	86×72.8×15.5
Power (V)	DC 5V

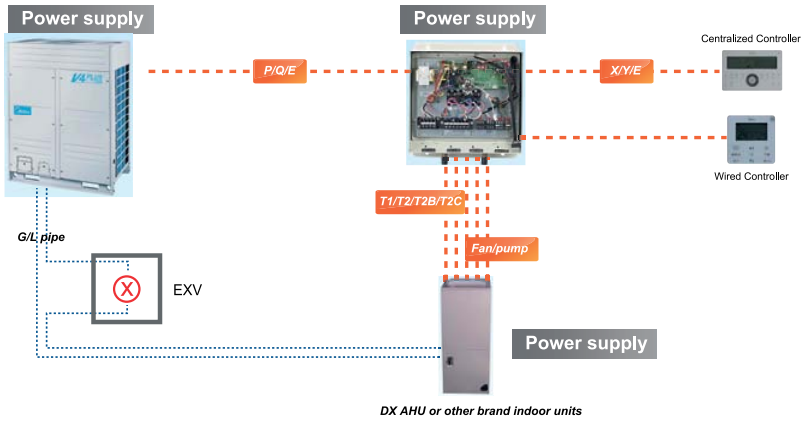
AHU Control Box

AHUKZ-01A/AHUKZ-02A/AHUKZ-03A

V4+ functions inside.
Can be used to connect VRF outdoor units with DX AHU or other brand indoor units

Introduction

AHUKZ-01A/AHUKZ-02A/AHUKZ-03A is an independent control box that can connect a AHU to V4 plus system to realize centralized control with V4 plus system. Control box wiring is as follows:



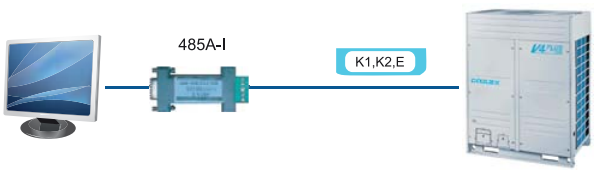
Model	AHUKZ-01A/AHUKZ-02A/AHUKZ-03A
Dimensions (H×W×D)(mm)	335×375×150
Power (V)	220-240V~ 50Hz 208-230V~ 60Hz

Coolex Outdoor Unit Diagnosis Software MCAC-DIAG/E

Display the outdoor units' real-time running conditions.
Automatically outputs running status charts.
Supports V3, V4, V4+, D3, D4 outdoor units.

Wiring diagram

The diagnostic software applies to K1, K2, E of the outdoor units. The corresponding wiring diagram is shown in the figure on the right.



Recommended config

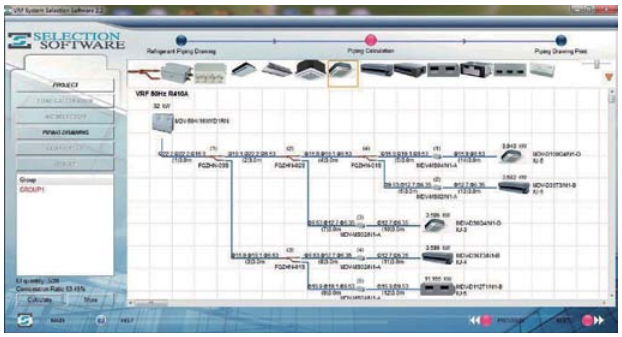
Operating system	WIN XP SP4/WIN 7
CPU	Pentium 4 2G or above
HDD	30G free space
Interface port	RS-232 terminal

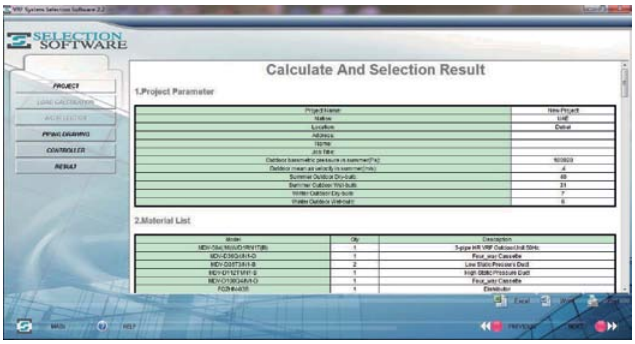
Selection software

To meet consultants' and distributors' requirements, Coolex has developed an advanced design automation tool that can be used in AutoCAD-based CAD version or Windows-based Sales version. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves the selection process.

Windows Version

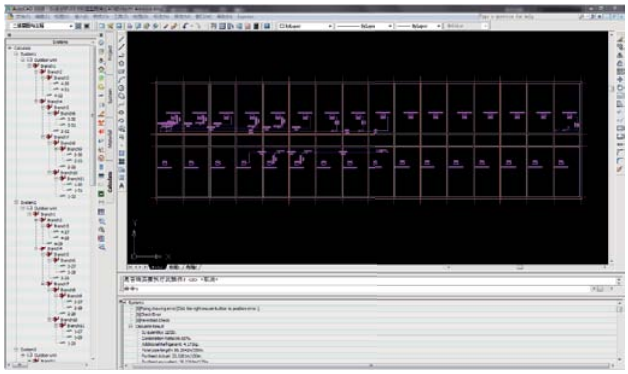
Load calculation: Provides two calculation methods (detailed room load calculation and rough load calculation).
Indoor & outdoor units selection: There are versatile indoor units and different outdoor units for choosing.
Piping drawing: Displays the detailed layout of an A/C system and the parameters for piping and branch distributors.
Controller selection: Provides a selection of controllers for indoor units and outdoor units, including wireless and remote controllers for indoor units.
Report output: Outputs a comprehensive selection report as a Word or PDF document.

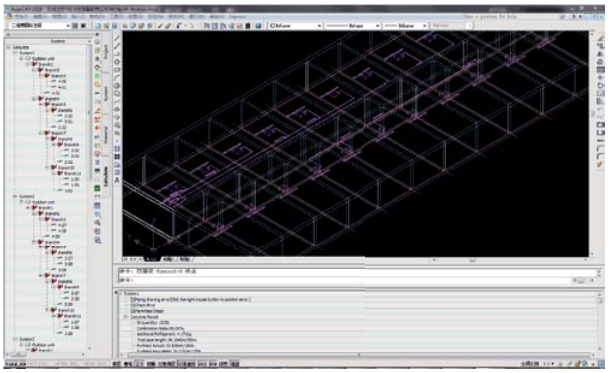




CAD Version

AutoCAD add-on software
Automatic Calculation: Refrigerant & drain pipe size
Automatic Selection: Distributor kit & branch joint
System Check: Installation regulation & refrigerant addition
Automatic Report: Piping installation diagram, equipment list & quotation





COOLEX

HEAT RECOVERY VENTILATOR

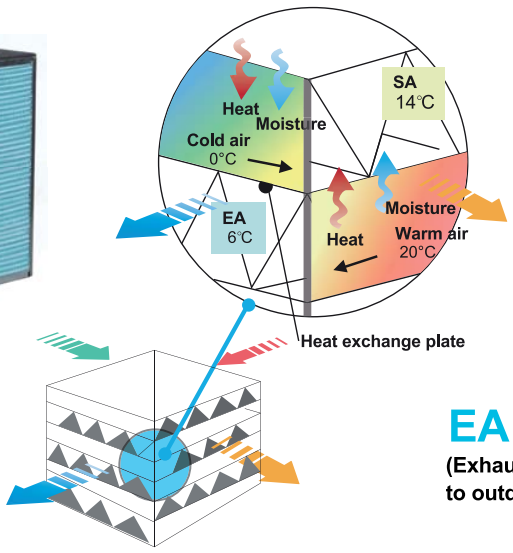
Larger air supply rate
enhanced heat exchange efficiency
enhanced energy saving property

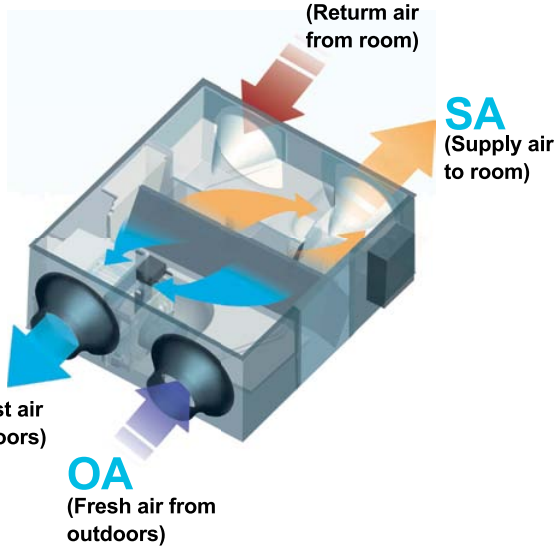
The heat recovery ventilator (HRV) can reclaim heat energy lost through ventilation and reduce the room temperature fluctuation caused by ventilation process. By utilizing the most advanced technology and technics, Midea HRV has extremely good performance. The heat exchanged core is made of special paper processed with chemical treatment, which could realize better temperature and humidity control of the room environment. Temperature exchange efficiency is above 65% and enthalpy exchange efficiency between 50-65%.

Model Names

HRV-200 HRV-500
HRV-300 HRV-800
HRV-400 HRV-1000

HRV-1500 HRV-2000



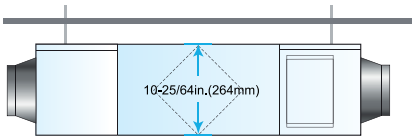


Low noise

Sound proof material is used to guarantee quiet operation.

Compact design, flexible installation and easy maintenance

With a min. height of only 10-25/64in.(264mm) and 50lbs (23kg) weight, the unit provides best convenience and possibility for installation in limited spaces.

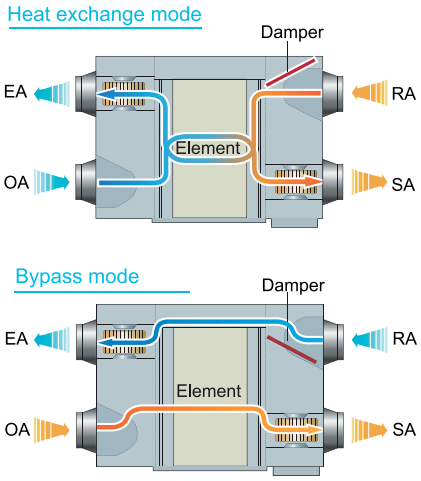


HEAT RECOVERY VENTILATOR

Multi-modes for different situations

Heat exchange mode

When air flow formed by the fans goes through the heat exchanged core in cross way, due to temperature difference between two channels of the core, thermal transmission happens naturally.
In summer days, high temperature outdoor air gets cooled by indoor exhaust air; in winter, low temperature outdoor air gets heated by indoor exhaust air. So the energy contained in exhaust air can be reclaimed and energy efficiency gets improved.



Bypass mode

In mild climate areas or seasons, when temperature and humidity level difference between indoor and outdoor is small, the unit works as conventional ventilation fan. Both supply fan and exhaust fan works at the same speed (Hi/mid/low/auto).

Air supply mode

It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

Exhaust air mode

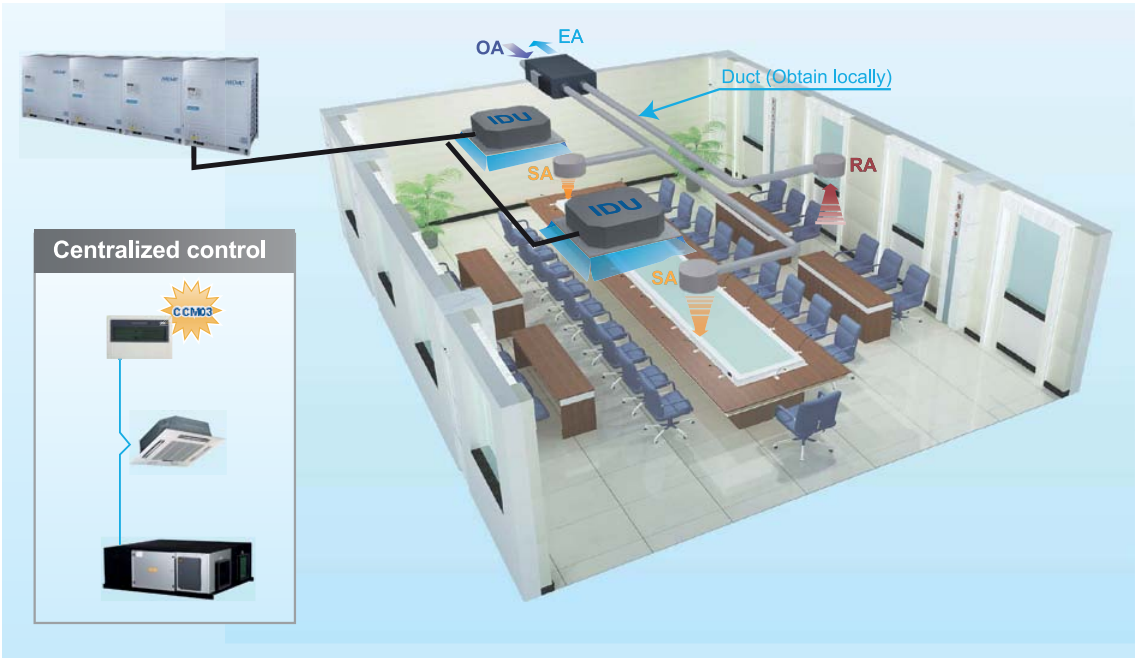
It is also one kind of bypass mode with exhaust fan speed higher than air supply fan speed. It can be used in mild climate area where large amount exhaust air needs to be expelled.

Auto mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoor and indoor temperature. Both the two fans work at low speed.

Flexible control

Interlocking control with other indoor units by controller is possible.



COOLEX

HEAT RECOVERY VENTILATOR

Specifications

Model				HRV-200	HRV-300	HRV-400	HRV-500
Power supply			V/Ph/Hz	220-240/1/50		220-240/1/50-60	
Temperature exchange efficiency (%)		High	%	65	65	65	65
		Medium	%	65	65	65	65
		Low	%	70	70	70	70
Enthalpy exchange efficiency (%)	For cooling	High	%	50	50	50	50
		Medium	%	50	50	50	50
		Low	%	55	55	55	55
	For heating	High	%	55	55	60	60
		Medium	%	55	55	60	60
		Low	%	60	60	65	65
Sound pressure level	Heat exchange mode	High	dB(A)	27	30	32	35
		Medium	dB(A)	26	29	31	34
		Low	dB(A)	20	23	25	28
	Bypass mode	High	dB(A)	28	31	33	36
		Medium	dB(A)	27	30	32	35
		Low	dB(A)	22	25	27	30
Net dimension (W×D×H)			mm	866×655×264	944×722×270	944×927×270	1038×1026×270
			inch	34-1/8×25-3/4×10-3/8	37-3/16×	37-3/16×36-1/2×10-5/8	40-7/8×40-3/8×10-5/8
Packing size (W×D×H)			mm	930×730×445	1010×800×450	1010×1010×450	1120×1120×452
			inch	36-5/8×28-3/4×17-1/2	39-3/4×31-1/2×17-3/4	39-3/4×39-3/4×17-3/4	44-1/8×44-1/8×17-13/16
Net/gross weight			kg(lbs)	23/40(50.6/88)	26/44(57.2/96.8)	31/52(68.3/114.4)	41/64(90.4/140.8)
Casing				Galvanized steel plate			
Heat exchange system				Air to air cross flow total heat (sensible heat + latent heat) exchange			
Heat exchange element material				Specially processed nonflammable paper			
Fan	Type			Centrifugal fan			
	For cooling	High	m3/h(CFM)	117.7	176.6	400(235.6)	500(294.5)
		Medium	m3/h(CFM)	200(117.7)	300(117.7)	400(235.6)	500(294.5)
		Low	m3/h(CFM)	150(88.29)	225(132.4)	300(176.7)	375(220.8)
	For heating	High	Pa	75	75	80	80
		Medium	Pa	58	60	65	68
		Low	Pa	35	40	43	45
	Motor output		W	20	40	80	120
Duct diameter			mm(in.)	Φ144(5-11/16)	Φ144(5-11/16)	Φ144(5-11/16)	Φ194(7-5/8)
Operating temperature range			℃	-7~43 DB, 80% RH or less			
			℉	19.4~109.4 DB, 80% RH or less			

Note:
1. For the units model of HRV (400-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but for the units model of HRV (1500-2000), there are only 1-speed which cannot be adjusted.
2. Sound level is measured at 1.4m below the center of the body in an anechoic chamber.
3. Temperature Exchange Efficiency is the mean value between cooling and heating.
4. Efficiency is measured under the following conditions:
** Cooling Condition: Air Exhaust Temp. 27℃(80.6℉) DB,19.5℃(67.1℉) WB., Fresh Air Temp. 35℃(95oF) DB,28℃(82.4℉) WB.*
** Heating Condition: Air Exhaust Temp. 21℃(69.8℉) DB,13℃(55.4℉) WB., Fresh Air Temp. 5℃(41℉) DB,2℃(35.6℉) WB.*

COOLEX

HEAT RECOVERY VENTILATOR

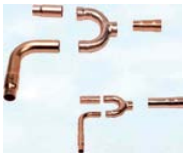
Specifications

Model				HRV-800	HRV-1000	HRV-1500	HRV-2000
Power supply			V/Ph/Hz	220-240/1/50-60		380-280/3/50-60	
Temperature exchange efficiency (%)		High	%	65	65	65	65
		Medium	%	65	65	/	/
		Low	%	70	70	/	/
Enthalpy exchange efficiency (%)	For cooling	High	%	50	50	50	50
		Medium	%	50	50	/	/
		Low	%	55	55	/	/
	For heating	High	%	60	60	60	60
		Medium	%	60	60	/	/
		Low	%	65	65	/	/
Sound pressure level	Heat exchange mode	High	dB(A)	39	40	51	53
		Medium	dB(A)	38	39	/	/
		Low	dB(A)	32	33	/	/
	Bypass mode	High	dB(A)	40	41	52	54
		Medium	dB(A)	39	40	/	/
		Low	dB(A)	34	35	/	/
Net dimension (W×D×H)			mm	1286×1006×388	1286×1256×388	1600×1270×540	1650×1470×540
			inch	50-5/8×39-5/8×15-1/4	50-5/8×49-7/16×15-1/4	63×50×21-1/4	65×57-7/8×21-1/4
Packing size (W×D×H)			mm	1380×1100×573	1390×1350×580	1680×1350×720	1760×1580×720
			inch	54-5/16×43-5/16×22-9/16	54-3/4×53-1/8×22-13/16	66-1/8×53-1/8×28-3/8	69-5/16×62-3/16×28-3/8
Net/gross weight			kg(lbs)	62/88(136.7/193.6)	79/110(173.8/242)	163/224(358.6/492.8)	182/247(400.4/543.4)
Casing				Galvanized steel plate			
Heat exchange system				Air to air cross flow total heat (sensible heat + latent heat) exchange			
Heat exchange element material				Specially processed nonflammable paper			
Fan	Type			Centrifugal fan			
	For cooling	High	m3/h(CFM)	800(471.1)	1000(588.2)	1500(882.4)	2000(1176.5)
		Medium	m3/h(CFM)	800(471.1)	1000(588.2)	/	/
		Low	m3/h(CFM)	600(353.4)	750(441.2)	/	/
	For heating	High	Pa	100	100	160	170
		Medium	Pa	82	85	/	/
		Low	Pa	54	58	/	/
	Motor output		W	360	360	450	450
Duct diameter			mm(in.)	Φ242(9-1/2)	Φ242(9-1/2)	346×326(13-5/8×12-7/8)	346×326(13-5/8×12-7/8)
Operating temperature range			℃	-7~43 DB, 80% RH or less			
			℉	19.4~109.4 DB, 80% RH or less			

Note:
1. For the units model of HRV (400-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but for the units model of HRV (1500-2000), there are only 1-speed which cannot be adjusted.
2. Sound level is measured at 1.4m below the center of the body in an anechoic chamber.
3. Temperature Exchange Efficiency is the mean value between cooling and heating.
4. Efficiency is measured under the following conditions:
** Cooling Condition: Air Exhaust Temp. 27℃(80.6℉) DB,19.5℃(67.1℉) WB., Fresh Air Temp. 35℃(95oF) DB,28℃(82.4℉) WB.*
** Heating Condition: Air Exhaust Temp. 21℃(69.8℉) DB,13℃(55.4℉) WB., Fresh Air Temp. 5℃(41℉) DB,2℃(35.6℉) WB.*

BRANCH PIPE

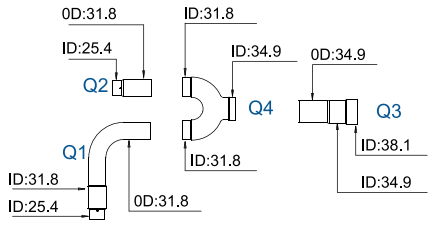
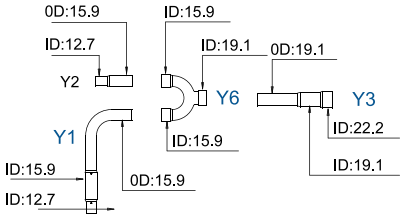
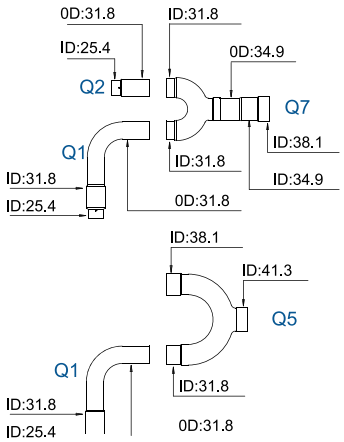
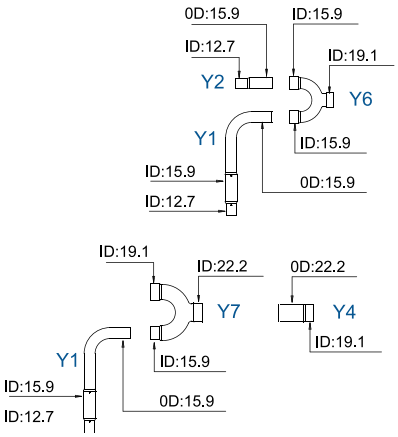
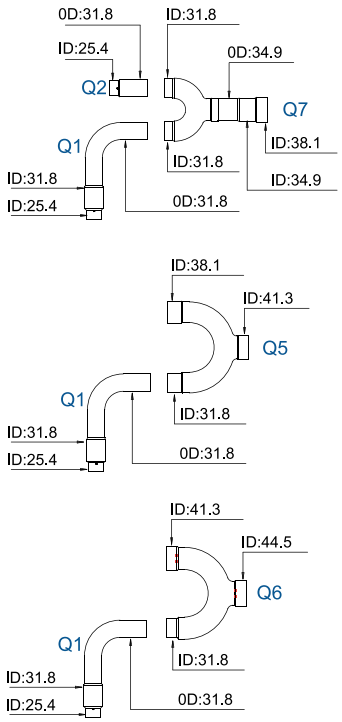
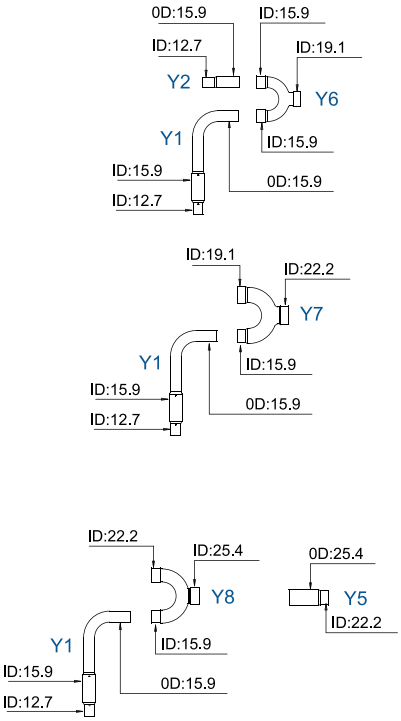
Branch joints

Model	Appearance	Model name	Packing Size (mm)/ Gross Weight (kg)	Description
Branch joint for 410A outdoor unit		FQZHW-02N1D	255×150×185/1.5	For two outdoor units connection
		FQZHW-03N1D	345×160×285/3.4	For three outdoor units connection
		FQZHW-04N1D	475×165×300/4.8	For four outdoor units connection
Branch joint for R410A indoor unit		FQZHN-01D	290×105×100/0.4	A*<16.6kW
		FQZHN-02D	290×105×100/0.6	16.6≤A*<33kW
		FQZHN-03D	310×130×125/0.9	33kW≤A*<66kW
		FQZHN-04D	350×180×170/1.5	66kW≤A*<92kW
		FQZHN-05D	365×195×215/1.9	92kW≤A*

A:The total capacity of indoor units following this branch joint*

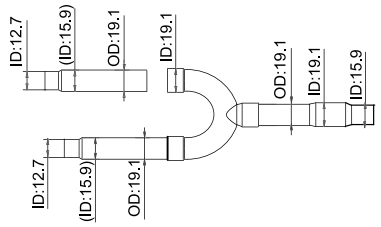
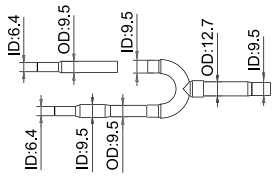
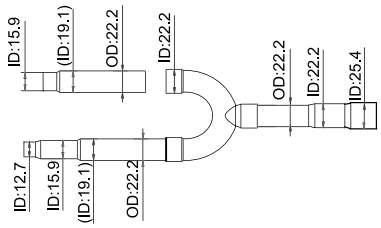
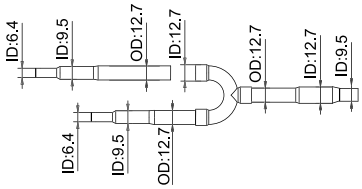
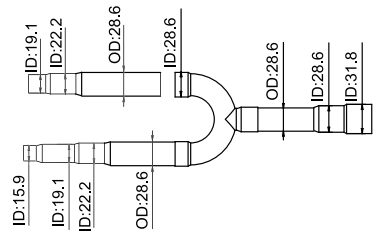
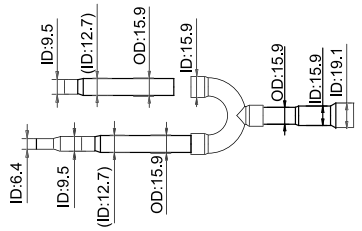
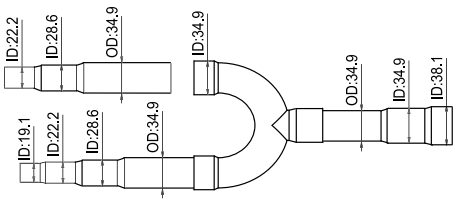
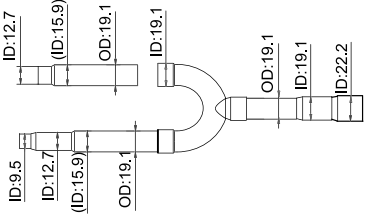
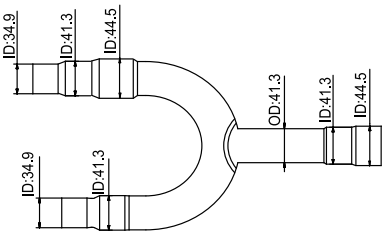
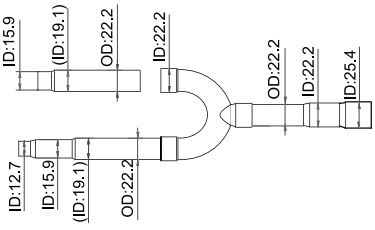
DIMENSIONS

Outdoor branch joints

Branch model	Gas side joints	Liquid side joints
FQZHW-02N1D		
FQZHW-03N1D		
FQZHW-04N1D		

DIMENSIONS

Indoor branch joints

Branch model	Gas side joints	Liquid side joints
FQZHN-01D		
FQZHN-02D		
FQZHN-03D		
FQZHN-04D		
FQZHN-05D		

صناعات التبريد
REFRIGERATION INDUSTRIES

About RIC

Refrigeration Industries Company (KSE 504) is a group holding company with diversified interests in manufacturing, contracting and services. Recognized regionally for our engineering capabilities and management excellence, RIC and its subsidiaries offer a wide range of high quality products and services that cater to both residential and commercial customers, in the areas of climate control technologies and specialized storage solutions.

In view of the growing Kuwait infrastructure and the limitations imposed on it by the country's arid climate, the Refrigeration Industries Company was established 40 years ago in 1973, by Amiri Decree. The company's operations began with the construction of the first cold stores in the region, to enable the storage of the imported foods, on which Kuwait relied. Along with the development and advancement of the country, so has RIC prospered and expanded, and is now a milestone in the history of modern Kuwait.

RIC takes pride in its successful record and the many accolades it has garnered over time, but the greatest achievement has been the provision of comfort and protection from the harsh climate, to the people of Kuwait.

More than 40 years of uninterrupted service, overcoming extreme weather conditions, war, economic recessions and ever increasing competition, is testimony to the fact that RIC has met the expectations and responsibilities that was envisioned at the beginning and also highlights the tenacity and vision to exceed them in the future.

Facts throughout the years

1973 Warehouses were established by Amiri Decree.

1979 RIC Constructed the Medical Cold Stores Complex, the world's largest at that time.

1980 RIC Air Conditioning manufacturing plant set up in Sulaibya.

1981 Production of Package & Mini-Split A/Cs started under York-Gulf.

1984 RIC was listed in Kuwait Stock Exchange.

1986 COOLEX brand Production Launched.

1991 RIC rebuilt the manufacturing plant destroyed during the war.

1997 Achieved ISO Certification ISO 9001:1994.

2002 ETL Designed testing lab became fully operational.

2004 Privatization of RIC.

2010 COOLEX becomes the first A/C Unit to Pass MEW's new regulations.

2010 RIC Factory Renovation and Expansion into neighboring countries.

2012 Achieved UL & AHRI Certification for Coolex Units.

2014 Achieved SASO Certification for Concealed Ducted Split Series.

2014 Achieved EUROVENT Certification for Air Handling Units AHU.

2014 Achieved UL Certification for Air Cooled Chillers.

نبذة عن الشركة

شركة صناعات التبريد (متداولة في سوق الكويت للأوراق المالية برقم 504) هي شركة متنوعة الإنشطة تعمل في مجال التصنيع والمقاولات والخدمات. ونحن نقدم مجموعة كبيرة من المنتجات والخدمات والحلول التقنية في مجال مواجهة الظروف المناخية وحلول التخزين. وقد حازت الشركة على إعتراف إقليمي بقدراتها الهندسية وكفاءتها الإدارية.

شركة صناعات التبريد هي مجموعة شركات تهدف إلى توفير أعلى مستويات الجودة من حيث المنتجات والخدمات التي تلبي إحتياجات عملائها السكنية والتجارية. وعلى مدى أربعون عاما مضت على إنشاء شركتنا فقد إستطعنا أن نوطد أقدامنا في جميع قطاعات السوق الكويتي. ونحن إذ نفتخر بالإنجازات التي حققناها، إلا أننا أشد فخرا بأننا تمكنا من الوقوف إلى جانب أهل الكويت على مدى سنوات طويلة في مواجهة تقلبات الظروف المناخية القاسية سواء من حيث درجات الحرارة العالية أو الأتربة أو الرطوبة.

وبإعتبارها إحدى الشركات الصناعية العاملة في دولة الكويت، فقد واجهت الشركة تحديات وآمال كبيرة في سعيها لتحقيق النجاح، وقد كانت الشركة – ولا تزال – معلما من المعالم المهمة في نظر أهل الكويت لما قدمته من منتجات وخدمات إستطاعت أن تغير الطبيعة القاسية لمناخ الكويت. فبعد نحو 40 عاما تقريبا، لا يزال السؤال مطروحا حول تحقيقنا لهذه التوقعات، فهل إستطاعت الشركة أن تتحمل مسؤولياتها على الوجه الأكمل؟ ويأتي الرد بالإيجاب، فعلى مدى أربعين عاما تقريبا لم تتوقف الشركة خلالها عن الإستمرار في تقديم خدماتها وأعمالها رغم الصعوبات التي تمثلت في ظروف الطقس القاسية أو الحروب أو الكساد الاقتصادي أو إرتفاع حدة المنافسة، فقد كانت كل واحدة من هذه الظروف بمثابة شهادة على أننا حققنا ما وعدنا به وما عقدنا العزم على تنفيذه.

حقائق وتواريخ

1973 تم إنشاء المستودعات بناء على مرسوم أميري.

1979 عهدت وزارة الصحة الكويتية لشركة صناعات التبريد بإنشاء مجمع مستودعات مخازن التبريد الطبية، وقد كان هذا المجمع حينها هو الأضخم من نوعه على مستوى العالم، وقد وصلت تكلفته إلى 12،000،000 دينار كويتي.

1980 تم إنشاء مصنع مكيفات الهواء التابع لشركة صناعات التبريد في الصليبية.

1981 بدء إنتاج أجهزة التكييف المدمجة والمنفصلة الصغيرة تحت علامة York-Gulf.

1984 تم قيد شركة صناعات التبريد في سوق الكويت للأوراق المالية.

1986 بدء إنتاج مكيفات علامة كولكس.

1991 قامت شركة صناعات التبريد بإعادة بناء مصنعها الذي دمرته الحرب.

1997 الحصول على شهادة الآيزو 9001:1994

2002 بدء تشغيل مختبر فحص وحدات التكييف (ETL)

2004 خصخصة شركة صناعات التبريد.

2010 كانت وحدات كولكس أول وحدات تكييف هواء تجتاز اللوائح التي أقرتها (وزارة الكهرباء والماء).

2010 تم تجديد مصنع شركة صناعات التبريد وبدء التوسع والتصدير إلى الدول المجاورة.

2012 الحصول على شهادة UL و AHRI لأجهزة التكييف كولكس.

2014 الحصول على شهادة SASO لأجهزة التكييف المنفصلة.

2014 الحصول على شهادة EUROVENT لأجهزة مناولة الهواء.

2014 الحصول على شهادة UL لمبردات الهواء الشيلر.

NOTES

Coolex Distributors

United Arab Emirates UAE

Obaid Humaid Al-Tayer Engineering Division
Al Tayer Group
Address: Dubai – UAE, PO Box 2623
Tel : +971 4 2011272
Fax : +971 4 2825008
Mobile : +971 50 3500747
Email : bkrishnan@altayer-eng.com
Website : www.altayer.com

Kingdom of Saudi Arabia KSA

Al-Etmad for Refrigeration and Air Conditioning Industries Company
Address: Al Qortobah Quartier, King Abdullah Road
Riyadh – KSA, P.O. Box 50467 Riyadh 11533
Tel : + 966 11 2447789
Fax : + 966 11 4958812
Mobile : + 966 560034240
Email : abunaif722@ksacoolex.com
Website : www.Coolex.co

Republic of Iraq

SWEER Company Limited
Address: Al Senak -Jumhuria Street - Baghdad-Iraq
P.O. Box: 8095
Tel : +964 1 8181196
Mobile : +964 7705 884444
Email : sweerco@yahoo.com
Website : www.sweerco.com

State of Qatar

Darwish Trading Company W.L.L
Address: P.O.Box 92 Doha - Qatar
Direct : +974 4468 3951
Tel : +974 4468 3950
Fax : +974 4468 5681
Email : acvr@darwish-tdg.qa
Email : dtcaircondi@darwish-tdg.qa
Website : http://www.darwish-trading.com

Sultanate of Oman

Al Noor Projects Engineering & Trading Company
Address: Third Floor, Oman House
P.O. Box: 1047, P.C: 114 Hay Al Mina - Muscat
Tel : +968 24709402/403
Fax : +968 24709401
Email : info@alnoorprojects.com
Email : gm@alnoorprojects.com
Website : www.alnoorprojects.com

Kingdom of Bahrain

Y.K. Almoayyed & Sons
Address: EHAD – Project Department, Sehla Workshop
P.O. Box 143, Manama, Kingdom of Bahrain
Tel : +973 17 400 444, Extn. 205
Direct : +973 17 405 250
Fax : +973 17 400 388
Email : Pradeep@almoayyed.com.bh
Email : ac@almoayyedcg.com
Website : www.almoayyed.com

Turkey

CS GROUP
Address : Küçükyalı, Altıntepe Mah.
Galipbey Cad. CS Plaza,
No: 127 34840 Maltepe-Istanbul Turkey
Tel : +90 216 388 85 50
Fax : +90 216 388 86 90
Call Center : +90 444 44 91
Email : info@csgroup.com.tr
Website : www.csgroup.com.tr

Iran

Capital ICEBERG Limited Company
Address: No. 31, 3rd Floor, Aghdasieyeh Trade Center
Aghdasiyeh Street. Tehran – Iran
Tel : +98 (021) 26110510
Fax : +98 (021) 26110510
Mobile : +98 912 119 2961
Email : info@capitaliceberg.com
Email : saeed.s@capitaliceberg.com
Email : sara.s@capitaliceberg.com
Website : www.capitaliceberg.com

Please contact Sales and Marketing Department sales@ric.com.kw or www.coolex.com.kw for specific information on the current design and specifications. **Ref no.: CVRF15-5-000**

CENTRAL AIR CONDITIONING AND SPLIT UNIT

Coolex continuously works towards the improvement of its products. Hence, the design and specifications of the ordered product may vary without prior notice.

COOLEX is a subsidiary of the RIC Group
www.ric.com.kw

www.coolex.com.kw