



Products that perform
By people who care

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DRV

DUNHAM-BUSH



DB Commercial Air Conditioning System

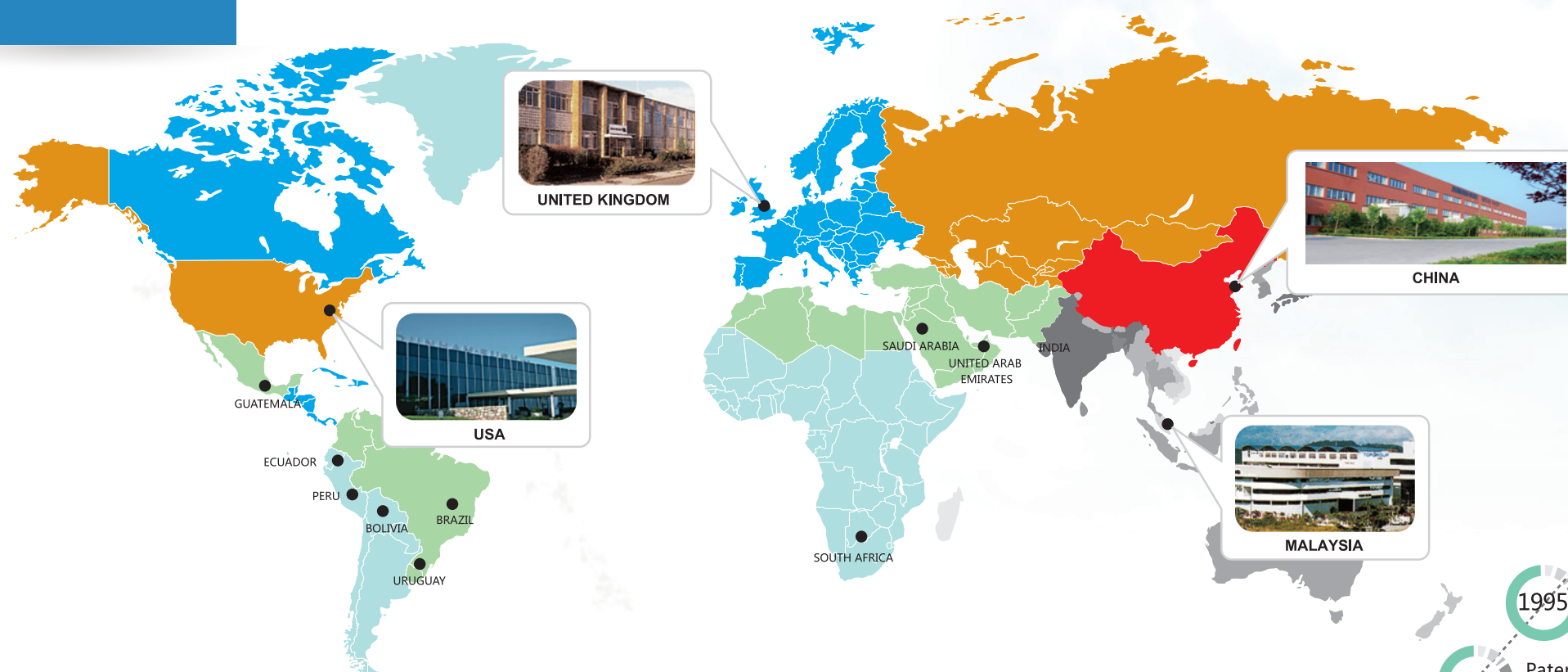


DRV

DUNHAM-BUSH VRF SYSTEM

50/60Hz R410a

MILESTONE



DUNHAM-BUSH PROFILE

Dunham-Bush, one of the world's top commercial air conditioning manufacturers, has long been committed to offering creative solutions for the customer's requirements over its nearly 120 years history in the HVAC/R. Dunham-Bush offers a complete range of HVAC/R products such as large chillers, unitary, airside system, and cooling towers for residences, commercial buildings and industrial facilities, and even disaster area. Dunham-Bush is striving to be the leader in the commercialization of green technologies. Today, by utilizing our global network of sales and service offices, Dunham-Bush is offering our value-added products and solutions to all corners of the world.



1894 Built in USA as a professional manufacturer of HVACR equipments.

1904 Developed the first air compressor system.

1906 The second Dunham-Bush company was built.

1924 Developed the first reciprocating compressor.

1930 Manufactured the first air cooled air conditioner.

1935 Factory in Morden, Great Britain was built to produce heating products.

1948 The factory in West Hartford, Connecticut, USA was built.

1956 Engaged in the research, development and production of high standard products.

1965 Developed the first centrifugal chiller.

1967 Patented the technology to use a screw compressor for refrigeration/cooling.

1995 Dunham-Bush Yantai Co. Ltd. was jointly built by Dunham-Bush Group and Yantai Moon Group.

1996 Hartford Compressors Incorporated was built in USA.

1998 Dunham-Bush built the factory in Kajang, Malaysia. Later built Global Headquarters there in 2000.

2008 Dunham-Bush launched its new logo to match its new global brand & business strategy.

2013 New compressor R&D center was founded in UK to engage in high tier compressor technology

Today and Beyond The tradition of innovative thinking continues.



DUNHAM-BUSH CHINA

Founded in Yantai in 1995, Dunham-Bush China adhered to the innovation system of focusing on customers' demands to drive global research & design, and superior quality manufacturing. Nowadays we Dunham-Bush China are creating innovative cooling solutions appropriate to the individual requirements of commercial buildings, schools, hospitals, airports, factories and residences. No matter where you are, what we deliver is the same: high performing, highly engineered cooling solutions developed to take on the challenges of the 21st century.

011



DRV 5-H

- Full DC inverter compressors
- Automatic oil balancing
- Instant cooling and heating

127

New Medium ESP Duct(50/100pa)

- 5-48K
- Only 250mm thick
- Built-in drain pump
- 50/100Pa



027



DRV 5

- Full DC inverter compressors
- Maximum single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

137

New Console

- 5-17K
- Five file wind speed
- Flexible supply air
- Low sound level
- Floor mount





Showroom



Office



Shop



Hotel



CONTENTS

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PRODUCT LINE-UP

(Outdoor Units)

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48											50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104
DRV 5-H	3/380~415/50 3/380~415/60																																																											
DRV 5	3/380~415/50 3/380~415/60																																																											
DRV 5-RC	3/380~415/50 3/380~415/60																																																											

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32		34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
DRV III ^{PLUS} (T1)	3/380~400/50 3/380~400/60																														

Series	HP	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
DRV S ^I	1/220~240/50 1/220~240/60																				
	3/380~400/50 3/380~400/60																				
DRV S ^{II} (T1)	1/220~240/50 1/220~240/60																				
	3/380~415/50 3/380~415/60																				
	3/380~400/50 3/380~400/60																				
DRV S ^{II} (T3)	1/220~240/50 1/220~240/60																				
	3/380~415/50 3/380~415/60																				
DRV W	3/380~400/50(60) 3/208~230/60																				

DX AHU² Connection kit

Model	AH1-070B	AH1-140B	AH1-280B	AH1-560B	AH1-730B
Capacity	3.5≤x≤7kW	7<x≤14kW	14<x≤28kW	28<x≤56kW	56<x≤73kW
					
DRV series	DRV 5, DRV SII (4/5/6/8/10/12HP Double fan)				

PRODUCT LINE-UP

(Indoor Units)

Series	KBTU/h kW		5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
			1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
1-Way Cassette		DB**2MAERA															
2- Way Cassette		DB**2MBERA															
MINI 4- Way Cassette		DB**2MCERA(M)															
Round Flow 4-Way Cassette		DB**2MRERA															
4- Way Cassette		D**2MCERA D**2MNERA															
Convertible		DC**2MDERA															
Low ESP Slim Duct (0/15/30Pa)		DD**2MSERA(D) DD**2MSERA															
High ESP Duct(20/200Pa)		DD**2MJERAD															
Medium ESP Duct (50/100Pa)		DD**2MJERA															
High Wall		DS**2MNERAB DS**2MNERA DS**2MNERAC (NEW)															
		DS**2MFERAB DS**2MFERA DS**2MFERAC(NEW)															

PRODUCT LINE-UP

(Indoor Units)

Series	KBTU/h kW			5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
				1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
Medium ESP Duct (80/120Pa)		DD**2MNERA																
High ESP Duct (100/196Pa)		DD**2MHERA																
High ESP Duct (0-200Pa)		DD**2MQERA																
Built-in Floor Standing		DE**2MLERA																
New Console		DF*2MAERA																
Fresh Air Duct		DD*2MPERA																
DRV (Heat ReclaimVentilation) (DRV0150/0260/ 0800/1000ANN)	 150m³/h 260m³/h 500m³/h 800m³/h 1000m³/h																	

DRV5-H



011 Features & Benefits

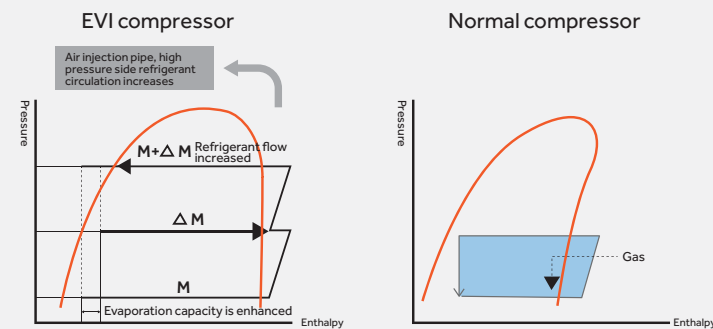
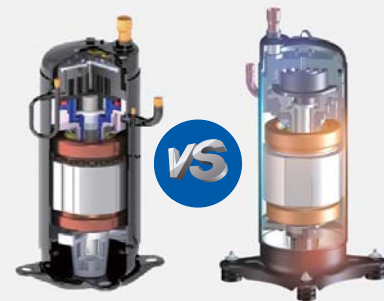
014 DRV 5-H Outdoor

FEATURES & BENEFITS

Super Efficiency

EVI compressor

Standard with EVI compressor, increase the refrigerant circulation by 15%, strong output.



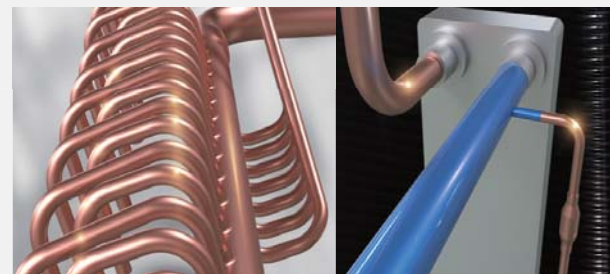
Speed-less DC fan motor

Standard with speed-less DC fan motor, compared with normal type, the motor efficiency is increased by 17%.



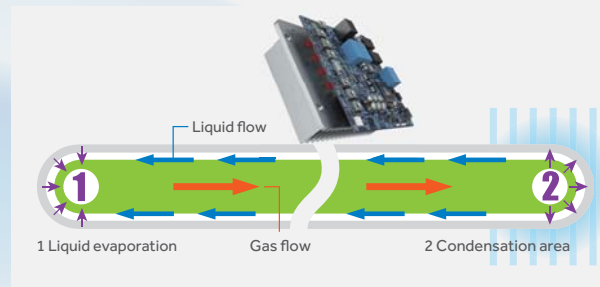
2 stage Sub-cooling

Sub-cooling degree is up to 30°C, improve the cooling and heating capacity.



Superconducting refrigerant cooling Technology

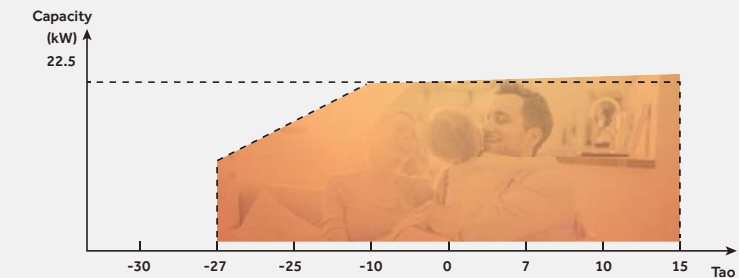
Adopt innovative super heat conduction cooling PCB technology, heat transfer media conduct heat 100 times better than copper. Does not occupy the refrigerant amount of the system, no additional refrigerant loss. At the same time, this cooling mode will not affect the rotation of the electric control box, easy maintain.



Super Comfort

Reliable performance in low temperature

In the low temperature, compared with the standard series, the heating capacity increased by 10%. The heating capacity is 100% under -10°C.



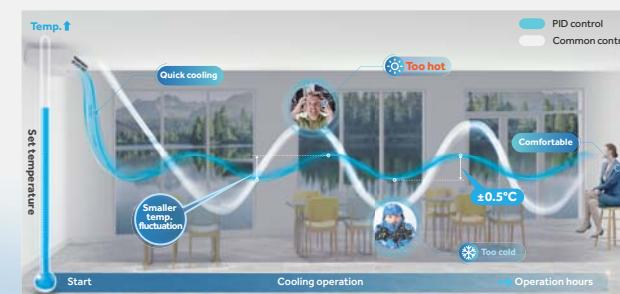
Continuous heating technology

Intelligent defrosting technology, realizing continuous heating.



Precise temperature control at $\pm 0.5^\circ\text{C}$

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.



Wide operation tem.

Cooling: -5°C ~ 52°C
Heating: -27°C ~ 21°C



FEATURES & BENEFITS

DRV 5-H OUTDOOR

Super Convenience

Auto addressing indoor units

The ODU can automatically address to the indoor unit through the module on PCB, and the controller can search and set the address of the indoor unit, more convenient.



DV08NMVETA
DV10NMVETA
DV12NMVETA
DV14NMVETA
DV16NMVETA



DV18NMVETA
DV20NMVETA
DV22NMVETA
DV24NMVETA
DV26NMVETA

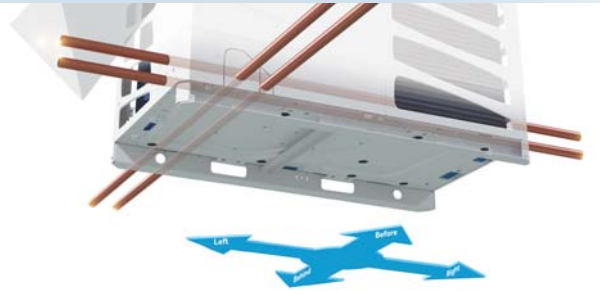
Rotary electric control box design

Rotary electric control box design, while maintaining the internal space, maintainer only need to rotate the box, do not need to dismantle the box, easy and fast maintenance.



4-way pipe connection

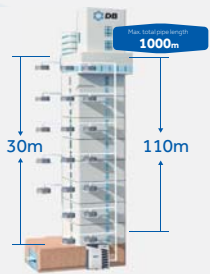
You can freely choose the front, back, left side, right side of the unit to connect the pipe, easy to install and design.



Long pipe length, high height drop

Total pipe length 1000m;
Drop length 110m.

No1



Model			DV08NMVETA	DV10NMVETA	DV12NMVETA	DV14NMVETA	DV16NMVETA	
Combination model			/	/	/	/	/	
			/	/	/	/	/	
			/	/	/	/	/	
			/	/	/	/	/	
Capacity	Capacity range	HP	8	10	12	14	16	
	Cooling	kW	25.2	28.0	33.5	40.0	45.0	
	Heating	kW	25.2	28.0	33.5	40.0	45.0	
Electrical parameters	Power supply		Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	6.24	7.37	10.15	11.94	13.24
		Rated current	A	10.53	12.44	17.14	20.16	22.34
		Max power input	kW	14.30	15.10	16.32	17.58	20.69
		Max current	A	23.81	25.14	27.17	29.27	34.50
		SEER		7.25	7.09	6.69	6.60	6.36
		ηs.c	%	287	281	265	261	251
	Heating	Rated power input	kW	5.56	6.32	8.33	9.71	10.92
		Rated current	A	9.39	10.67	14.07	16.39	18.44
		Max power input	kW	11.69	12.19	12.69	16.10	19.56
		Max current	A	19.47	20.30	21.13	26.81	32.57
		SCOP		4.41	4.31	4.31	4.12	4.05
		ηs.h	%	173	169	169	162	159
	Performance	Air flow (H)	m³/h	11000	11000	12000	13500	13500
Sound pressure level (H)		dB(A)	56	56	59	59	60	
Installation	External dimensions(W/D/H)		mm	980/750/1690			980/750/1690	
	Shipping dimensions(W/D/H)		mm	1070/850/1858			1070/850/1858	
	Net/Shipping weight		kg	255/280			255/280	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV	1INV	1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	12.7
	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4	28.58
	Max.total pipe lenth		m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3		m	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
	Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
Maximum number of indoor units			13	16	20	24	27	
Working temp.	Cooling	°C	-5~52					
	Heating	°C	-27~21					

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4
* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°C WB)

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

DRV 5-H OUTDOOR



DV08NMVETA
DV10NMVETA
DV12NMVETA
DV14NMVETA
DV16NMVETA



DV18NMVETA
DV20NMVETA
DV22NMVETA
DV24NMVETA
DV26NMVETA

Model			DV18NMVETA	DV20NMVETA	DV22NMVETA	DV24NMVETA	DV26NMVETA
Combination model			/	/	/	/	/
			/	/	/	/	/
			/	/	/	/	/
			/	/	/	/	/
Capacity	Capacity range	HP	18	20	22	24	26
	Cooling	kW	50.4	56.0	61.5	68.0	73.5
	Heating	kW	50.4	56.0	61.5	68.0	73.5
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	15.60	16.62	20.16	22.67
		Rated current	A	26.34	28.05	34.03	37.65
		Max power input	kW	25.90	28.91	31.82	37.80
		Max current	A	40.30	46.30	51.91	61.91
		SEER		6.78	6.75	6.54	5.83
		ηs,c	%	268	267	259	230
	Heating	Rated power input	kW	12.81	14.23	18.09	18.86
		Rated current	A	21.62	24.03	30.54	31.84
		Max power input	kW	21.93	24.70	25.69	30.40
		Max current	A	36.51	41.13	42.78	50.62
		SCOP		4.15	4.20	4.21	4.17
		ηs,h	%	163	165	165	164
Performance	Air flow (H)	m³/h	17000	17000	18000	18000	19000
	Sound pressure level (H)	dB(A)	61	61	61	62	62
Installation	External dimensions(W/D/H)	mm	1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1858				
	Net/Shipping weight	kg	385/410				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		2INV	2INV	2INV	2INV	2INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	15.88	15.88
	Refrigerant gas pipe	mm	28.58	28.58	28.58	28.58	28.58
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		30	33	36	40	43
Working temp.	Cooling	°C	-5-52				
	Heating	°C	-27-21				

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV28NMVETA	DV30NMVETA	DV32NMVETA	DV34NMVETA	DV36NMVETA	DV38NMVETA
Combination model			DV14NMVETA	DV14NMVETA	DV16NMVETA	DV16NMVETA	DV18NMVETA	DV18NMVETA
			DV14NMVETA	DV16NMVETA	DV16NMVETA	DV18NMVETA	DV18NMVETA	DV20NMVETA
			/	/	/	/	/	/
			/	/	/	/	/	/
Capacity	Capacity range	HP	28	30	32	34	36	38
	Cooling	kW	80.0	85.0	90.0	95.4	100.8	106.4
	Heating	kW	80.0	85.0	90.0	95.4	100.8	106.4
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	23.88	25.18	26.47	28.84	31.20
		Rated current	A	40.32	42.50	44.69	48.68	52.67
		Max power input	kW	35.16	38.27	41.38	46.59	51.80
		Max current	A	58.54	63.77	69.00	74.80	80.60
		SEER		6.60	6.36	6.36	6.36	6.78
		ηs,c	%	261	251	251	251	268
	Heating	Rated power input	kW	19.42	20.63	21.84	23.73	25.62
		Rated current	A	32.78	34.83	36.88	40.06	43.25
		Max power input	kW	32.20	35.66	39.12	41.49	43.86
		Max current	A	53.61	59.38	65.14	69.08	73.03
		SCOP		4.12	4.05	4.05	4.05	4.15
		ηs,h	%	162	159	159	159	163
Performance	Air flow (H)	m³/h	27000	27000	27000	30500	34000	34000
	Sound pressure level (H)	dB(A)	62	62.5	63	63.5	64	64
Installation	External dimensions(W/D/H)	mm	980/750/1690+980/750/1690		980/750/1690+1410/750/1690		1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)	mm	1070/850/1858+1070/850/1858		1070/850/1858+1485/850/1858		1485/850/1858+1485/850/1858	
	Net/Shipping weight	kg	255/280+255/280		255/280+385/410		385/410+385/410	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		2INV	2INV	2INV	3INV	4INV	4INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	20	20
	Refrigerant liquid pipe	mm	15.88	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	28.58	31.8	31.8	31.8	38.1	38.1
	Max.total pipe lenth	m	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		47	50	53	56	59	63
Working temp.	Cooling	°C	-5-52					
	Heating	°C	-27-21					

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°C WB)

DRV 5-H OUTDOOR



DV08NMVETA
DV10NMVETA
DV12NMVETA
DV14NMVETA
DV16NMVETA



DV18NMVETA
DV20NMVETA
DV22NMVETA
DV24NMVETA
DV26NMVETA

Model			DV40NMVETA	DV42NMVETA	DV44NMVETA	DV46NMVETA	DV48NMVETA
Combination model			DV20NMVETA	DV20NMVETA	DV22NMVETA	DV22NMVETA	DV24NMVETA
			DV20NMVETA	DV22NMVETA	DV22NMVETA	DV24NMVETA	DV24NMVETA
			/	/	/	/	/
			/	/	/	/	/
Capacity	Capacity range	HP	40	42	44	46	48
	Cooling	kW	112.0	117.5	123.0	129.5	136.0
	Heating	kW	112.0	117.5	123.0	129.5	136.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	33.23	36.78	40.32	42.83
		Rated current	A	56.11	62.09	68.07	71.68
		Max power input	kW	57.82	60.73	63.64	64.63
		Max current	A	92.60	98.21	103.82	106.03
		SEER		6.75	6.54	6.54	5.83
		ηs,c	%	267	259	259	230
	Heating	Rated power input	kW	28.47	32.32	36.18	36.95
		Rated current	A	48.06	54.56	61.07	62.38
		Max power input	kW	49.40	50.39	51.38	56.09
		Max current	A	82.25	83.90	85.55	93.39
		SCOP		4.20	4.20	4.21	4.17
		ηs,h	%	165	165	165	164
Performance	Air flow (H)	m³/h	34000	35000	36000	36000	36000
	Sound pressure level (H)	dB(A)	64	64	64	64.5	65
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858				
	Net/Shipping weight	kg	385/410+385/410				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		4INV	4INV	4INV	4INV	4INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	20
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	38.1
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64	64
Working temp.	Cooling	°C	-5~52				
	Heating	°C	-27~21				

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV50NMVETA	DV52NMVETA	DV54NMVETA	DV56NMVETA
Combination model			DV24NMVETA	DV26NMVETA	DV18NMVETA	DV18NMVETA
			DV26NMVETA	DV26NMVETA	DV18NMVETA	DV18NMVETA
			/	/	DV18NMVETA	DV20NMVETA
			/	/	/	/
Capacity	Capacity range	HP	50	52	54	56
	Cooling	kW	141.5	147.0	151.2	156.8
	Heating	kW	141.5	147.0	151.2	156.8
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	59.42	73.50	46.80
		Rated current	A	96.89	118.48	79.01
		Max power input	kW	70.61	75.60	77.70
		Max current	A	116.03	123.82	120.90
		SEER		4.90	4.90	6.78
		ηs,c	%	193	193	268
	Heating	Rated power input	kW	44.38	51.04	38.43
		Rated current	A	74.93	86.17	64.87
		Max power input	kW	62.85	64.90	65.79
		Max current	A	104.65	108.06	109.54
		SCOP		3.50	3.50	4.15
		ηs,h	%	137	137	163
Performance	Air flow (H)	m³/h	37000	38000	51000	51000
	Sound pressure level (H)	dB(A)	65	65	65.8	65.8
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858			
	Net/Shipping weight	kg	385/410+385/410			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		4INV	4INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	30	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~52			
	Heating	°C	-27~21			

* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, Outdoor temp 35°C DB/24WB in heating, indoor temp is 20°C DB in heating, outdoor temp is 7°C DB/6°CWB

DRV 5-H OUTDOOR



DV08NMVETA
DV10NMVETA
DV12NMVETA
DV14NMVETA
DV16NMVETA



DV18NMVETA
DV20NMVETA
DV22NMVETA
DV24NMVETA
DV26NMVETA

Model			DV58NMVETA	DV60NMVETA	DV62NMVETA	DV64NMVETA
Combination model			DV18NMVETA	DV20NMVETA	DV22NMVETA	DV22NMVETA
			DV20NMVETA	DV20NMVETA	DV20NMVETA	DV22NMVETA
			DV20NMVETA	DV20NMVETA	DV20NMVETA	DV20NMVETA
			/	/	/	/
Capacity	Capacity range	HP	58	60	62	64
	Cooling	kW	162.4	168.0	173.5	179.0
	Heating	kW	162.4	168.0	173.5	179.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	48.83	49.85	53.39
		Rated current	A	82.44	84.16	90.14
		Max power input	kW	83.72	86.73	89.64
		Max current	A	132.90	138.90	144.51
		SEER		6.75	6.75	6.54
		ηs,c	%	267	267	259
	Heating	Rated power input	kW	41.27	42.70	46.55
		Rated current	A	69.68	72.08	78.59
		Max power input	kW	71.33	74.10	75.09
		Max current	A	118.76	123.38	125.03
		SCOP		4.15	4.20	4.20
		ηs,h	%	163	165	165
Performance	Air flow (H)	m³/h	51000	51000	52000	53000
	Sound pressure level (H)	dB(A)	65.8	65.8	65.8	65.8
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858			
	Net/Shipping weight	kg	385/410+385/410+385/410			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		6INV	6INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	41.3	41.3	41.3	41.3
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~52			
	Heating	°C	-27~21			

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV66NMVETA	DV68NMVETA	DV70NMVETA	DV72NMVETA
Combination model			DV22NMVETA	DV22NMVETA	DV22NMVETA	DV24NMVETA
			DV22NMVETA	DV22NMVETA	DV24NMVETA	DV24NMVETA
			DV22NMVETA	DV24NMVETA	DV24NMVETA	DV24NMVETA
			/	/	/	/
Capacity	Capacity range	HP	66	68	70	72
	Cooling	kW	184.5	191.0	197.5	204.0
	Heating	kW	184.5	191.0	197.5	204.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	60.48	62.99	65.50
		Rated current	A	102.10	105.72	109.33
		Max power input	kW	95.46	96.45	97.44
		Max current	A	155.73	157.94	160.15
		SEER		6.54	5.83	5.83
		ηs,c	%	259	230	230
	Heating	Rated power input	kW	54.26	55.04	55.81
		Rated current	A	91.61	92.92	94.23
		Max power input	kW	77.08	81.78	86.49
		Max current	A	128.33	136.17	144.01
		SCOP		4.21	4.17	4.17
		ηs,h	%	165	164	164
Performance	Air flow (H)	m³/h	54000	54000	54000	54000
	Sound pressure level (H)	dB(A)	65.8	66	66.5	66.8
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858			
	Net/Shipping weight	kg	385/410+385/410+385/410			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		6INV	6INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30
	Refrigerant liquid pipe	mm	19.05	22.2	22.2	22.2
	Refrigerant gas pipe	mm	41.3	44.5	44.5	44.5
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~52			
	Heating	°C	-27~21			

* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, Outdoor temp 35°C DB/24WB, in heating, indoor temp. is 20°C DB, in heating, outdoor temp. is 7°C DB/6°C WB)

DRV 5-H OUTDOOR



DV08NMVETA
DV10NMVETA
DV12NMVETA
DV14NMVETA
DV16NMVETA



DV18NMVETA
DV20NMVETA
DV22NMVETA
DV24NMVETA
DV26NMVETA

Model			DV74NMVETA	DV76NMVETA	DV78NMVETA	DV80NMVETA
Combination model			DV26NMVETA	DV26NMVETA	DV26NMVETA	DV20NMVETA
			DV24NMVETA	DV26NMVETA	DV26NMVETA	DV20NMVETA
			DV24NMVETA	DV24NMVETA	DV26NMVETA	DV20NMVETA
			/	/	/	DV20NMVETA
Capacity	Capacity range	HP	74	76	78	80
	Cooling	kW	209.5	215.0	220.5	224.0
	Heating	kW	209.5	215.0	220.5	224.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	82.09	96.17	110.25
		Rated current	A	134.54	156.13	177.72
		Max power input	kW	103.42	108.41	113.40
		Max current	A	170.15	177.94	185.20
		SEER		4.90	4.90	6.75
		ηs,c	%	193	193	267
	Heating	Rated power input	kW	63.25	69.90	76.56
		Rated current	A	106.77	118.01	129.25
		Max power input	kW	93.25	95.30	97.35
		Max current	A	155.26	158.67	162.09
		SCOP		3.50	3.50	4.20
		ηs,h	%	137	137	165
Performance	Air flow (H)	m³/h	55000	56000	57000	68000
	Sound pressure level (H)	dB(A)	66.8	66.8	66.8	67
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858			
	Net/Shipping weight	kg	385/410+385/410+385/410			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		6INV	6INV	6INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	40
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	22.2
	Refrigerant gas pipe	mm	44.5	44.5	44.5	44.5
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~52			
	Heating	°C	-27~21			

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV82NMVETA	DV84NMVETA	DV86NMVETA
Combination model			DV20NMVETA	DV20NMVETA	DV20NMVETA
			DV20NMVETA	DV20NMVETA	DV22NMVETA
			DV20NMVETA	DV22NMVETA	DV22NMVETA
			DV22NMVETA	DV22NMVETA	DV22NMVETA
Capacity	Capacity range	HP	82	84	86
	Cooling	kW	229.5	235.0	240.5
	Heating	kW	229.5	235.0	240.5
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	70.01	73.55
		Rated current	A	118.19	124.18
		Max power input	kW	118.55	121.46
		Max current	A	190.81	196.42
		SEER		6.54	6.54
		ηs,c	%	259	259
	Heating	Rated power input	kW	60.79	64.64
		Rated current	A	102.62	109.13
		Max power input	kW	99.79	100.78
		Max current	A	166.15	167.81
		SCOP		4.20	4.20
		ηs,h	%	165	165
Performance	Air flow (H)	m³/h	69000	70000	71000
	Sound pressure level (H)	dB(A)	67	67	67
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858		
	Net/Shipping weight	kg	385/410+385/410+385/410		
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40
	Refrigerant liquid pipe	mm	22.2	22.2	25.4
	Refrigerant gas pipe	mm	44.5	44.5	50.8
	Max.total pipe lenth	m	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30
	Standard drop between I.U *4	m	18	18	18
	External static pressure	Pa	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64
Working temp.	Cooling	°C	-5~52		
	Heating	°C	-27~21		

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°CWB)

DRV 5-H OUTDOOR



DV08NMVETA
DV10NMVETA
DV12NMVETA
DV14NMVETA
DV16NMVETA



DV18NMVETA
DV20NMVETA
DV22NMVETA
DV24NMVETA
DV26NMVETA

Model			DV88NMVETA	DV90NMVETA	DV92NMVETA	DV94NMVETA	DV96NMVETA
Combination model			DV22NMVETA	DV24NMVETA	DV24NMVETA	DV24NMVETA	DV24NMVETA
			DV22NMVETA	DV22NMVETA	DV24NMVETA	DV24NMVETA	DV24NMVETA
			DV22NMVETA	DV22NMVETA	DV22NMVETA	DV24NMVETA	DV24NMVETA
			DV22NMVETA	DV22NMVETA	DV22NMVETA	DV22NMVETA	DV24NMVETA
Capacity	Capacity range	HP	88	90	92	94	96
	Cooling	kW	246.0	252.5	259.0	265.5	272.0
	Heating	kW	246.0	252.5	259.0	265.5	272.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	80.64	83.15	85.66	88.17
		Rated current	A	136.14	139.75	143.37	146.98
		Max power input	kW	127.28	128.27	129.26	130.25
		Max current	A	207.64	209.85	212.06	214.27
		SEER		6.54	5.83	5.83	5.83
		ηs.c	%	259	230	230	230
	Heating	Rated power input	kW	72.35	73.13	73.90	74.68
		Rated current	A	122.15	123.45	124.76	126.07
		Max power input	kW	102.77	107.48	112.18	116.89
		Max current	A	171.11	178.95	186.79	194.63
		SCOP		4.21	4.17	4.17	4.17
		ηs.h	%	165	164	164	164
Performance	Air flow (H)	m³/h	72000	72000	72000	72000	72000
	Sound pressure level (H)	dB(A)	67	67.5	67.5	68	68
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858				
	Net/Shipping weight	kg	385/410+385/410+385/410+385/410				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40	40
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4	25.4
	Refrigerant gas pipe	mm	50.8	50.8	50.8	50.8	50.8
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64	64
Working temp.	Cooling	°C	-5-52				
	Heating	°C	-27-21				

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV98NMVETA	DV100NMVETA	DV102NMVETA	DV104NMVETA
Combination model			DV26NMVETA	DV26NMVETA	DV26NMVETA	DV26NMVETA
			DV24NMVETA	DV26NMVETA	DV26NMVETA	DV26NMVETA
			DV24NMVETA	DV24NMVETA	DV26NMVETA	DV26NMVETA
			DV24NMVETA	DV24NMVETA	DV24NMVETA	DV26NMVETA
Capacity	Capacity range	HP	98	100	102	104
	Cooling	kW	277.5	283.0	288.5	294.0
	Heating	kW	277.5	283.0	288.5	294.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	104.76	118.84	132.92
		Rated current	A	172.19	193.78	215.37
		Max power input	kW	136.23	141.22	146.21
		Max current	A	224.27	232.06	239.85
		SEER		4.90	4.90	4.90
		ηs.c	%	193	193	193
	Heating	Rated power input	kW	82.11	88.77	95.43
		Rated current	A	138.62	149.86	161.10
		Max power input	kW	123.65	125.70	127.75
		Max current	A	205.88	209.29	212.70
		SCOP		3.50	3.50	3.50
		η s.h	%	137	137	137
Performance	Air flow (H)	m³/h	73000	74000	75000	76000
	Sound pressure level (H)	dB(A)	68	68	68	68
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858			
	Net/Shipping weight	kg	385/410+385/410+385/410+385/410			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4
	Refrigerant gas pipe	mm	54.1	54.1	54.1	54.1
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5-52			
	Heating	°C	-27-21			

* All the specifications are tested under nominal condition(in cooling, indoor temp. is 27°C DB/19°C WB;Outdoor temp 35°C DB/24WB;in heating, indoor temp.is 20°C DB,in heating, outdoor temp.is 7°C DB/6°CWB)

DRV5



027 Features & Benefits

030 DRV 5 Outdoor

FEATURES & BENEFITS

Leadership in Technology

Maximum single module 26HP Maximum combination 104HP

With large capacity full DC inverter compressors, DRV 5 can reach single module 26HP, maximum combination 104HP.

Max. 4 module combination up to **104HP**



Max. single module up to **26HP**



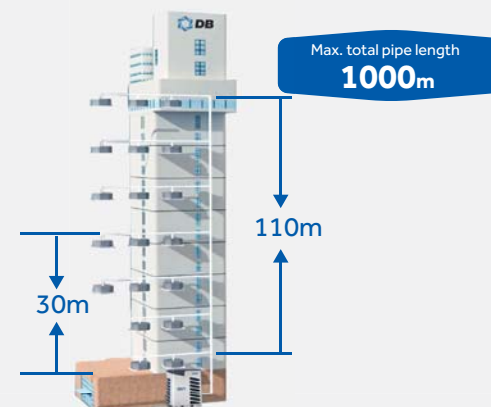
Super efficiency with full DC inverter compress and Speedless inverter DC-motor

Outdoor unit matches efficient variable-speed DC-motor. driven by sine wave, wider efficiency range and torque range, motor efficiency is increased by 17%. air fan of outdoor unit can achieve 0-91Hz stepless frequency control, matches up inverter with step less compressor, the durability and stability of the compressor are guaranteed, fault can be reduced.



Total pipe length 1000m, height drop 110m

Longer piping length and higher level differences allow for more flexible design with little limitations.



New one-piece of four-way heat exchanger

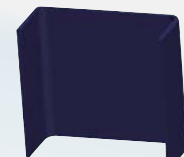
Heat exchanger area can be wide rised, the efficiency of the whole machine is improved.

primary four-way heat exchange



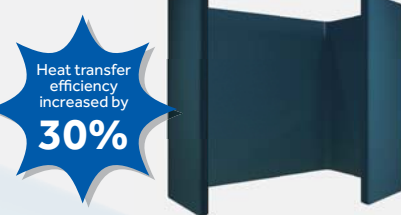
heat exchange area $660 \times 1690 \times 2 = 2.23\text{m}^2$

common three-way heat exchange



heat exchange area $1400 \times 1770 = 2.47\text{m}^2$

Dunham-Bush new four-way heat exchanger



Heat transfer efficiency increased by **30%**

heat exchange area $1260 \times 2294 = \mathbf{2.89\text{m}^2}$

Flexible Vortex disk

The unit matches by flexible vortex inverter DC-compressor, realized full inverter of compressor, efficiency is 5% higher than that of conventional scroll compressors.



In Stallation Friendly

Auto addressing indoor units

Outdoor units can address indoor units automatically, greatly reducing labor.



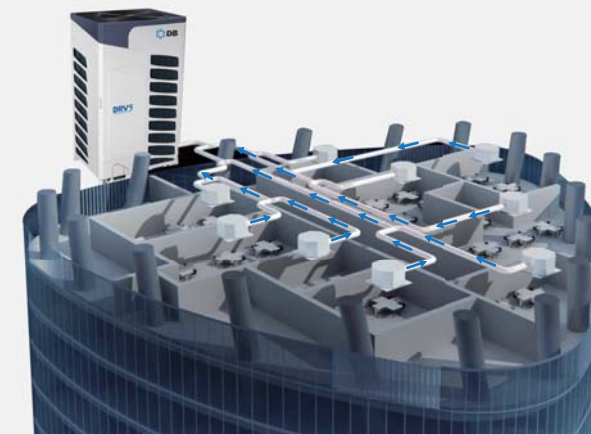
Automatic oil balancing

Without oil balancing pipe, the oil is balanced automatically. This simplifies system design and improves reliability.



Piping refrigerant storage technology

Advanced refrigerant control technology, the refrigerant is stored in the indoor and outdoor machine piping, remove the high pressure tank, less refrigerant filling in unit, high efficiency.



New appearance of patented design

Design of hidden screw, one-piece streamline air grille, practical and beautiful. large diameter fan of 700mm, large air flow, low noise figure, improved heat transfer efficiency, originate rotation type service door, easy to operate.



FEATURES & BENEFITS

DRV 5 T1 380~415V

Super Comfort

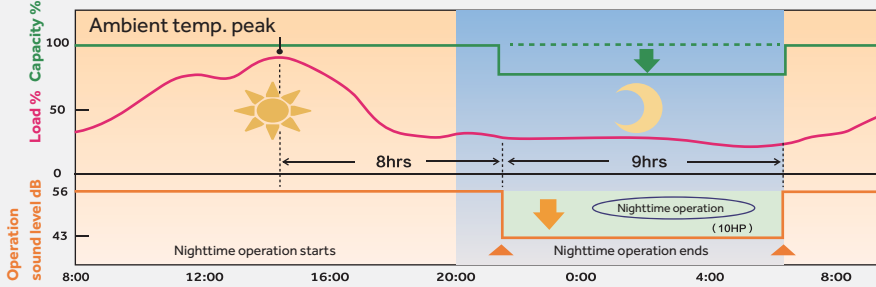
Quick cooling and heating

Start up and reaching maximum output in short time, realizing quick cooling and heating.



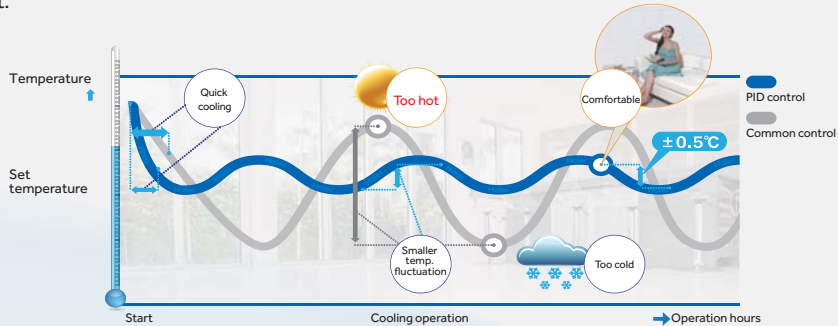
Nighttime quiet operation at 10dB(A) reduced sound level

When quiet operation is required, this function can be configured by outdoor PCB to greatly reduce sound level.



Precise temperature control at $\pm 0.5^{\circ}\text{C}$

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.



Intelligent defrosting technology

According to system status to intelligently judge if defrosting is required, improving indoor comfort.



DV08IMVEVA
DV10IMVEVA
DV12IMVEVA
DV14IMVEVA
DV16IMVEVA



DV18IMVEVA
DV20IMVEVA
DV22IMVEVA
DV24IMVEVA
DV26IMVEVA

Model			DV08IMVEVA	DV10IMVEVA	DV12IMVEVA	DV14IMVEVA	DV16IMVEVA	
Combination model			/	/	/	/	/	
			/	/	/	/	/	
			/	/	/	/	/	
			/	/	/	/	/	
Capacity	Capacity range	HP	8	10	12	14	16	
	Cooling	kW	25.2	28.0	33.5	40.0	45.0	
	Heating	kW	27.0	31.5	37.5	45.0	50.0	
Electrical parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	
	Cooling	Rated power input	kW	5.60	6.80	8.40	10.90	11.80
		Max power input	kW	12.000	12.900	13.800	16.400	19.200
		Rated current	A	9.45	11.48	14.18	18.40	19.92
		Max current	A	20.26	21.78	23.30	27.69	32.41
	Heating	Rated power input	kW	5.20	6.30	8.00	10.30	11.20
		Max power input	kW	10.90	12.20	12.50	15.10	18.40
		Rated current	A	8.78	10.64	13.51	17.39	18.91
		Max current	A	18.40	20.60	21.10	25.49	31.06
	EER			4.50	4.12	3.99	3.67	3.81
	COP			5.19	5.00	4.69	4.37	4.46
	SEER			7.50	7.33	7.20	6.85	6.40
	SCOP			5.50	5.45	5.30	5.12	4.55
	Performance	Air flow (H)	m³/h	11000	11000	12000	13500	13500
Sound pressure level (H)		dB(A)	56	56	59	59	60	
Sound power level (H)		dB(A)	67	67	70	70	71	
Installation	External dimensions(W/D/H)		mm	980/750/1690				
	Shipping dimensions(W/D/H)		mm	1070/850/1838				
	Net/Shipping weight		kg	224/250			244/270	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV	1INV	1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	8.5	8.5	8.5	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	12.7
	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4	28.58
	Max.total pipe lenth		m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3		m	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
	Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
Maximum number of indoor units			13	16	20	24	27	
Working temp.	Cooling	°C	-5~50					
	Heating	°C	-23~21					

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
* All the specifications are tested under nominal condition (in cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; in heating, indoor temp. is 20°C DB; in heating, outdoor temp. is 7°C DB/6°C WB)

DRV 5 T1 380~415V



DV08IMVEVA
DV10IMVEVA
DV12IMVEVA
DV14IMVEVA
DV16IMVEVA



DV18IMVEVA
DV20IMVEVA
DV22IMVEVA
DV24IMVEVA
DV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			DV18IMVEVA	DV20IMVEVA	DV22IMVEVA	DV24IMVEVA	DV26IMVEVA
Combination model			/	/	/	/	/
			/	/	/	/	/
			/	/	/	/	/
			/	/	/	/	/
Capacity	Capacity range	HP	18	20	22	24	26
	Cooling	kW	50.4	56.0	61.5	68.0	73.5
	Heating	kW	56.5	61.5	69.0	73.0	82.5
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	14.30	15.10	16.50	17.60
		Max power input	kW	21.400	25.100	28.500	29.100
		Rated current	A	24.14	25.49	27.86	31.74
		Max current	A	36.13	42.37	48.11	55.80
	Heating	Rated power input	kW	13.40	14.60	15.40	16.80
		Max power input	kW	17.70	22.70	25.50	26.50
		Rated current	A	22.62	24.65	26.00	29.88
		Max current	A	29.88	38.32	43.05	44.74
	EER		3.52	3.71	3.73	3.86	3.91
	COP		4.22	4.21	4.48	4.35	4.66
	SEER		6.50	6.35	6.20	6.03	5.86
	SCOP		4.65	4.55	4.40	4.26	4.15
Performance	Air flow (H)	m³/h	17000	17000	18000	18000	19000
	Sound pressure level (H)	dB(A)	61	61	61	62	62
	Sound power level (H)	dB(A)	72	72	72	73	73
Installation	External dimensions(W/D/H)	mm	1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838				
	Net/Shipping weight	kg	287/317				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		1INV	2INV	2INV	2INV	2INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	15.88	15.88
	Refrigerant gas pipe	mm	28.58	28.58	28.58	28.58	28.58
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		30	33	36	40	43
Working temp.	Cooling	°C	-5~50				
	Heating	°C	-23~21				

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV28IMVEVA	DV30IMVEVA	DV32IMVEVA	DV34IMVEVA
Combination model			DV14IMVEVA	DV14IMVEVA	DV16IMVEVA	DV16IMVEVA
			DV14IMVEVA	DV16IMVEVA	DV16IMVEVA	DV18IMVEVA
			/	/	/	/
			/	/	/	/
Capacity	Capacity range	HP	28	30	32	34
	Cooling	kW	80.0	85.0	90.0	95.4
	Heating	kW	90.0	95.0	100.0	106.5
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	21.80	22.70	23.60
		Max power input	kW	32.800	35.600	38.400
		Rated current	A	36.80	38.32	39.84
		Max current	A	55.37	60.10	64.83
	Heating	Rated power input	kW	20.60	21.50	22.40
		Max power input	kW	30.20	33.50	36.80
		Rated current	A	34.78	36.30	37.82
		Max current	A	50.98	56.55	62.13
	EER		3.67	3.74	3.81	3.66
	COP		4.37	4.42	4.46	4.33
	SEER		6.97	6.71	6.50	6.56
	SCOP		5.15	4.81	4.55	4.60
Performance	Air flow (H)	m³/h	27000	27000	27000	30500
	Sound pressure level (H)	dB(A)	62	62.5	63	63.5
	Sound power level (H)	dB(A)	73	73.5	74	74.5
Installation	External dimensions(W/D/H)	mm	980×750×1690+980×750×1690			980×750×1690+1410×750×1690
	Shipping dimensions(W/D/H)	mm	1070/850/1838+1070/850/1838			1070/850/1838+1515/850/1838
	Net/Shipping weight	kg	244/270+244/270			244/270+287/317
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		2INV	2INV	2INV	2INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20
	Refrigerant liquid pipe	mm	15.88	19.05	19.05	19.05
	Refrigerant gas pipe	mm	28.58	31.8	31.8	31.8
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		47	50	53	56
Working temp.	Cooling	°C	-5~50			
	Heating	°C	-23~21			

* All the specifications are tested under nominal condition (in cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; in heating, indoor temp. is 20°C DB, in heating, outdoor temp. is 7°C DB/6°CWB)

DRV 5 T1 380~415V



DV08IMVEVA
DV10IMVEVA
DV12IMVEVA
DV14IMVEVA
DV16IMVEVA



DV18IMVEVA
DV20IMVEVA
DV22IMVEVA
DV24IMVEVA
DV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			DV36IMVEVA	DV38IMVEVA	DV40IMVEVA	DV42IMVEVA	DV44IMVEVA	
Combination model			DV18IMVEVA	DV18IMVEVA	DV20IMVEVA	DV20IMVEVA	DV22IMVEVA	
			DV18IMVEVA	DV20IMVEVA	DV20IMVEVA	DV22IMVEVA	DV22IMVEVA	
			/	/	/	/	/	
			/	/	/	/	/	
Capacity	Capacity range	HP	36	38	40	42	44	
	Cooling	kW	100.8	106.4	112.0	117.5	123.0	
	Heating	kW	113.0	118.0	123.0	130.5	138.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	28.60	29.40	30.20	31.60	33.00
		Max power input	kW	42.800	46.500	50.200	53.600	57.000
		Rated current	A	48.28	49.63	50.98	53.35	55.71
		Max current	A	72.26	78.50	84.75	90.49	96.23
	Heating	Rated power input	kW	26.80	28.00	29.20	30.00	30.80
		Max power input	kW	35.40	40.40	45.40	48.20	51.00
		Rated current	A	45.24	47.27	49.30	50.65	52.00
		Max current	A	59.76	68.20	76.64	81.37	86.10
	EER		3.52	3.62	3.71	3.72	3.73	
	COP		4.22	4.21	4.21	4.35	4.48	
	SEER		6.60	6.51	6.43	6.34	6.26	
	SCOP		4.65	4.61	4.58	4.49	4.42	
Performance	Air flow (H)	m³/h	34000	34000	34000	35000	36000	
	Sound pressure level (H)	dB(A)	64	64	64	64	64	
	Sound power level (H)	dB(A)	75	75	75	75	75	
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690					
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838					
	Net/Shipping weight	kg	287/317+287/317	287/317+370/400	370/400+370/400	370/400+370/400	370/400+370/400	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		2INV	3INV	4INV	4INV	4INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	20	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	38.1	
	Max.total pipe lenth	m	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90	
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	18	
	External static pressure	Pa	110	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		59	63	64	64	64	
Working temp.	Cooling	°C	-5-50					
	Heating	°C	-23-21					

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV46IMVEVA	DV48IMVEVA	DV50IMVEVA	DV52IMVEVA	
Combination model			DV22IMVEVA	DV24IMVEVA	DV24IMVEVA	DV26IMVEVA	
			DV24IMVEVA	DV24IMVEVA	DV26IMVEVA	DV26IMVEVA	
			/	/	/	/	
			/	/	/	/	
Capacity	Capacity range	HP	46	48	50	52	
	Cooling	kW	129.5	136.0	141.5	147.0	
	Heating	kW	142.0	146.0	155.5	165.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	34.10	35.20	36.40	37.60
		Max power input	kW	57.600	58.200	62.100	66.000
		Rated current	A	57.57	59.42	61.45	63.48
		Max current	A	97.24	98.25	104.93	111.60
	Heating	Rated power input	kW	32.20	33.60	34.50	35.40
		Max power input	kW	52.00	53.00	56.90	60.80
		Rated current	A	54.36	56.72	58.24	59.76
		Max current	A	87.79	89.48	96.06	102.64
	EER		3.80	3.86	3.89	3.91	
	COP		4.41	4.35	4.51	4.66	
	SEER		6.17	6.09	5.99	5.91	
	SCOP		4.34	4.27	4.21	4.16	
	Performance	Air flow (H)	m³/h	36000	36000	37000	38000
		Sound pressure level (H)	dB(A)	64.5	65	65	65
Sound power level (H)		dB(A)	75.5	76	76	76	
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	370/400+370/400	370/400+370/400	370/400+370/400	370/400+370/400	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		4INV	4INV	4INV	4INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	
	Max.total pipe lenth	m	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	
	External static pressure	Pa	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	℃	-5~50				
	Heating	℃	-23~21				

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB;in heating, indoor temp.is 20°C DB,in heating, outdoor temp.is 7°C DB/6°CWB)

DRV 5 T1 380~415V



DV08IMVEVA
DV10IMVEVA
DV12IMVEVA
DV14IMVEVA
DV16IMVEVA



DV18IMVEVA
DV20IMVEVA
DV22IMVEVA
DV24IMVEVA
DV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			DV54IMVEVA	DV56IMVEVA	DV58IMVEVA	DV60IMVEVA
Combination model			DV18IMVEVA	DV18IMVEVA	DV18IMVEVA	DV20IMVEVA
			DV18IMVEVA	DV18IMVEVA	DV20IMVEVA	DV20IMVEVA
			DV18IMVEVA	DV20IMVEVA	DV20IMVEVA	DV20IMVEVA
			/	/	/	/
Capacity	Capacity range	HP	54	56	58	60
	Cooling	kW	151.2	156.8	162.4	168.0
	Heating	kW	169.5	174.5	179.5	184.5
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	42.90	43.70	44.50
		Max power input	kW	64.200	67.900	71.600
		Rated current	A	72.42	73.77	75.13
		Max current	A	108.38	114.63	120.88
	Heating	Rated power input	kW	40.20	41.40	42.60
		Max power input	kW	53.10	58.10	63.10
		Rated current	A	67.87	69.89	71.92
		Max current	A	89.64	98.08	106.53
	EER		3.52	3.59	3.65	3.71
	COP		4.22	4.21	4.21	4.21
	SEER		6.63	6.56	6.50	6.45
	SCOP		4.65	4.63	4.60	4.58
Performance	Air flow (H)	m³/h	51000	51000	51000	51000
	Sound pressure level (H)	dB(A)	65.8	65.8	65.8	65.8
	Sound power level (H)	dB(A)	76.5	76.5	76.5	76.5
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	287/317+287/317+287/317	287/317+287/317+370/400	287/317+370/400+370/400	370/400+370/400+370/400
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		3INV	4INV	5INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	38.1	38.1	41.3	41.3
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~50			
	Heating	°C	-23~21			

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV62IMVEVA	DV64IMVEVA	DV66IMVEVA	DV68IMVEVA
Combination model			DV22IMVEVA	DV22IMVEVA	DV22IMVEVA	DV22IMVEVA
			DV20IMVEVA	DV22IMVEVA	DV22IMVEVA	DV22IMVEVA
			DV20IMVEVA	DV20IMVEVA	DV22IMVEVA	DV24IMVEVA
			/	/	/	/
Capacity	Capacity range	HP	62	64	66	68
	Cooling	kW	173.5	179.0	184.5	191.0
	Heating	kW	192.0	199.5	207.0	211.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	46.70	48.10	49.50
		Max power input	kW	78.700	82.100	85.500
		Rated current	A	78.84	81.20	83.57
		Max current	A	132.86	138.60	144.34
	Heating	Rated power input	kW	44.60	45.40	46.20
		Max power input	kW	70.90	73.70	76.50
		Rated current	A	75.29	76.64	78.00
		Max current	A	119.69	124.42	129.15
	EER		3.72	3.72	3.73	3.77
	COP		4.30	4.39	4.48	4.43
	SEER		6.39	6.33	6.28	6.22
	SCOP		4.52	4.47	4.42	4.37
Performance	Air flow (H)	m³/h	52000	53000	54000	54000
	Sound pressure level (H)	dB(A)	65.8	65.8	65.8	66
	Sound power level (H)	dB(A)	76.5	76.5	76.5	77
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	370/400+370/400+370/400			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		6INV	6INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	22.2
	Refrigerant gas pipe	mm	41.3	41.3	41.3	44.5
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~50			
	Heating	°C	-23~21			

* All the specifications are tested under nominal condition (in cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°CWB)

DRV 5 T1 380~415V



DV08IMVEVA
DV10IMVEVA
DV12IMVEVA
DV14IMVEVA
DV16IMVEVA



DV18IMVEVA
DV20IMVEVA
DV22IMVEVA
DV24IMVEVA
DV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			DV70IMVEVA	DV72IMVEVA	DV74IMVEVA	DV76IMVEVA	DV78IMVEVA
Combination model			DV22IMVEVA	DV24IMVEVA	DV26IMVEVA	DV26IMVEVA	DV26IMVEVA
			DV24IMVEVA	DV24IMVEVA	DV24IMVEVA	DV26IMVEVA	DV26IMVEVA
			DV24IMVEVA	DV24IMVEVA	DV24IMVEVA	DV24IMVEVA	DV26IMVEVA
			/	/	/	/	/
Capacity	Capacity range	HP	70	72	74	76	78
	Cooling	kW	197.5	204.0	209.5	215.0	220.5
	Heating	kW	215.0	219.0	228.5	238.0	247.5
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	51.70	52.80	54.00	55.20
		Max power input	kW	86.700	87.300	91.200	95.100
		Rated current	A	87.28	89.14	91.16	93.19
		Max current	A	146.37	147.38	154.05	160.73
	Heating	Rated power input	kW	49.00	50.40	51.30	52.20
		Max power input	kW	78.50	79.50	83.40	87.30
		Rated current	A	82.72	85.09	86.61	88.12
		Max current	A	132.52	134.21	140.80	147.38
	EER		3.82	3.86	3.88	3.89	3.91
	COP		4.39	4.35	4.45	4.56	4.66
	SEER		6.16	6.10	6.04	5.98	5.92
	SCOP		4.32	4.27	4.23	4.20	4.16
Performance	Air flow (H)	m³/h	54000	54000	55000	56000	57000
	Sound pressure level (H)	dB(A)	66.5	66.8	66.8	66.8	66.8
	Sound power level (H)	dB(A)	77.5	77.8	77.8	77.8	77.7
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	370/400+370/400+370/400				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		6INV	6INV	6INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30	30
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	22.2	22.2
	Refrigerant gas pipe	mm	44.5	44.5	44.5	44.5	44.5
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64	64
Working temp.	Cooling	°C	-5~50				
	Heating	°C	-23~21				

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV80IMVEVA	DV82IMVEVA	DV84IMVEVA	DV86IMVEVA	DV88IMVEVA
Combination model			DV20IMVEVA	DV20IMVEVA	DV20IMVEVA	DV20IMVEVA	DV22IMVEVA
			DV20IMVEVA	DV20IMVEVA	DV20IMVEVA	DV22IMVEVA	DV22IMVEVA
			DV20IMVEVA	DV20IMVEVA	DV22IMVEVA	DV22IMVEVA	DV22IMVEVA
			DV20IMVEVA	DV22IMVEVA	DV22IMVEVA	DV22IMVEVA	DV22IMVEVA
Capacity	Capacity range	HP	80	82	84	86	88
	Cooling	kW	224.0	229.5	235.0	240.5	246.0
	Heating	kW	246.0	253.5	261.0	268.5	276.0
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	60.40	61.80	63.20	64.60
		Max power input	kW	100.400	103.800	107.200	110.600
		Rated current	A	101.97	104.33	106.69	109.06
		Max current	A	169.50	175.24	180.98	186.72
	Heating	Rated power input	kW	58.40	59.20	60.00	60.80
		Max power input	kW	90.80	93.60	96.40	99.20
		Rated current	A	98.59	99.94	101.29	102.64
		Max current	A	153.29	158.02	162.74	167.47
	EER		3.71	3.71	3.72	3.72	3.73
	COP		4.21	4.28	4.35	4.42	4.48
	SEER		6.46	6.41	6.37	6.33	6.29
	SCOP		4.58	4.53	4.49	4.46	4.43
Performance	Air flow (H)	m³/h	68000	69000	70000	71000	72000
	Sound pressure level (H)	dB(A)	67	67	67	67	67
	Sound power level (H)	dB(A)	78	78	78	78	78
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690+1410×750×1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	370/400+370/400+370/400+370/400				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40	40
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	25.4	25.4
	Refrigerant gas pipe	mm	44.5	44.5	44.5	50.8	50.8
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18	18
	External static pressure	Pa	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64	64
Working temp.	Cooling	°C	-5~50				
	Heating	°C	-23~21				

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB;In heating, indoor temp.is 20°C DB,in heating, outdoor temp.is 7°C DB/6°CWB)

DRV 5 T1 380~415V



DV08IMVEVA
DV10IMVEVA
DV12IMVEVA
DV14IMVEVA
DV16IMVEVA



DV18IMVEVA
DV20IMVEVA
DV22IMVEVA
DV24IMVEVA
DV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			DV90IMVEVA	DV92IMVEVA	DV94IMVEVA	DV96IMVEVA
Combination model			DV24IMVEVA	DV24IMVEVA	DV24IMVEVA	DV24IMVEVA
			DV22IMVEVA	DV24IMVEVA	DV24IMVEVA	DV24IMVEVA
			DV22IMVEVA	DV22IMVEVA	DV24IMVEVA	DV24IMVEVA
			DV22IMVEVA	DV22IMVEVA	DV22IMVEVA	DV24IMVEVA
Capacity	Capacity range	HP	90	92	94	96
	Cooling	kW	252.5	259.0	265.5	272.0
	Heating	kW	280.0	284.0	288.0	292.0
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	67.10	68.20	69.30
		Max power input	kW	114.600	115.200	115.800
		Rated current	A	113.28	115.14	116.99
		Max current	A	193.47	194.48	195.49
	Heating	Rated power input	kW	63.00	64.40	65.80
		Max power input	kW	103.00	104.00	105.00
		Rated current	A	106.36	108.72	111.08
		Max current	A	173.89	175.57	177.26
	EER		3.76	3.80	3.83	3.86
	COP		4.44	4.41	4.38	4.35
	SEER		6.24	6.19	6.15	6.11
	SCOP		4.38	4.35	4.31	4.27
Performance	Air flow (H)	m³/h	72000	72000	72000	72000
	Sound pressure level (H)	dB(A)	67.5	67.5	68	68
	Sound power level (H)	dB(A)	78.5	78.5	78.8	79
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690+1410×750×1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	370/400+370/400+370/400+370/400			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4
	Refrigerant gas pipe	mm	50.8	50.8	50.8	50.8
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~50			
	Heating	°C	-23~21			

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV98IMVEVA	DV100IMVEVA	DV102IMVEVA	DV104IMVEVA
Combination model			DV26IMVEVA	DV26IMVEVA	DV26IMVEVA	DV26IMVEVA
			DV24IMVEVA	DV26IMVEVA	DV26IMVEVA	DV26IMVEVA
			DV24IMVEVA	DV24IMVEVA	DV26IMVEVA	DV26IMVEVA
			DV24IMVEVA	DV24IMVEVA	DV24IMVEVA	DV26IMVEVA
Capacity	Capacity range	HP	98	100	102	104
	Cooling	kW	277.5	283.0	288.5	294.0
	Heating	kW	301.5	311.0	320.5	330.0
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	71.60	72.80	74.00
		Max power input	kW	120.300	124.200	128.100
		Rated current	A	120.88	122.90	124.93
		Max current	A	203.18	209.85	216.53
	Heating	Rated power input	kW	68.10	69.00	69.90
		Max power input	kW	109.90	113.80	117.70
		Rated current	A	114.97	116.49	118.01
		Max current	A	185.53	192.12	198.70
	EER		3.88	3.89	3.90	3.91
	COP		4.43	4.51	4.59	4.66
	SEER		6.06	6.01	5.97	5.93
	SCOP		4.24	4.21	4.19	4.16
Performance	Air flow (H)	m³/h	73000	74000	75000	76000
	Sound pressure level (H)	dB(A)	68	68	68	68
	Sound power level (H)	dB(A)	79	79	79	79
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690+1410×750×1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	370/400+370/400+370/400+370/400			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4
	Refrigerant gas pipe	mm	54.1	54.1	54.1	54.1
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	m	18	18	18	18
	External static pressure	Pa	110	110	110	110
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling	°C	-5~50			
	Heating	°C	-23~21			

* All the specifications are tested under nominal condition (in cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; in heating, indoor temp. is 20°C DB; in heating, outdoor temp. is 7°C DB/6°CWB)

DRV5-RC



043 Features & Benefits

045 Outdoor Specification

FEATURES & BENEFITS

System Introduction

Typical 3 pipe system

What is DRV 5-RC

- Cooling and heating simultaneously with only one outdoor unit
- Heat recovery system

2-pipe system

3-pipe system

Variable operation mode in one system

Outdoor Structure

Vp (valve pipe) box structure overview

Overview

- Specially designed for DRV 5-RC, greatly reduced the volume
- Individual Valve + Pipe Box for Heat Recovery
- High comfort : Individual control box and change over for one group indoor units
- Threaded joint connection, easy for installation

Model name	Max.capacity of indoor(kw)	Power Supply	Max. indoor units	Dimension
VP1-112B	x≤11.2	1/220-240/50/60	5	388/200/277
VP1-180B	11.2<x≤18	1/220-240/50/60	8	388/200/277
VP1-280B	18<x≤28	1/220-240/50/60	8	388/200/277
VP4-450B	≤ 45	1/220-240/50/60	20	405/300/421

System Introduction

Wide temperature operation range

DRV 5-RC 3/380~415/50(60)



DV08IMVURA
DV10IMVURA
DV12IMVURA
DV14IMVURA



DV16IMVURA
DV18IMVURA
DV20IMVURA
DV22IMVURA

- Full DC inverter compressors
- Automatic oil balancing
- Instant cooling and heating

Model			DV08IMVURA	DV10IMVURA	DV12IMVURA	DV14IMVURA
Combination model			/	/	/	/
			/	/	/	/
			/	/	/	/
			/	/	/	/
Capacity	Capacity range	HP	8	10	12	14
	Cooling	kW	22.4	28	33.5	40
	Heating	kW	25	31.5	37.5	45
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	5.09	6.95	8.63
		Max power input	kW	12.80	13.80	18.20
		Rated current	A	8.41	11.47	18.45
		Max current	A	21.14	22.79	31.71
	Heating	Rated power input	kW	5.08	6.73	8.54
		Max power input	kW	11.50	12.50	17.40
		Rated current	A	8.39	11.12	17.69
		Max current	A	18.99	20.64	30.39
	EER		4.40	4.03	3.88	3.58
	COP		4.92	4.68	4.39	4.20
	SEER		6.23	6.32	6.17	6.12
	SCOP		4.12	4.03	3.93	3.72
Performance	Air flow (H)	m³/h	12000	12000	13500	13500
	Sound pressure level (H)	dB(A)	57	58	60	61
	Sound power level (H)	dB(A)	78	79	82	82
Installation	External dimensions(W/D/H)	mm	980/750/1690			
	Shipping dimensions(W/D/H)	mm	1070/850/1838			
	Net/Shipping weight	kg	246/271		257/282	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN
	Compressor quantity		1INV	1INV	1INV	1INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4
	Refrigerant high gas pipe	m	19.05	19.05	22.22	22.22
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18
	External static pressure	%	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50~130	50~130	50~130	50~130
	Maximum number of indoor units	°C	13	16	20	24
Working temp.	Cooling	°C	-5~50			
	Heating		-23~21			

Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.

Model			DV16IMVURA	DV18IMVURA	DV20IMVURA	DV22IMVURA
Combination model			/	/	/	/
			/	/	/	/
			/	/	/	/
			/	/	/	/
Capacity	Capacity range	HP	16	18	20	22
	Cooling	kW	45	50	56	63
	Heating	kW	50	56	63	69
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	12.68	14.75	16.92
		Max power input	kW	25.10	28.50	32.00
		Rated current	A	20.93	24.36	27.94
		Max current	A	41.45	47.07	52.85
	Heating	Rated power input	kW	12.02	14.25	16.36
		Max power input	kW	22.70	25.50	29.40
		Rated current	A	19.85	23.53	27.02
		Max current	A	37.49	42.11	48.55
	EER		3.55	3.39	3.31	3.22
	COP		4.16	3.93	3.85	3.69
	SEER		6.02	5.92	5.71	5.63
	SCOP		3.67	3.62	3.57	3.48
Performance	Air flow (H)	m³/h	17000	17000	19000	19000
	Sound pressure level (H)	dB(A)	62	63	63	64
	Sound power level (H)	dB(A)	83	84	84	85
Installation	External dimensions(W/D/H)	mm	1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838			
	Net/Shipping weight	kg	366/395		375/404	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN
	Compressor quantity		2INV	2INV	2INV	2INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10
	Refrigerant liquid pipe	mm	12.7	15.88	15.88	15.88
	Refrigerant gas pipe	mm	28.58	28.58	28.58	28.58
	Refrigerant high gas pipe	m	25.4	25.4	25.4	25.4
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18
	External static pressure	%	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50~130	50~130	50~130	50~130
	Maximum number of indoor units	°C	27	30	33	36
Working temp.	Cooling	°C	-5~50			
	Heating		-23~21			

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB;In heating, indoor temp.is 20°C DB;In heating, outdoor temp.is 7°C DB/6°C WB)

DRV 5-RC 3/380~415/50(60)



DV08IMVURA
DV10IMVURA
DV12IMVURA
DV14IMVURA



DV16IMVURA
DV18IMVURA
DV20IMVURA
DV22IMVURA

Model			DV24IMVURA	DV26IMVURA	DV28IMVURA	DV30IMVURA
Combination model			DV12IMVURA	DV12IMVURA	DV14IMVURA	DV14IMVURA
			DV12IMVURA	DV14IMVURA	DV14IMVURA	DV16IMVURA
			/	/	/	/
			/	/	/	/
Capacity	Capacity range	HP	24	26	28	30
	Cooling	kW	67.0	73.5	80.0	85.0
	Heating	kW	75.0	82.5	90.0	95.0
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	17.27	19.81	22.35
		Max power input	kW	36.400	37.40	44.30
		Rated current	A	28.52	32.71	39.39
		Max current	A	60.115	61.77	73.16
	Heating	Rated power input	kW	17.08	19.26	21.43
		Max power input	kW	34.800	35.80	41.10
		Rated current	A	28.21	31.80	37.54
		Max current	A	57.472	59.12	67.88
	EER		3.88	3.71	3.58	3.56
	COP		4.39	4.28	4.20	4.18
	SEER		6.14	6.12	6.10	6.04
	SCOP		3.93	3.82	3.72	3.69
Performance	Air flow (H)	m³/h	27000	27000	27000	30500
	Sound pressure level (H)	dB(A)	63	63.5	64	64.5
	Sound power level (H)	dB(A)	85	85	85	85.5
Installation	External dimensions(W/D/H)	mm	980/750/1690+980/750/1690			980/750/1690+1410/750/1690
	Shipping dimensions(W/D/H)	mm	1070/850/1838+1070/850/1838			1070/850/1838+1515/850/1838
	Net/Shipping weight	kg	257/282+257/282			257/282+366/395
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		2INV	2INV	2INV	3INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	19.05
	Refrigerant gas pipe	mm	28.58	28.58	28.58	31.8
	Refrigerant high gas pipe	m	25.4	25.4	25.4	28.58
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18
	External static pressure	%	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50~130	50~130	50~130	50~130
	Maximum number of indoor units	°C	40	43	47	50
Working temp.	Cooling	°C	-5~50			
	Heating		-23~21			

Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.

- Full DC inverter compressors
- Automatic oil balancing
- Instant cooling and heating

Model			DV32IMVURA	DV34IMVURA	DV36IMVURA	DV38IMVURA	DV40IMVURA
Combination model			DV16IMVURA	DV16IMVURA	DV18IMVURA	DV18IMVURA	DV20IMVURA
			DV16IMVURA	DV18IMVURA	DV18IMVURA	DV20IMVURA	DV20IMVURA
			/	/	/	/	/
			/	/	/	/	/
Capacity	Capacity range	HP	32	34	36	38	40
	Cooling	kW	90.0	95.0	100.0	106.0	112.0
	Heating	kW	100.0	106.0	112.0	119.0	126.0
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	25.35	27.43	29.50	31.67
		Max power input	kW	50.20	53.60	57.00	60.50
		Rated current	A	41.87	45.29	48.72	52.30
		Max current	A	82.91	88.52	94.14	105.70
	Heating	Rated power input	kW	24.04	26.27	28.50	30.61
		Max power input	kW	45.40	48.20	51.00	54.90
		Rated current	A	39.70	43.38	47.07	50.56
		Max current	A	74.98	79.60	84.23	90.67
	EER		3.55	3.46	3.39	3.35	3.31
	COP		4.16	4.04	3.93	3.89	3.85
	SEER		6.00	5.95	5.91	5.80	5.71
	SCOP		3.67	3.64	3.62	3.59	3.57
Performance	Air flow (H)	m³/h	34000	34000	34000	36000	38000
	Sound pressure level (H)	dB(A)	65	65.5	66	66	66
	Sound power level (H)	dB(A)	86	86.5	87	87	87
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	366/395+366/395			366/395+375/404	375/404+375/404
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		4INV	4INV	4INV	4INV	4INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	20
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	31.8	31.8	38.1	38.1	38.1
	Refrigerant high gas pipe	m	28.58	28.58	34.9	34.9	34.9
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18	18
	External static pressure	%	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	°C	53	56	59	63	64
Working temp.	Cooling	°C	-5~50				
	Heating		-23~21				

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°C WB)

DRV 5-RC 3/380~415/50(60)



DV08IMVURA
DV10IMVURA
DV12IMVURA
DV14IMVURA



DV16IMVURA
DV18IMVURA
DV20IMVURA
DV22IMVURA

- Full DC inverter compressors
- Automatic oil balancing
- Instant cooling and heating

Model			DV42IMVURA	DV44IMVURA	DV46IMVURA
Combination model			DV20IMVURA	DV22IMVURA	DV14IMVURA
			DV22IMVURA	DV22IMVURA	DV16IMVURA
			/	/	DV16IMVURA
			/	/	/
Capacity	Capacity range	HP	42	44	46
	Cooling	kW	119.0	126.0	130.0
	Heating	kW	132.0	138.0	145.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	36.48	39.13
		Max power input	kW	65.00	66.00
		Rated current	A	60.25	60.32
		Max current	A	107.35	114.61
	Heating	Rated power input	kW	35.06	37.40
		Max power input	kW	59.80	60.80
		Rated current	A	57.91	61.76
		Max current	A	98.76	100.41
	EER		3.26	3.22	3.56
	COP		3.76	3.69	4.17
	SEER		5.67	5.63	6.03
	SCOP		3.52	3.48	3.68
Performance	Air flow (H)	m³/h	38000	38000	47500
	Sound pressure level (H)	dB(A)	66.5	67	66.5
	Sound power level (H)	dB(A)	87.5	88	87.5
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690		980/750/1690+1410/750/1690+1410/750/1690
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838		1070/850/1838+1515/850/1838+1515/850/1838
	Net/Shipping weight	kg	375/404+375/404		257/282+366/395+366/395
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		DAIKIN	DAIKIN	DAIKIN
			ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		4INV	4INV	5INV
	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	kg	20	20	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05
	Refrigerant gas pipe	mm	38.1	38.1	38.1
	Refrigerant high gas pipe	m	34.9	34.9	34.9
	Max.total pipe lenth	m	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30
	Standard drop between I.U *4	Pa	18	18	18
	External static pressure	%	110	110	110
Connection ratio	Connectable indoor unit ratio		50-130	50-130	50-130
	Maximum number of indoor units	°C	64	64	64
Working temp.	Cooling	°C	-5~50		
	Heating		-23~21		

Max drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

Model			DV48IMVURA	DV50IMVURA	DV52IMVURA	DV54IMVURA	DV56IMVURA
Combination model			DV16IMVURA	DV16IMVURA	DV16IMVURA	DV18IMVURA	DV18IMVURA
			DV16IMVURA	DV16IMVURA	DV18IMVURA	DV18IMVURA	DV18IMVURA
			DV16IMVURA	DV18IMVURA	DV18IMVURA	DV18IMVURA	DV20IMVURA
			/	/	/	/	/
Capacity	Capacity range	HP	48	50	52	54	56
	Cooling	kW	135.0	140.0	145.0	150.0	156.0
	Heating	kW	150.0	156.0	162.0	168.0	175.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	38.03	40.10	42.17	44.25
		Max power input	kW	75.30	78.70	82.10	85.50
		Rated current	A	62.80	66.23	69.65	73.08
		Max current	A	124.36	129.97	135.59	141.20
	Heating	Rated power input	kW	36.06	38.29	40.52	42.75
		Max power input	kW	68.10	70.90	73.70	76.50
		Rated current	A	59.55	63.23	66.92	70.60
		Max current	A	112.47	117.09	121.72	126.34
	EER		3.55	3.49	3.44	3.39	3.36
	COP		4.16	4.07	4.00	3.93	3.90
	SEER		6.00	5.96	5.93	5.91	5.83
	SCOP		3.67	3.65	3.64	3.62	3.60
Performance	Air flow (H)	m³/h	51000	51000	51000	51000	53000
	Sound pressure level (H)	dB(A)	67	67	67.5	68	68
	Sound power level (H)	dB(A)	88	88	88.5	89	89
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	366/395+366/395+366/395				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		6INV	6INV	6INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	38.1
	Refrigerant high gas pipe	m	34.9	34.9	34.9	34.9	34.9
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18	18
	External static pressure	%	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	°C	64	64	64	64	64
Working temp.	Cooling	°C	-5~50				
	Heating		-23~21				

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°C WB)

DRV 5-RC 3/380~415/50(60)



DV08IMVURA
DV10IMVURA
DV12IMVURA
DV14IMVURA



DV16IMVURA
DV18IMVURA
DV20IMVURA
DV22IMVURA

Model			DV58IMVURA	DV60IMVURA	DV62IMVURA	DV64IMVURA	DV66IMVURA
Combination model			DV18IMVURA	DV20IMVURA	DV20IMVURA	DV20IMVURA	DV22IMVURA
			DV20IMVURA	DV20IMVURA	DV20IMVURA	DV22IMVURA	DV22IMVURA
			DV20IMVURA	DV20IMVURA	DV22IMVURA	DV22IMVURA	DV22IMVURA
			/	/	/	/	/
Capacity	Capacity range	HP	58	60	62	64	66
	Cooling	kW	162.0	168.0	175.0	182.0	189.0
	Heating	kW	182.0	189.0	195.0	201.0	207.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	48.59	50.76	53.40	56.05
		Max power input	kW	92.50	96.00	97.00	98.00
		Rated current	A	80.24	83.82	88.19	92.57
		Max current	A	152.76	158.54	160.20	163.50
	Heating	Rated power input	kW	46.98	49.09	51.43	53.76
		Max power input	kW	84.30	88.20	89.20	91.20
		Rated current	A	77.58	81.07	84.93	88.79
		Max current	A	139.22	145.66	147.31	150.62
	EER		3.33	3.31	3.28	3.25	3.22
	COP		3.87	3.85	3.79	3.74	3.69
	SEER		5.77	5.71	5.68	5.66	5.63
	SCOP		3.58	3.57	3.53	3.51	3.48
Performance	Air flow (H)	m³/h	55000	57000	57000	57000	57000
	Sound pressure level (H)	dB(A)	68	68	68	68.5	69
	Sound power level (H)	dB(A)	89	89	89	89.5	90
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	366/395+375/404+375/404	375/404+375/404+375/404			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		6INV	6INV	6INV	6INV	6INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	30	30	30	30
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	41.3	41.3	41.3	41.3	41.3
	Refrigerant high gas pipe	m	38.1	38.1	38.1	38.1	38.1
	Max.total pipe lenth	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18	18
	External static pressure	%	110	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	°C	64	64	64	64	64
Working temp.	Cooling	°C	-5~50				
	Heating		-23~21				

Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.

- Full DC inverter compressors
- Automatic oil balancing
- Instant cooling and heating

Model			DV68IMVURA	DV70IMVURA	DV72IMVURA	DV74IMVURA
Combination model			DV16IMVURA	DV16IMVURA	DV18IMVURA	DV18IMVURA
			DV16IMVURA	DV18IMVURA	DV18IMVURA	DV18IMVURA
			DV18IMVURA	DV18IMVURA	DV18IMVURA	DV18IMVURA
			DV18IMVURA	DV18IMVURA	DV18IMVURA	DV20IMVURA
Capacity	Capacity range	HP	68	70	72	74
	Cooling	kW	190.0	195.0	200.0	206.0
	Heating	kW	212.0	218.0	224.0	231.0
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	54.85	56.92	59.00
		Max power input	kW	107.20	110.60	114.00
		Rated current	A	90.59	94.01	97.43
		Max current	A	177.04	182.66	188.27
	Heating	Rated power input	kW	52.54	54.77	57.00
		Max power input	kW	96.40	99.20	102.00
		Rated current	A	86.77	90.45	94.13
		Max current	A	159.21	163.83	168.45
	EER		3.46	3.43	3.39	3.37
	COP		4.04	3.98	3.93	3.91
	SEER		5.95	5.93	5.91	5.85
	SCOP		3.64	3.63	3.62	3.61
Performance	Air flow (H)	m³/h	68000	68000	68000	70000
	Sound pressure level (H)	dB(A)	69	69	69	69
	Sound power level (H)	dB(A)	90	90	90	90
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	366/395+366/395+366/395+366/395			366/395+366/395+366/395+375/404
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	22.2
	Refrigerant gas pipe	mm	44.5	44.5	44.5	44.5
	Refrigerant high gas pipe	m	41.3	41.3	41.3	41.3
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18
	External static pressure	%	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50-130	50-130	50-130	50-130
	Maximum number of indoor units	°C	64	64	64	64
Working temp.	Cooling	°C	-5~50			
	Heating		-23~21			

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°C WB)

DRV 5-RC 3/380~415/50(60)



DV08IMVURA
DV10IMVURA
DV12IMVURA
DV14IMVURA



DV16IMVURA
DV18IMVURA
DV20IMVURA
DV22IMVURA

- Full DC inverter compressors
- Automatic oil balancing
- Instant cooling and heating

Model			DV76IMVURA	DV78IMVURA	DV80IMVURA	DV82IMVURA
Combination model			DV18IMVURA	DV18IMVURA	DV20IMVURA	DV20IMVURA
			DV18IMVURA	DV20IMVURA	DV20IMVURA	DV20IMVURA
			DV20IMVURA	DV20IMVURA	DV20IMVURA	DV20IMVURA
			DV20IMVURA	DV20IMVURA	DV20IMVURA	DV22IMVURA
Capacity	Capacity range	HP	76	78	80	82
	Cooling	kW	212.0	218.0	224.0	231.0
	Heating	kW	238.0	245.0	252.0	258.0
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	63.34	65.50	67.67
		Max power input	kW	121.00	124.50	128.00
		Rated current	A	104.60	108.18	111.76
		Max current	A	199.83	205.61	211.39
	Heating	Rated power input	kW	61.23	63.34	65.45
		Max power input	kW	109.80	113.70	117.60
		Rated current	A	101.12	104.61	108.10
		Max current	A	181.34	187.78	194.22
	EER		3.35	3.33	3.31	3.28
	COP		3.89	3.87	3.85	3.81
	SEER		5.80	5.75	5.71	5.69
	SCOP		3.59	3.58	3.57	3.54
Performance	Air flow (H)	m³/h	72000	74000	76000	76000
	Sound pressure level (H)	dB(A)	69	69	69	69
	Sound power level (H)	dB(A)	90	90	90	90
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	366/395+366/395+375/404+375/404366/395+375/404+375/404+375/404375/404+375/404+375/404+375/404			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity		8INV	8INV	8INV	8INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	40	40	40	40
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	22.2
	Refrigerant gas pipe	mm	44.5	44.5	44.5	44.5
	Refrigerant high gas pipe	m	41.3	41.3	41.3	41.3
	Max.total pipe lenth	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40
	Max drop between I.U *3	m	30	30	30	30
	Standard drop between I.U *4	Pa	18	18	18	18
	External static pressure	%	110	110	110	110
Connection ratio	Connectable indoor unit ratio		50~130	50~130	50~130	50~130
	Maximum number of indoor units	°C	64	64	64	64
Working temp.	Cooling	°C	-5~50			
	Heating		-23~21			

Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.

Model			DV84IMVURA	DV86IMVURA	DV88IMVURA	
Combination model			DV20IMVURA	DV20IMVURA	DV22IMVURA	
			DV20IMVURA	DV22IMVURA	DV22IMVURA	
			DV22IMVURA	DV22IMVURA	DV22IMVURA	
			DV22IMVURA	DV22IMVURA	DV22IMVURA	
Capacity	Capacity range	HP	84	86	88	
	Cooling	kW	238.0	245.0	252.0	
	Heating	kW	264.0	270.0	276.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	
	Cooling	Rated power input	kW	72.97	75.61	78.26
		Max power input	kW	130.00	131.00	132.00
		Rated current	A	120.51	124.88	129.25
		Max current	A	214.70	216.35	218.00
	Heating	Rated power input	kW	70.13	72.46	74.80
		Max power input	kW	119.60	120.60	121.60
		Rated current	A	115.81	119.67	123.53
		Max current	A	197.52	199.17	200.82
	EER		3.26	3.24	3.22	
	COP		3.76	3.73	3.69	
	SEER		5.67	5.65	5.63	
	SCOP		3.52	3.50	3.48	
Performance	Air flow (H)	m³/h	76000	76000	76000	
	Sound pressure level (H)	dB(A)	69.5	70	70	
	Sound power level (H)	dB(A)	90.5	91	91	
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838			
	Net/Shipping weight	kg	375/404+375/404+375/404+375/404			
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	
			ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	
	Refrigerant charge	kg	40	40	40	
	Refrigerant liquid pipe	mm	22.2	25.4	25.4	
	Refrigerant gas pipe	mm	44.5	50.8	50.8	
	Refrigerant high gas pipe	m	41.3	44.5	44.5	
	Max.total pipe lenth	m	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	
	Max drop between I.U.&O.U (O.U down/up) *1	m	110/90	110/90	110/90	
	Standard drop between .U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	
	Standard drop between I.U *4	Pa	18	18	18	
	External static pressure	%	110	110	110	
Connection ratio	Connectable indoor unit ratio		50~130	50~130	50~130	
	Maximum number of indoor units	°C	64	64	64	
Working temp.	Cooling	°C	-5~50			
	Heating		-23~21			

* All the specifications are tested under nominal condition(In cooling, indoor temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; In heating, indoor temp. is 20°C DB; In heating, outdoor temp. is 7°C DB/6°C WB)



DRV III PLUS

DC FAN MOTOR

- Full DC Inverter Technology
- Max. 4 Modules Combination 64HP
- Total Pipe length 500m, Height Drop 50m
- Without oil Balancing Pipe



057 Features & Benefits

061 Outdoor Specification

FEATURES & BENEFITS

Energy Saving

High efficiency DC INVERTER scroll compressor



FULL DC INVERTER

180° vector DC inverter drive,
17% compressor efficiency improved

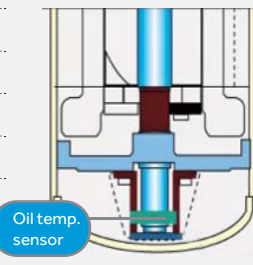
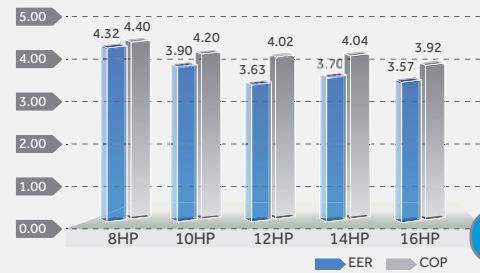
FLEXIBLE SCROLL
INVERTER TECHNOLOGY

Flexible scroll design, maximize the compressor efficiency
15-120rps adjustment ensures wide range operating (-5~53)

HIGH EFFICIENCY
MOTOR

30% compressor efficiency improved

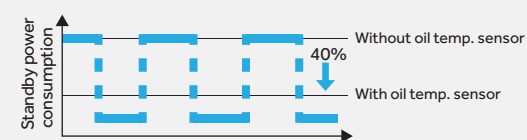
Smart controlled oil temp., 40% stand-by power consumption reduced



Certain compressor oil temp.

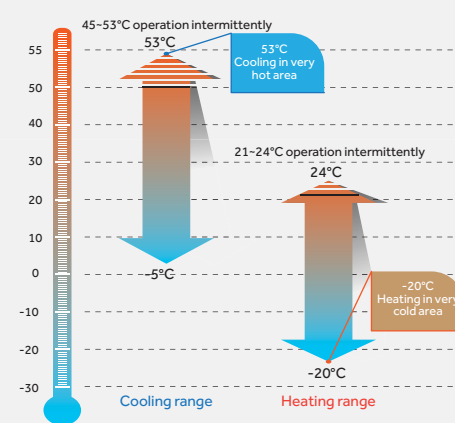
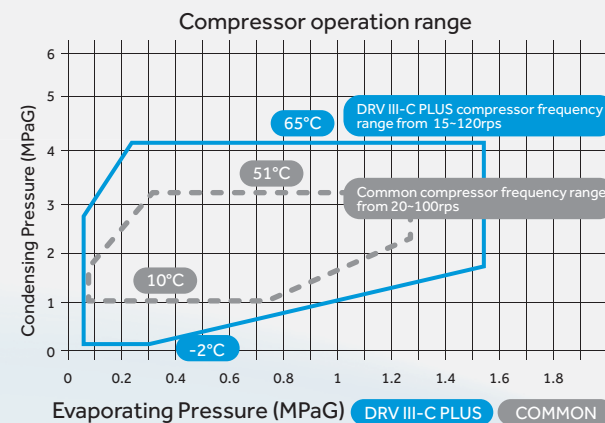


Compressor heating band starts or stops according to the oil temp, lowering the stand-by power consumption.

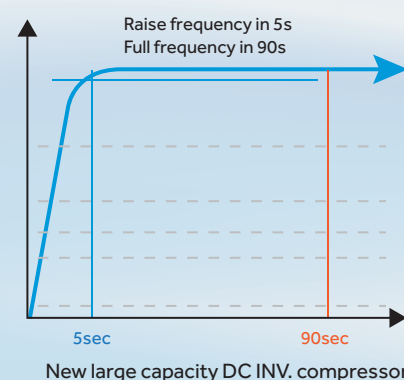


Comfort

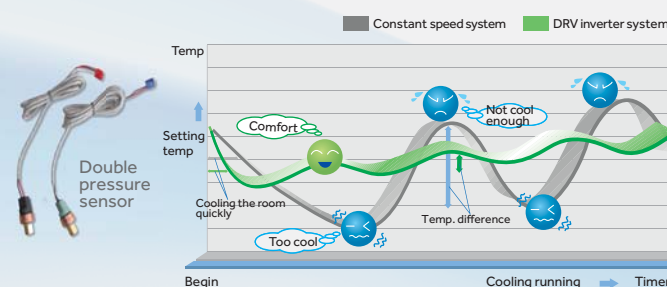
Mitsubishi large capacity compressor, wider operating range



Quick start, quick cooling and heating



Double pressure sensors, $\pm 0.5^\circ\text{C}$ temp. precise control



Comfort

Low sound level, quiet and comfort



642mm big fan, large air flow

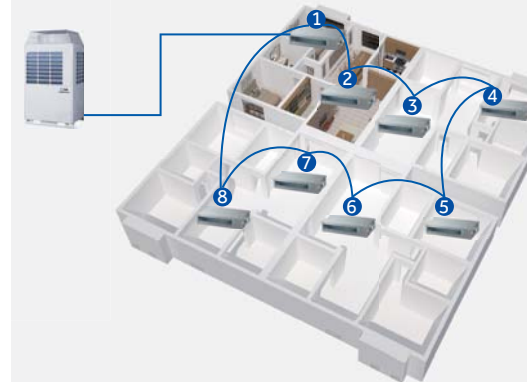
DC fan motor, low sound level

Night mode set by PCB, sound level low to 40dB(A)

Convenience

Separated machine room and air supply room, easier installation and testing

Automatic addressing



4-way connection



One-key commissioning



No oil balancing pipe, easy installation and maintenance



FEATURES & BENEFITS

Convenience

Long pipe length, high height drop

Max.
total pipe length
500m

50m(O.D.U up)
40m(O.D.U down)

15m

DRV III PLUS

DC FAN MOTOR

Reliability

Low pressure loss high efficiency oil separator

Compressor air discharging

First step oil separating

Second step oil separating

Low pressure loss design

The first step oil separating is realized by the high speed revolution of refrigerant in oil separator

The second step oil separating is realized by the filter net in oil separator

High speed centrifugal oil return, zero pressure loss and 5% performance improved

Oil separating efficiency up to 99%!

Soft start of compressor prevents the shock to the pipeline and extends lifespan

	INV. COMPRESSOR A	INV. COMPRESSOR A	PIPELINE STRESS CURVE LINE	PIPELINE EFFECT
DRV III-C PLUS	FREQUENCY 1 25RPS 75RPS	75RPS		
Other	INV.+FIX 25RPS 25+FIX on	25+FIX on		

Multi-protection, longer lifespan

Safe Earthing

Temp. Protection

Voltage Protection

Pressure Protection

Liquid Return Protection

Phase-break Protection

Thunder Protection

Overheating Protection

• 059 •

• 060 •

DRV III^{PLUS} 3/380~400/50(60)



DV08IMSEVA
DV10IMSEVA

8/10HP



DV12IMSEVA
DV14IMSEVA
DV16IMSEVA

12/14/16HP

Model			DV08IMSEVA	DV10IMSEVA	DV12IMSEVA	DV14IMSEVA	DV16IMSEVA	
Combination model			/	/	/	/	/	
			/	/	/	/	/	
			/	/	/	/	/	
			/	/	/	/	/	
Capacity	Capacity range	HP	8	10	12	14	16	
	Cooling	kW	25.2	28	33.5	40	45	
	Heating	kW	27.3	31.5	37.5	45	50	
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	
	Cooling	Rated power input	kW	5.83	7.18	9.24	10.8	12.61
		Max power input	kW	14.02	14.38	16.58	16.91	19.99
		Rated current	A	9.6	11.9	15.1	17.4	20.2
		Max current	A	23.1	23.7	27.1	28.4	31.6
	Heating	Rated power input	kW	6.21	7.5	9.32	11.14	12.74
		Max power input	kW	12.72	13.23	15.2	15.6	17.1
		Rated current	A	10.2	12.4	15.2	18	20.4
		Max current	A	21	21.8	24.8	25.2	27.3
	EER		4.32	3.90	3.63	3.70	3.57	
	COP		4.40	4.20	4.02	4.04	3.92	
	SEER		5.74	5.69	5.65	5.57	5.53	
	SCOP		4.36	4.31	4.29	4.20	4.15	
Performance	Air flow (H)	m³/h	12200	12200	14100	15200	15200	
	Sound pressure level (H)	dB(A)	57	57	59	59	60	
	Sound power level (H)	dB(A)	73	73	76	76	76	
Installation	External dimensions(W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	
	Shipping dimensions(W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	
	Net/Shipping weight	kg	220/236	220/236	276/295	276/295	296/315	
	Compressor type		DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		1 INV	1 INV	1 INV	1 INV	1 INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	7	7	8.5	8.5	10	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	
	Oil equalization pipe	mm	/	/	/	/	/	
	Total pipe length	m	500	500	500	500	500	
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	
	External static pressure	pa	50	50	50	50	50	
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130	
	Maximum number of indoor units		13	16	19	23	26	
Working temp.	Cooling (DB)	°C	-5~45	-5~45	-5~45	-5~45	-5~45	
	Heating (WB)	°C	-20~21	-20~21	-20~21	-20~21	-20~21	

*1 Outdoor above 50m, outdoor below 40m.

- Dual Frequency 50/60Hz-380~400V-3Ph
- DC Inverter Scroll Compressor & BLDC Fan
- Basic Modular Units: 8HP, 10HP,12HP, 14HP, 16HP
- Free Combination up to 64HP with Incremental 2HP
- Max. Indoor Units up to 64

Model			DV18IMSEVA	DV20IMSEVA	DV22IMSEVA	DV24IMSEVA	DV26IMSEVA	
Combination model			DV08IMSEVA	DV10IMSEVA	DV10IMSEVA	DV10IMSEVA	DV12IMSEVA	
			DV10IMSEVA	DV10IMSEVA	DV12IMSEVA	DV14IMSEVA	DV14IMSEVA	
			/	/	/	/	/	
			/	/	/	/	/	
Capacity	Capacity range	HP	18	20	22	24	26	
	Cooling	kW	53.2	56	61.5	68	73.5	
	Heating	kW	58.8	63	69	76.5	82.5	
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)
	Cooling	Rated power input	kW	13.01	14.36	16.42	17.98	20.04
		Max power input	kW	28.4	28.76	30.96	31.29	33.49
		Rated current	A	21.5	23.8	27	29.3	32.5
		Max current	A	46.8	47.4	50.8	52.1	55.5
	Heating	Rated power input	kW	13.71	15	16.82	18.64	20.46
		Max power input	kW	25.95	26.46	28.43	28.83	30.8
		Rated current	A	22.6	24.8	27.6	30.4	33.2
		Max current	A	42.8	43.6	46.6	47	50
	EER			4.09	3.90	3.75	3.78	3.67
	COP			4.29	4.20	4.10	4.10	4.03
	SEER			5.65	5.62	5.60	5.56	5.61
	SCOP			4.30	4.27	4.26	4.21	4.17
Performance	Air flow (H)	m³/h	24400	24400	26300	27400	29300	
	Sound pressure level (H)	dB(A)	60	60	61	61	61	
	Sound power level (H)	dB(A)	77	77	79	79	79	
Installation	External dimensions(W/D/H)		mm	990/750/1808+ 990/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808
	Shipping dimensions(W/D/H)		mm	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990
	Net/Shipping weight		kg	220/236+220/236	220/236+220/236	220/236+276/295	220/236+276/295	276/295+276/295
	Compressor type			DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1 INV +1 INV	1 INV +1 INV	1 INV +1 INV	1 INV +1 INV	1 INV +1 INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	14	14	15.5	15.5	17
	Refrigerant liquid pipe		mm	15.88	15.88	15.88	15.88	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	28.58	31.8
	Oil equalization pipe		mm	/	/	/	/	/
	Total pipe length		m	500	500	500	500	500
	Max. pipe length(Equivalent/Actual)		m	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40	50/40
	External static pressure		pa	50	50	50	50	50
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130	
	Maximum number of indoor units		29	33	36	39	43	
Working temp.	Cooling (DB)	°C	-5~45	-5~45	-5~45	-5~45	-5~45	
	Heating (WB)	°C	-20~21	-20~21	-20~21	-20~21	-20~21	

*All the specifications are tested under nominal condition (In cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. is 35°C DB/24°C WB; In heating, indoor temp. is 20°C DB, outdoor temp. is 7°C DB/6°C WB.)

DRV III PLUS 3/380~400/50(60)



Model			DV28IMSEVA	DV30IMSEVA	DV32IMSEVA	DV34IMSEVA	DV36IMSEVA	
Combination model			DV14IMSEVA	DV14IMSEVA	DV16IMSEVA	DV10IMSEVA	DV10IMSEVA	
			DV14IMSEVA	DV16IMSEVA	DV16IMSEVA	DV10IMSEVA	DV10IMSEVA	
			/	/	/	DV14IMSEVA	DV16IMSEVA	
			/	/	/	/	/	
Capacity	Capacity range	HP	28	30	32	34	36	
	Cooling	kW	80	85	90	96	101	
	Heating	kW	90	95	100	108	113	
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)
	Cooling	Rated power input	kW	21.6	23.41	25.22	25.16	26.97
		Max power input	kW	33.82	36.9	39.98	45.67	48.75
		Rated current	A	34.8	37.6	40.4	41.2	44
		Max current	A	56.8	60	63.2	75.8	79
	Heating	Rated power input	kW	22.28	23.88	25.48	26.14	27.74
		Max power input	kW	31.2	32.7	34.2	42.06	43.56
		Rated current	A	36	38.4	40.8	42.8	45.2
		Max current	A	50.4	52.5	54.6	68.8	70.9
	EER			3.70	3.63	3.57	3.82	3.74
	COP			4.04	3.98	3.92	4.13	4.07
	SEER			5.52	5.50	5.47	5.58	5.56
	SCOP			4.16	4.13	4.11	4.23	4.20
Performance	Air flow (H)	m³/h	30400	30400	30400	39600	39600	
	Sound pressure level (H)	dB(A)	62	62	62	63	63	
	Sound power level (H)	dB(A)	80	80	80	82	82	
Installation	External dimensions(W/D/H)	mm	1390/750/1808+	1390/750/1808+	1390/750/1808+	990/750/1808+	990/750/1808+	
			1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808+	990/750/1808+	
	Shipping dimensions(W/D/H)	mm	1490/860/1990+	1490/860/1990+	1490/860/1990+	1090/860/1990+	1090/860/1990+	
			1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990+	1090/860/1990+	
	Net/Shipping weight		kg	276/295+276/295	276/295+296/315	296/315+296/315	220/236+220/236+276/295	220/236+220/236+296/315
	Compressor type			DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC 1 INV +1 INV+1 INV	MITSUBISHI ELECTRIC
	Compressor quantity			1 INV +1 INV	1 INV +1 INV	1 INV +1 INV	R410A	1 INV +1 INV+1 INV
	Refrigerant type			R410A	R410A	R410A	22.5	R410A
	Refrigerant charge		kg	17	18.5	20	19.05	24
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	31.8	19.05
	Refrigerant gas pipe		mm	31.8	31.8	31.8	/	38.1
	Oil equalization pipe		mm	/	/	/	500	/
	Total pipe length		m	500	500	500	175/150	500
	Max. pipe length(Equivalent/Actual)		m	175/150	175/150	175/150	50/40	175/150
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50	50/40
	External static pressure		pa	50	50	50	50-130	50
Connection Ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	56	50-130	
	Maximum number of indoor units		46	50	53	-5-45	59	
Working temp.	Cooling (DB)	℃	-5-45	-5-45	-5-45	-20-21	-5-45	
	Heating (WB)	℃	-20-21	-20-21	-20-21		-20-21	

*1 Outdoor above 50m, outdoor below 40m.

- Dual Frequency 50/60Hz-380~400V-3Ph
- DC Inverter Scroll Compressor & BLDC Fan
- Basic Modular Units: 8HP, 10HP,12HP, 14HP, 16HP
- Free Combination up to 64HP with Incremental 2HP
- Max. Indoor Units up to 64

Model			DV38IMSEVA	DV40IMSEVA	DV42IMSEVA	DV44IMSEVA	DV46IMSEVA	
Combination model			DV10IMSEVA	DV10IMSEVA	DV10IMSEVA	DV12IMSEVA	DV14IMSEVA	
			DV12IMSEVA	DV14IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	
			DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	
			/	/	/	/	/	
Capacity	Capacity range	HP	38	40	42	44	46	
	Cooling	kW	106.5	113	118	123.5	130	
	Heating	kW	119	126.5	131.5	137.5	145	
Power supply			Ph/V/Hz	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)
Electrical parameters	Cooling	Rated power input	kW	29.03	30.59	32.4	34.46	36.02
		Max power input	kW	50.95	51.28	54.36	56.56	56.89
		Rated current	A	47.2	49.5	52.3	55.5	57.8
		Max current	A	82.4	83.7	86.9	90.3	91.6
	Heating	Rated power input	kW	29.56	31.38	32.98	34.8	36.62
		Max power input	kW	45.53	45.93	47.43	49.4	49.8
		Rated current	A	48	50.8	53.2	56	58.8
		Max current	A	73.9	74.3	76.4	79.4	79.8
	EER			3.67	3.69	3.64	3.58	3.61
	COP			4.03	4.03	3.99	3.95	3.96
SEER			5.55	5.52	5.51	5.50	5.49	
SCOP			4.20	4.17	4.15	4.15	4.12	
Performance	Air flow (H)	m³/h	41500	42600	42600	44500	45600	
	Sound pressure level (H)	dB(A)	64	64	64	65	65	
	Sound power level (H)	dB(A)	82	82	82	84	84	
Installation	External dimensions(W/D/H)	mm	990/750/1808+	990/750/1808+	990/750/1808+	1390/750/1808+	1390/750/1808+	
			1390/750/1808+	1390/750/1808+	1390/750/1808+	1390/750/1808+	1390/750/1808+	
			1390/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	
	Shipping dimensions(W/D/H)	mm	1090/860/1990+	1090/860/1990+	1090/860/1990+	1490/860/1990+	1490/860/1990+	
			1490/860/1990+	1490/860/1990+	1490/860/1990+	1490/860/1990+	1490/860/1990+	
			1490/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	
	Net/Shipping weight		kg	220/236+276/295+296/315	220/236+276/295+296/315	220/236+296/315+296/315	276/295+296/315+296/315	276/295+296/315+296/315
	Compressor type			DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1 INV +1 INV+1 INV	1 INV +1 INV+1 INV	1 INV +1 INV+1 INV	1 INV +1 INV+1 INV	1 INV +1 INV+1 INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	25.5	25.5	27	28.5	28.5
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe		mm	/	/	/	/	/
	Total pipe length		m	500	500	500	500	500
	Max. pipe length(Equivalent/Actual)		m	175/150	175/150	175/150	175/150	175/150
Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40	50/40	
External static pressure		pa	50	50	50	50	50	
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130	
	Maximum number of indoor units		63	64	64	64	64	
Working temp.	Cooling (DB)	℃	-5~45	-5~45	-5~45	-5~45	-5~45	
	Heating (WB)	℃	-20~21	-20~21	-20~21	-20~21	-20~21	

*All the specifications are tested under nominal condition (In cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. is 35°C DB/24°C WB; In heating, indoor temp. is 20°C DB, outdoor temp. is 7°C DB/6°C WB.)

DRV III^{PLUS} 3/380~400/50(60)



8/10HP

DV08IMSEVA
DV10IMSEVA



12/14/16HP

DV12IMSEVA
DV14IMSEVA
DV16IMSEVA

Model			DV48IMSEVA	DV50IMSEVA	DV52IMSEVA	DV54IMSEVA	DV56IMSEVA
Combination model			DV16IMSEVA	DV10IMSEVA	DV10IMSEVA	DV10IMSEVA	DV10IMSEVA
			DV16IMSEVA	DV10IMSEVA	DV10IMSEVA	DV12IMSEVA	DV14IMSEVA
			DV16IMSEVA	DV14IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA
			/	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA
Capacity	Capacity range	HP	48	50	52	54	56
	Cooling	kW	135	141	146	151.5	158
	Heating	kW	150	158	163	169	176.5
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)
	Cooling	Rated power input	kW	37.83	37.77	39.58	41.64
		Max power input	kW	59.97	65.66	68.74	70.94
		Rated current	A	60.6	61.4	64.2	67.4
		Max current	A	94.8	107.4	110.6	114
	Heating	Rated power input	kW	38.22	38.88	40.48	42.3
		Max power input	kW	51.3	59.16	60.66	62.63
		Rated current	A	61.2	63.2	65.6	68.4
		Max current	A	81.9	96.1	98.2	101.2
	EER			3.57	3.73	3.69	3.64
	COP			3.92	4.06	4.03	4.00
	SEER			5.48	5.55	5.54	5.53
	SCOP			4.11	4.19	4.17	4.15
Performance	Air flow (H)	m³/h	45600	54800	54800	56700	57800
	Sound pressure level (H)	dB(A)	65	65	66	66	66
	Sound power level (H)	dB(A)	84	87	87	87	87
Installation	External dimensions(W/D/H)	mm	1390/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808*2+ 1390/750/1808*2	990/750/1808*2+ 1390/750/1808*2	990/750/1808+ 1390/750/1808*3	990/750/1808+ 1390/750/1808*3
	Shipping dimensions(W/D/H)	mm	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990*2+ 1490/860/1990*2	1090/860/1990*2+ 1490/860/1990*2	1090/860/1990+ 1490/860/1990*3	1090/860/1990+ 1490/860/1990*3
	Net/Shipping weight	kg	296/315+296/315+296/315	220/236+220/236+276/295+296/315	220/236+220/236+296/315+296/315	220/236+276/295+296/315+296/315	220/236+276/295+296/315+296/315
	Compressor type		DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV +1 INV+1 INV	1 INV +1 INV+1 INV+1 INV	1 INV +1 INV+1 INV+1 INV	1 INV +1 INV+1 INV+1 INV	1 INV +1 INV+1 INV+1 INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	30	32.5	34	35.5	35.5
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	41.3
	Oil equalization pipe	mm	/	/	/	/	/
	Total pipe length	m	500	500	500	500	500
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	pa	50	50	50	50	50
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64	64
Working temp.	Cooling (DB)	°C	-5~45	-5~45	-5~45	-5~45	-5~45
	Heating (WB)	°C	-20~21	-20~21	-20~21	-20~21	-20~21

*1 Outdoor above 50m, outdoor below 40m.

- Dual Frequency 50/60Hz-380~400V-3Ph
- DC Inverter Scroll Compressor & BLDC Fan
- Basic Modular Units: 8HP, 10HP,12HP, 14HP, 16HP
- Free Combination up to 64HP with Incremental 2HP
- Max. Indoor Units up to 64

Model			DV58IMSEVA	DV60IMSEVA	DV62IMSEVA	DV64IMSEVA
Combination model			DV10IMSEVA	DV12IMSEVA	DV14IMSEVA	DV16IMSEVA
			DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA
			DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA
			DV16IMSEVA	DV16IMSEVA	DV16IMSEVA	DV16IMSEVA
Capacity	Capacity range	HP	58	60	62	64
	Cooling	kW	163	168.5	175	180
	Heating	kW	181.5	187.5	195	200
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)	3/380~400/50(60)
	Cooling	Rated power input	kW	45.01	47.07	48.63
		Max power input	kW	74.35	76.55	76.88
		Rated current	A	72.5	75.7	78
		Max current	A	118.5	121.9	123.2
	Heating	Rated power input	kW	45.72	47.54	49.36
		Max power input	kW	64.53	66.5	66.9
		Rated current	A	73.6	76.4	79.2
		Max current	A	103.7	106.7	107.1
	EER			3.62	3.58	3.60
	COP			3.97	3.94	3.95
	SEER			5.50	5.49	5.48
	SCOP			4.14	4.14	4.12
Performance	Air flow (H)	m³/h	57800	59700	60800	60800
	Sound pressure level (H)	dB(A)	66	66	66	66
	Sound power level (H)	dB(A)	87	87	87	87
Installation	External dimensions(W/D/H)	mm	990/750/1808+ 1390/750/1808*3	1390/750/1808*4	1390/750/1808*4	1390/750/1808*4
	Shipping dimensions(W/D/H)	mm	1090/860/1990+ 1490/860/1990*3	1490/860/1990*4	1490/860/1990*4	1490/860/1990*4
	Net/Shipping weight	kg	220/236+296/315+296/315+296/315	276/295+296/315+296/315+296/315	276/295+296/315+296/315+296/315	296/315+296/315+296/315+296/315
	Compressor type		DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL	DC INV.SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV +1 INV+1 INV+1 INV	1 INV +1 INV+1 INV+1 INV	1 INV +1 INV+1 INV+1 INV	1 INV +1 INV+1 INV+1 INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	37	38.5	38.5	40
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	41.3	41.3	41.3	41.3
	Oil equalization pipe	mm	/	/	/	/
	Total pipe length	m	500	500	500	500
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40
	External static pressure	pa	50	50	50	50
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64
Working temp.	Cooling (DB)	°C	-5~45	-5~45	-5~45	-5~45
	Heating (WB)	°C	-20~21	-20~21	-20~21	-20~21

*All the specifications are tested under nominal condition (In cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. is 35°C DB/24°C WB; In heating, indoor temp. is 20°C DB, outdoor temp. is 7°C DB/6°C WB.)

DRVS



069 Features & Benefits

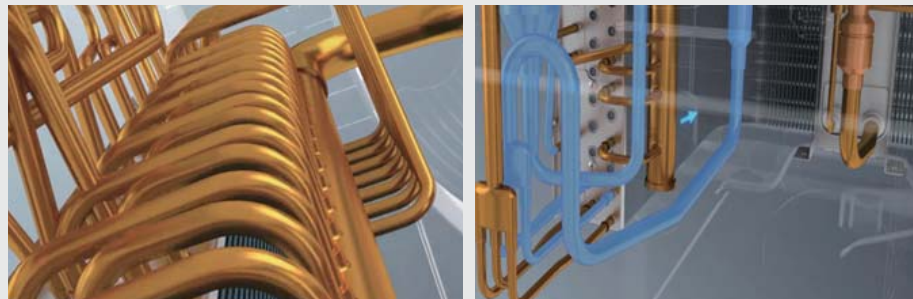
075 DRV S'' Outdoor

079 DRV S' Outdoor

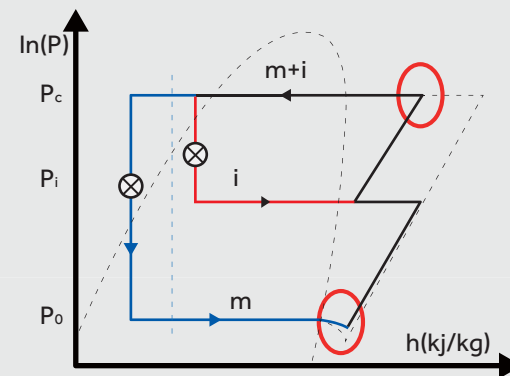
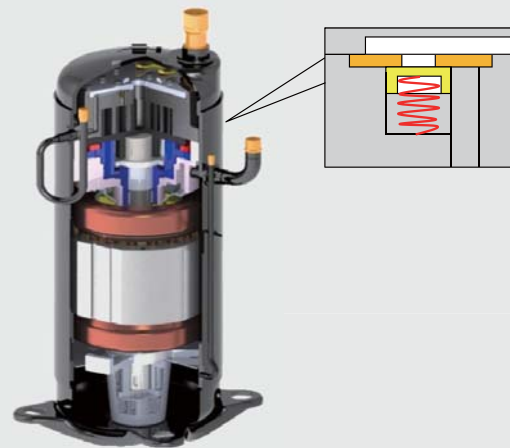
DRV S^{II} (4/5/6HP)

Leadership in Technology

- Two-stage supercooling cycle technology, Increased unit efficiency by 9%.
- Maximizing 30°C undercooling, Increase unit refrigerating capacity by 46%.
- Add the supercooled coiler at the bottom of the outdoor exchanger, Increase the efficiency of the supercooler in system, achieve deep supercooling.



Increasing enthalpy by replenish gas, realize the unit powerful heating capacity: Taking the heating cycle as an example, when environment temperature is low, heat exchanged capability of outdoor unit is depressed. The amount of air returned by compressor is reduced, Increase the amount of refrigerant in the heating cycle of the indoor unit heat exchanger, Thereby achieving improved heating capacity.

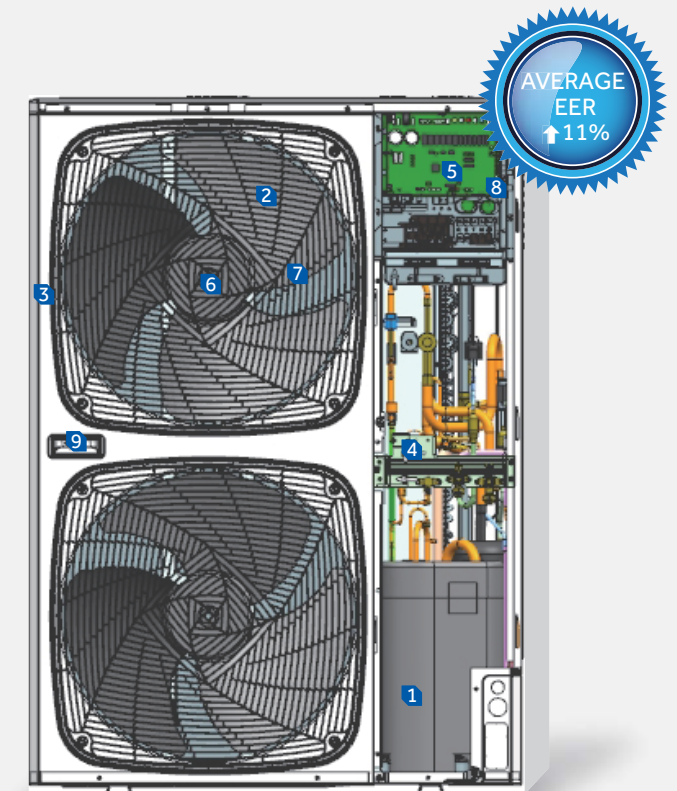


High Energy Efficiency

- 1 DC inverter compressor
Dunham-Bush takes DC INV. compressor, 5% power input lower. (14kw)
- 2 DC fan motor and 550mm big fan
38% power input lower and 8% airflow higher
- 3 Larger heat exchanger
Heat exchange area rise 10 %
- 4 Charge Valve
Built-in charge valve enables safer and easier maintenance
- 5 Low standby power
New PCB programme, reduce 20% standby power consumption

Comfort

- 6 New aerodynamics fan
550mm super big diameter aerospace helix fan. lowering sound level 3dB(A)
- 7 Enlarged air inlet path and spiral air outlet path
Air flow direction follows the grill direction. lowering sound level 2-4 dB(A)
- 8 Automatic sound-lowering programme
Night mode set by PCB, 8dB(A) lower



Convenience

- 9 Double side "4" handles
Easy to carry
- 10 "888" test panel
All running data & error code can be checked from "888" screen, which is easy for installers
- 11 "Four-way" pipe connection
4-way (front, back, left & right) pipe connection, easy to design and install



DRV S^{II} (8/10/12HP)

Outdoor Structure (8/10/12HP Side Discharge)

Bigger Outdoor Capacity, More Flexible Application

- 1 Energy Efficiency
- 2 Comfort Environment
- 3 Side Discharge and Compact Design
- 4 High Reliability

High efficiency DC fan motor

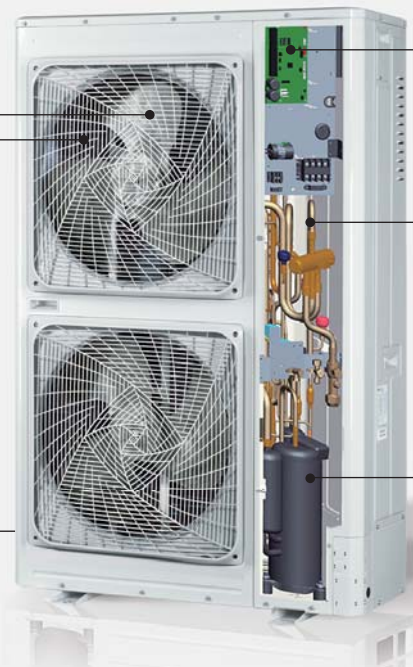
- DC fan motor with stepless inverter control, efficiency increase 45% comparing with AC motor and power input largely decrease

Large diameter fan

- 570mm big diameter axial flow fan
- Zigzag design, reduce airflow disturbance, air volume is bigger, the noise is lower

High efficiency condenser

- New type high efficiency Ø8 inner grooved tube
- New hydrophilic corrugated fissure fin, high efficiency



Vector inverter control

- 180 degrees sine wave vector control, 64-bit operation
- High precision control, to achieve high efficiency and lower noise

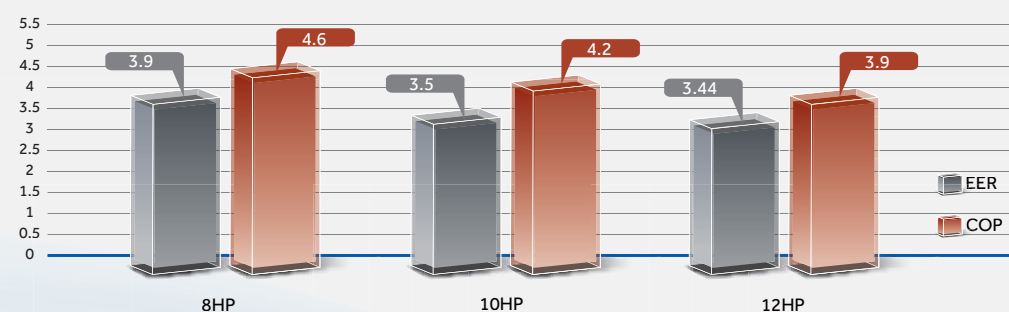
Twin rotary DC Inverter compressor

- High chamber DC INVERTER twin rotary compressor
- Small vibration, low noise, high

Double pressure sensor

- Equipped with high and low voltage Pressure double sensors
- Accurate Pressure control, the system run more smoothly, more energy efficiency

High EER and COP



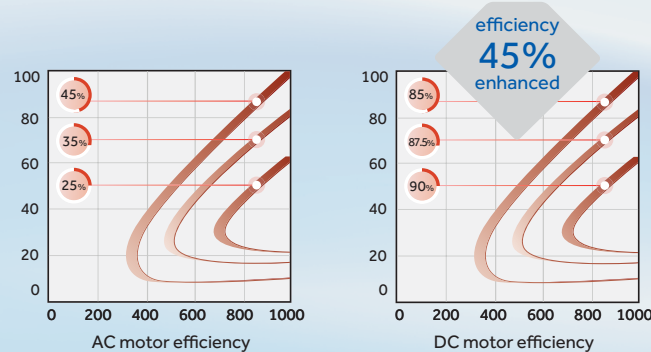
DC Fan and Fan Motor

DC inverter fan motor more higher efficiency in part load running

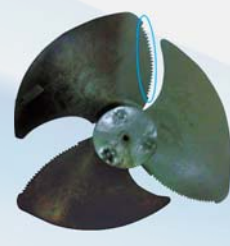
- 16-stage speed control; high efficiency running especially in low speed
- Efficiency increase 45% comparing with AC motor and power input largely decrease

Big diameter fan

- 570mm big diameter fan, more big air flow and more higher efficiency



DC motor



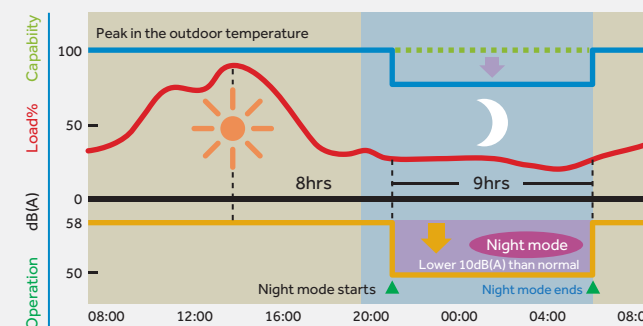
Ø570mm fan

Energy Efficiency

Low noise level

Night Quiet Operation Function

Noise can be reduced to 45dB(A)



Low noise operation

- DC INVERTER compressor, smooth operation, no need frequent start the compressor, effectively reduce the noise outdoor
- Vector inverter control, more precise control
- DC fan motor, motor bracket used the non-resonance structure, ensure smooth running of the motor, reduce operating noise
- Big diameter fan, design according to aviation quieter principle



Easy installation

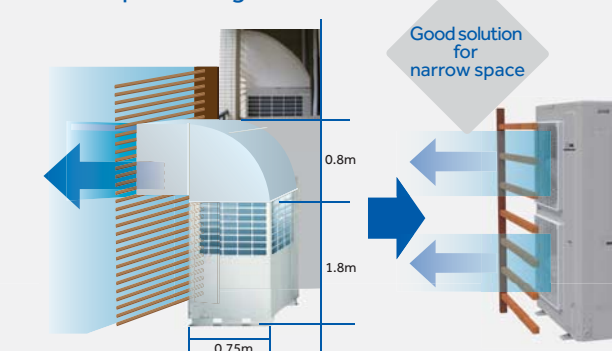
Compact Side Discharge Design, Big Capacity, Small Footprint

Small footprint, only 0.42m², 43% floor area can be reduced



Compact Side Discharge Design

No need additional ventilation hood comparing with top discharge unit



Easy installation

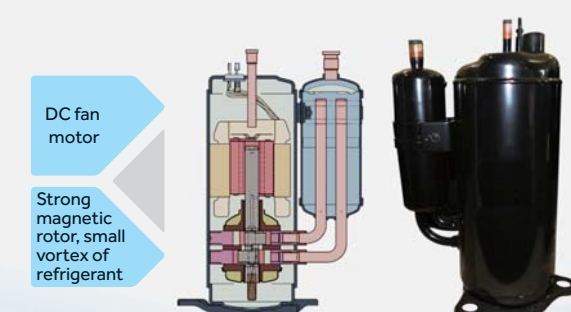
4 Way pipe connection

Front, rear, right, down 4 way pipe connection, flexible installation



New DC inverter twin rotary compressor

- Small torque change, good dynamic balance, the system runs stably, little vibration, low noise, high efficiency
- More higher efficiency in part load running

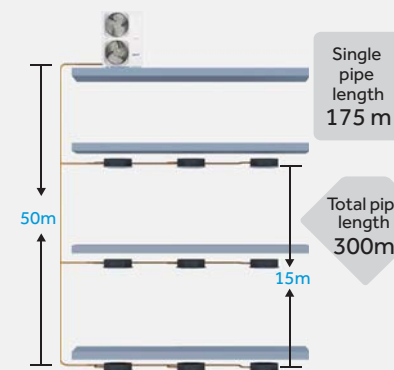


DRV S^{II} (8/10/12HP)

Easy Installation

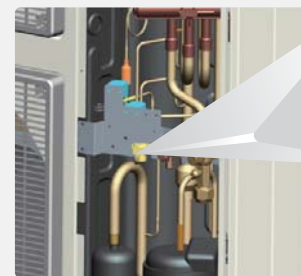
Long pipe length, high height drop

- Total pipe length: 300m
- Single pipe length: Max.175m
- From outdoor to the first branch pipe: 135m
- From the first branch to the farthest indoor door unit: 40m
- Height drop: 50m (outdoor above)/40m (outdoor below)
- Height drop between indoor units: 15m



Separate refrigerant charging valve

Easy for refrigerant charging

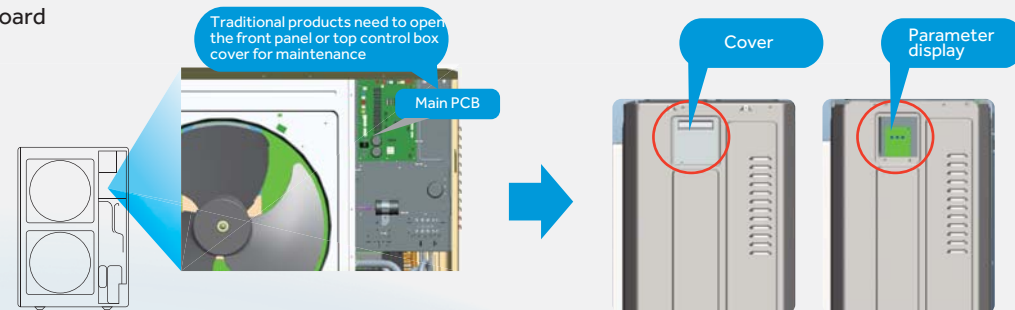


Separate refrigerant charging valve

Easy Service

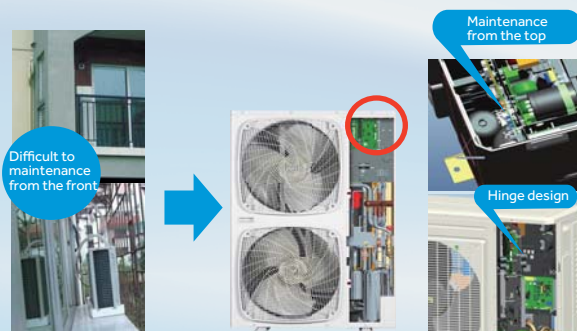
Parameter display panel

- The first original parameter display panel on the side
- The parameter can be observed directly by opening the protective cover in case of maintenance, to avoid removing the repair board



Easy maintenance for control

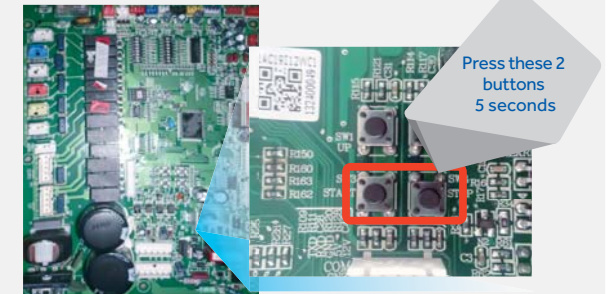
- The control box is in front, reserving space 108mm between control box and top panel, easy maintenance from the top
- Control box is with hinge design, easy to open for maintenance



High Reliability

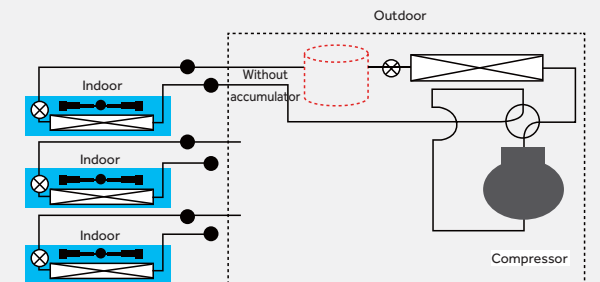
Refrigerant automatically reclaim Technology

- Set refrigerant automatically reclaim through dip switch, the refrigerant in indoor and pipe can be automatically return to outdoor, convenient in maintenance and reducing waste of refrigerant, reduce customer maintenance cost, improve the efficiency of after-sales maintenance



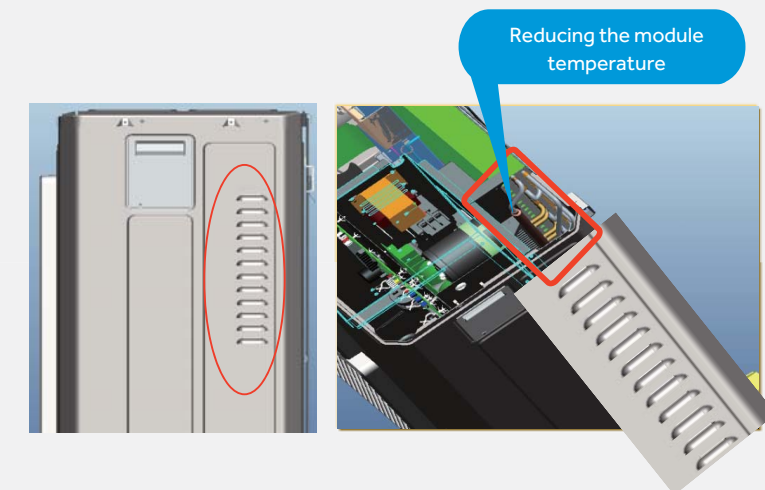
Refrigerant control technology

- Refrigerant control technology without high pressure accumulator, reducing the refrigerant volume and enhancing the running efficiency



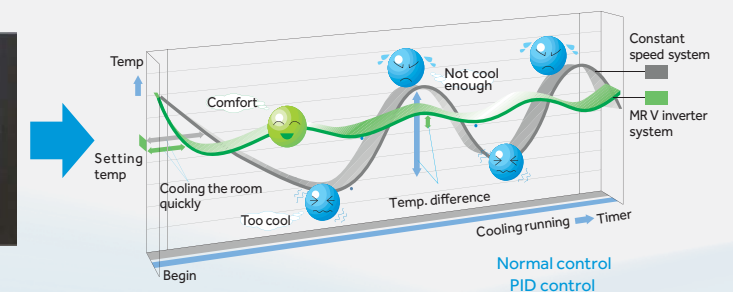
Air inlet grill design on right side panel

- Air inlet grill design, reducing the module temperature and avoid air dust into air conditioner



High and low double pressure sensor

- Double pressure sensor with PID control technology
- Together with high speed communication to realize the quick start of compressor and more precise control, the temperature can be control $\pm 0.5^{\circ}\text{C}$



DRV S^{II} Specification



-  DU042FPERA
-  DU052FPERA
-  DU062FPERA
-  DU04IFPERA
-  DU05IFPERA
-  DU06IFPERA
-  DU042FPERB
-  DU052FPERB
-  DU062FPERB
-  DU04IFPERB
-  DU05IFPERB
-  DU06IFPERB

Model		T1 T3	DU042FPERA DU042FPERB	DU052FPERA DU052FPERB	DU062FPERA DU062FPERB	DU04IFPERA DU04IFPERB	DU05IFPERA DU05IFPERB	DU06IFPERA DU06IFPERB
Capacity	Capacity range	HP	4	5	6	4	5	6
	Cooling (T1)	kW	12.1	14	15.5	12.1	14	15.5
	Cooling (T3)	kW	11.2	12.6	14	11.2	12.6	14
	Heating	kW	14.2	16	18	14.2	16	18
Electrical parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Power input (Cooling T1)	kW	2.99	3.51	4.31	2.99	3.51	4.31
	Power input (Cooling T3)	kW	3.77	4.25	5.22	3.77	4.25	5.22
	Power input (Heating)	kW	3.18	3.72	4.39	3.18	3.72	4.39
	EER	/	4.05	3.99	3.60	4.05	3.99	3.60
	COP	/	4.47	4.30	4.10	4.47	4.30	4.10
	SEER(T1)	/	6.82	6.92	6.45	6.82	6.92	6.45
	SCOP(T1)	/	3.92	4.17	3.80	3.92	4.17	3.80
Performance	Air flow (H)	m³/h	7200	7200	7200	7200	7200	7200
	Sound pressure level (H)	dB(A)	57	58	59	57	58	59
	Sound power level (H)	dB(A)	68	69	70	68	69	70
Installation	External dimensions(W/D/H)mm		950/370/1340	950/370/1340	950/370/1340	950/370/1340	950/370/1340	950/370/1340
	Shipping dimensions(W/D/H)mm		1023/471/1420	1023/471/1420	1023/471/1420	1023/471/1420	1023/471/1420	1023/471/1420
	Net/Shipping weight	kg	108/123	108/123	108/123	108/123	108/123	108/123
	Compressor type	/	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Compressor brand	/	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity	/	1	1	1	1	1	1
	Refrigerant type	/	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	4	4	4	4	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	Total pipe lenth	m	300	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)m		175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50	50	50	50	50	50
	Max drop between I.U.&I.U	m	15	15	15	15	15	15
Connection ratio	Connectable indoor unit ratio%		50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units/		8	10	13	8	10	13
Working temp.	Cooling(T1)	°C	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48
	Cooling(T3)	°C	-15~53	-15~53	-15~53	-15~53	-15~53	-15~53
	Heating	°C	-20~27	-20~27	-20~27	-20~27	-20~27	-20~27

* All the specifications are tested under nominal condition(In cooling T1, indoor temp. is 27°C DB/19°C WB;Outdoor temp 35°C DB/24WB;in cooling T3, indoor temp. is 27°C DB/19°C WB;Outdoor temp 46°C DB/24WB;in heating, indoor temp.is 20°C DB,in heating, outdoor temp.is 7°C DB/6°CWB)



-  DU08NFKERA
-  DU10NFKERA
-  DU12NFKERA

Model			DU08NFKERA	DU10NFKERA	DU12NFKERA
Capacity	Capacity range	HP	8HP	10HP	12HP
	Cooling	kBtu/h	77.1	95.5	114.3
		kW	22.6	28	33.5
	Heating	kBtu/h	85.3	107.5	128
		kW	25	31.5	37.5
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Power input (Cooling)	kW	5.79	8	9.75
	Power input (Heating)	kW	5.43	7.5	9.62
	EER/COP		3.9/4.6	3.5/4.2	3.44/3.9
	SEER/SCOP		5.1/3.45	4.8/3.43	4.6/3.4
Performance	Air flow (H)	m³/h	10000	10000	10000
	Sound pressure level (H)	dB(A)	55	58	60
	Sound power level (H)	dB(A)	66	69	71
Installation	External dimensions(W/D/H)mm		1050/400/1636	1050/400/1636	1050/400/1636
	Shipping dimensions(W/D/H)mm		1150/510/1790	1150/510/1790	1150/510/1790
	Net/Shipping weight	kg	168/183	168/183	168/183
	Compressor type		Rotary	Rotary	Rotary
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV
	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	kg	6.1	6.1	6.1
	Refrigerant liquid pipe	mm	9.52	12.7	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4
	Total pipe length	m	300	300	300
	Max. pipe length(Equivalent/Actual)m		175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50	50	50
Connection ratio	Connectable indoor unit ratio%		50~130	50~130	50~130
	Maximum number of indoor units		13	16	16
Working temp.	Cooling	°C	-5~48	-5~48	-5~48
	Heating	°C	-20~27	-20~27	-20~27

*All the specifications are tested under nominal condition(In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)

DRV S^I (3/5/7HP)

DRV S^I

DC Inverter Twin Rotary Compressor

Realize high efficiency and compact designed compressor by the joint type motor, hot riveting fixation and composite partition technology.

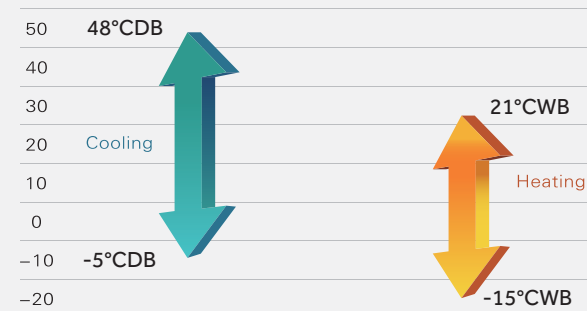
Wide range inverter compressors would satisfy the customer's innovative requirement and design.



Operation Range

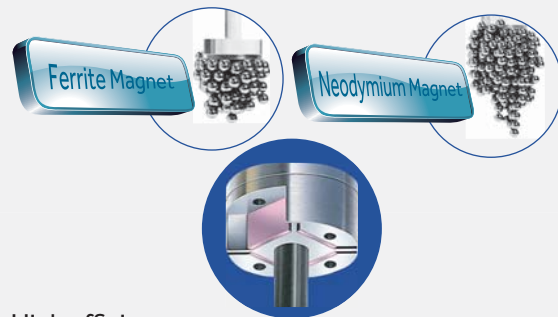
•DRV S^I series permits a system design considering a heating range operation under a low temperature condition from -15°C of previous model and a cooling range operation -5°C.

•For the capacities under low temperature conditions, please see technical data sheets.



DC Inverter Technology

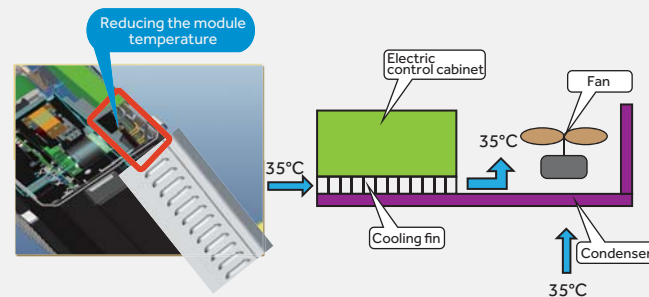
DC fan motor speed can be adjusted from 0-960r/min, it can improve the unit efficiency, at the same time, the unit can realize low ambient cooling operation.



High efficiency
Low vibration, low noise
High reliability

Air inlet grill design on right side panel

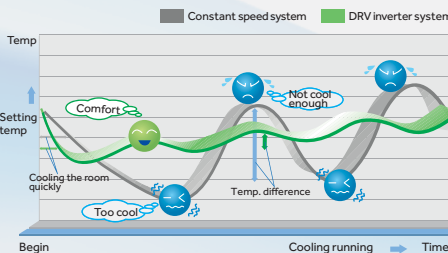
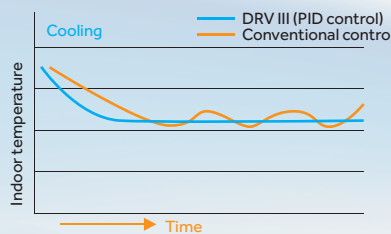
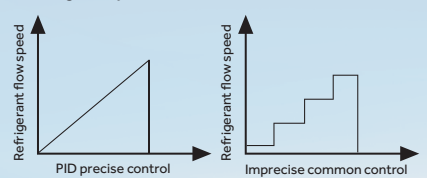
The unit adopts louver at right side panel for better heat dissipation to guarantee high frequency operation at high temperature. The air inlet grill design, reduces the module temperature and avoids air dust into air conditioner.



Precise Control

PID control adjusts the output of compressor and the open degree of EEV, balances the indoor refrigerant flow, realizes the linear output, creates a comfortable environment. The temperature could be controlled precisely.

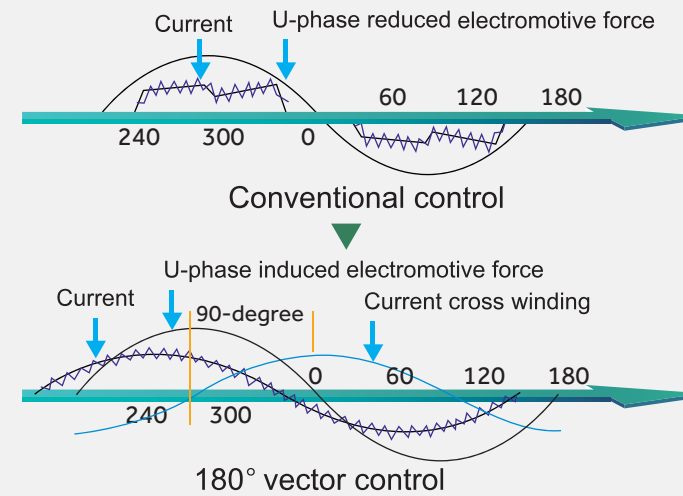
P:Proportion adjustment D:Dif ferential adjustment
I :Integral adjustment



DRV S^I

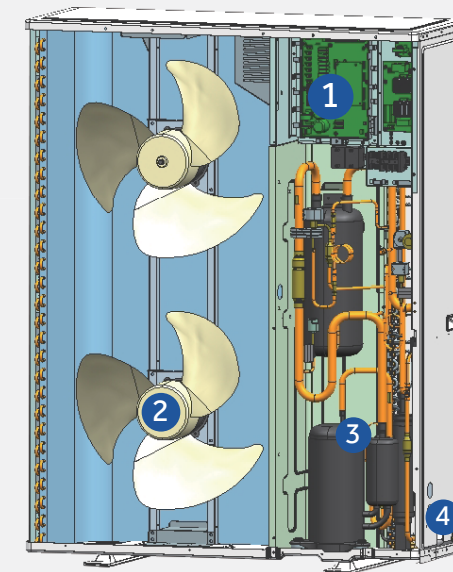
180° Vector Control Technology

Dunham-Bush using power resistance to detect the rotor position of compressor, results in the consistency of the compressor working current and current sine waves, improve power efficiency about 17%.



Side Discharge DRV S^I Outdoor Units

•Dual Frequency 50/60Hz / DC Inverter TWIN Rotary Compressor / BLDC Fan (BrushLess DC motor)



1 Control the compressor running frequency by temp. Sensor, more precise and prompt than conventional control system.

1 Protections: Pressure, temp, compressor, fan motor, refrigerant, oil quantity etc. Realize perfect performance.

1 Malfunction self-diagnose.

2 DC fan motor (DU48/60).

3 DC inverter compressor, high efficiency.

4 Single set valve, easy to installation and save installation time.

DRV S¹ Specification



- DU282FHERA(H)
- DU482FIERA(H)
- DU48NFIERA(H)
- DU60NFIERA(H)

Model			DU282FHERA(H)	DU482FIERA(H)	DU48NFIERA(H)	DU60NFIERA(H)
Capacity	Capacity range	HP	3HP	5HP	5HP	7HP
	Cooling	kBtu/h	27.3	51.2	51.2	61.4
		kW	8	15	15	18
	Heating	kBtu/h	32.4	58	58	68.2
		kW	9.5	17	17	20
Electrical parameters	Power supply	Ph/V/Hz	1/220~230/50	1/220~230/50/60	3/380~400/50/60	3/380~400/50/60
	Power input (Cooling)	kW	2.08	3.98	3.98	5.19
	Power input (Heating)	kW	2.10	3.91	3.91	5.13
	EER/COP		3.84/4.52	3.77/4.35	3.77/4.35	3.47/3.9
	SEER/SCOP		4.79/3.31	4.61/3.15	4.61/3.15	4.14/3.06
Performance	Air flow (H)	m³/h	3500	6500	6500	6500
	Sound pressure level (H)	dB(A)	54	58	58	59
	Sound power level (H)	dB(A)	65	69	69	70
Installation	External dimensions(W/D/H)mm		960/340/830	960/340/1250	960/340/1250	960/340/1250
	Shipping dimensions(W/D/H)mm		1095/410/945	1095/410/1400	1095/410/1400	1095/410/1400
	Net/Shipping weight	kg	70/76	99/107	99/107	99/107
	Compressor type		Rotary	Rotary	Rotary	Rotary
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV	1 INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	2.4	3.8	3.8	3.8
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	19.05	19.05	19.05
	Total pipe length	m	100	150	150	150
	Max. pipe length(Equivalent/Actual) m		50	70	70	70
	Max drop between I.U.&O.U	m	30	30	30	30
	Max drop between I.U.&I.U	m	10	10	10	10
Connection ratio	Connectable indoor unit ratio%		50~130	50~130	50~130	50~130
	Maximum number of indoor units		4	8	8	9
Working temp.	Cooling	°C	10~48	-5~48	-5~48	-5~48
	Heating	°C	-15~21	-15~21	-15~21	-15~21

*All the specifications are tested under nominal condition(In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)



DRV W



8/10/12HP

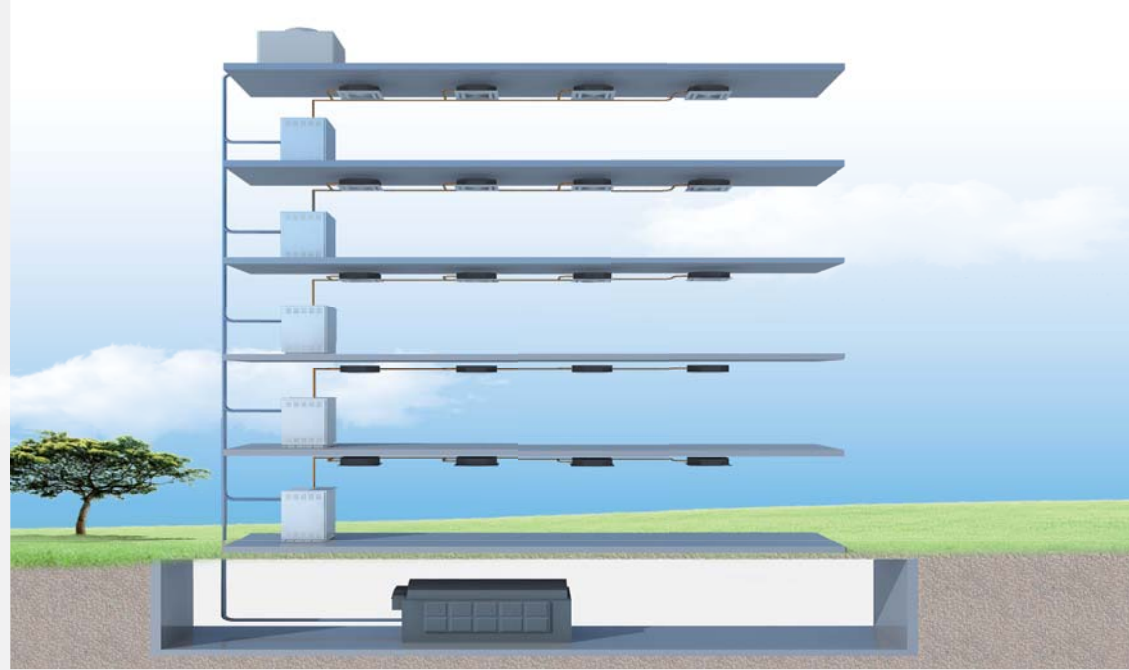
083 Features & Benefits

095 DRV W Outdoor

FEATURES & BENEFITS

Outdoor Structure (8/10/12HP Side Discharge)

Much bigger outdoor capacity, more flexible application



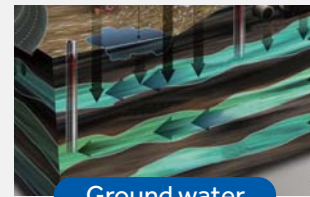
River water



Lake water



Sea water



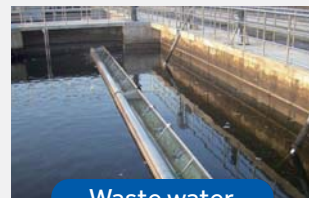
Ground water



Soil



Solar energy



Waste water



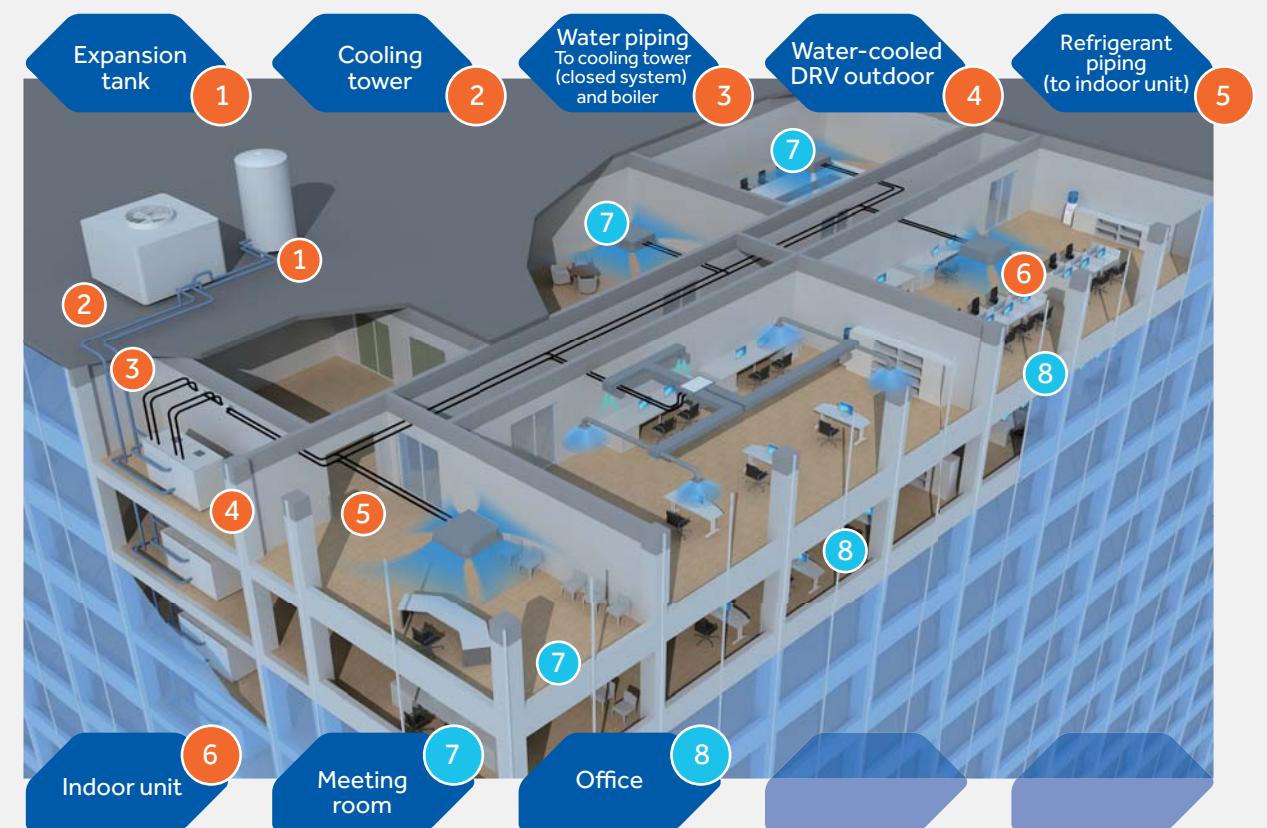
Industry waste heat

What is DRV W Series

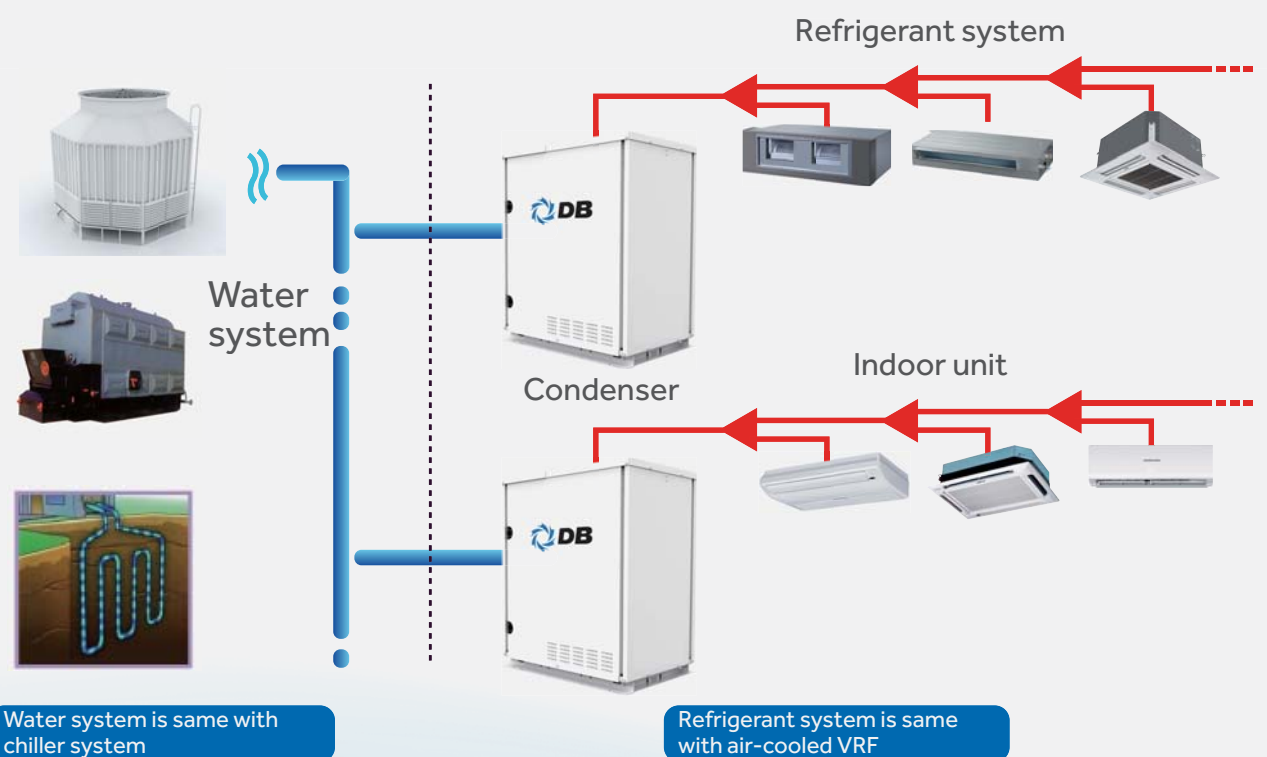
- DRV W series system is a VRF air conditioning system that adopts water as a cooling or heating source
- DRV W series can combine water system and refrigerant system together



System Introduction



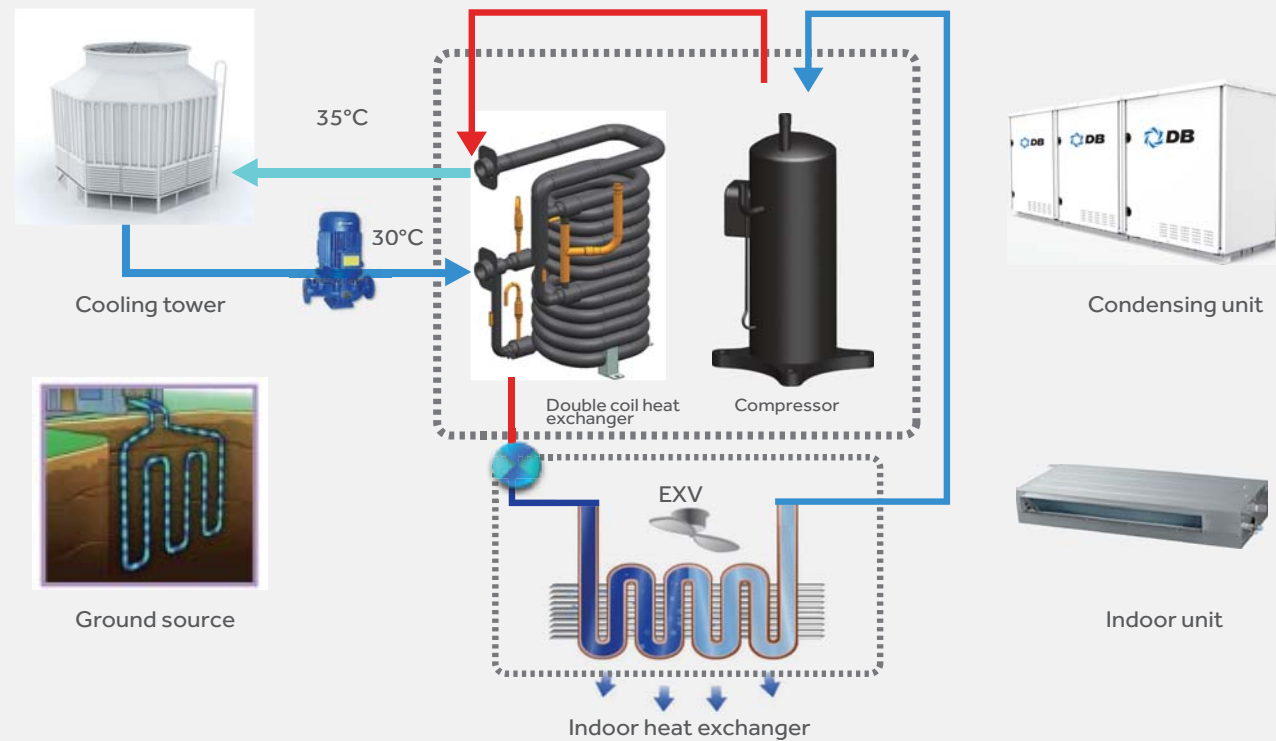
Working Principle



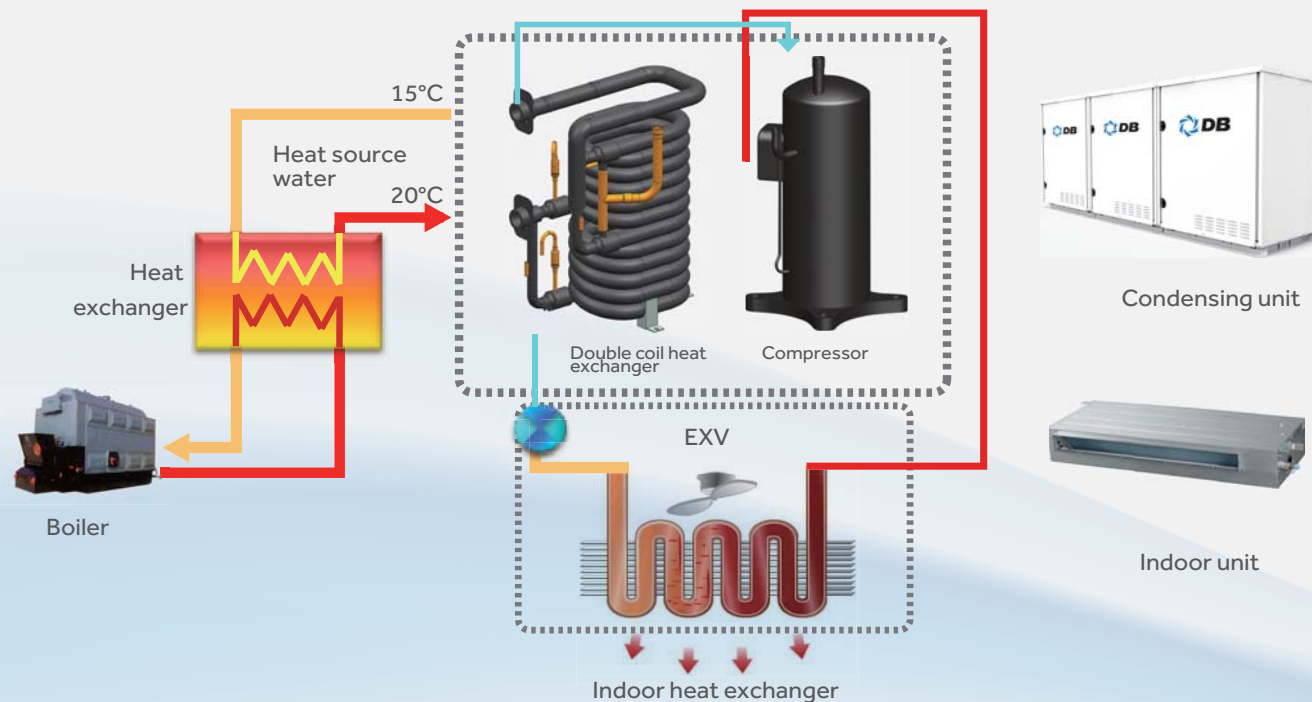
FEATURES & BENEFITS

Working Principle

Working principle in cooling mode



Working principle in heating mode



Outdoor Structure

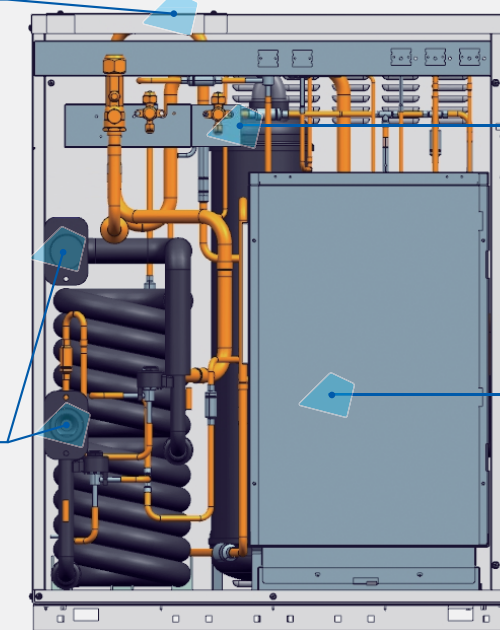
Core technologies and parts (front side)

Refrigerant pipe

Refrigerant pipe to connect the indoor units

Water outlet and inlet

Water outlet and inlet pipe to connect the double coil heat exchanger



Gas-liquid separator

Reduce the heat exchanger height(650mm), and the upper and lower wind speed uniform and high efficiency

Compact electrical control box

Compact electric control box, which can rotate up and down, easy for compressor service

Core technologies and parts(back side)

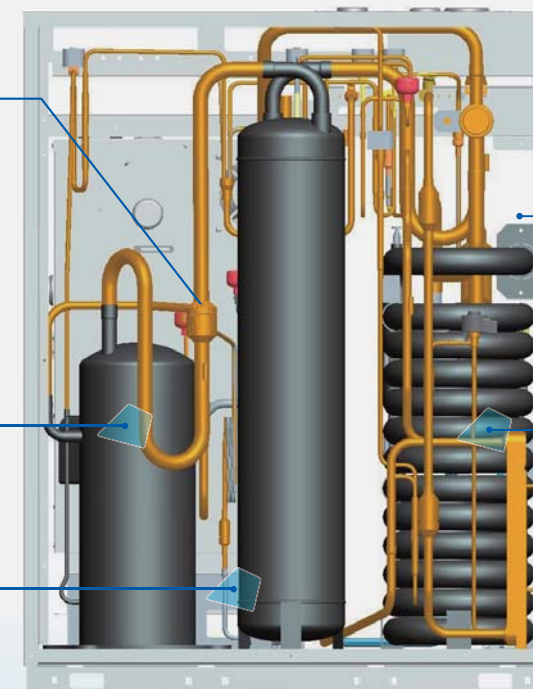
Compact electrical control box

Compact electric control box, which can rotate up and down, easy for compressor service

DC inverter scroll compressor

DC inverter scroll compressor, more higher energy efficiency

Oil separator



Water switch

Double coil heat exchanger

- Double coil heat exchanger, more uniform Heat transfer effect
- Much higher double coil, saving more space, more compact design

FEATURES & BENEFITS

DRV W Application Typical high-rise Buildings

- 3 types typical high-rise buildings
- Compact inner structure and core parts



Type 1
High rise building without podium



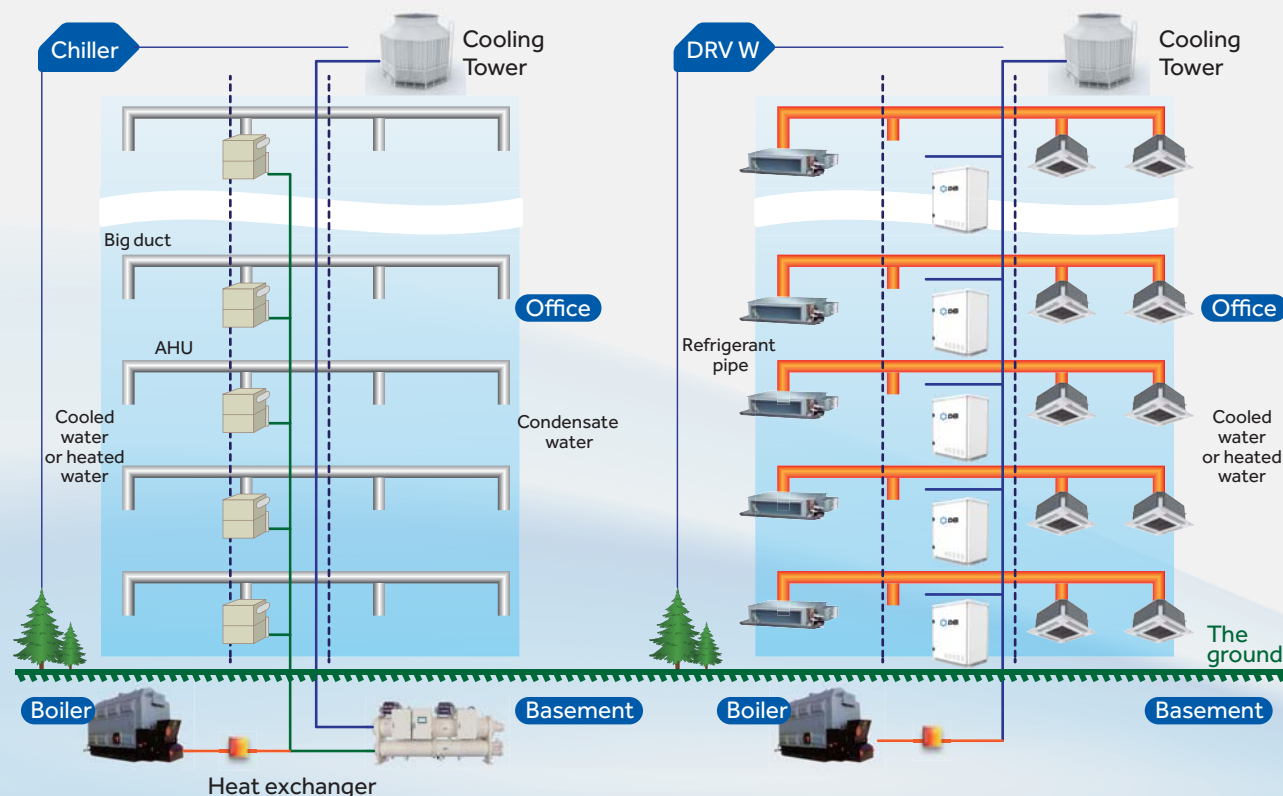
Type 2
High rise building with podium



Type 3
Single layer with a large area

Type 1 high-rise building

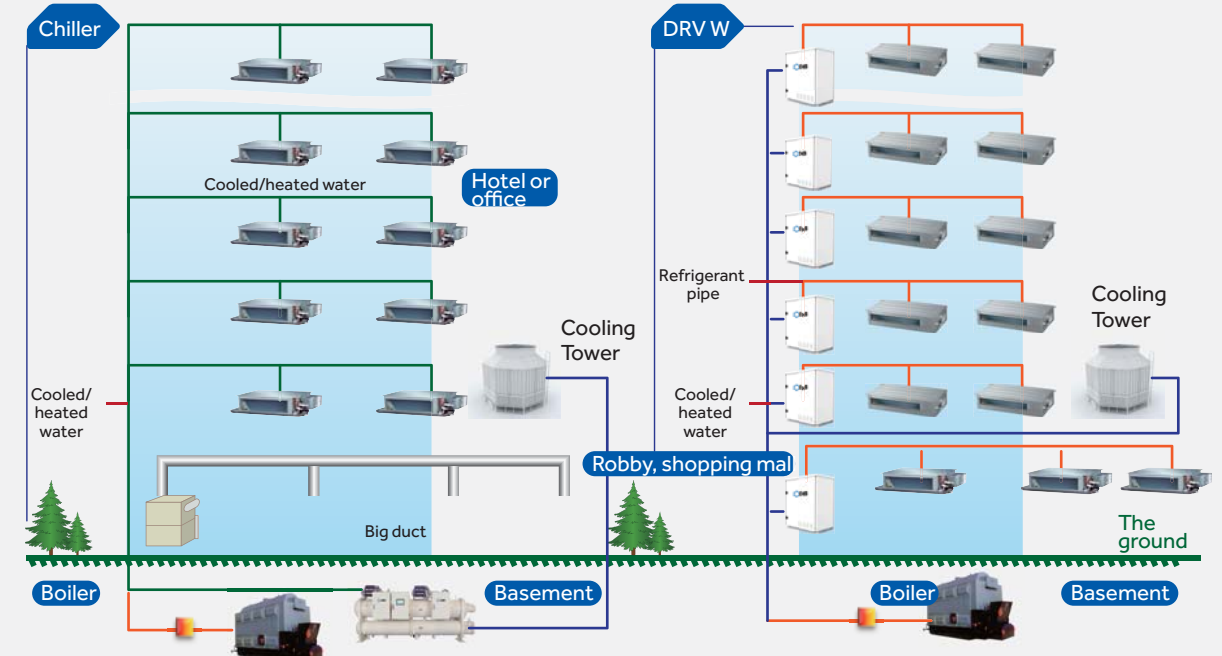
- Conventional chiller system, and new water-cooled DRV solution



DRV W Application

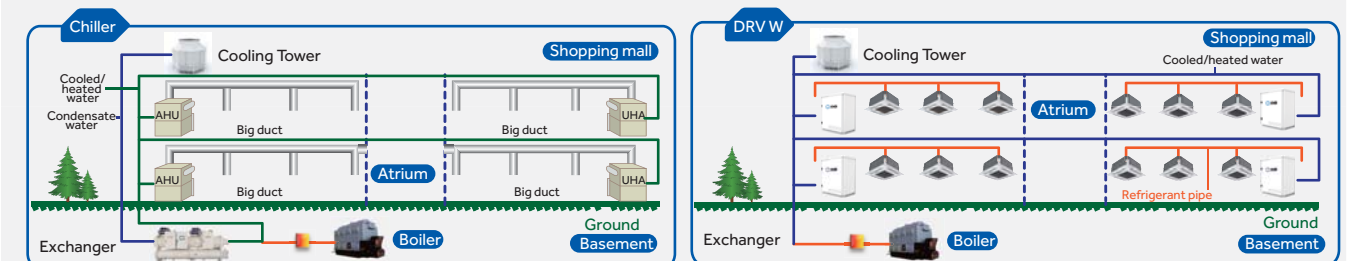
Type 2 high-rise building

- Conventional chiller system, and water-cooled DRV solution



Type 3 high-rise building

- Conventional chiller system, and water-cooled DRV solution



Suitable buildings

- New construction or retrofit building: DRV W provides an energy efficient solution anywhere that could use a water-cooled chiller or replacing water source heat pump design by enabling them to afford the water-cooled chiller benefits. It is especially true for high-rise buildings such as condos, offices, medical centers, schools
- High-rise building that didn't design with VRF system
- Glass curtain wall or special design building
- No enough space to put the outdoor unit even accept the VRF system
- Building which required to renewable energy sources

Benefit

- Lower initial cost for the developer and builder
- Client or developer can add air conditioning to match load requirement
- No rebalancing of water systems if commissioning valves are installed on each floor
- Connect to the full suite of DRV control solution A/C management system
- Separate control to every indoor unit

FEATURES & BENEFITS

1 Energy Efficiency

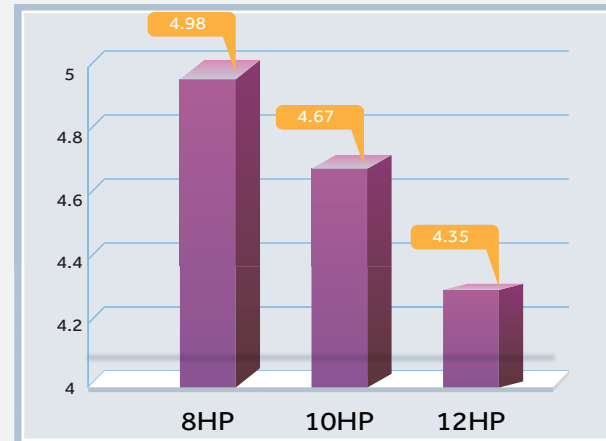
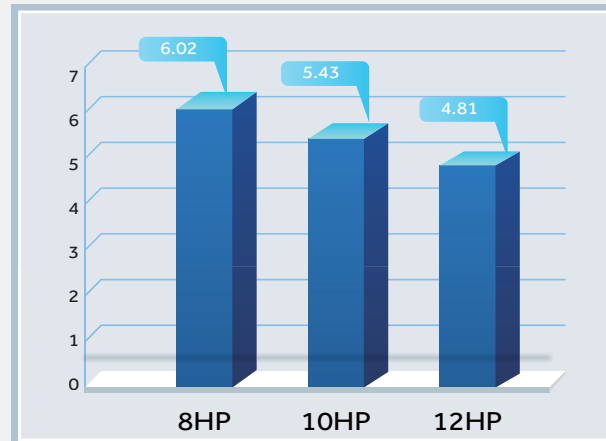
2 Comfort

3 High Reliability

4 High Convenience

Energy Saving

- COP can be up to 6.02, much more higher energy level than air system
- EER can be up to 4.98, more higher energy level than air system



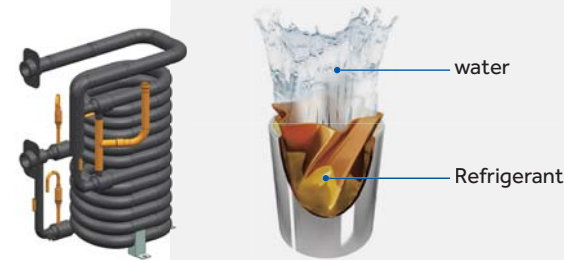
High efficiency dc inverter compressor

- High efficiency DC inverter compressor from mitsubishi electric



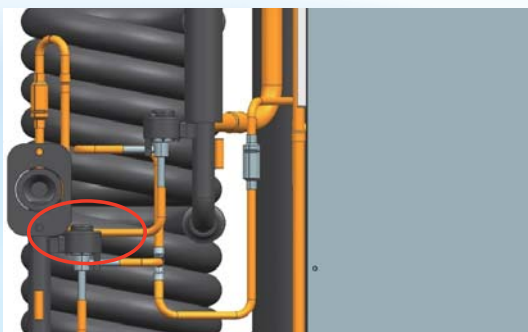
High efficiency double coil heat exchanger

- Double coil heat-exchanger, more uniform heat transfer



Double EEV control

- The double EEV control the 2 stages heat exchanger separately, which can adjust the condenser volume



Two stage deep sub cooling technology

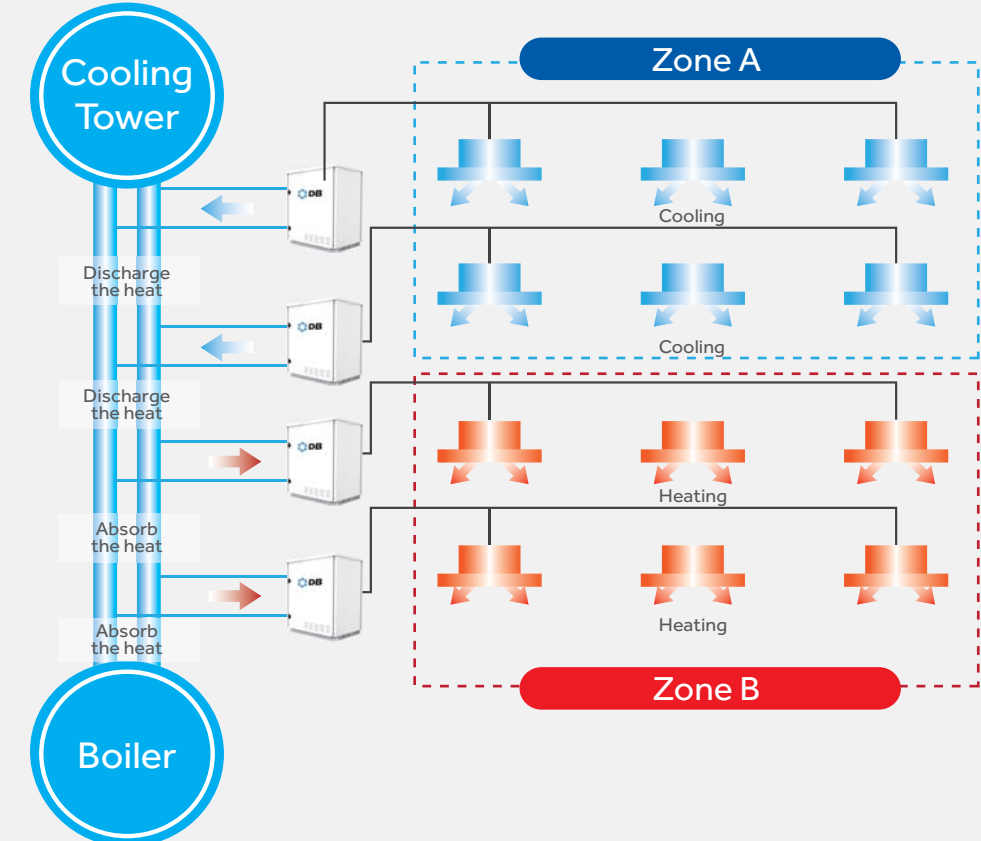
- 1st stage sub cooling added a sub cooling coil to condenser
- 2nd stage sub cooling added a stand alone sub cooler
- After further cooling, sub-cooling degree can be up to 30°C, with the heat exchanging capacity per unit mass of refrigerant improved by 46% and flow resistance reduced by 55%, and running efficiency improved by 9%



Energy Saving

Heat recovery between different refrigerant systems

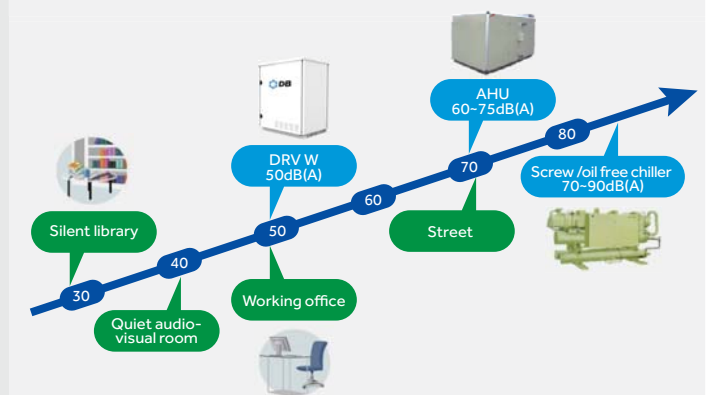
- Heat recovery is achieved within the water loop between different refrigerant system, more higher total COP
- Cooling and heating at the same time in different refrigerant system



Comfortable Environment

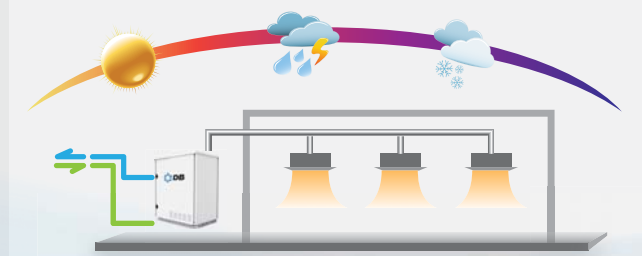
Low noise level

- Comparing with air system, without fan in the outdoor and with full insulation design, the noise level can be reduced to only 50dB(A), much lower than the air system and conventional chiller



No influence from ambient temperature

- Thanks to the stable water source, the capacity and efficiency will not reduce with extreme ambient conditions compare with air-cooled system
- Especially in heating mode, water cooling means no defrost operation is required, the resultant rapid start up time assures quick and comfortable heating, even in cold environment

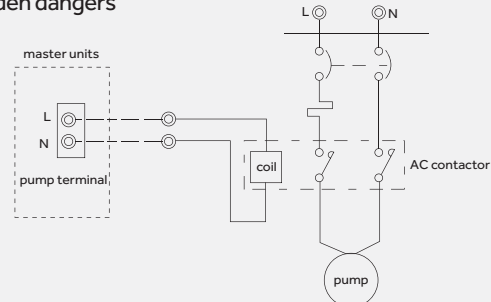


FEATURES & BENEFITS

High Reliability

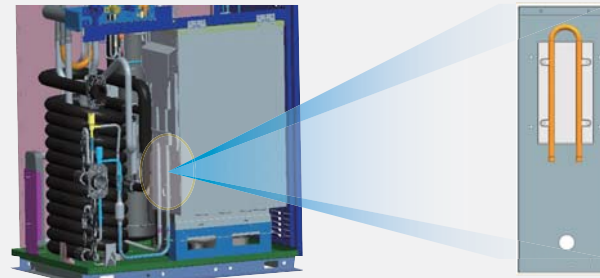
Water pump controlled together with the outdoor

- The reserved water pump linkage control, realize the pump linkage control, reduce the energy consumption and eliminate hidden dangers



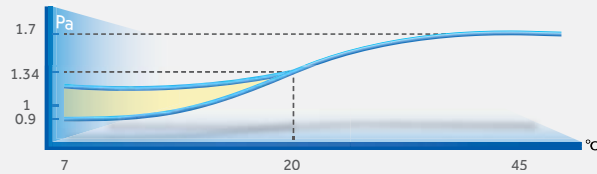
Chilled electric control module

- Using refrigerant to reduce the module temperature, to realize stable module temperature, more reliable operation
- Canceling heat dissipation fan of the module, reduce the power consumption and noise level

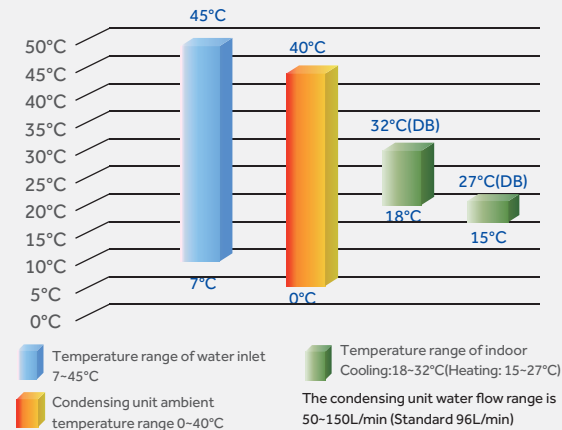


Stable Pressure Setting

- Stable pressure setting design, to make the high pressure keep above the required pressure, ensure the compressor reliability and stable capacity output



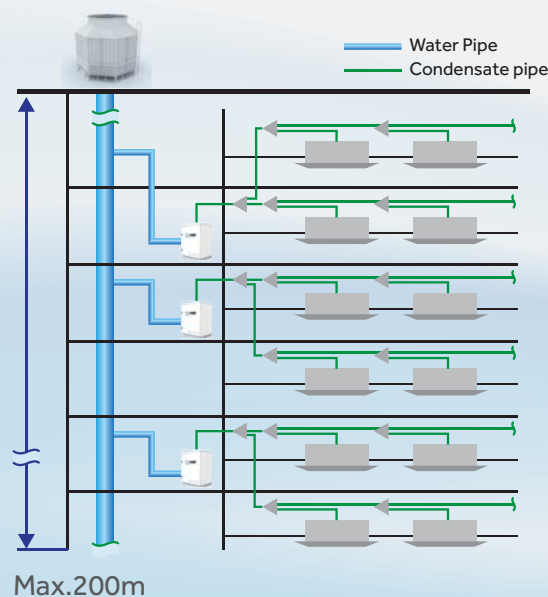
Wide Operation Range



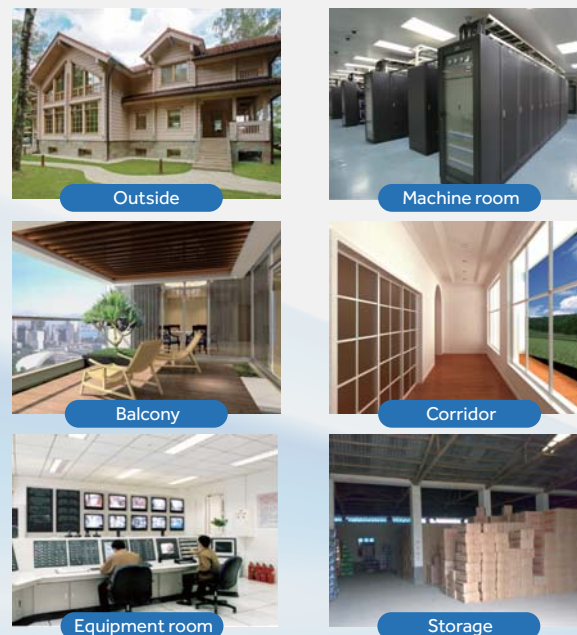
Energy Efficiency

Flexible water pipe design

- Max water pressure can be up to 1.96MPa
- Condensate pipe length can be up to 200m



Flexible Installation Location



Energy Efficiency

Long pipe length and high height drop

The condensers are smaller and can be stacked, reducing the installation space.

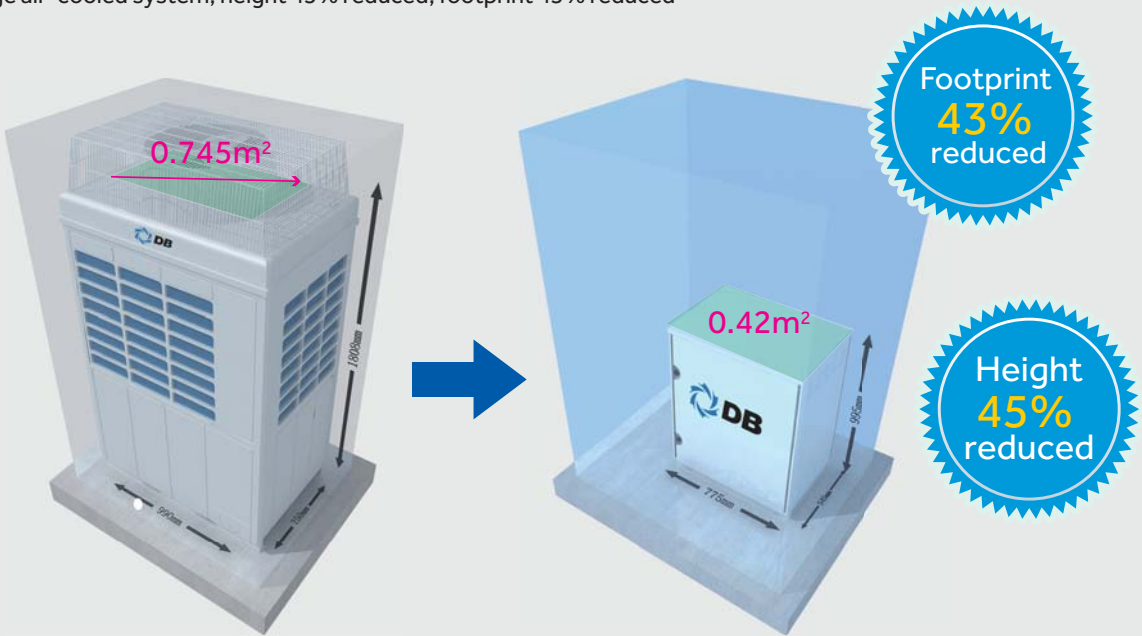


FEATURES & BENEFITS

High Convenience (Use/Installation/Service)

Compact and lightweight design

•The industry's most compact and lightweight design, installed in the narrow space. Comparing with the conventional top discharge air-cooled system, height 45% reduced, footprint 43% reduced



Stacked installation

•The condensers are smaller and can be staked, reducing the installation space and increasing the customers usable square footage



High Convenience (Use/Installation/Service)

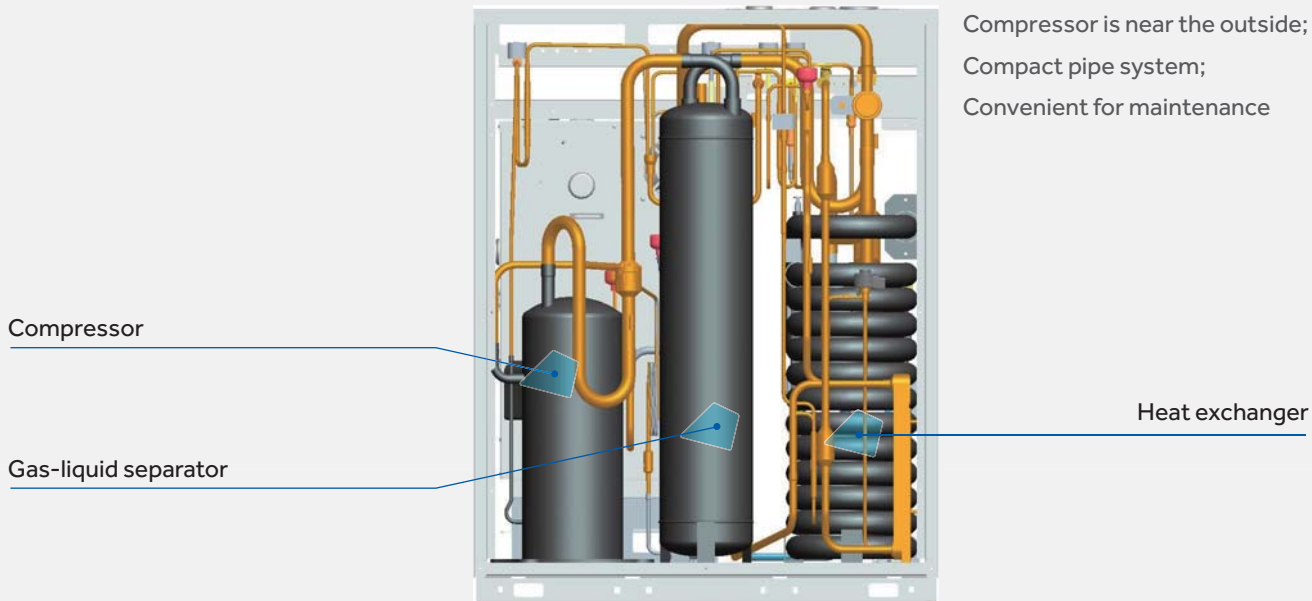
Various mode and priority selection

•The condensers are smaller and can be staked, reducing the installation space and increasing the customers usable square



Easy maintenance

Compact outdoor structure design



DRV W 3/380~400/50(60)



8/10/12HP

Model			DV08IMWEWA	DV10IMWEWA	DV12IMWEWA	DV16IMWEWA	DV18IMWEWA
Combination model			/	/	/	DV08IMWEWA	DV08IMWEWA
			/	/	/	DV08IMWEWA	DV10IMWEWA
			/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	16	18
	Cooling capacity	kW	22.4	28	33.5	44.8	50.4
	Heating capacity	kW	25	31.5	37.5	50.0	56.5
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling	Rated power input	kW	4.50	6.00	7.70	9.00
		Max. power input	kW	13.00	15.00	17.00	26.00
		Rated current	A	7.20	9.60	12.32	14.39
		Max.current	A	20.79	23.99	27.19	41.58
	Heating	Rated power input	kW	4.15	5.80	7.80	8.30
		Max. power input	kW	13.00	15.00	17.00	26.00
		Rated current	A	6.64	9.28	12.47	15.91
		Max.current	A	20.79	23.99	27.19	41.58
	EER/COP			4.98/6.02	4.67/5.43	4.35/4.81	4.98/6.02
							4.80/5.68
Performance	Water flow (H)	m³/h	4.8	6	7.2	9.6	10.8
	Sound pressure level (H)	dB(A)	50	51	53	53	54
	Sound power level (H)	dB(A)	61	62	64	64	65
Installation	External dimensions(W/D/H)	mm	775/545/995	775/545/995	775/545/995	(775/545/995)*2	(775/545/995)*2
	Shipping dimensions(W/D/H)	mm	875/655/1182	875/655/1182	875/655/1182	(875/655/1182)*2	(875/655/1182)*2
	Net/Shipping weight	kg	172/183	172/183	172/183	344/366	344/366
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity		1 INV	1 INV	1 INV	2 INV	2 INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	2	2	2	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	15.88
	Refrigerant gas pipe	mm	19.05	22.22	25.4	28.58	28.58
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52
	Total pipe length	m	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	150/120	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40
Heat Exchanger	Type		Double coil	Double coil	Double coil	Double coil	Double coil
	Material		Copper & steel	Copper & steel	Copper & steel	Copper & steel	Copper & steel
Water side	Inlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32
	Outlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32
	pressure drop(inlet and outlet)	Kpa	35	50	70	35+35	35+50
	Connection type		inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Max. system water pressure	Mpa	1.6	1.6	1.6	1.6	1.6
Connection ratio	Inlet water temperature range (Cooling & Heating)	°C	7~45	7~45	7~45	7~45	7~45
	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	unit	13	16	19	23	29

- Water Sourced DRV Outdoor Unit, Combine Water System and Refrigerant System in one System
- 3 Basic Single Module:8/10/12HP, Max. 3 Modules Combination up to 36HP
- Most Compact Size Outdoor Design in the Industry
- Total 300m Long Pipe Length, Easy for Installation
- Double Coil Outdoor Heat Exchanger
- Compatible with all the DRV Indoor Units

Model			DV20IMWEWA	DV22IMWEWA	DV24IMWEWA	DV26IMWEWA	DV28IMWEWA
Combination model			DV10IMWEWA	DV10IMWEWA	DV12IMWEWA	DV08IMWEWA	DV08IMWEWA
			DV10IMWEWA	DV12IMWEWA	DV12IMWEWA	DV08IMWEWA	DV10IMWEWA
			/	/	/	DV10IMWEWA	DV10IMWEWA
Capacity	Capacity range	HP	20	22	24	26	28
	Cooling capacity	kW	56	61.5	67.0	72.8	78.4
	Heating capacity	kW	63	69.0	75.0	81.5	88.0
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling	Rated power input	kW	12.00	13.70	15.40	15.00
		Max. power input	kW	30.00	32.00	34.00	41.00
		Rated current	A	19.19	21.91	24.63	23.99
		Max.current	A	47.98	51.18	54.38	65.57
	Heating	Rated power input	kW	11.60	13.60	15.60	14.10
		Max. power input	kW	30.00	32.00	34.00	41.00
		Rated current	A	18.55	21.75	24.95	22.55
		Max.current	A	47.98	51.18	54.38	65.57
	EER/COP			4.67/5.43	4.49/5.07	4.35/4.81	4.85/5.78
							4.75/5.59
Performance	Water flow (H)	m³/h	12	13.2	14.4	15.6	16.8
	Sound pressure level (H)	dB(A)	54	55	56	55	55
	Sound power level (H)	dB(A)	65	66	67	66	66
Installation	External dimensions(W/D/H)	mm	(775/545/995)*2	(775/545/995)*2	(775/545/995)*2	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)	mm	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight	kg	344/366	344/366	344/366	516/549	516/549
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity		2 INV	2 INV	2 INV	3 INV	3 INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	4	4	4	6	6
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	19.05	19.05
	Refrigerant gas pipe	mm	28.58	28.58	28.58	31.8	31.8
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52
	Total pipe length	m	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	150/120	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40
Heat Exchanger	Type		Double coil	Double coil	Double coil	Double coil	Double coil
	Material		Copper & steel	Copper & steel	Copper & steel	Copper & steel	Copper & steel
Water side	Inlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32
	Outlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32
	pressure drop(inlet and outlet)	Kpa	50+50	50+70	70+70	35+35+50	35+50+50
	Connection type		inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Max. system water pressure	Mpa	1.6	1.6	1.6	1.6	1.6
Connection ratio	Inlet water temperature range (Cooling & Heating)	°C	7~45	7~45	7~45	7~45	7~45
	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	unit	33	36	39	43	46

• 1 outdoor above 50m, outdoor below 40m.
• All the specifications are tested under nominal condition(In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB).
• The specification may change according to the further product development.

DRV W 3/380~400/50(60)



8/10/12HP

Model			DV30IMWEWA	DV32IMWEWA	DV34IMWEWA	DV36IMWEWA	
Combination model			DV10IMWEWA	DV10IMWEWA	DV10IMWEWA	DV12IMWEWA	
			DV10IMWEWA	DV10IMWEWA	DV12IMWEWA	DV12IMWEWA	
			DV10IMWEWA	DV12IMWEWA	DV12IMWEWA	DV12IMWEWA	
Capacity	Capacity range	HP	30	32	34	36	
	Cooling capacity	kW	84.0	89.5	95.0	100.5	
	Heating capacity	kW	94.5	100.5	106.5	112.5	
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling	Rated power input	kW	18.00	19.70	21.40	23.10
		Max. power input	kW	45.00	47.00	49.00	51.00
		Rated current	A	28.79	31.51	34.23	36.95
		Max.current	A	71.97	75.17	78.37	81.57
	Heating	Rated power input	kW	17.40	19.40	21.40	23.40
		Max. power input	kW	45.00	47.00	49.00	51.00
		Rated current	A	27.83	31.03	34.23	37.42
		Max.current	A	71.97	75.17	78.37	81.57
	EER/COP			4.67/5.43	4.54/5.18	4.44/4.98	4.35/4.81
Performance	Water flow (H)	m³/h	18.0	19.2	20.4	21.6	
	Sound pressure level (H)	dB(A)	56	57	57	58	
	Sound power level (H)	dB(A)	67	68	68	69	
Installation	External dimensions(W/D/H)		mm	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)		mm	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight		kg	516/549	516/549	516/549	516/549
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			3 INV	3 INV	3 INV	3 INV
	Refrigerant type			R410A	R410A	R410A	R410A
	Refrigerant charge	kg	6	6	6	6	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	31.8	31.8	31.8	38.1	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	
	Max. pipe length(Equivalent/Actual)		m	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40
Heat Exchanger	Type		Double coil	Double coil	Double coil	Double coil	
	Material		Copper & steel	Copper & steel	Copper & steel	Copper & steel	
Water side	Inlet water connection pipe	mm	DN32	DN32	DN32	DN32	
	Outlet water connection pipe	mm	DN32	DN32	DN32	DN32	
	pressure drop(inlet and outlet)	Kpa	50+50+50	50+50+70	50+70+70	70+70+70	
	Connection type		inner grooved	inner grooved	inner grooved	inner grooved	
	Max. system water pressure	Mpa	1.6	1.6	1.6	1.6	
	Inlet water temperature range (Cooling & Heating)	℃	7~45	7~45	7~45	7~45	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units	unit	50	53	56	59	

* 1 outdoor above 50m,outdoor below 40m.
* All the specifications are tested under nominal condition(In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB).
* The specification may change according to the further product development.

DRV W 3/208~230/60

- Water Sourced DRV Outdoor Unit, Combine Water System and Refrigerant System in one System
- 3 Basic Single Module:8/10/12HP, Max. 3 Modules Combination up to 36HP
- Most Compact Size Outdoor Design in the Industry
- Total 300m Long Pipe Length, Easy for Installation
- Double Coil Outdoor Heat Exchanger
- Compatible with all the DRV Indoor Units

Model			DV08CMWEWA	DV10CMWEWA	DV12CMWEWA	DV16CMWEWA	DV18CMWEWA	
Combination model			/	/	/	DV08CMWEWA	DV08CMWEWA	
			/	/	/	DV08CMWEWA	DV10CMWEWA	
			/	/	/	/	/	
Capacity	Capacity range	HP	8	10	12	16	18	
	Cooling capacity	kW	22.4	28	33.5	44.8	50.4	
	Heating capacity	kW	25	31.5	37.5	50.0	56.5	
Electrical parameters	Power supply		Ph/V/Hz	3/208~230/60	3/208~230/60	3/208~230/60	3/208~230/60	3/208~230/60
	Cooling	Rated power input	kW	4.50	6.00	7.70	9.00	10.50
		Max. power input	kW	13.00	15.00	17.00	26.00	28.00
		Rated current	A	12.43	16.58	21.27	24.86	29.01
		Max.current	A	35.91	41.44	46.96	71.83	77.35
	Heating	Rated power input	kW	4.15	5.80	7.80	8.30	9.95
		Max. power input	kW	13.00	15.00	17.00	26.00	28.00
		Rated current	A	11.46	16.02	21.55	22.93	27.49
		Max.current	A	35.91	41.44	46.96	71.83	77.35
	EER/COP			4.98/6.02	4.67/5.43	4.35/4.81	4.98/6.02	4.8/5.68
Performance	Water flow (H)	m³/h	4.8	6	7.2	9.6	10.8	
	Sound pressure level (H)	dB(A)	50	51	53	53	54	
	Sound power level (H)	dB(A)	61	62	64	64	65	
Installation	External dimensions(W/D/H)		mm	775/545/995	775/545/995	775/545/995	(775/545/995)*2	(775/545/995)*2
	Shipping dimensions(W/D/H)		mm	875/655/1182	875/655/1182	875/655/1182	(875/655/1182)*2	(875/655/1182)*2
	Net/Shipping weight		kg	172/183	172/183	172/183	344/366	344/366
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			1 INV	1 INV	1 INV	2 INV	2 INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	2	2	2	4	4	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	15.88	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	28.58	28.58	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	300	
	Max. pipe length(Equivalent/Actual)		m	150/120	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40	50/40
Heat Exchanger	Type		Double coil	Double coil	Double coil	Double coil	Double coil	
	Material		Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	
Water side	Inlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32	
	Outlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32	
	pressure drop(inlet and outlet)	Kpa	35	50	70	35+35	35+50	
	Connection type		inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	
	Max. system water pressure	Mpa	1.6	1.6	1.6	1.6	1.6	
	Inlet water temperature range (Cooling & Heating)	℃	7~45	7~45	7~45	7~45	7~45	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units	unit	13	16	19	23	29	

DRV W 3/208~230/60



8/10/12HP

Model			DV20CMWEWA	DV22CMWEWA	DV24CMWEWA	DV26CMWEWA	DV28CMWEWA
Combination model			DV10CMWEWA	DV10CMWEWA	DV12CMWEWA	DV08CMWEWA	DV08CMWEWA
			DV10CMWEWA	DV12CMWEWA	DV12CMWEWA	DV08CMWEWA	DV10CMWEWA
			/	/	/	DV10CMWEWA	DV10CMWEWA
Capacity	Capacity range	HP	20	22	24	26	28
	Cooling capacity	kW	56	61.5	67.0	72.8	78.4
	Heating capacity	kW	63	69.0	75.0	81.5	88.0
Electrical parameters	Power supply		Ph/V/Hz	3/208~230/60	3/208~230/60	3/208~230/60	3/208~230/60
	Cooling	Rated power input	kW	12.00	13.70	15.40	15.00
		Max. power input	kW	30.00	32.00	34.00	41.00
		Rated current	A	33.15	37.85	42.54	45.58
		Max.current	A	82.88	88.40	93.93	113.26
	Heating	Rated power input	kW	11.60	13.60	15.60	14.10
		Max. power input	kW	30.00	32.00	34.00	41.00
		Rated current	A	32.05	37.57	43.10	38.95
		Max.current	A	82.88	88.40	93.93	113.26
	EER/COP			4.67/5.43	4.49/5.07	4.35/4.81	4.85/5.78
				4.75/5.59			
Performance	Water flow (H)	m³/h	12	13.2	14.4	15.6	16.8
	Sound pressure level (H)	dB(A)	54	55	56	55	55
	Sound power level (H)	dB(A)	65	66	67	66	66
Installation	External dimensions(W/D/H)	mm	(775/545/995)*2	(775/545/995)*2	(775/545/995)*2	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)	mm	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight	kg	344/366	344/366	344/366	516/549	516/549
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity		2 INV	2 INV	2 INV	3 INV	3 INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	4	4	4	6	6
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	19.05	19.05
	Refrigerant gas pipe	mm	28.58	28.58	28.58	31.8	31.8
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52
	Total pipe length	m	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	150/120	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40
Heat Exchanger	Type		Double coil	Double coil	Double coil	Double coil	Double coil
	Material		Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel
Water side	Inlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32
	Outlet water connection pipe	mm	DN32	DN32	DN32	DN32	DN32
	pressure drop(inlet and outlet)	Kpa	50+50	50+70	70+70	35+35+50	35+50+50
	Connection type		inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Max. system water pressure	Mpa	1.6	1.6	1.6	1.6	1.6
	Inlet water temperature range (Cooling & Heating)	°C	7~45	7~45	7~45	7~45	7~45
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	unit	33	36	39	43	46

- Water Sourced DRV Outdoor Unit, Combine Water System and Refrigerant System in one System
- 3 Basic Single Module:8/10/12HP, Max. 3 Modules Combination up to 36HP
- Most Compact Size Outdoor Design in the Industry
- Total 300m Long Pipe Length, Easy for Installation
- Double Coil Outdoor Heat Exchanger
- Compatible with all the DRV Indoor Units

Model			DV30CMWEWA	DV32CMWEWA	DV34CMWEWA	DV36CMWEWA
Combination model			DV10CMWEWA	DV10CMWEWA	DV10CMWEWA	DV12CMWEWA
			DV10CMWEWA	DV10CMWEWA	DV12CMWEWA	DV12CMWEWA
			DV10CMWEWA	DV12CMWEWA	DV12CMWEWA	DV12CMWEWA
Capacity	Capacity range	HP	30	32	34	36
	Cooling capacity	kW	84.0	89.5	95.0	100.5
	Heating capacity	kW	94.5	100.5	106.5	112.5
Electrical parameters	Power supply		Ph/V/Hz	3/208~230/60	3/208~230/60	3/208~230/60
	Cooling	Rated power input	kW	18.00	19.70	21.40
		Max. power input	kW	45.00	47.00	49.00
		Rated current	A	49.73	54.42	59.12
		Max.current	A	124.31	129.84	135.36
	Heating	Rated power input	kW	17.40	19.40	21.40
		Max. power input	kW	45.00	47.00	49.00
		Rated current	A	48.07	53.59	59.12
		Max.current	A	124.31	129.84	135.36
	EER/COP			4.67/5.43	4.54/5.18	4.44/4.98
						4.35/4.81
Performance	Water flow (H)	m³/h	18.0	19.2	20.4	21.6
	Sound pressure level (H)	dB(A)	56	57	57	58
	Sound power level (H)	dB(A)	67	68	68	69
Installation	External dimensions(W/D/H)	mm	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)	mm	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight	kg	516/549	516/549	516/549	516/549
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity		3 INV	3 INV	3 INV	3 INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	6	6	6	6
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	31.8	31.8	31.8	38.1
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52
	Total pipe length	m	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40
Heat Exchanger	Type		Double coil	Double coil	Double coil	Double coil
	Material		Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel
Water side	Inlet water connection pipe	mm	DN32	DN32	DN32	DN32
	Outlet water connection pipe	mm	DN32	DN32	DN32	DN32
	pressure drop(inlet and outlet)	Kpa	50+50+50	50+50+70	50+70+70	70+70+70
	Connection type		inner grooved	inner grooved	inner grooved	inner grooved
	Max. system water pressure	Mpa	1.6	1.6	1.6	1.6
	Inlet water temperature range (Cooling & Heating)	°C	7~45	7~45	7~45	7~45
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units	unit	50	53	56	59

• 1 outdoor above 50m,outdoor below 40m.
• All the specifications are tested under nominal condition(In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB).
• The specification may change according to the further product development.



DRV AHU Connection Kit



- 103 The 2nd Generation AHU Kit
- 106 Specification
- 106 Dimensions

FEATURES & BENEFITS

System Introduction

System introduction

DB offers a range of connection kit to connect DRV outdoor units to third party DX air handling units.

Ahu kit configuration

DB 2nd generation AHU kit also contains the following 4 parts: The Controller model is HW-AA 101DBK special for DB 2nd generation AHU kit as standard accessory, no need to be purchased separately.

AH1-070B/AH1-140B/AH1-280B

AH1-560B/AH1-730B

EXV part

Different Valve

Control Part

Same Control Parts

Sensor and wire

Controller

System line-up

DB AHU kit provides a wide range solution for DB DRV outdoor unit connecting with the 3rd party AHU.

DX AHU ² Connection kit					Special design for DRV 5 , DRV SII				
Model	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity
Model	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity
Model	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity
Model	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity

Compatibility									
Outdoor		DRV 5				DRV S ⁺			

FEATURES & BENEFITS

System Introduction

BMS control

Note:

- Integrate Haier remote monitoring and controlling system via PC and BMS interface

HCM-01A:Modbus rtu

HCM-03A:Modbus ip/ Bacnet ip

HCM-05: BACnet ip

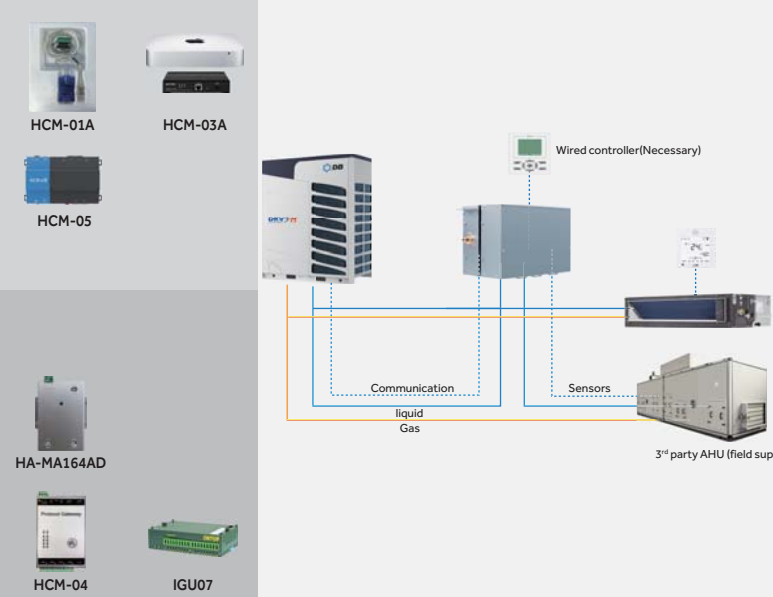
Note:

- Only have BMS interface without Haier remote monitoring system

HA-MA164AD:Modbus.For DRV 5 and upgraded DRV SII(8/10/12HP) integrates this function

HCM-04:Bacnet

IGU07:Lonworks



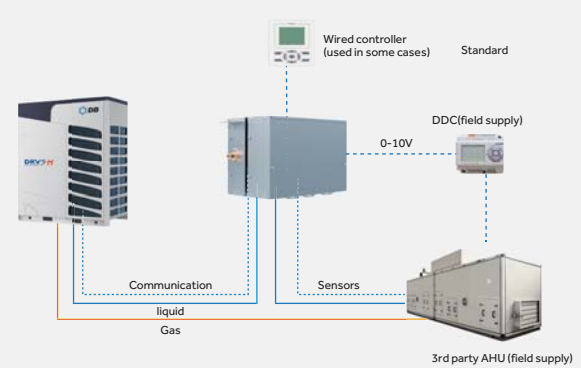
Specification					
Model	AH1-070B	AH1-140B	AH1-280B	AH1-560B	AH1-730B
Connected	3.5≤X≤7KW	7<X≤14KW	14<X≤28KW	28<X≤56KW	56<X≤73KW
AHU capacity	(1-3HP)	(3-5HP)	(5-10HP)	(10-20HP)	(20-26HP)
Power Supply (Ph/V/Hz)	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Dimension (W/D/H) (mm)	420/260/165	420/260/165	420/260/165	420/260/215	420/260/215
Shipping dimensions (mm)	520/340/225	520/340/225	520/340/225	520/340/275	520/340/275
Material	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel
Color	Grey	Grey	Grey	Grey	Grey
Weight (KG)	5.5	5.5	5.5	6.5	6.5
Shipping Weight (KG)	8.5	8.5	8.5	10	10
Liquid pipe (mm)	9.52 (Main) / 6.35	9.52 (Main) / 6.35	9.52 (Main) / 6.35	12.7 (Main) / 15.88	12.7 (Main) / 15.88
AHU Kit-3rd party AHU Max Single pipe length (m)	5	5	5	5	5
AHU Kit-3rd party AHU Max Single pipe length (m)	5	5	5	5	5

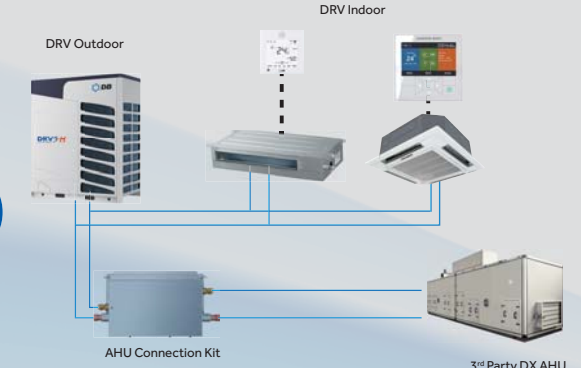
Unit Structure

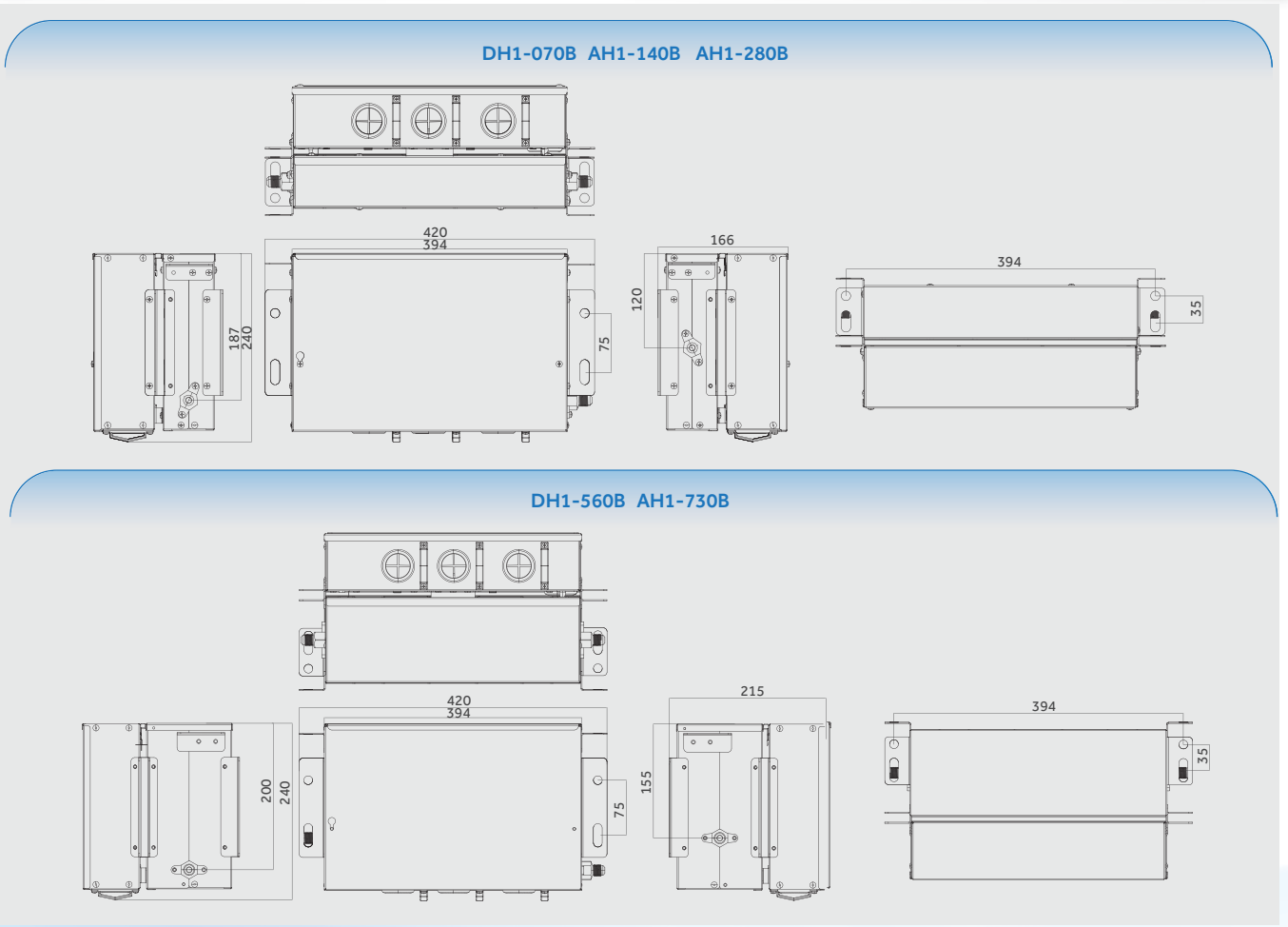
Features

- Extend the AHU connected capacity of per kit ranging from 3.5 kW to 73kW, which can meet the small, medium and large buildings demands.
- Add the 0-10V signal control.
- Supply air temperature (from DDC) or return air temperature controllable.
- Remove the gas pipe, more convenient for installation.

The 2nd generation AHU kit VS The 1st generation AHU kit









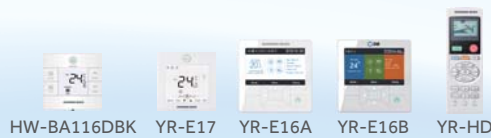
DRV *INDOOR*

- 109 1-way Cassette
- 111 2-Way Cassette
- 113 MINI 4-Way Cassette
- 115 Round Flow 4-way Cassette
- 117 4-Way Cassette
- 119 Ceiling Floor
- 121 Low ESP Slim Duct(0/15/30Pa)
- 123 Low ESP Slim Duct(0/30Pa)
- 125 High ESP Duct (20/200Pa)
- 127 Medium ESP Duct (50/100Pa)
- 129 Medium ESP Duct (80/120Pa)
- 131 High ESP Duct (100/196Pa)
- 133 High ESP Duct (0/200Pa)
- 135 Built-in Floor Standing
- 137 Console Type
- 139 High Wall

Specification



1-WAY
CASSETTE



- Ultra thin design
- Ultra low sound level
- Built-in high head drain pump

Model/Indoor unit			DB052MAERA	DB072MAERA
Capacity	Cooling	kBtu/h	5.1	7.5
		kW	1.5	2.2
	Heating	kBtu/h	5.8	8.5
		kW	1.7	2.5
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60
	Air flow (H/M/L)	m³/h	530/490/450	530/490/450
Performance	Sound pressure level(H/M/L)	dB(A)	32/29/24	32/29/24
	Sound power level(H/M/L)	dB(A)	46/43/38	46/43/38
	External dimensions(W/D/H)	mm	875/505/185	875/505/185
Installation	Shipping dimensions(W/D/H)	mm	1028/581/270	1028/581/270
	Net/Shipping weight	kg	15.3/17.9	15.3/17.9
	Refrigerant liquid pipe	mm	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52
	Model Name		P1B-1050IB	P1B-1050IB
Panel	External dimensions(W/D/H)	mm	1050/560/122	1050/560/122
	Shipping dimensions(W/D/H)	mm	1133/623/197	1133/623/197
	Net/Shipping weight	kg	5.3/8.3	5.3/8.3
Controller	Wired(Optional)	/	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B
		/	HW-BA116DBK	HW-BA116DBK
		/	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD

Model/Indoor unit			DB092MAERA	DB122MAERA
Capacity	Cooling	kBtu/h	9.6	12.3
		kW	2.8	3.6
	Heating	kBtu/h	10.9	13.6
		kW	3.2	4
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60
	Air flow (H/M/L)	m³/h	530/490/450	550/530/490
Performance	Sound pressure level(H/M/L)	dB(A)	32/29/24	34/30/25
	Sound power level(H/M/L)	dB(A)	46/43/38	48/44/39
	External dimensions(W/D/H)	mm	875/505/185	875/505/185
Installation	Shipping dimensions(W/D/H)	mm	1028/581/270	1028/581/270
	Net/Shipping weight	kg	15.3/17.9	15.3/17.9
	Refrigerant liquid pipe	mm	6.35	6.35
	Refrigerant gas pipe	mm	9.52	12.7
	Model Name		P1B-1050IB	P1B-1050IB
Panel	External dimensions(W/D/H)	mm	1050/560/122	1050/560/122
	Shipping dimensions(W/D/H)	mm	1133/623/197	1133/623/197
	Net/Shipping weight	kg	5.3/8.3	5.3/8.3
Controller	Wired(Optional)	/	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B
		/	HW-BA116DBK	HW-BA116DBK
		/	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD

Specification



2-WAY CASSETTE



- Compact design: only 220mm height
- Built in high head drain pump
- Ceiling antifouling design unique antifouling design
- Quiet operation

Model/Indoor unit			DB072MBERA	DB092MBERA
Capacity	Cooling	kBtu/h	7.5	9.6
		kW	2.2	2.8
	Heating	Btu/h	8.5	10.9
		kW	2.5	3.2
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	840/700/550	840/700/550
Performance	Sound pressure level(H/M/L)	dB(A)	42/37/33	42/37/33
	Sound power level(H/M/L)	dB(A)	55/50/46	55/50/46
	External dimensions(W/D/H)	mm	817/620/220	817/620/220
Installation	Shipping dimensions(W/D/H)	mm	1015/695/260	1015/695/260
	Net/Shipping weight	kg	21/23	21/23
	Refrigerant liquid pipe	mm	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52
Panel	Model name		P2B-1055IB	P2B-1055IB
	External dimensions(W/D/H)	mm	1055/680/68	1055/680/68
	Shipping dimensions(W/D/H)	mm	1110/720/160	1110/720/160
	Net/Shipping weight	kg	7/8	7/8
Controller	Wired(Optional)	/	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B
		/	HW-BA116DBK	HW-BA116DBK
		/	YR-E17	YR-E17
	Infrared(Optional)	/	YR-HD	YR-HD
		/		

Model/Indoor unit			DB122MBERA	DB162MBERA	DB182MBERA
Capacity	Cooling	kBtu/h	12.3	15.4	19.1
		kW	3.6	4.5	5.6
	Heating	Btu/h	13.6	17.1	21.5
		kW	4.0	5.0	6.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	840/700/550	840/700/550	840/700/550
Performance	Sound pressure level(H/M/L)	dB(A)	42/37/33	44/39/34	44/39/34
	Sound power level(H/M/L)	dB(A)	55/50/46	57/52/47	57/52/47
	External dimensions(W/D/H)	mm	817/620/220	817/620/220	817/620/220
Installation	Shipping dimensions(W/D/H)	mm	1015/695/260	1015/695/260	1015/695/260
	Net/Shipping weight	kg	21/23	21/23	21/23
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7
Panel	Model name		P2B-1055IB	P2B-1055IB	P2B-1055IB
	External dimensions(W/D/H)	mm	1055/680/68	1055/680/68	1055/680/68
	Shipping dimensions(W/D/H)	mm	1110/720/160	1110/720/160	1110/720/160
	Net/Shipping weight	kg	7/8	7/8	7/8
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116DBK	HW-BA116DBK	HW-BA116DBK
		/	YR-E17	YR-E17	YR-E17
	Infrared(Optional)	/	YR-HD	YR-HD	YR-HD
		/			

Specification



MINI 4-WAY CASSETTE



- Compact design
- New panel design 620*620mm
- Fresh air outlet
- Low sound level

Model/Indoor unit			DB052MCERA(M)	DB072MCERA(M)	DB092MCERA(M)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5
		kW	1.5	2.2	2.8
	Heating	kBtu/h	5.8	8.5	10.9
		kW	1.7	2.5	3.2
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
	Air flow (H/M/L)	m³/h	520/450/400	520/450/400	520/450/400
Performance	Sound pressure level(H/M/L)	dB(A)	32/30/29	32/30/29	32/30/29
	Sound power level(H/M/L)	dB(A)	46/44/43	46/44/43	46/44/43
	External dimensions(W/D/H)	mm	570/570/260	570/570/260	570/570/260
Installation	Shipping dimensions(W/D/H)	mm	718/680/380	718/680/380	718/680/380
	Net/Shipping weight	kg	16/19	16/19	16/19
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52
	Model Name		PB-620KB	PB-620KB	PB-620KB
Panel	External dimensions(W/D/H)	mm	620/620/60	620/620/60	620/620/60
	Shipping dimensions(W/D/H)	mm	660/660/115	660/660/115	660/660/115
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01

Model/Indoor unit			DB122MCERA(M)	DB162MCERA(M)	DB182MCERA(M)
Capacity	Cooling	kBtu/h	12.3	15.3	19.1
		kW	3.6	4.5	5.6
	Heating	kBtu/h	13.6	17.1	21.5
		kW	4	5	6.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
	Air flow (H/M/L)	m³/h	520/450/400	650/520/450	760/650/520
Performance	Sound pressure level(H/M/L)	dB(A)	33/30/29	33/30/29	34/32/30
	Sound power level(H/M/L)	dB(A)	47/44/43	47/44/43	48/46/44
	External dimensions(W/D/H)	mm	570/570/260	570/570/260	570/570/260
Installation	Shipping dimensions(W/D/H)	mm	718/680/380	718/680/380	718/680/380
	Net/Shipping weight	kg	19/22	19/22	19/22
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7
	Model Name		PB-620KB	PB-620KB	PB-620KB
Panel	External dimensions(W/D/H)	mm	620/620/60	620/620/60	620/620/60
	Shipping dimensions(W/D/H)	mm	660/660/115	660/660/115	660/660/115
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01

Specification



ROUND FLOW 4-WAY CASSETTE



- Unique round-way air outlet, no blind spot
- Innovative 4 independent air flow control
- 6 adjustable louver positions, 1296 air flow combinations
- Move Eye intelligent system, intelligence all around(optional)

Model/Indoor unit			DB072MRERA	DB092MRERA	DB122MRERA	DB162MRERA	DB182MRERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3	15.3	19.1
		kW	2.2	2.8	3.6	4.5	5.6
	Heating	Btu/h	8.5	10.9	13.6	17.1	21.5
		kW	2.5	3.2	4.0	5.0	6.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H)	m³/h	1000/810/620	1000/810/620	1000/810/620	1000/810/620	1000/810/620
	Sound pressure level(H/M/L)	dB(A)	30/27/25	30/27/25	30/27/25	32/29/27	33/30/29
Installation	External dimensions(W/D/H)	mm	840/840/183	840/840/183	840/840/183	840/840/183	840/840/183
	Shipping dimensions(W/D/H)	mm	983/983/268	983/983/268	983/983/268	983/983/268	983/983/268
	Net/Shipping weight	kg	25/28	25/28	25/28	25/28	25/28
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	12.7	12.7	12.7
Panel	Model name		PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB
	External dimensions(W/D/H)	mm	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50
	Shipping dimensions(W/D/H)	mm	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123
	Net/Shipping weight	kg	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9
Controller	Wired(Optional)	/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
		/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
	Infrared(Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01

Model/Indoor unit			DB242MRERA	DB282MRERA	DB302MRERA	DB382MRERA	DB482MRERA	DB602MRERA
Capacity	Cooling	kBtu/h	24.2	27.3	30.7	38.2	47.7	54.6
		kW	7.1	8.0	9.0	11.2	14.0	16.0
	Heating	Btu/h	27.3	30.7	34.1	42.6	54.6	61.2
		kW	8.0	9.0	10.0	12.5	16.0	18.0
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H)	m³/h	1380/1190/1000	1380/1190/1000	2050/1860/1670	2050/1860/1670	2100/1910/1720	2100/1910/1720
	Sound pressure level(H/M/L)	dB(A)	35/34/31	37/35/31	37/35/31	37/35/31	44/40/36	44/40/36
Installation	External dimensions(W/D/H)	mm	840/840/204	840/840/204	840/840/246	840/840/246	840/840/288	840/840/288
	Shipping dimensions(W/D/H)	mm	983/983/290	983/983/290	983/983/331	983/983/331	983/983/373	983/983/373
	Net/Shipping weight	kg	27/30	27/30	31/36	31/36	33/38	33/38
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
Panel	Model name		PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB
	External dimensions(W/D/H)	mm	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50
	Shipping dimensions(W/D/H)	mm	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123
	Net/Shipping weight	kg	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9
Controller	Wired(Optional)	/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
		/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
	Infrared(Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01

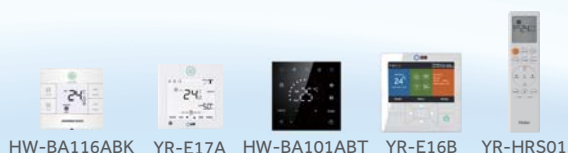
Specification



4-WAY CASSETTE

Model/Indoor unit			DB182MNERA	DB242MNERA	DB282MNERA	DB302MNERA
Capacity	Cooling	kBtu/h	19.1	24.2	27.3	30.7
		kW	5.6	7.1	8	9
	Heating	Btu/h	21.5	27.3	30.7	34.1
Electrical Parameters		kW	6.3	8	9	10
		Ph/V/Hz	1,220-230/50/60	1,220-230/50/60	1,220-230/50/60	1,220-230/50/60
	Air flow (H)	m³/h	1000/810/620	1380/1190/1000	1380/1190/1000	2050/1860/1670
Performance	Sound pressure level(H/M/L)	dB(A)	33/30/29	35/34/31	37/35/31	37/35/31
	Sound power level(H/M/L)	dB(A)	47/44/43	49/48/45	51/49/45	51/49/45
	External dimensions(W/D/H)	mm	840/840/180	840/840/204	840/840/204	840/840/246
Installation	Shipping dimensions(W/D/H)	mm	983/983/268	983/983/290	983/983/290	983/983/331
	Net/Shipping weight	kg	25/28	25/28	25/28	25/28
	Refrigerant liquid pipe	mm	6.35	9.52	9.52	9.52
Panel	Refrigerant gas pipe	mm	12.7	15.88	15.88	15.88
	Model name		PB-950JB	PB-950JB	PB-950JB	PB-950JB
	External dimensions(W/D/H)	mm	950/950/60	950/950/60	950/950/60	950/950/60
Controller	Shipping dimensions(W/D/H)	mm	992/992/115	992/992/115	992/992/115	992/992/115
	Net/Shipping weight	kg	6/7.5	6/7.5	6/7.5	6/7.5
	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
Controller		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared (Optional)	/	YR-E17A	YR-E17A	YR-E17A	YR-E17A

Model/Indoor unit			DB382MNERA	DB482MNERA	DB602MNERA
Capacity	Cooling	kBtu/h	38.2	47.8	54.6
		kW	11.2	14	16
	Heating	Btu/h	42.7	54.6	61.2
Electrical Parameters		kW	12.5	16	18
		Ph/V/Hz	1,220-230/50/60	1,220-230/50/60	1,220-230/50/60
	Air flow (H)	m³/h	2050/1860/1670	2100/1910/1720	2100/1910/1720
Performance	Sound pressure level(H/M/L)	dB(A)	37/35/31	44/40/36	44/40/36
	Sound power level(H/M/L)	dB(A)	51/49/45	58/54/50	58/54/50
	External dimensions(W/D/H)	mm	840/840/246	840/840/288	840/840/288
Installation	Shipping dimensions(W/D/H)	mm	983/983/331	983/983/373	983/983/373
	Net/Shipping weight	kg	25/28	25/28	25/28
	Refrigerant liquid pipe	mm	9.52	9.52	9.52
Panel	Refrigerant gas pipe	mm	15.88	15.88	15.88
	Model name		PB-950JB	PB-950JB	PB-950JB
	External dimensions(W/D/H)	mm	950/950/60	950/950/60	950/950/60
Controller	Shipping dimensions(W/D/H)	mm	992/992/115	992/992/115	992/992/115
	Net/Shipping weight	kg	6/7.5	6/7.5	6/7.5
	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
Controller		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared (Optional)	/	YR-E17A	YR-E17A	YR-E17A

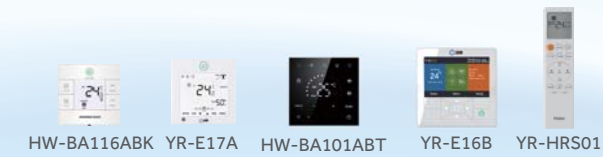


- 700x700mm panel design
- Pre-set fresh air inlet
- Built-in high head drain pump
- Quiet operation

Specification



CEILING FLOOR



- DC fan motor
- Automatic horizontal and vertical swing
- Flexible installation, on the floor or on the ceiling
- Reserved fresh air inlet

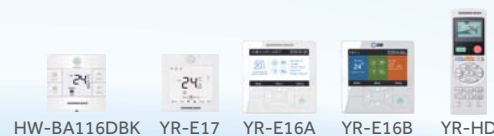
Model/Indoor unit			DC092MDERA	DC122MDERA	DC162MDERA	DC182MDERA	DC242MDERA
Capacity	Cooling	kBtu/h	9.5	12.3	15.4	19.1	24.2
		kW	2.8	3.6	4.5	5.6	7.1
	Heating	Btu/h	10.9	13.6	17.1	21.5	27.3
		kW	3.2	4.0	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1,220-230,50/60	1,220-230,50/60	1,220-230,50/60	1,220-230,50/60	1,220-230,50/60
Performance	Air flow (H)	m³/h	820/750/690	820/750/690	950/820/690	950/820/690	1420/1270/1240
	Sound pressure level(H/M/L)	dB(A)	38/36/34	38/36/34	42/38/35	42/38/35	46/44/41
	Sound power level(H/M/L)	dB(A)	52/50/47	52/50/47	55/51/48	55/51/48	60/58/54
Installation	External dimensions(W/D/H)	mm	1000/230/680	1000/230/680	1000/230/680	1000/230/680	1325/230/680
	Shipping dimensions(W/D/H)	mm	1100/305/779	1100/305/779	1100/305/779	1100/305/779	1425/305/779
	Net/Shipping weight	kg	27.9/33.6	27.9/33.6	27.9/33.6	27.9/33.6	35.8/42.1
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	12.7	12.7	12.7	15.88
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17A	YR-E17A	YR-E17A	YR-E17A	YR-E17A
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Model/Indoor unit			DC282MDERA	DC302MDERA	DC382MDERA	DC482MDERA
Capacity	Cooling	kBtu/h	27.3	30.7	38.2	48.0
		kW	8	9	11.2	14.0
	Heating	Btu/h	30.7	34.1	42.6	55.0
		kW	9	10	12.5	16.0
Electrical Parameters	Power supply	Ph/V/Hz	1,220-230,50/60	1,220-230,50/60	1,220-230,50/60	1,220-230,50/60
Performance	Air flow (H)	m³/h	1570/1420/1240	1570/1420/1240	2110/1990/1750	2110/1990/1750
	Sound pressure level(H/M/L)	dB(A)	47/44/41	47/44/41	50/46/43	50/46/43
	Sound power level(H/M/L)	dB(A)	61/58/54	61/58/55	63/60/57	63/60/57
Installation	External dimensions(W/D/H)	mm	1325/230/680	1325/230/680	1650/230/680	1650/230/680
	Shipping dimensions(W/D/H)	mm	1425/305/779	1425/305/779	1750/305/779	1750/305/779
	Net/Shipping weight	kg	35.8/42.1	35.8/42.1	43.5/50.5	43.5/50.5
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17A	YR-E17A	YR-E17A	YR-E17A
		/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Specification



LOW ESP SLIM DUCT (0/15/30Pa)



- DC fan motor
- New design 3D airflow air grille(optional)
- Super slim design, only 185mm
- Reserved fresh air inlet
- Built-in high head drain pump
- Friendly design of rear or bottom air return
- Quiet operation
- Static pressure 0/15/30Pa

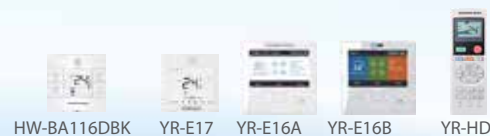
Model/Indoor unit			DD052MSERA(D)	DD072MSERA(D)	DD092MSERA(D)	DD122MSERA(D)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3
		kW	1.5	2.2	2.8	3.6
	Heating	kBtu/h	5.8	8.5	10.9	13.6
		kW	1.7	2.5	3.2	4.0
Electrical Parameters	Power supply		Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H/M/L)		m³/h	430/370/310	480/420/360	550/430/370
	Sound pressure level(H/M/L)		dB(A)	26/22/19	27/23/20	27/23/20
	Sound power level(H/M/L)		dB(A)	40/36/33	41/37/34	41/37/34
Performance	External dimensions(W/D/H)		mm	850/420/185	850/420/185	850/420/185
	Shipping dimensions(W/D/H)		mm	1045/540/270	1045/540/270	1045/540/270
	Net/Shipping weight		kg	16.5/21.5	17.5/22.5	17.5/22.5
	Refrigerant liquid pipe		mm	6.35	6.35	6.35
Installation	Refrigerant gas pipe		mm	9.52	9.52	12.7
	Static Pressure(Standard/Max.)		Pa	0/15/30	0/15/30	0/15/30
	Panel model		/	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D
	External dimensions(W/D/H)		mm	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)
Panel	External dimensions(W/D/H)			890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)
	Shipping dimensions(W/D/H)		mm	938/335/220	938/335/220	938/335/220
	Net/Shipping weight		Kg	4/5	4/5	4/5
	O-optional,S-standard,W-without			S	S	S
Drain pump	Wired(Optional)		/	YR-E16A	YR-E16A	YR-E16A
			/	YR-E16B	YR-E16B	YR-E16B
			/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)		/	YR-HD	YR-HD	YR-HD

Model/Indoor unit			DD162MSERA(D)	DD182MSERA(D)	DD242MSERA(D)
Capacity	Cooling	kBtu/h	15.3	19.1	24.2
		kW	4.5	5.6	7.1
	Heating	kBtu/h	17.1	21.5	27.3
		kW	5.0	6.3	8.0
Electrical Parameters	Power supply		Ph/V/Hz	1/220-230/50/60	1/220-230/50/60
	Air flow (H/M/L)		m³/h	600/540/460	800/690/580
	Sound pressure level(H/M/L)		dB(A)	32/29/26	33/30/27
	Sound power level(H/M/L)		dB(A)	46/43/40	47/44/41
Performance	External dimensions(W/D/H)		mm	850/420/185	1170/420/185
	Shipping dimensions(W/D/H)		mm	1045/540/270	1365/540/270
	Net/Shipping weight		kg	18.5/23.5	22.2/28.2
	Refrigerant liquid pipe		mm	6.35	6.35
Installation	Refrigerant gas pipe		mm	12.7	12.7
	Static Pressure(Standard/Max.)		Pa	0/15/30	0/15/30
	Panel model		/	P1B-890IA/D	P1B-1210IA/D
	External dimensions(W/D/H)		mm	890/190/100 (outlet panel)	1210/190/100 (outlet panel)
Panel	External dimensions(W/D/H)			890/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)
	Shipping dimensions(W/D/H)		mm	938/335/220	1258/335/220
	Net/Shipping weight		Kg	4/5	5/6
	O-optional,S-standard,W-without			S	S
Drain pump	Wired(Optional)		/	YR-E16A	YR-E16A
			/	YR-E16B	YR-E16B
			/	YR-E17	YR-E17
	Infrared (Optional)		/	YR-HD	YR-HD

Specification



LOW ESP SLIM DUCT (0/30Pa)



- Static pressure 0/30Pa
- Super slim design, only 185mm
- Reserved fresh air inlet
- Built-in high head drain pump
- Friendly design of rear or bottom air return
- Quiet operation

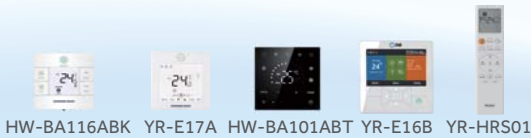
Model/Indoor unit			DD052MSERA	DD072MSERA	DD092MSERA	DD122MSERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3
		kW	1.5	2.2	2.8	3.6
	Heating	kBtu/h	5.8	8.5	10.9	13.6
		kW	1.7	2.5	3.2	4.0
Electrical Parameters	Power supply		Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
	Air flow (H/M/L)		m³/h	430/370/310	480/420/360	550/430/370
	Sound pressure level (H/M/L)		dB(A)	26/23/20	27/24/21	27/24/21
	Sound power level (H/M/L)		dB(A)	40/37/34	41/38/35	41/38/35
Performance	External dimensions (W/D/H)		mm	850/420/185	850/420/185	850/420/185
	Shipping dimensions (W/D/H)		mm	1045/540/270	1045/540/270	1045/540/270
	Net/Shipping weight		kg	16.5/21.5	17.5/22.5	17.5/22.5
	Refrigerant liquid pipe		mm	6.35	6.35	6.35
	Refrigerant gas pipe		mm	9.52	9.52	12.7
	Static Pressure (Standard/Max.)		Pa	0/30	0/30	0/30
	Panel model		/	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D
Panel	External dimensions (W/D/H)		mm	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)
	External dimensions (W/D/H)			890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)
	Shipping dimensions (W/D/H)		mm	938/335/220	938/335/220	938/335/220
	Net/Shipping weight		Kg	4/5	4/5	4/5
Drain pump	O-optional,S-standard,W-without			S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116DBK	HW-BA116DBK	HW-BA116DBK	HW-BA116DBK
		/	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD
		/				

Model/Indoor unit			DD162MSERA	DD182MSERA	DD242MSERA
Capacity	Cooling	kBtu/h	15.3	19.1	24.2
		kW	4.5	5.6	7.1
	Heating	kBtu/h	17.1	21.5	27.3
		kW	5.0	6.3	8.0
Electrical Parameters	Power supply		Ph/V/Hz	1/220~230/50/60	1/220~230/50/60
	Air flow (H/M/L)		m³/h	600/540/460	800/690/580
	Sound pressure level (H/M/L)		dB(A)	33/30/27	33/30/28
	Sound power level (H/M/L)		dB(A)	47/44/41	47/44/42
Performance	External dimensions (W/D/H)		mm	850/420/185	1170/420/185
	Shipping dimensions (W/D/H)		mm	1045/540/270	1365/540/270
	Net/Shipping weight		kg	18.5/23.5	22.2/28.2
	Refrigerant liquid pipe		mm	6.35	6.35
	Refrigerant gas pipe		mm	12.7	12.7
	Static Pressure (Standard/Max.)		Pa	0/30	0/30
	Panel model		/	P1B-890IA/D	P1B-12102IA/D
Panel	External dimensions (W/D/H)		mm	890/190/100 (outlet panel)	1210/190/100 (outlet panel)
	External dimensions (W/D/H)			890/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)
	Shipping dimensions (W/D/H)		mm	938/335/220	1258/335/220
	Net/Shipping weight		Kg	4/5	5/6
Drain pump	O-optional,S-standard,W-without			S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116DBK	HW-BA116DBK	HW-BA116DBK
		/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD	YR-HD
		/			

Specification



HIGH ESP DUCT
(20/200Pa)



- DC fan motor
- Only 248mm thick
- Built-in drain pump
- All module can realize 50/60Hz

Model/Indoor unit			DD052MJERAD	DD072MJERAD	DD092MJERAD	DD122MJERAD	DD162MJERAD	DD182MJERAD
Capacity	Cooling	HP	0.5	0.8	1.0	1.25	1.7	2.0
		kBtu/h	5.1	7.5	9.6	12.3	15.3	19.1
		kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	kBtu/h	5.8	8.5	10.9	13.7	17	21.5
		kW	1.7	2.5	3.2	4	5	6.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Dimensions	Net Product	mm	700/700/248	700/700/248	700/700/248	700/700/248	700/700/248	1100/700/248
	Shipping Product	mm	932/835/280	932/835/280	932/835/280	932/835/280	932/835/280	1332/835/280
Weight	Product Net/Shipping	kg	27/32	27/32	27/32	27/32	28.5/33.5	36.8/43.4
Fan	Static Pressure(Standard/Max)	Pa	20/200	20/200	20/200	20/200	20/200	20/200
	Air flow (H/M/L)	m³/h	515/440/390	545/470/390	545/470/390	570/495/420	700/625/550	915/765/640
Sound level	Sound pressure level(H/M/L)	dB(A)	29/27/25	30/28/25	30/28/25	31/29/27	32/30/28	33/31/29
	Sound power level(H/M/L)	dB(A)	41/39/37	42/40/37	42/40/37	43/41/39	44/42/40	45/43/41
Piping	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7
Drain pump	O-optional ,S-standard, N-not	/	S	S	S	S	S	S
Controller	Wired(Optional)	/	YR-E17A	YR-E17A	YR-E17A	YR-E17A	YR-E17A	YR-E17A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

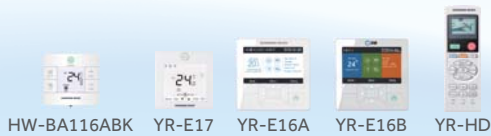
Model/Indoor unit			DD242MJERAD	DD282MJERAD	DD302MJERAD	DD382MJERAD	DD482MJERAD	DD542MJERAD
Capacity	Cooling	HP	2.5	3.0	3.2	4.0	5.0	6.0
		kBtu/h	24.2	27.3	30.7	38.2	47.8	54.6
		kW	7.1	8	9	11.2	14	16
	Heating	kBtu/h	27.3	30.7	34.1	44.4	55.6	61.4
		kW	8	9	10	13	16.3	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Dimensions	Net Product	mm	1100/700/248	1100/700/248	1100/700/248	1500/700/248	1500/700/248	1500/700/248
	Shipping Product	mm	1332/835/280	1332/835/280	1332/835/280	1698/857/305	1698/857/305	1698/857/305
Weight	Product Net/Shipping	kg	36.8/43.4	36.8/43.4	39.4/45.4	48.3/56.5	51.3/59.5	51.3/59.5
Fan	Static Pressure(Standard/Max)	Pa	20/200	20/200	20/180	20/180	20/180	20/180
	Air flow (H/M/L)	m³/h	1275/1050/875	1275/1050/875	1450/1200/1000	2000/1700/1400	2150/1750/1400	2350/1950/1600
Sound level	Sound pressure level(H/M/L)	dB(A)	34/31/29	35/33/30	36/33/30	38/35/32	40/36/32	42/38/34
	Sound power level(H/M/L)	dB(A)	46/43/41	47/45/42	48/45/42	50/47/44	52/48/44	54/50/46
Piping	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	O-optional ,S-standard, N-not	/	S	S	S	S	S	S
Controller	Wired(Optional)	/	YR-E17A	YR-E17A	YR-E17A	YR-E17A	YR-E17A	YR-E17A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Specification



MEDIUM ESP DUCT (50/100Pa)

NEW



- 5-48K
- Only 250mm thick
- Built-in drain pump
- 50/100Pa

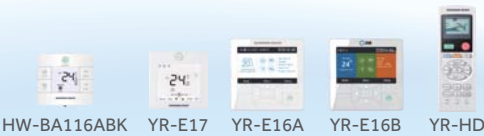
Model/Indoor unit			DD052MJERA	DD072MJERA	DD092MJERA	DD122MJERA	DD162MJERA	DD182MJERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1
		kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	Btu/h	5.8	8.5	10.9	13.6	17.1	21.5
		kW	1.7	2.5	3.2	4	5	6.3
Electrical Parameters	Power supply		Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)		m³/h	585/495/408	585/495/408	585/495/408	750/652/566	920/805/699
	Sound pressure level(H/M/L)		dB(A)	35/33/31	35/33/31	35/33/31	35/33/31	36/34/32
	Sound power level(H/M/L)		dB(A)	39/37/35	39/37/35	39/37/35	39/37/35	40/38/36
Installation	External dimensions(W/D/H)		mm	750/720/250	750/720/250	750/720/250	750/720/250	1050/720/250
	Shipping dimensions(W/D/H)		mm	920/820/340	920/820/340	920/820/340	920/820/340	1170/860/340
	Net/Shipping weight		kg	24.1/28.3	24.1/28.3	24.1/28.3	25.9/30.1	30.5/35.9
	Refrigerant liquid pipe		mm	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe		mm	12.7	12.7	12.7	12.7	12.7
	Static Pressure(Standard/Max.)		Pa	50/100	50/100	50/100	50/100	50/100
Drain pump	O-optional,S-standard,W-without			S	S	S	S	S
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared(Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD

Model/Indoor unit			DD242MJERA	DD282MJERA	DD302MJERA	DD382MJERA	DD482MJERA
Capacity	Cooling	kBtu/h	24.2	27.3	30.7	38.2	47.8
		kW	7.1	8	9	11.2	14
	Heating	Btu/h	27.3	30.7	34.1	44.4	55.6
		kW	8	9	10	13	16.3
Electrical Parameters	Power supply		Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1,220-230,50	1,220-230,50
	Air flow (H)		m³/h	1230/1090/950	1230/1090/950	1500/1180/930	1700/1300/900
	Sound pressure level(H/M/L)		dB(A)	38/36/34	42/39/35	42/38/34	42/39/35
	Sound power level(H/M/L)		dB(A)	42/40/38	46/43/39	46/42/38	46/33/39
Installation	External dimensions(W/D/H)		mm	1050/720/250	1050/720/250	1100/700/248	1500/700/248
	Shipping dimensions(W/D/H)		mm	1170/860/340	1170/860/340	1332/835/280	1698/857/305
	Net/Shipping weight		kg	33.1/38.5	33.1/38.5	39.4/45.4	48.3/56.5
	Refrigerant liquid pipe		mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe		mm	15.88	15.88	15.88	15.88
	Static Pressure(Standard/Max.)		Pa	50/100	50/100	50/100	50/100
Drain pump	O-optional,S-standard,W-without			S	S	S	S
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared(Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD



MEDIUM ESP DUCT
(80/120Pa)

Model/Indoor unit			DD302MNERA	DD382MNERA	DD482MNERA
Capacity	Cooling	kBtu/h	30	38	48
		kW	9	11.2	14
	Heating	Btu/h	34	43	55
		kW	10	12.5	16
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	2208/1973/1795	2208/1973/1795	2208/1973/1795
Performance	Sound pressure level(H/M/L)	dB(A)	49/47/43	49/47/43	49/47/43
	Sound power level(H/M/L)	dB(A)	62/60/56	62/60/56	62/60/56
	External dimensions(W/D/H)	mm	1135/742/270	1135/742/270	1135/742/270
	Shipping dimensions(W/D/H)	mm	1355/856/380	1355/856/380	1355/856/380
Installation	Net/Shipping weight	kg	47/53	47/53	47/53
	Refrigerant liquid pipe	mm	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88
	Static Pressure(Standard/Max.)	Pa	50/120	50/120	50/120
	Drain pump	O-optional,S-standard,W-without	KT-NP01(Optional)	KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17
	Infrared(Optional)	/	YR-HD	YR-HD	YR-HD

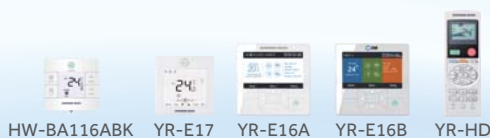


- New compact design:270mm height
- Flexible duct connection
- Static pressure 80/120Pa

Specification



HIGH ESP DUCT (100/196Pa)



- Flexible duct connection
- Variable static pressure 100/196Pa setting

Model/Indoor unit			DD182MHERA	DD242MHERA	DD282MHERA	DD302MHERA
Capacity	Cooling	kBtu/h	19.1	24.2	27.3	30.7
		kW	5.6	7.1	8.0	9.0
	Heating	Btu/h	21.5	27.3	30.73	34.1
		kW	6.3	8.0	9.0	10.0
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	1500/1357/1089	1500/1357/1089	1500/1357/1089	1560/1412/1133
	Sound pressure level(H/M/L)	dB(A)	42/40/38	42/40/38	42/40/38	45/43/40
	Sound power level(H/M/L)	dB(A)	55/53/51	55/53/51	55/53/51	58/53/50
Performance	External dimensions(W/D/H)	mm	975/906/360	975/906/360	975/906/360	1355/876/360
	Shipping dimensions(W/D/H)	mm	1048/943/413	1048/943/413	1048/943/413	1378/938/405
	Net/Shipping weight	kg	54/62	54/62	54/62	66/74
	Refrigerant liquid pipe	mm	6.35	9.52	9.52	9.52
	Refrigerant gas pipe	mm	12.7	15.88	15.88	15.88
	Static Pressure(Standard/Max.)	Pa	100/196	100/196	100/196	100/196
Drain pump	O-optional,S-standard,W-without		W	W	W	W
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared(Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD

Model/Indoor unit			DD382MHERA	DD482MHERA	DD722MHERA	DD962MHERA
Capacity	Cooling	kBtu/h	38.2	47.8	77.1	95.6
		kW	11.2	14.0	22.6	28.0
	Heating	Btu/h	42.6	54.6	85.3	105.8
		kW	12.5	16.0	25.0	31.0
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	1600/1448/1162	2100/1901/1525	4050/3255/2612	4050/3255/2612
	Sound pressure level(H/M/L)	dB(A)	45/43/40	45/43/40	54/51/49	54/51/49
	Sound power level(H/M/L)	dB(A)	58/53/50	58/53/50	67/62/59	67/62/59
Performance	External dimensions(W/D/H)	mm	1355/876/360	1355/876/360	1725/876/360	1725/876/360
	Shipping dimensions(W/D/H)	mm	1378/938/405	1378/938/405	1830/990/530	1830/990/530
	Net/Shipping weight	kg	66/74	66/74	100/112	100/112
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	25.4	25.4
	Static Pressure(Standard/Max.)	Pa	100/196	100/196	100/196	100/196
Drain pump	O-optional,S-standard,W-without		W	W	W	W
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared(Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD

Specification



HIGH ESP DUCT (0/200Pa)



- Auto adjusted ESP 0-200Pa
- Low sound level
- Built-in high head drain pump

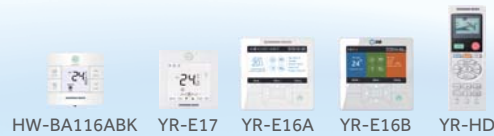
Model/Indoor unit			DD072MQERA	DD092MQERA	DD122MQERA	DD152MQERA	DD182MQERA	DD242MQERA
Capacity	Cooling	kBtu/h	7.6	9.6	12.1	15.1	18.2	24
		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kBtu/h	8.6	10.6	13.6	17	20	27
		kW	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)
Performance	Air flow (H/M/L)	m³/h	500/410/360	600/510/450	700/580/500	780/680/600	900/780/600	1100/1020/920
	Sound pressure level(H/M/L)	dB(A)	30/25/23	30/25/23	32/29/26	32/29/26	32/29/26	33/29/25
Installation	External dimensions(W/D/H)	mm	750/635/280	750/635/280	750/635/280	750/635/280	750/635/280	950/635/280
	Shipping dimensions(W/D/H)	mm	980/740/335	980/740/335	980/740/335	980/740/335	980/740/335	1180/740/335
	Net/Shipping weight	kg	29/35	29/35	29/35	29/35	29/35	34/41
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88
	Static Pressure(Standard/Max.)	Pa	0-200	0-200	0-200	0-200	0-200	0-200
Drain pump	O-optional,S-standard,W-without		S	S	S	S	S	S
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD

Model/Indoor unit			DD282MQERA	DD302MQERA	DD362MQERA	DD422MQERA	DD482MQERA	DD542MQERA
Capacity	Cooling	kBtu/h	27.3	30	36	42	48	54
		kW	8	9	11.2	12.5	14	16
	Heating	kBtu/h	30.7	34	40	47	54	60
		kW	9	10	12.5	15	16	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)
Performance	Air flow (H/M/L)	m³/h	1500/1320/1220	1500/1320/1220	1700/1510/1400	2000/1780/1620	2280/1920/1780	2280/1920/1780
	Sound pressure level(H/M/L)	dB(A)	33/29/25	33/29/25	38/36/30	38/36/30	40/34/29	40/34/29
Installation	External dimensions(W/D/H)	mm	950/635/280	950/635/280	1370/740/280	1370/740/280	1370/740/280	1370/740/280
	Shipping dimensions(W/D/H)	mm	1180/740/335	1180/740/335	1555/839/380	1555/839/380	1555/839/380	1555/839/380
	Net/Shipping weight	kg	34/41	34/41	54/68	54/68	54/68	54/68
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	Static Pressure(Standard/Max.)	Pa	0-200	0-200	0-200	0-200	0-200	0-200
Drain pump	O-optional,S-standard,W-without		S	S	S	S	S	S
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD	YR-HD

Specification



BUILT-IN FLOOR STANDING



- Require very little installation space: only 220mm
- Good solution for installation beneath a window
- High efficiency filter fitted as standard

Model/Indoor unit			DE072MLERA	DE092MLERA	DE122MLERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3
		kW	2.2	2.8	3.6
	Heating	Btu/h	8.5	10.9	13.6
		kW	2.5	3.2	4.0
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	750/650/550	750/650/550	750/650/550
Performance	Sound pressure level(H/M/L)	dB(A)	38/35/33	38/35/33	40/37/35
	Sound power level(H/M/L)	dB(A)	51/48/46	51/48/46	53/50/48
	External dimensions(W/D/H)	mm	1116/221/624	1116/221/624	1116/221/624
Installation	Shipping dimensions(W/D/H)	mm	1198/295/707	1198/295/707	1198/295/707
	Net/Shipping weight	kg	29/37	29/37	29/37
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	12.7
	Static Pressure	Pa	0/30	0/30	0/30
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD	YR-HD
		/			

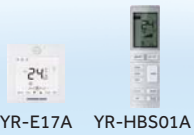
Model/Indoor unit			DE162MLERA	DE182MLERA	DE242MLERA
Capacity	Cooling	kBtu/h	15.3	19.1	24.2
		kW	4.5	5.6	7.1
	Heating	Btu/h	17.1	21.5	27.3
		kW	5.0	6.3	8.0
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	950/830/720	950/830/720	950/830/720
Performance	Sound pressure level(H/M/L)	dB(A)	40/37/35	42/39/36	42/39/36
	Sound power level(H/M/L)	dB(A)	53/50/48	55/52/49	55/52/49
	External dimensions(W/D/H)	mm	1116/221/624	1116/221/624	1116/221/624
Installation	Shipping dimensions(W/D/H)	mm	1198/295/707	1198/295/707	1198/295/707
	Net/Shipping weight	kg	31/39	31/39	31/39
	Refrigerant liquid pipe	mm	6.35	6.35	9.52
	Refrigerant gas pipe	mm	12.7	12.7	15.88
	Static Pressure	Pa	0/30	0/30	0/30
Controller	Wired(Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD	YR-HD	YR-HD
		/			

Specification



CONSOLE TYPE

NEW



YR-E17A YR-HBS01A

- Air discharge through top and bottom
- Compact design & small space occupation
- Quiet operation

Model/Indoor unit			DF052MBERA	DF072MBERA	DF092MBERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5
		kW	1.5	2.2	2.8
	Heating	Btu/h	5.8	8.5	10.9
		kW	1.7	2.6	3.2
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240,50/60	1/220-240,50/60	1/220-240,50/60
	Air flow (H)	m³/h	460/380/300	460/380/300	460/380/300
Performance	Sound pressure level(H/M/L)	dB(A)	42/36/31	42/36/31	43/39/35
	Sound power level(H/M/L)	dB(A)	53/47/42	53/47/42	54/50/46
	External dimensions(W/D/H)	mm	700/210/600	700/210/600	700/210/600
Installation	Shipping dimensions(W/D/H)	mm	783/303/695	783/303/695	783/303/695
	Net/Shipping weight	kg	17/19	17/19	17/19
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7
Controller	Wired (Optional)	/	E17A	E17A	E17A
	Infrared(Optional)	/	YR-HB	YR-HB	YR-HB

Model/Indoor unit			DF122MBERA	DF162MBERA	DF182MBERA
Capacity	Cooling	kBtu/h	12.3	15.3	16.5
		kW	3.6	4.5	4.8
	Heating	Btu/h	13.6	17	18.2
		kW	4	5	5.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240,50/60	1/220-240,50/60	1/220-240,50/60
	Air flow (H)	m³/h	510/450/350	640/470/390	640/470/390
Performance	Sound pressure level(H/M/L)	dB(A)	43/39/35	48/44/38	48/44/38
	Sound power level(H/M/L)	dB(A)	54/50/46	59/55/49	59/55/49
	External dimensions(W/D/H)	mm	700/210/600	700/210/600	700/210/600
Installation	Shipping dimensions(W/D/H)	mm	783/303/695	783/303/695	783/303/695
	Net/Shipping weight	kg	17/19	17/19	17/19
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7
Controller	Wired (Optional)	/	E17A	E17A	E17A
	Infrared(Optional)	/	YR-HB	YR-HB	YR-HB

Specification



HIGH WALL

NEW



- DC fan motor
- Stylish design & LED display
- Built in EEV, easy to installation
- Comfortable Sleep

Model/Indoor unit			DS052MNERAB DS052MFERAB DS052MN(F)ERAC	DS072MNERAB DS072MFERAB DS072MN(F)ERAC	DS092MNERAB DS092MFERAB DS092MN(F)ERAC	DS122MNERAB DS122MFERAB DS122MN(F)ERAC	DS162MNERA DS162MFERA DS162MN(F)ERAC
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3
		kW	1.5	2.2	2.8	3.6	4.5
	Heating	Btu/h	5.8	8.5	10.9	13.6	17.1
		kW	1.7	2.5	3.2	4	5
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Performance	Air flow (H)	m³/h	500/430/370	550/480/420	600/530/470	630/560/500	800/720/650
	Sound pressure level(H/M/L)	dB(A)	33/31/29	35/31/29	36/31/29	37/33/29	39/36/34
	Sound power level(H/M/L)	dB(A)	49/46//41	50/47/42	52/48/44	54/51/50	56/53/51
Installation	External dimensions(W/D/H)	mm	855/208/280	855/208/280	855/208/280	855/208/280	1115/243/336
	Shipping dimensions(W/D/H)	mm	954/279/355 *1054/279/355	954/279/355 *1054/279/355	954/279/355 *1054/279/355	954/279/355 *1054/279/355	1206/342/418 *1306/342/418
	Net/Shipping weight	kg	9.9/12 *9.9/14.2	9.9/12 *9.9/14.2	9.9/12 *9.9/14.2	9.9/12 *9.9/14.2	15.8/18.9 *15.8/21.2
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17A	YR-E17A	YR-E17A	YR-E17A	YR-E17A
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Model/Indoor unit			DS182MNERA DS182MFERA DS182MN(F)ERAC	DS242MNERA DS242MFERA DS242MN(F)ERAC	DS282MNERA DS282MNERAC	DS302MNERA DS302MNERAC
Capacity	Cooling	kBtu/h	19.1	24.2	27.3	30.7
		kW	5.6	7.1	8	9
	Heating	Btu/h	21.5	27.3	30.7	34.1
		kW	6.3	8	9	10
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Performance	Air flow (H)	m³/h	920/800/720	1010/920/800	1500/1400/1300	1600/1500/1400
	Sound pressure level(H/M/L)	dB(A)	40/39/35	44/40/36	48/43/40	49/44/41
	Sound power level(H/M/L)	dB(A)	57/54/52	58/56/54	60/57/53	61/58/54
Installation	External dimensions(W/D/H)	mm	1115/243/336	1115/243/336	1316/270/365	1316/270/365
	Shipping dimensions(W/D/H)	mm	1206/342/418 *1306/342/418	1206/342/418 *1306/342/418	1403/384/463 *1503/384/463	1403/384/463 *1503/384/463
	Net/Shipping weight	kg	15.8/18.9 *15.8/21.2	15.8/18.9 *15.8/21.2	21.8/26.3 *21.8/27.2	21.8/26.3 *21.8/27.2
	Refrigerant liquid pipe	mm	6.35	9.52	9.52	9.52
	Refrigerant gas pipe	mm	12.7	15.88	15.88	15.88
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17A	YR-E17A	YR-E17A	YR-E17A
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01



DRV^{INDOOR} Ventilation



141 VENTILATION
Fresh Air Duct
DRV

Specification



FRESH AIR DUCT

Model/Indoor unit			DD482MPERA	DD722MPERA	DD962MPERA
Capacity	Cooling	kBtu/h	47.7	77.1	95.5
		kW	14	22.6	28
	Heating	Btu/h	30.4	51.8	60.8
		kW	8.9	15.2	17.8
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Air flow (H)	m³/h	1600/1460/1070	2300/1900/1320	2800/2400/1820
Performance	Sound pressure level(H/M/L)	dB(A)	48/47/42	55/53/50	55/54/52
	Sound power level(H/M/L)	dB(A)	61/60/56	68/65/60	68/66/62
	External dimensions(W/D/H)	mm	1355/876/360	1725/876/360	1725/876/360
Installation	Shipping dimensions(W/D/H)	mm	1386/966/418	1830/990/530	1830/990/530
	Net/Shipping weight	kg	69/74	100/127	101/128
	Refrigerant liquid pipe	mm	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	25.4	25.4
	Static Pressure(Standard/Max.)	Pa	100/185	100/200	100/200
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17



- Variable static pressure 100~200Pa setting
- Install with other indoor units together, and introduce the outdoor fresh air into indoor

Specification



DRV



YR-N07

- Be controlled with other indoor units together
- Efficient heat recovery air processing
- Heat recovery media element

Model/Indoor unit			DRV0150ANN	DRV0260ANN
Electrical	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60
	Rated power input	kW	0.1	0.12
	Rated current	A	0.55	0.55
Performance	Air flow (H)	m³/h	150	260
	Sound pressure level(H/L)	dB(A)	44/43	44/43
	Sound power level(H/L)	dB(A)	55/54	55/54
Installation	External dimensions(W/D/H)	mm	940/685/276	940/685/276
	Shipping dimensions(W/D/H)	mm	1013/773/345	1013/773/345
	Net/Shipping weight	kg	28.7/31.2	28.7/31.2
	Static Pressure	Pa	80	60
Controller	Wired (Standard)	/	YR-N07	YR-N07

Model/Indoor unit			DRV0500ANN	DRV0800ANN	DRV1000ANN
Electrical	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Rated power input	kW	0.36	0.36	0.36
	Rated current	A	1.65	1.65	1.65
Performance	Air flow (H)	m³/h	500	800	1000
	Sound pressure level(H/L)	dB(A)	57/55	57/55	57/55
	Sound power level(H/L)	dB(A)	68/66	68/66	68/66
Installation	External dimensions(W/D/H)	mm	1227/1115/387	1227/1115/387	1227/1115/387
	Shipping dimensions(W/D/H)	mm	1465/1213/430	1465/1213/430	1465/1213/430
	Net/Shipping weight	kg	85.5/90.6	85.5/90.6	85.5/90.6
	Static Pressure	Pa	150	120	100
Controller	Wired (Standard)	/	YR-N07	YR-N07	YR-N07

CONTROL SYSTEM

User Friendly Management Control Solution

Integrated Management

Convenient and efficient, Haier controllers realize the co-management of Super match and DRV in one system, providing you more combination choices for better managing large or middle-sized buildings

Building Management

The excellent building management system provides a professional and reliable service for a better management of your air conditioning units

Intelligent Management

"Haier Smart AC" provides an intelligent and personalized experience for your smart life

Applications

Haier control products are designed to provide you a perfect solution for the small, medium or large commercial projects

- 149 Individual Controller
- 151 Centralized Controller
- 155 BMS
- 159 Adapter



CONTROL SYSTEM

Individual Controller

The individual control system has a variety of wired and wireless controllers which enable you can easy and intelligent control of your air conditioners. you can choose the one which best suits for your air conditioning management.



YR-HBS01

- On/off, mode, fan speed, temperature setting, swing
- Turbo, quiet
- Individual blade control for smart power cassette
- Clock & timer
- Follow/evade function
- Celsius to fahrenheit



YR-HD

- On/off, mode, fan speed, temperature setting, swing
- One button solution: cool, heat, dry, quiet
- Simple timer control

Individual Controller



YL-HE

- Cooling only
- Turbo, Quiet



YR-E17

- On/off, mode, fan speed, temperature setting, swing
- Individual & group control (max. 16 indoor units)
- Simple and smart design, 86*86*13.05mm
- Touch button with back light
- Timer/ clock
- Easy installation
- Individual blade control for round way cassette.



YR-E16A

- On/off, mode, fan speed, temperature setting, swing
- Individual & group control (max 16 indoor units)
- Large button
- Fahrenheit/ celsius selectable; sensitivity $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)
- Weekly timer
- Individual louver control for smart power cassette
- Static pressure setting



YR-E16B

- Colorful screen
- On/off, mode, fan speed, temperature setting, swing
- Individual & group control (max 16 indoor units)
- Fahrenheit/ celsius selectable; sensitivity $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)
- Weekly timer
- Individual blade control for round way cassette
- Static pressure setting



HW-BA116ABK

- Alternating current
- Basic function: on/off, mode, fan speed, temperature
- Individual & group control (max 16 indoor units)
- Simple and smart design, 86*86*14.80mm
- Could receive wireless controller signal



RE-01/02

- Infrared signal receiver
- Realize the remote control of duct type indoor unit
- Model selection depends on the duct indoor unit



WIFI Module (KZW-W001)

- Remote control: on/off, mode, fan speed, Temperature setting, swing
- Individual control
- Weekly timer
- A YCJ-A002 is required on some indoor unit

CONTROL SYSTEM

Centralized Controller

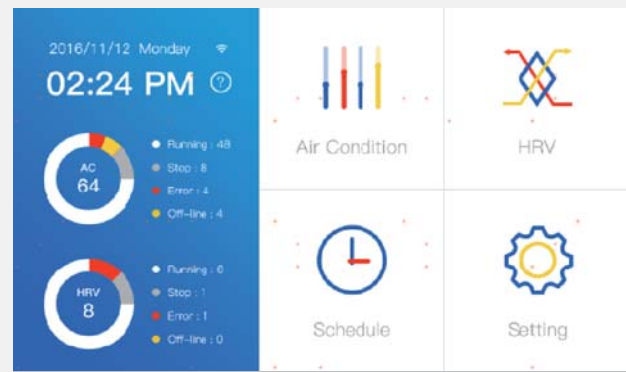
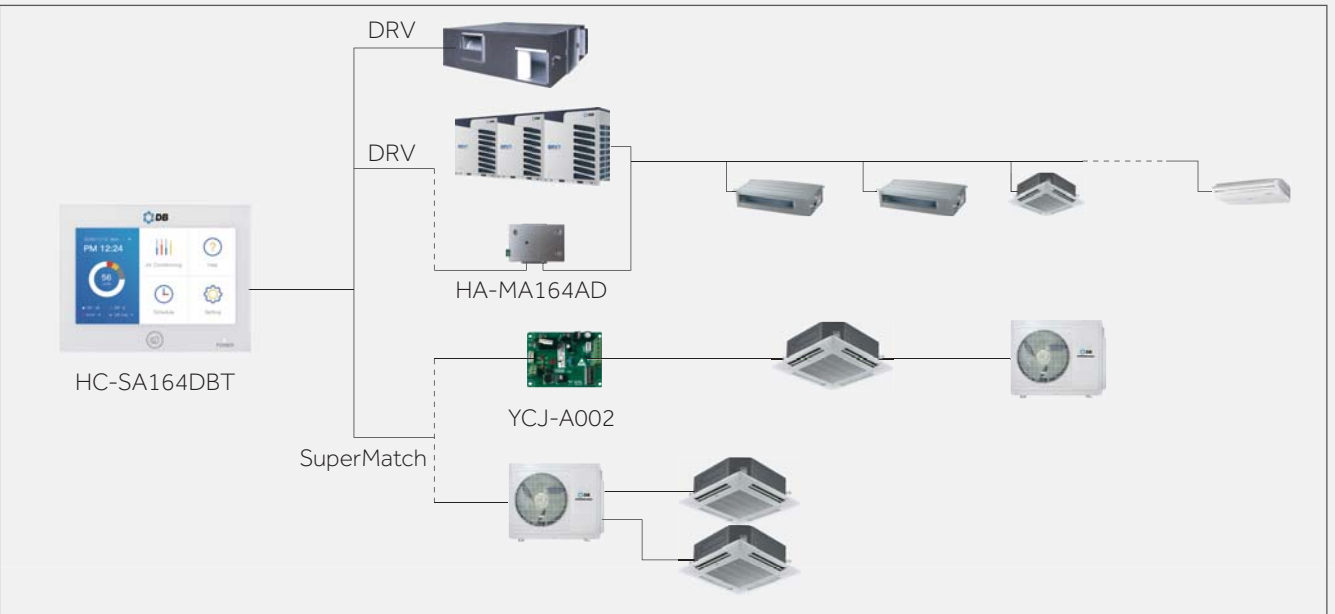
The centralized control system offers you a smart and convenient experience while managing your air conditioner individually or by groups or by zones. a variety of controllers can be used to perfect your air conditioning management.



Centralized Controller

HC-SA164DBT

- Individual control, central control (max. 64 indoor units)
- 5-inch TFT LCD touch screen with back light
- Weekly timer
- Indoor units' information editable
- Historical error
- DRV 5 system and upgraded DRV SII(8/10/12HP) outdoor units can connect directly
- Other DRV system requires HA-MA164AD



Monitoring up to 64 indoor unit could control HRV and monitoring the state of all IDU display IDU number, ON/OFF, Fault IDU number



Set schedule for unit, group, all time control could be add, change, delete, unit control, group control, all ON/OFF

CONTROL SYSTEM

Centralized Controller

Setting_Additional Function

DST: ☒ ON ☐ OFF

DST Date: 2016.11.20 to 2016.11.20

Compensation Time: 60

Turn ON/OFF the DST
DST schedule time setting
DST compensation setting

Setting_Detail

No.	User	AC	Temp.	Fans Speed	Trachea Temp.	Liquid pipe Temp.	Running Time	Error
01	User001	AC-001	26°F	High	24°F	24°F	15:36:55	5
02	User001	AC-002	26°F	High	24°F	24°F	15:36:55	2
03	User001	AC-003	26°F	High	24°F	24°F	15:36:55	5
04	User001	AC-004	26°F	High	24°F	24°F	15:36:55	5
05	User001	AC-005	26°F	High	24°F	24°F	15:36:55	3
06	User001	AC-006	26°F	High	24°F	24°F	15:36:55	-
07	User001	AC-007	26°F	High	24°F	24°F	15:36:55	1
08	User001	AC-008	26°F	High	24°F	24°F	15:36:55	2
09	User001	AC-009	26°F	High	24°F	24°F	15:36:55	-

Display the detailed information
check the name, number, temperature,
running time and fault code.

All AC-Equipment * 64

Room	Mode	Temp.	Set Temp.	Fan Speed	Control	Schedule
AC-001	Cooling	56°F	66°F	High	Centralize	Yes
AC-002	Cooling	56°F	66°F	High	Centralize	Yes
AC-003	Heating	56°F	66°F	High	Centralize	No
AC-004	Cooling	56°F	66°F	Low	Ph	
AC-005	Cooling	56°F	66°F	High	C	
AC-006	Heating	56°F	66°F	High	C	
AC-007	Cooling	56°F	66°F	Low	Ph	
AC-008	Auto	56°F	66°F	High	C	
AC-009	Cooling	56°F	66°F	High	C	

Interface display mode choice: list or icon
All on, all off, control all, control select

2016/11/12 Monday
PM 12:24

Enter Password Again

Enter

Setting password according to user demand

HC-LA1CDBT

- 12.5-inch TFT LCD touch screen
- Max. 800 DRV indoor units and Max. 128 LCAC IDUs connectable for one controller totally 928 IDUs connectable
- Floor plan layout view
- Web Access and Email Alarm
- Weekly Schedule and Special day setting
- Integrate 3rd party devices like fire alarm, lighting with Haier indoor units
- All DRV system requires the new gateway HA-MA1ADB(one system requires one gateway)
- LCAC products requires PCB adapter YCJ-A002(One IDU requires one YCJ-A002)
- Total electricity consumption display
- Data curve
- Electricity consumption distribution for Tenant billing
- Multi Language



NEW

Centralized Controller



YCZ-G001

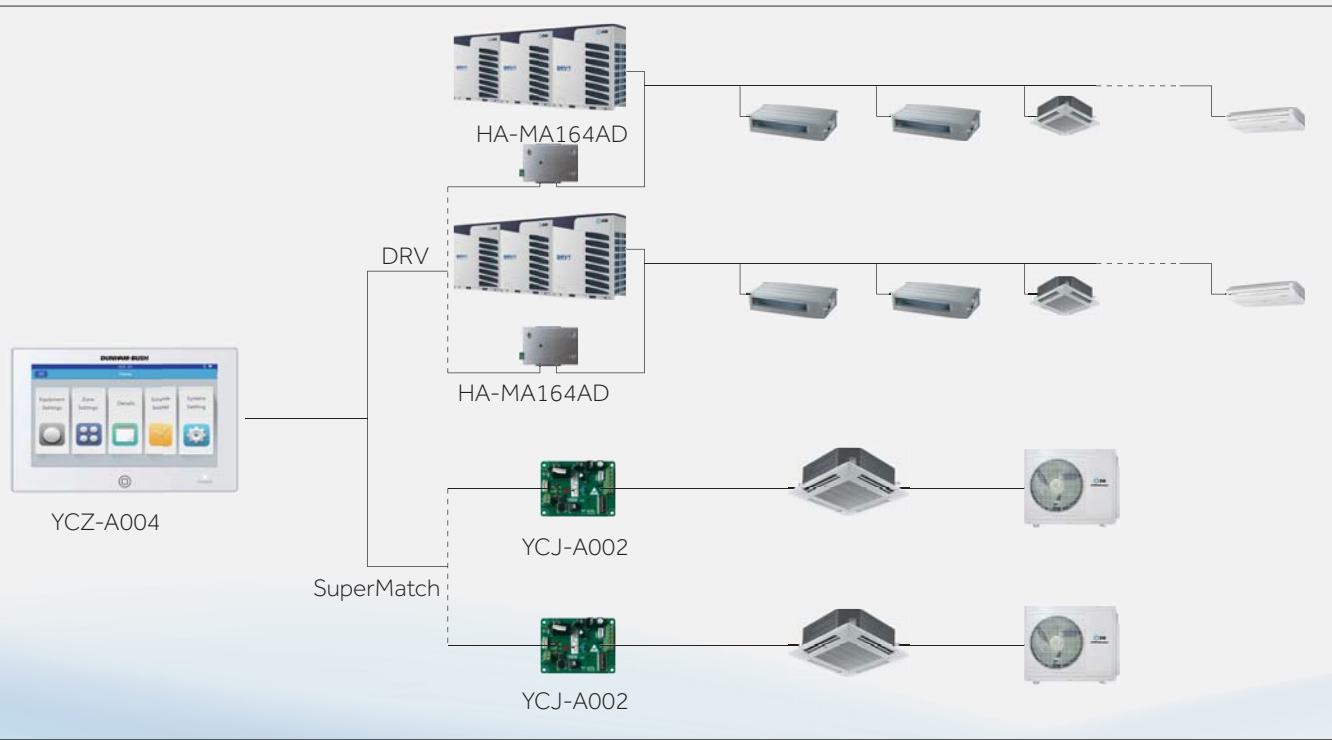
- Individual control, group control & central control (max. 32 indoor units)
- Large touch key
- Weekly timer
- Unit name & group name free setting, four background available (mall, hotel, office, home)
- Error display
- Must be used in combination with a HA-MA164AD for each DRV system (max. 32 sets)



YCZ-A004

- Individual control, group control & central control (Max. 256 indoor units)
- 7-inch TFT LCD touch screen with back light
- Weekly timer
- Indoor units' information edit
- Error display
- Must be used in combination with a HA-MA164AD for each DRV system. (max. 32 sets)

YCZ-A004 System



CONTROL SYSTEM

BMS

The building management modules could perfectly integrate air conditioners into the building management system, providing an excellent solution for large commercial areas.

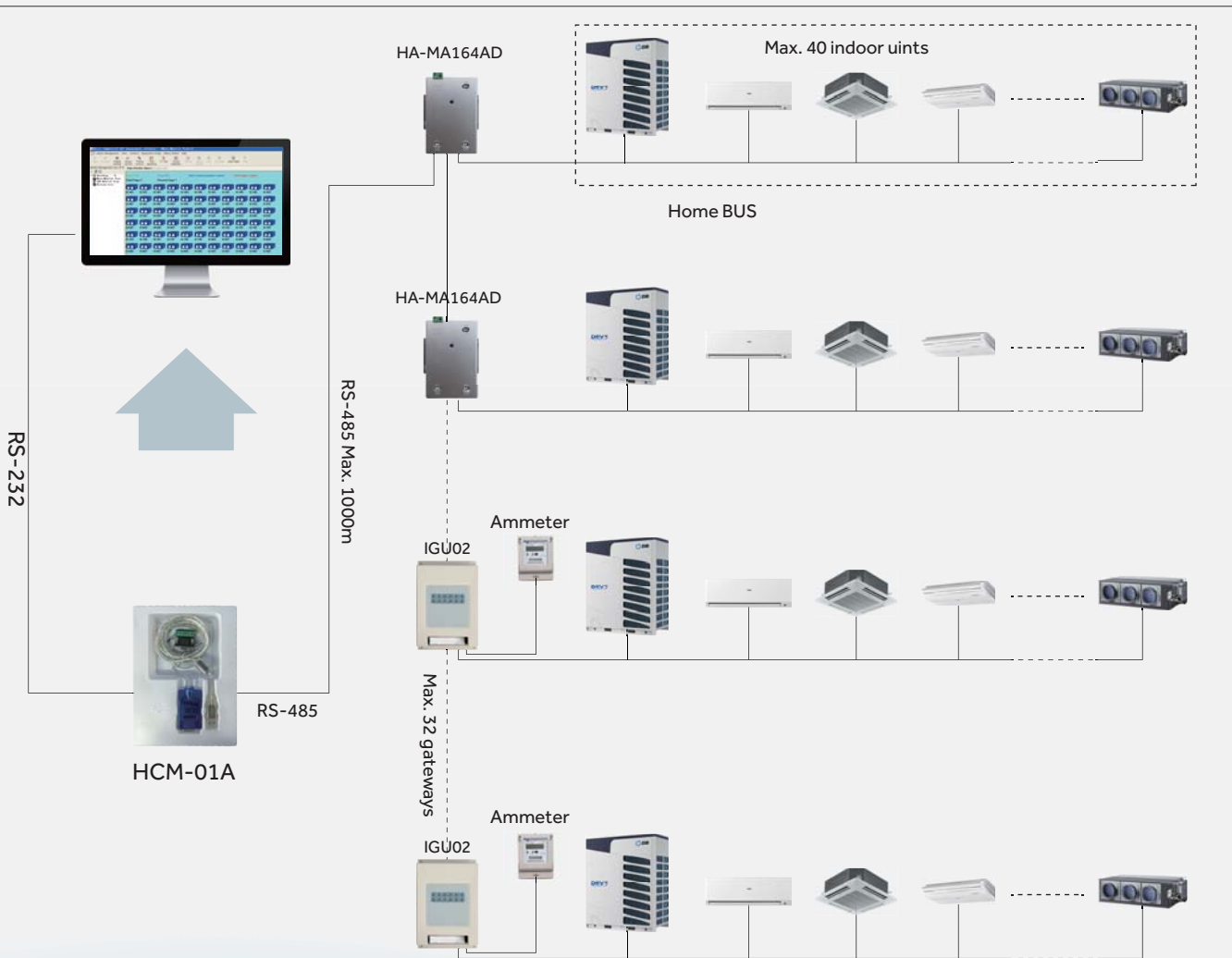


BMS

HCM-01A

- Local control version; convert USB to RS-485
- Max. 400 indoor units can be controlled
- Modbus rtu terminal
- Brand new interface design
- Win 7 32bits/64bits, Win 8 Pro, Win 10 Pro
- Max. 32 systems / outdoor units, each system unit requires one HA-MA
- Schedule setting
- Electricity charge report (must use IGU-02)

HCM-01A System



*Each outdoor system requires one HA-MA164AD; For power consumption function, users should connect IGU02 and Ammeter.

CONTROL SYSTEM

BMS

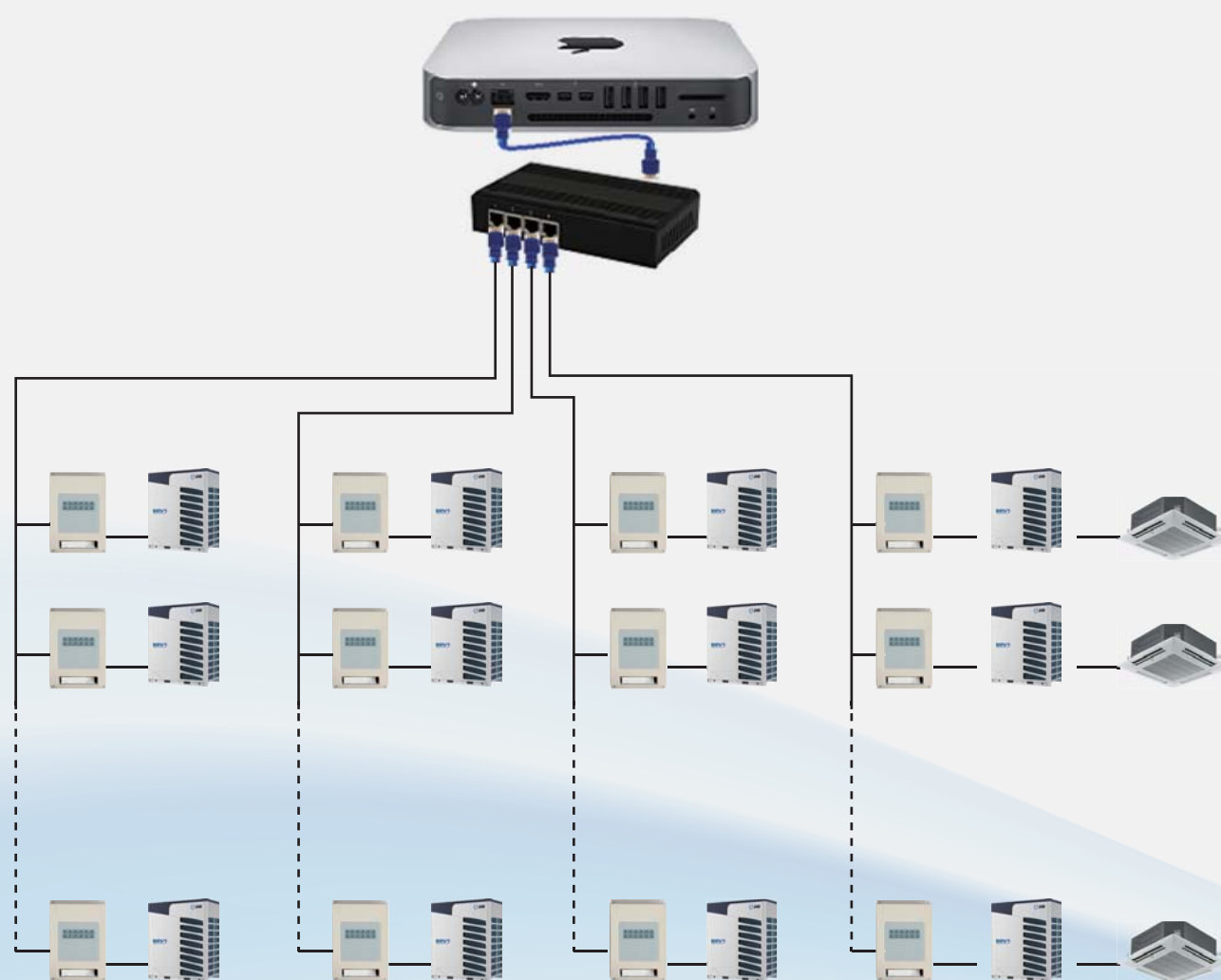
NEW



HCM-03A

- Remote monitoring version; third party interface: BACnet ip/ Modbus ip
- Max. 1500 indoor units can be controlled
- Max. 4 groups. each group can connect 20 systems. Each system requires one IGU02 /HA-MA164AD
- Operation status setting & monitoring.
- Schedule setting
- Multi user management with different authorized levels
- Operation and error history log
- Electricity charge report

HCM-03A System



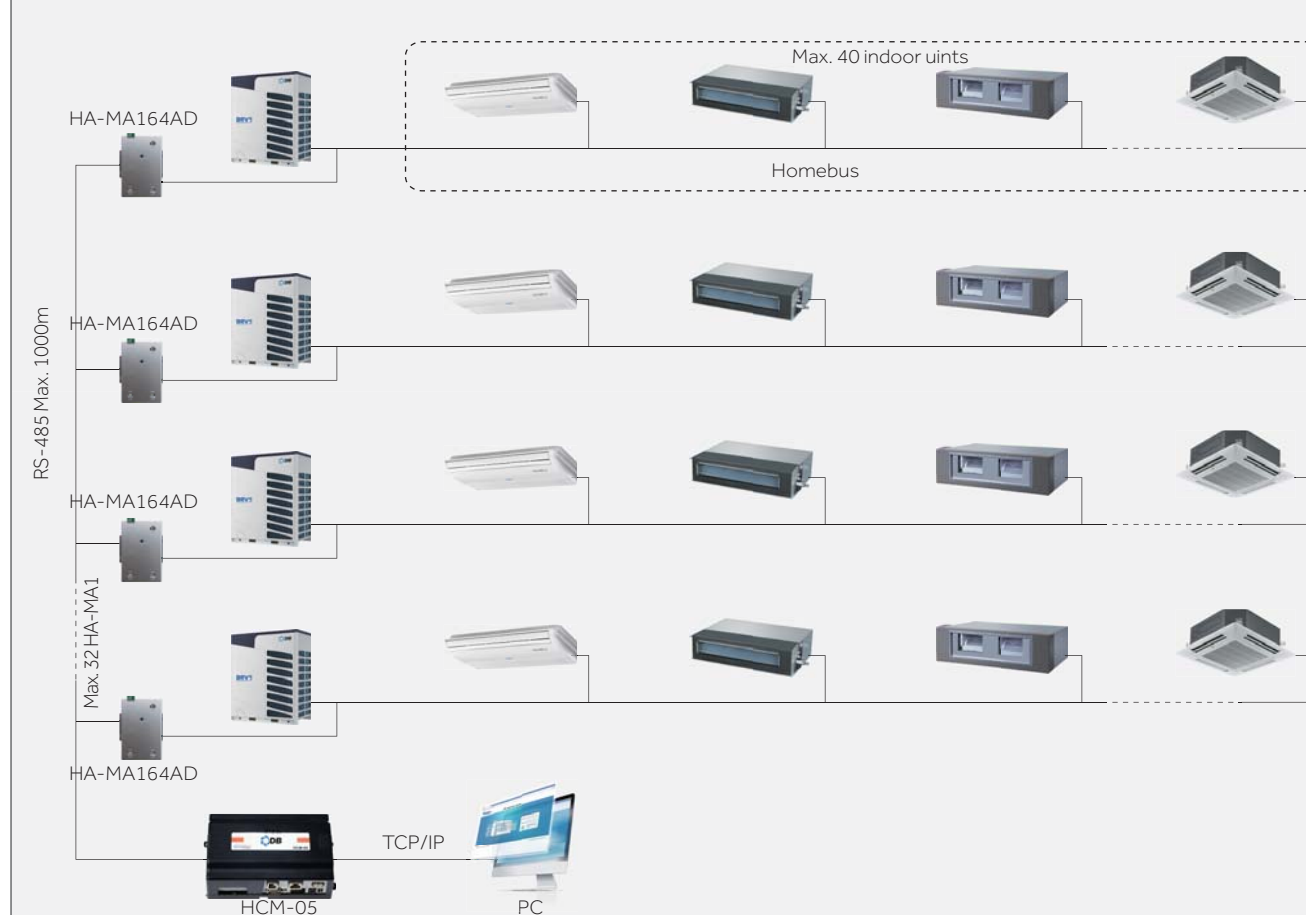
BMS

HCM-05/HCM-05A



- Remote monitoring version
- Third party interface: BACnet ip
- Max. 250 indoor units can be controlled for HCM-05; and 500 indoor units for HCM-05A
- Max. 32 systems. each system requires one IGU02/HA-MA164AD.
- Operation status setting & monitoring.
- Schedule setting
- Multi user management with different authorized levels
- Electricity charge report (must use IGU-02)
- Operation and error history log
- Cooperated technology with honeywell

HCM-05 System



CONTROL SYSTEM

Adapter

The adapters offer you an easy and convenient way to integrate air conditioners into various building management system; perfect for large commercial projects.



Adapter



HA-MA164AD

- Protocol adapter, convert homebus to RS-485
- Gateway: modbus rtu
- Max. 64 indoor units can be connected with one HA-MA164AD
- Each DRV system requires one HA-MA164AD when connecting with centralized controller or BMS system.

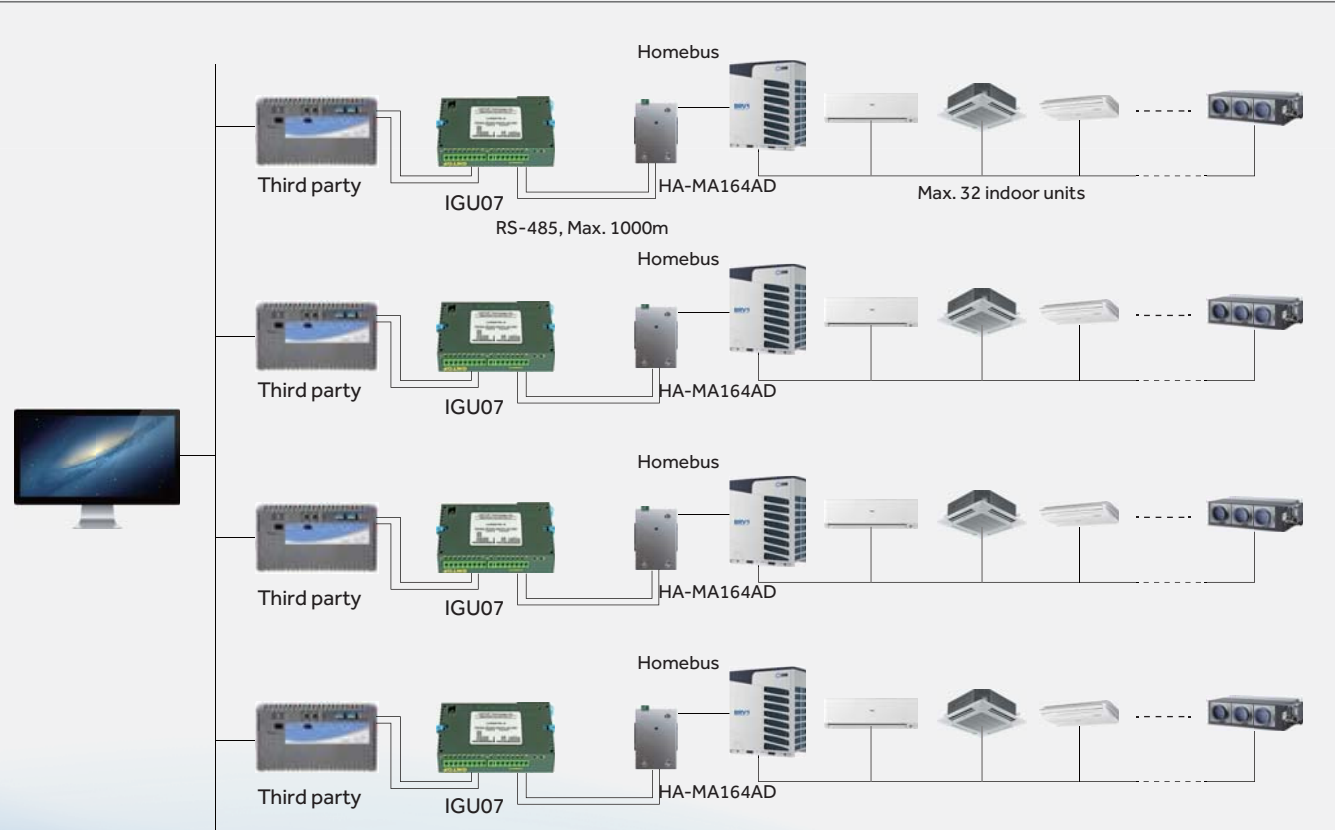
Modbus model No.	No. of I.U. controllable	Installation Method	Compatible O.U. Type
HA-MA164AD	64	Outside the O.U.	Side and Top discharge O.U.
HA-MB164AD	64	Inside the O.U.	Top discharge O.U.



IGU07

- Protocol adapter, convert modbus to lonworks
- Each system requires one IGU07+ HA-MA164AD
- Max. 32 indoor units can be connected in one system
- External 24V DC power supply is needed

LonWorks System



CONTROL SYSTEM

Adapter



HCM-04

- BACnet gateway, convert modbus rtu to BACnet ip
- Max.62 indoor units/2 systems can be controlled, each system can control max. 31 indoor units
- IGU02 is required for each outdoor system



HA-AC-KNX-8/16/64

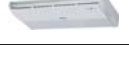
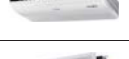
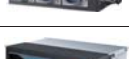
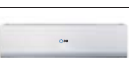
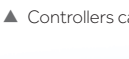
- KNX gateway
- Convert modbus to KNX
- Max. 8/ 16/ 64 indoor units can be connected in one system each system requires one KNX gateway+HA-MA164AD



IGU02

- Protocol adapter, convert homebus to modbus
- Match with BMS (HCM-01A,03A,05,05A). each system requires one IGU02
- Max.40 indoor units can be connected with one IGU02
- Electricity data collection, calculation, allocation and storage

Controllers Match Table for DRV Indoor Units

Outlook	Series	Model						
			YR-HD	YR-HBS01	HW-BA116ABK	YR-E17	YR-E16A	YR-E16B
	1-way Cassette	DB**2MAERA	▲		▲	▲	▲	▲
	2-way Cassette	DB**2MBERA	▲		▲	▲	▲	▲
	Mini 4-way Cassette	DB**2MCERA(M)		▲		▲	▲	▲
	Round Flow 4-way Cassette	DB**2MRERA		▲		▲	▲	▲
	4-way Cassette	DB**2MCERA	▲		▲	▲	▲	▲
	Convertible	DC**2MCERA	▲		▲	▲	▲	▲
	Convertible	DC**2MFERA	▲		▲	▲	▲	▲
	Low ESP Slim Duct (0/15/30Pa)	DD**2MSERA(D)	▲			▲	▲	▲
	Low ESP Slim Duct (0/30Pa)	DD**2MSERA	▲		▲	▲	▲	▲
	Medium ESP Duct (50/96 Pa)	DD**2MMERA	▲		▲	▲	▲	▲
	Medium ESP Duct (50/100 Pa)	DD**2MJERA	▲		▲	▲	▲	▲
	Medium ESP Duct (80/120 Pa)	DD**2MNERA	▲		▲	▲	▲	▲
	High ESP Duct (100/196 Pa)	DD**2MHERA	▲		▲	▲	▲	▲
	High ESP Duct (0-200Pa)	DD**2MQERA	▲		▲	▲	▲	▲
	High Wall (N platform)	DS**2MNERA	▲		▲	▲	▲	▲
	High Wall (N platform)	DS**2MFERA	▲		▲	▲	▲	▲
	Console	DF**2MBERA	▲					
	Built-in Floor Standing	DE**2MLERA	▲		▲	▲	▲	▲
	Fresh Air Duct	DD**2MPERA			▲	▲	▲	▲
	DRV	ERV***ANN			▲ Linkage control	▲ Linkage control	▲ Linkage control	▲ Linkage control

▲ Controllers can match with the indoor unit

Accessories				
Name	Design	Model	Functions	For what units
Gather pipe		HZG-20A	Refrigerant gathering	2 outdoor units
Gather pipe		HZG-30A	Refrigerant gathering	3 outdoor units
Gather pipe		HZG-20B	Refrigerant gathering	DRV IV-C, 2 outdoor units
Gather pipe		HZG-30B	Refrigerant gathering	DRV IV-C, 3 outdoor units
Gather pipe		HZG-R20A	Refrigerant gathering for heat recovery DRV	2 outdoor units
Gather pipe		HZG-R30A	Refrigerant gathering for heat recovery DRV	3 outdoor units
Manifold pipe		FQG-B335A	Refrigerant distribution for heat pump DRV	Total indoor units capacity less than 33,500W
Manifold pipe		FQG-B506A	Refrigerant distribution for heat pump DRV	Total indoor units capacity less than 50,600W, but equal or bigger than 33,500W
Manifold pipe		FQG-B730A	Refrigerant distribution for heat pump DRV	Total indoor units capacity less than 73,000W, but equal or bigger than 50,600W
Manifold pipe		FQG-B1350A	Refrigerant distribution for heat pump DRV	Total indoor units capacity less than 135,000W, but equal or bigger than 73,000W
Manifold pipe		FQG-R335A	Refrigerant distribution for heat recovery DRV	Total indoor units capacity less than 33,500W
Manifold pipe		FQG-R506A	Refrigerant distribution for heat recovery DRV	Total indoor units capacity less than 50,600W, but equal or bigger than 33,500W
Manifold pipe		FQG-R730A	Refrigerant distribution for heat recovery DRV	Total indoor units capacity less than 73,000W, but equal or bigger than 50,600W
Manifold pipe		FQG-R1350A	Refrigerant distribution for heat recovery DRV	Total indoor units capacity less than 135,000W, but equal or bigger than 73,000W
Manifold pipe		FQG-B2040A	Refrigerant distribution for DRV IV-C	Total indoor capacity less than 204,000W but equal or bigger than 135,000W
VP box		VP1-112B, VP1-180B VP1-280B	Vavle pipe box	DRV 5-RC(heat recovery)
VP box		VP4-450B	Vavle pipe box	DRV 5-RC(heat recovery)

REFERENCE
PROJECTS

REFERENCE PROJECTS

Commercial



IR Marina Bay Sands,Singapore



KLCC Twin Tower,Malaysia



Ohotny Ryad,Russia



The London Eye,UK



Heron Tower,UK



Al Dana Tower,Qatar

Military



Kennedy Space Centre,USA



HanscomAFB,USA



Space Center Houston,USA



Vanderbilt Space Center,USA



USS Abraham Lincoln CVN-72,USA



Ohio-class Nuclear Power Submarine,USA

REFERENCE PROJECTS

Transportation



Subway stations and tunnels ,China



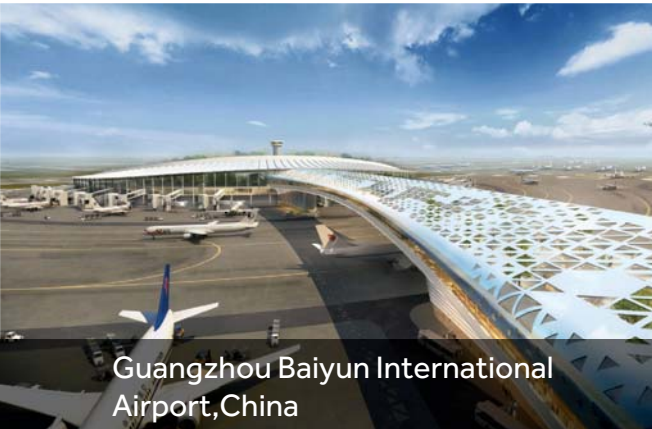
London Heathrow International Airport,UK



Kuala Lumpur International Airport,Malaysia



Beijing Capital International Airport,China

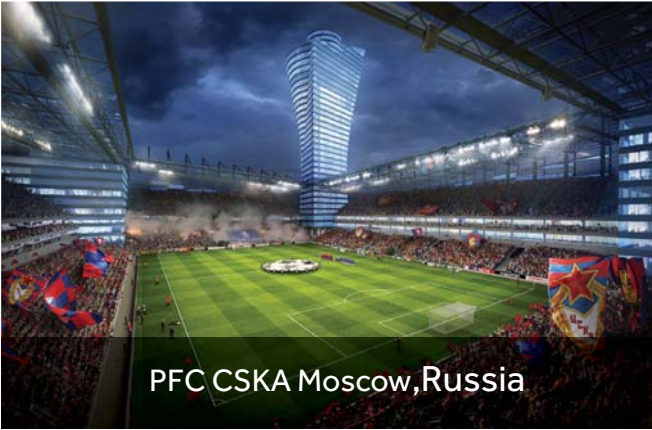


Guangzhou Baiyun International Airport,China

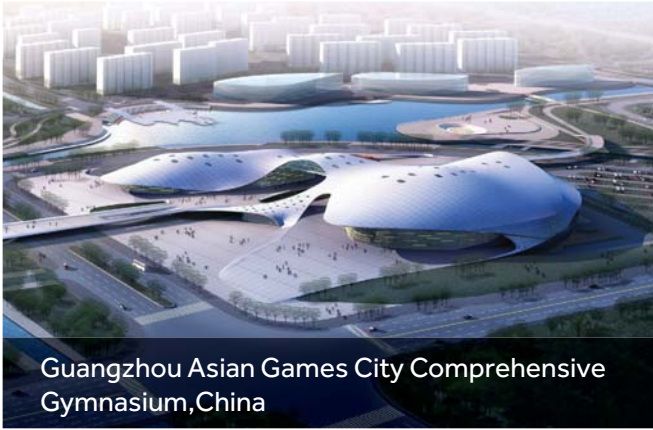


Doha Hamad International Airport,Qatar

Sport Center



PFC CSKA Moscow,Russia



Guangzhou Asian Games City Comprehensive Gymnasium,China



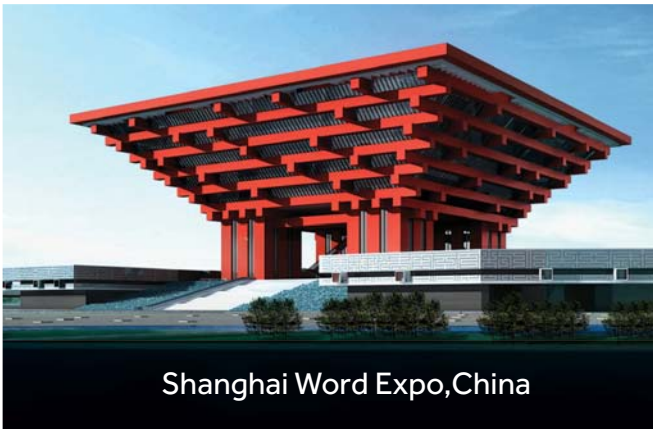
Shanxi Sports Center,China



Beijing Bird Nest Stadium,China



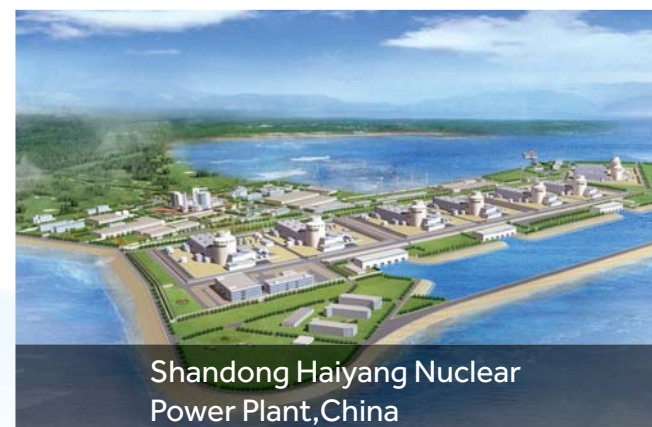
Stadium Of Dalian Sports Center,China



Shanghai Word Expo,China

REFERENCE PROJECTS

Nuclear Power Plants



DUNHAM-BUSH
Products that perform...By people who care

DUNHAM-BUSH Commercial Air Conditioning

