

AIR CONDI TIONERS

Room Air conditioners

Commercial Split systems

VRF systems

ACOND[®]

Room Air conditioners

AR4 – Wall mounted split

DC Inverter



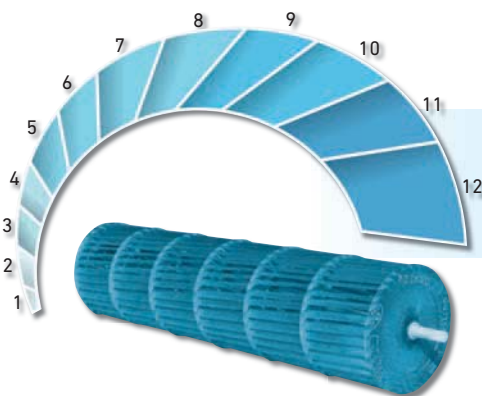
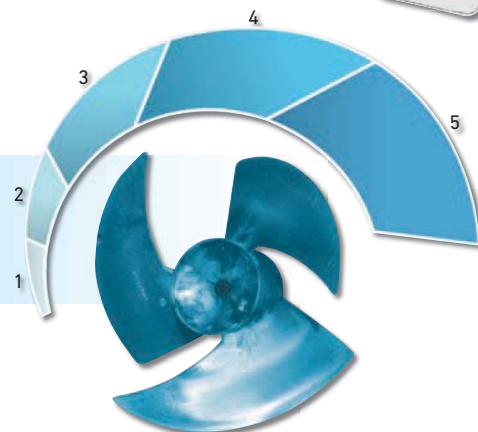
REMOTE CONTROL

AR4 – DC Inverter:

- Auto restart function
- Sleep mode
- Turbo mode
- Refrigerant leakage detect
- 5 grades outdoor fan speeds
- Wide operation range
- Reduce consumption in standby mode below 1 W
- 12 grades indoor fan speeds

• 5 grades outdoor fan speeds

Due to the DC fan motor, outdoor fan speeds increased from 2 grades to 5 grades, more comfortable and energy saving.

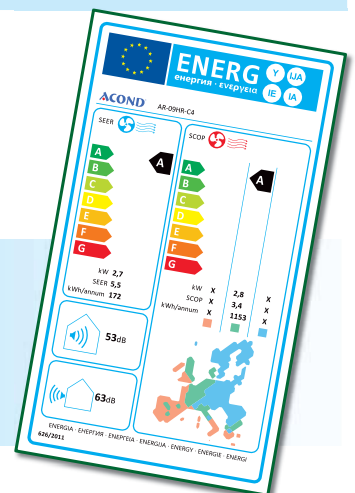


• 12 grades indoor fan speeds

Up to 12 grades indoor fan speeds, ensure more accurate control and bring more comfortable air flow.

• Energy-efficiency label

It provides customers with better navigation between products and their energy performance. You can find the information about it – seasonal energy efficiency in cooling and heating mode. The power ratings, annual energy consumption for heating and cooling, noise indoor and outdoor units.



Room Air conditioners

AR4 – Wall mounted split

DC Inverter



Model			AR4-09 HRDN1-QRC8GW	AR4-12 HRDN1-QRC8GW	AR4-18 HRFN1-QRC8GW	AR4-24 HRDN1-QRC8GW
Cooling Capacity	Nominal	kW	2,6	3,5	5,1	6,5
	Rated		1,29 - 3,22	1,41 - 4,29	1,9 - 5,9	2,18 - 7,01
	SEER	W/W	5,6	5,6	6,1	5,9
Heating Capacity	Nominal	kW	2,8	3,6	5,2	7,3
	Rated		1,0 - 3,45	0,98 - 4,54	1,27 - 6,22	1,6 - 8,65
	SCOP	W/W	3,8	3,8	3,8	3,8

DIMENSIONS AND WEIGHT

Indoor unit	Dimension (WxDxH)	mm	800x188x275	800x188x275	940x205x275	1045x235x315
	Weight	kg	7,5	7,5	9,0	12,5
Outdoor unit	Dimension (WxDxH)	mm	780x250x540	780x250x540	760x285x590	845x320x700
	Weight	kg	28,0	28,0	34,5	47,0

PARAMETERS

Sound pressure level	Indoor	dB(A)	40/38/31	43/39/31	44/34/32	50/47/40
	Outdoor	dB(A)	56	56	59	60
Refrigerant piping	Length / Elevation	m	25/10	25/10	30/20	50/25
	Diameter	mm	6/10	6/10	6/12	10/16
Refrigerant R410A	Charged quantity	kg / m	0,8 / 5	0,95 / 5	1,25 / 5	1,95 / 5
	Additional	g/m	15	15	15	30

ELECTRICAL SPECIFICATIONS

Power supply	Outdoor unit	V, Ph	220-240 V~, 50 Hz, 1Ph			
Power input	Cooling range	W	144~1240	139~1650	157~2270	204~2730
		A	0,63~5,39	0,6~7,17	0,68~9,87	0,89~11,87
	Heating range	W	175~1230	177~1620	191~2220	293~3090
		A	0,76~5,35	0,77~7,04	0,83~9,65	1,27~13,43
Max. input consumption		W	2000	2500	2700	2940
Max. current		A	9,0	11,5	12,5	13,5



Rating Conditions: Cooling Indoor 27 °C DB 19 °C WB Outdoor 35 °C DB 24 °C WB | Heating Indoor 20 °C DB Outdoor 7 °C DB 6 °C WB

Room Air conditioners

Outdoor units

Multi DC Inverter

ACOND[®]

NEW

Multi DC Inverter:

- DC Inverter technology allows comfortable room temperature control
- Energy efficiency class A
- Heat pump air-to-air
- 7 models of outdoor units, capacity from 4.1 to 10.5 kW
- Connection of up to 5 indoor units
- Auto-restart
- Turbo mode - rapid increase performance
- Refrigerant leak detection
- Economy mode - SLEEP mode
- Refrigerant R410A Environmentally friendly



Model			M20D-14 HFN1-Q	M20A-18 HRFN1-Q	M30D-21 HFN1-Q	M30A-27 HRFN1-Q	M40D-28 HFN1-Q	M40A-36 HRFN1-Q	M50C-36 HFN1-Q
Cooling Capacity	Nominal	kW	4,1	5,5	6,1	8,0	8,2	10,5	10,5
	SEER	W/W	5,1	5,8	5,4	5,8	5,6	5,2	5,3
	Efficiency class		A	A+	A	A+	A+	A	A
Heating Capacity	Nominal	kW	4,4	5,8	6	8,2	8,2	10,5	10,5
	SEER	W/W	4	3,8	3,6	3,8	3,4	3,8	3,4
	Efficiency class		A	A	A	A	A+	A	A

DIMENSIONS AND WEIGHT

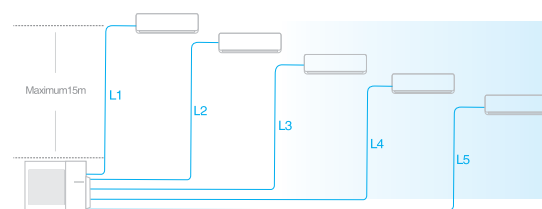
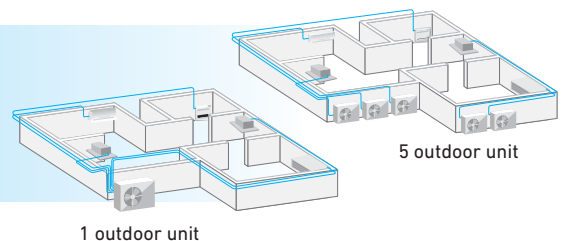
Dimension	(WxDxH)	mm	845x320x700	845x320x700	845x320x700	900x315x860	900x315x860	990x345x965	990x345x965
Weight	Net/Gross	kg	44 / 47	48/52	50 / 54	62/67	65/69	78/88	78/88

PARAMETERS

Sound pressure level		dB(A)	61	61	64	61	69	64	64
Power input	Nominal C/H	A	5,7 / 6,5	7,0 / 7,4	8,3 / 7,6	10,8 / 10,3	11,2 / 11,1	14,3 / 14,5	14,6 / 15,3
	Max	A	11	14,5	15	16,5	17	21,5	22
	Nominal C/H	W	1260 / 1450	1600 / 1700	1900 / 1750	2470 / 2380	2470 / 2440	3280 / 3330	3280 / 3400
	Max	W	3200	3200	3300	3600	3700	4800	4900
Power supply		V, Ph	230, 1~	230, 1~	230, 1~	230, 1~	230, 1~	230, 1~	230, 1~
Refrigerant piping	Length / Elevation	m	30 (20/15)	30 (20/15)	45 (25/15)	45 (25/15)	60 (30/15)	60 (30/15)	75 (30/15)

• Space-saving Installation

Up to five indoor units can be connected to a single outdoor unit, reducing the number of outdoor units required. All indoor units can be individually controlled and do not need to be installed even at the same time.



• Flexible Installation

With the long piping design, up to a maximum total piping length of 75 m, a maximum height difference of 15 m can be supported, allowing a wide choice of installation sites and making installation simple and economical.

Room Air conditioners

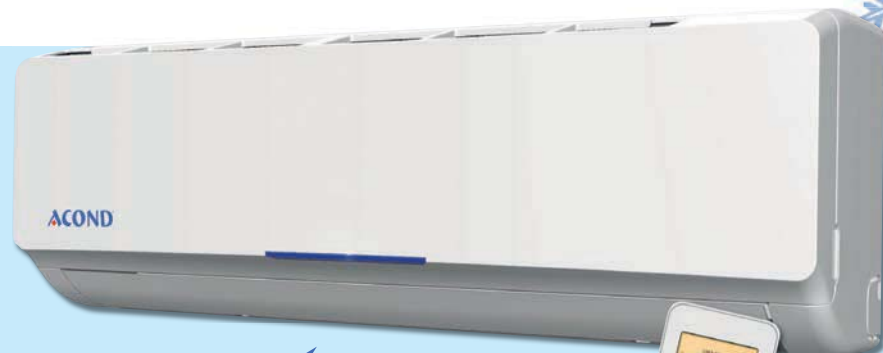
AR4 – Wall mounted unit

ACOND

Multi DC Inverter

AR4 – Wall mounted unit Multi DC Inverter:

- Auto Restart Function
- Sleep Mode
- Turbo Mode
- Refrigerant Leakage Detect
- 5 Grades Outdoor Fan Speeds
- Wide Operation Range
- Reduce Consumption in Standby Mode below 1 W
- 12 Grades Indoor Fan Speeds



NEW

REMOTE CONTROL

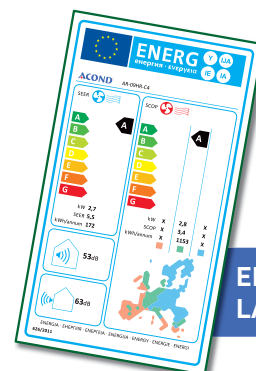
Model		AR4i-07 HRDN1-QRC8W	AR4i-09 HRDN1-QRC8GW	AR4i-12 HRDN1-QRC8GW	AR4i-18 HRFN1-QRC8GW
Cooling Capacity	kW	2,0	2,6	3,5	5,1
Heating Capacity	kW	2,3	2,9	3,6	5,2

DIMENSIONS AND WEIGHT

Dimension	Unit	mm	800×188×275	800×188×275	800×188×275	940×205×275
Weight	Net	kg	7,3	7,5	7,5	9,0

PARAMETERS

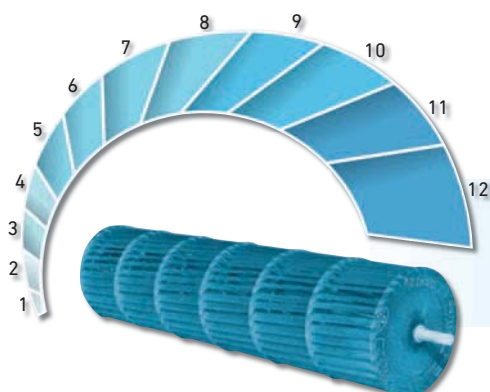
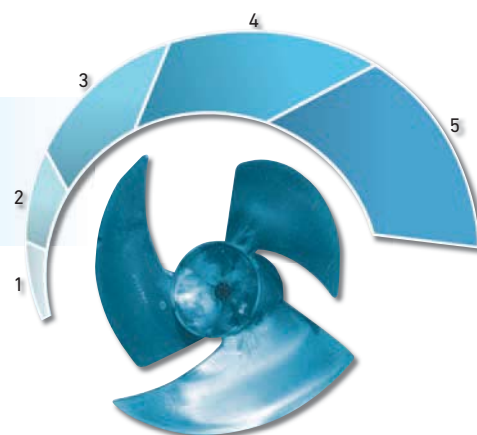
Sound pressure level		dB(A)	40/35/31	40/38/31	43/39/31	44/34/32
Power supply		V, Ph	230, 1~	230, 1~	230, 1~	230, 1~
Power input	Max.	W/A	48 / 0,21	48 / 0,21	48 / 0,21	34 / 0,14
Communication	Wire		4	4	4	4
Refrigerant piping	Diameter	mm	6/10	6/10	6/10	6/12



ENERGY LABEL

• 5 grades outdoor fan speeds

Due to the DC fan motor, outdoor fan speeds increased from 2 grades to 5 grades, more comfortable and energy saving.



• 12 grades indoor fan speeds

Up to 12 grades indoor fan speeds, ensure more accurate control and bring more comfortable air flow.

Room Air conditioners

Indoor Cassette unit

ACOND[®]

Multi DC Inverter

ACA – Compact Cassette unit Multi DC Inverter:

- Auto restart
- Sleep mode
- 3D air outlet panel
- Drain pump
- Fresh air intake
- Optional wired controller



REMOTE CONTROL

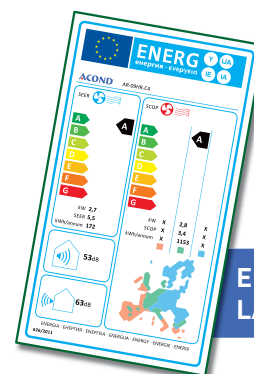
Model		ACA2I-09 HRFN1-QRC8	ACA2U-12 HRFN1-QRC8	ACA2I-18 HRDN1-QRC8
Cooling Capacity	kW	2,64	3,52	4,98
Heating Capacity	kW	3,20	3,52	5,13

DIMENSIONS AND WEIGHT

Dimension	Unit	mm	570×570×260	570×570×260	570×570×260
	Panel	mm	647×647×50	647×647×50	647×647×50
Weight	Unit	kg	17/20	16/19	18/20.5
	Panel	kg	2.5/4.5	2.5/4.5	2.5/4.5

PARAMETERS

Sound pressure level		dB(A)	49	48	46
Power supply		V, Ph	230, 1~	230, 1~	230, 1~
Power input	max.	W/A	15 / 0,06	20 / 0,08	102 / 0,44
Communication		Wire	4	4	4
Refrigerant piping		Diameter mm	6/10	6/10	6/12



ENERGY LABEL

• 3D Air Outlet Panel

360° surrounding air outlet design, affords comfortable feeling and silent operation.



• Optional:

Wired controller KJR-12 B (remote control is included in the set)

Room Air conditioners

Console Indoor unit

Multi DC Inverter

ACOND

NEW

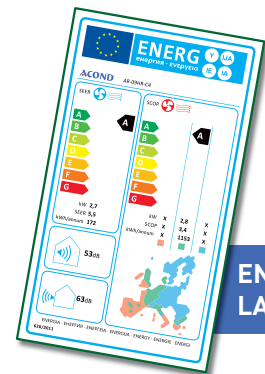
AFA – Console Multi DC Inverter:

- Auto restart
- Sleep mode
- Two air-outlet ways
- Quiet design
- Optional wired controller
- Optional central control



REMOTE CONTROL

Model			AFAI-09 HRFN1-QRC8	AFAU-12 HRFN1-QRC8	AFAI-18 HRFN1-QRC8
Cooling Capacity		kW	2,6	3,5	5,2
Heating Capacity		kW	2,9	3,8	5,2
DIMENSIONS AND WEIGHT					
Dimension	Unit	mm	700×600×210	700×600×210	700×600×210
Weight	Net/Gross	kg	13/18	15/20	15/20
PARAMETERS					
Sound pressure level		dB(A)	47	47	48
Power supply		V, Ph	230, 1~	230, 1~	230, 1~
Power input	max.	W	30 / 0,13	40 / 0,17	50 / 0,22
Communication	wire		4	4	4
Refrigerant piping	diameter	mm	6/10	6/10	6/12



ENERGY LABEL



• Two air-outlet ways

Cooling mode

- Air outlet from top and bottom to make quick cooling - When the air-conditioner is just switched on, or room temp. is still high, cold air will be blown out from top and bottom air outlet to cool down the room quickly
- Air outlet from top to maintain room temp - When the room has been cooled down, or the air-conditioner has been opened over 1 hour, cold air only from the top outlet to keep constant room temp.

Heating mode

- Anti-cold air - When the air-conditioner is just turn on, temperature of evaporator is very low, in this case, in order to prevent cold air direct blowing, only the upper louver is opened in a high position, the lower louver closed.

• Low noise

- DC indoor fan motor, which has five speeds.
- Low noise and energy saving.



• Optional:

Wired controller KJR-12 B (remote control is included in the set)

Room Air conditioners

Duct Indoor unit

Multi DC Inverter

ATB – Duct unit Multi DC Inverter:

- Auto restart
- Sleep mode
- Easy installation
- Terminals for alarm
- Long-distance on-off controller connection
- Fresh air Intake
- Optional central control



WIRED CONTROL

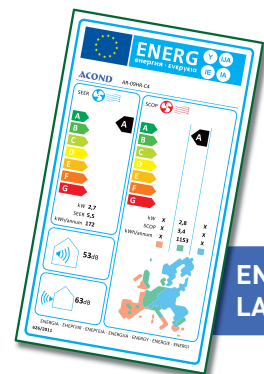
Model			ATBI-09 HWFN1-QRC8	ATBU-12 HWFN1-QRC8	ATBI-18 HWDN1-QRC8
Cooling Capacity	kW		2,64	3,52	5,30
Heating Capacity	kW		2,93	3,81	5,80

DIMENSIONS AND WEIGHT

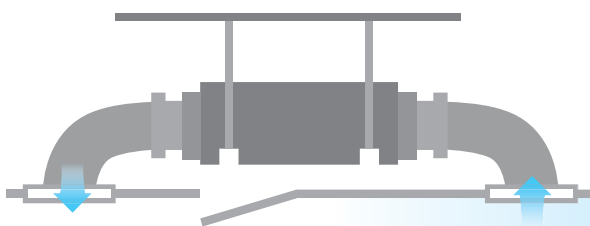
Dimension	Unit	mm	700×635×210	700×635×210	920×635×210
Weight	Net/Gross	kg	19.5/24.5	19.5/24.5	23/29

PARAMETERS

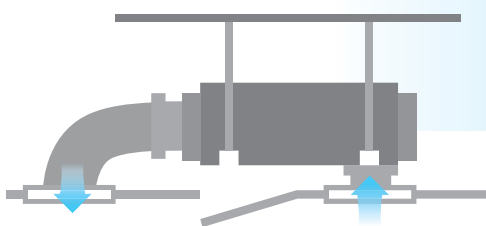
Indoor air flow	m3/h		600	680	1000
Indoor external static pressure (Hi)	Pa		40	40	70
Sound pressure level	dB(A)		43	43	46
Power supply	V, Ph		230, 1~	230, 1~	230, 1~
Power input	Max.	W/A	30 / 0,13	40 / 0,17	107 / 0,48
Communication	Wire		4	4	4
Refrigerant piping	Diameter	mm	6/10	6/10	6/12



ENERGY LABEL



Air intake from rear (Standard)



Air intake from bottom (Optional)

• Easy installation: Two air inlet styles (bottom side or rear side)

- Air inlet from rear is standard for all capacity; air inlet from bottom is optional.
- The size of air inlet frame from rear and bottom is same, it's very easy to move the cover from bottom to rear side, or from rear to the bottom, in order to matching the installation condition.

Room Air conditioners Combination Table



Multi DC Inverter

M20D-14HFN1-Q			M20A-18HRFN1-Q			M30D-21HFN1-Q				
One u.	Two u.		One u.	Two u.		One u.	Two u.		Three u.	
7	7+7	9+9	7	7+7	9+9	7	7+7	9+9	7+7+7	7+9+12
9	7+9	9+12	9	7+9	9+12	9	7+9	9+12	7+7+9	9+9+9
12	7+12	9+18	12	7+12	9+18	12	7+12	9+18	7+7+12	9+9+12
18	7+18	12+12	18	7+18	12+12	18	7+18	12+12	7+9+9	

M30A-27HRFN1-Q							
One u.	Two u.			Three u.			
7	7+7	9+9	12+18	7+7+7	7+9+9	7+12+18	9+12+12
9	7+9	9+12	18+18	7+7+9	7+9+12	9+9+9	9+12+18
12	7+12	9+18		7+7+12	7+9+18	9+9+12	12+12+12
18	7+18	12+12		7+7+18	7+12+12	9+9+18	

M40D-28HFN1-Q										
One u.	Two u.			Three u.				Four u.		
7	7+7	9+9	12+18	7+7+7	7+9+9	7+12+18	9+12+12	7+7+7+7	7+7+9+9	7+9+9+12
9	7+9	9+12	18+18	7+7+9	7+9+12	9+9+9	9+12+18	7+7+7+9	7+7+9+12	7+9+12+12
12	7+12	9+18		7+7+12	7+9+18	9+9+12	12+12+12	7+7+7+12	7+7+12+12	9+9+9+9
18	7+18	12+12		7+7+18	7+12+12	9+9+18		7+7+7+18	7+9+9+9	9+9+9+12

M40A-36HFN1-Q										
One u.	Two u.		Three u.			Four u.				
7	7+7	9+12	7+7+7	7+12+12	9+12+18	7+7+7+7	7+7+12+12	7+9+12+18	9+9+12+12	
9	7+9	9+18	7+7+9	7+12+18	9+18+18	7+7+7+9	7+7+12+18	7+9+18+18	9+9+12+18	
12	7+12	12+12	7+7+12	7+18+18	12+12+12	7+7+7+12	7+7+18+18	7+12+12+12	9+12+12+12	
18	7+18	12+18	7+7+18	9+9+9	12+12+18	7+7+7+18	7+9+9+9	7+12+12+18	9+12+12+18	
		9+9	18+18	7+9+9	9+9+12	12+18+18	7+7+9+9	7+9+9+12	9+9+9+9	12+12+12+12
			7+9+12	9+9+18		7+7+9+12	7+9+9+18	9+9+9+12	12+12+12+18	
			7+9+18	9+12+12		7+7+9+18	7+9+12+12	9+9+9+18		

M50C-36HFN1-Q										
One u.	Two u.	Three u.		Four u.			Five u.			
7	7+7	7+7+7	9+9+9	7+7+7+7	7+9+9+9	9+9+9+12	7+7+7+7+7	7+7+9+9+18	9+9+9+9+9	
9	7+9	7+7+9	9+9+12	7+7+7+9	7+9+9+12	9+9+9+18	7+7+7+7+9	7+7+9+12+18	9+9+9+9+12	
12	7+12	7+7+12	9+9+18	7+7+7+12	7+9+9+18	9+9+12+12	7+7+7+7+12	7+7+7+9+18	9+9+9+9+18	
18	7+18	7+7+18	9+12+12	7+7+7+18	7+9+12+12	9+9+12+18	7+7+7+7+18	7+9+9+9+9	7+9+12+12+18	
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		9+12	7+9+12	9+18+18	7+7+9+12	7+9+18+18	9+12+12+12	7+7+7+9+12	7+9+9+9+18	9+9+9+12+18
		9+18	7+9+18	12+12+12	7+7+9+18	7+12+12+12	9+12+12+18	7+7+7+12+18	7+9+9+12+12	9+9+12+12+12
		12+12	7+12+12	12+12+18	7+7+12+12	7+12+12+18	12+12+12+12	7+7+7+18+18	7+9+9+12+18	9+12+12+12+12
		12+18	7+12+18	12+18+18	7+7+12+18	7+12+18+18	12+12+12+18	7+7+9+9+9	7+9+12+12+12	12+12+12+12+12
		18+18	7+18+18	18+18+18	7+7+18+18	9+9+9+9		7+7+9+9+12	7+7+12+12+18	

Commercial Split systems

Cassette units

Super DC Inverter



ACD – Cassette split units

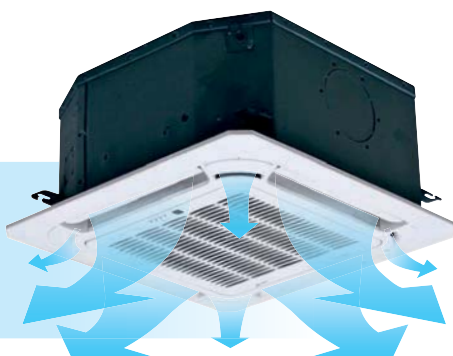
- Auto restart
- Sleep mode
- 3D air outlet panel
- Drain pump
- Super slim design
- Terminals for alarm
- Long-distance on-off controller connection
- Fresh air intake
- Optional wired controller



REMOTE CONTROL

• 3D Air Outlet Panel

360° surrounding air outlet design, affords comfortable feeling and silent operation.



One rotor outdoor unit 12k-36k



Two rotors outdoor unit 48k-60k

Model			ACA2U-12 HRFN1-QRC8	ACD-18 HRFN1-QRC4	ACD-24 HRFN1-QRC4	ACD-36 HRFN1-QRC4	ACD-48 HRFN1-QC2	ACD-60 HRFN1-Q
Cooling Capacity	Nominal	kW	3,5	5,3	7,1	10,5	12,6	14,9
	Rated		1,4 - 4,3	2,1 - 6,3	2,8 - 8,4	4,2 - 12,7	5,0 - 15,1	6,0 - 17,9
	SEER (EER)*	W/W	5,6	5,6	6,2	5,4	3,26	3,11
Heating Capacity	Nominal	kW	3,5	5,3	7,8	9,2	12,9	18,2
	Rated		1,0 - 4,5	2,1 - 6,3	3,0 - 9,1	4,2 - 12,7	5,2 - 15,5	7,3 - 21,8
	SCOP (COP)*	W/W	3,8	3,4	3,7	3,4	3,63	3,54

DIMENSIONS AND WEIGHT

Dimensions of	Unit	mm	570×570×260	840×840×205	840×840×205	840×840×245	840×840×287	840×840×287
	Panel	mm	647×647×50	950×950×55	950×950×55	950×950×55	950×950×55	950×950×55
Dimensions of Outdoor		mm	760×285×590	842×324×695	895×313×862	990×354×966	938×392×1369	938×392×1369
Weight	Indoor Unit	kg	16/19	22/25	22/26	25/29	29/33	31/34
	Panel	kg	2,5/4,5	5/8	5/8	5/8	5/8	5/8
	Outdoor Unit	kg	35.5/37.9	44/47	59/63	77/88	102/118	107/120

PARAMETERS

Max. input consumption		W	2200	3200	3000	4600	7200	7500
		A	10	15	15,0	11,0	13	15
Sound pressure level	Indoor	dB(A)	47	58	59	65	54/50/46	55/51/47
	Outdoor	dB(A)	58	65	69	70	63	64
Power supply	Outdoor unit	V, Ph	240, 1~	240, 1~	240, 1~	400, 3~	400, 3~	400, 3~
Refrigerant piping	Length / Elevation	m	20/10	30/20	50/25	65/30	50 / 25	65/30
	Diameter	mm	6 / 10	6 / 12	10 / 16	10 / 16	10 / 16	10 / 16

* For units with capacity 14 and 16 kW are presented values of EER and COP.

Commercial Split systems

Ceiling units

Super DC Inverter

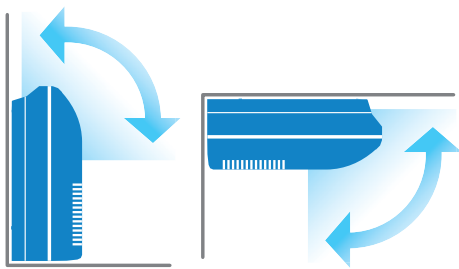
ACOND

AUE – Ceiling split units

- Auto restart
- Sleep mode
- 3D louvers angle settings
- Terminals for alarm
- Long-distance on-off controller connection
- Fresh Air Intake
- Optional wired controller



REMOTE CONTROL



Flexible installation



Swing Torsion Angles



One rotor outdoor unit 12k~36k



Two rotors outdoor unit 48k~60k

Model			AUE-18 HRDN1-QRC4	AUE-24 HRDN1-QRC4	AUE-36 HRFN1-QRC4	AUE-48 HRFN1-QC2	AUE-60 HRFN1-Q
Cooling Capacity	Nominal	kW	5,3	7,1	10,7	14,0	15,5
	Rated	kW	2,1 - 6,3	2,8 - 8,4	4,2 - 12,7	5,6 - 16,9	6,2 - 18,6
	SEER (EER)*	W/W	5,6	5,6	5,8	3,24	3,3
Heating Capacity	Nominal	kW	5,3	7,6	9,5	14,6	18,1
	Rated	kW	2,1 - 6,3	3,0 - 9,1	4,2 - 12,7	5,9 - 17,6	7,3 - 21,8
	SCOP (COP)*	W/W	3,6	3,6	3,4	3,65	3,61

DIMENSIONS AND WEIGHT

Dimensions	Indoor Unit	mm	1068×675×235	1068×675×235	1285×675×235	1650×675×235	1650×675×235
	Outdoor Unit	mm	842×324×695	895×313×862	990×354×966	938×392×1369	938×392×1369
Weight	Indoor Unit	kg	25/30	25/30	30/35	40/46	40/46
	Outdoor Unit	kg	44/47	59/63	77/88	102/118	107/120

PARAMETERS

Max. input consumption	W		3200	3000	4600	7200	7500
	A		15	15.0	11.0	13	15
Sound pressure level	Indoor	dB(A)	56	62	63	57/54/52	56/53/51
	Outdoor	dB(A)	65	69	70	63	64
Power supply	Outdoor unit	V, Ph	240, 1~			400, 3~	
Refrigerant piping	Length / Elevation	m	30/20	50/25	65/30	50 / 25	65/30
	Diameter	mm	6 / 12	10 / 16	10 / 16	10 / 16	10 / 16

* For units with capacity 14 and 16 kW are presented values of EER and COP.

Commercial Split systems

Duct units

Super DC Inverter

ACOND[®]

NEW

ATB – Duct split units

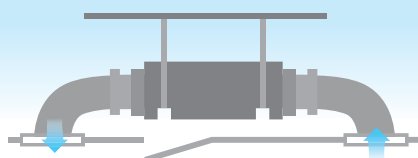
- Auto restart
- Sleep mode
- Adjustable static pressure
- Big fan power
- Terminals for alarm
- Long-distance on-off controller connection
- Fresh air intake
- Optional wired controller



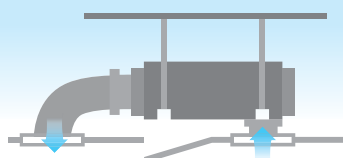
WIRED CONTROL

• Easy installation: Two air inlet styles (bottom side or rear side)

- Air inlet from rear is standard for all capacity; air inlet from bottom is optional.
- The size of air inlet frame from rear and bottom is same, it's very easy to move the cover from bottom to rear side, or from rear to the bottom, in order to matching the installation condition.



Air intake from rear (Standard)



Air intake from bottom (Optional)



Outdoor unit

Model			ATB-18HWFN1-QRC4	ATB-24HWDN1-QRC4	MTB-36HWFN1-QRC4
Cooling Capacity	Nominal	kW	5.3	7.1	10.5
	Rated		2,1 – 6,3	2,8 – 8,4	4,2 – 12,7
	SEER (EER)*	W/W	5,8	5,6	5,1
Heating Capacity	Nominal	kW	5.3	7.7	9.5
	Rated		2,1 – 6,3	3,0 – 9,1	4,2 – 12,7
	SCOP (COP)*	W/W	3,4	3,4	3,4

DIMENSIONS AND WEIGHT

Dimensions	Indoor unit	mm	920×635×210	920×635×270	1140×775×270
	Outdoor unit	mm	842×324×695	895×313×862	990×354×966
Weight	Indoor unit	kg	22/27	26.5/31.5	35/42
	Outdoor unit	kg	44/47	59/63	77/88

PARAMETERS

Max. input consumption	W		3200	3000	4600
	A		14.5	15.0	11.0
Indoor air flow	m ³ /h		850/700/550	1150/1000/850	1850/1550/1200
Indoor external static pressure (Hi)	Pa		70	70	80
Sound pressure level	Indoor	dB(A)	59	58	65
	Outdoor	dB(A)	65	69	70
Power supply	Outdoor unit	V, Ph	240, 1~	240, 1~	400, 3~
Refrigerant piping	Length / Elevation	m	30/20	50/25	65/30
	Diameter	mm	6 / 12	10 / 16	10 / 16

VRF systems

MDV V4 Plus K series

Full DC Inverter VRF system



Systems variable refrigerant flow - ACOND MDV bring wide possibilities of divorces during installation. MDV systems are often installed in large buildings, where the outdoor unit can be placed only on the roof or at the foot of the building. The system MDV enables elevation 70 – 110 m. MDV system allows large installations to a total pipe length of 1000 m. Wide choice of indoor units and controllers guarantees comfortable use the air conditioning system.



WIDE CHOICE OF MODELS INDOOR UNITS

Indoor unit model		1,5	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	11,2	14,0	20,0	25,0	28,0
Compact Cassette		■	■	■	■										
Cassette							■	■	■	■	■	■			
Wall mounted		■	■	■	■	■	■			■					
Console			■	■	■	■									
Ceiling			■	■	■	■	■	■	■	■	■				
Duct Low pressure			■	■	■										
Duct Mid. Pressure						■	■	■	■	■	■				
Duct High pressure													■	■	■
Floor standing			■	■	■	■	■	■	■						
Concealed floor standing			■	■	■	■	■	■	■						

VRF systems

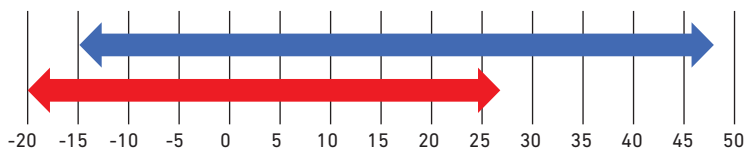
Mini MDV V4 Plus K series

Full DC Inverter Mini VRF system

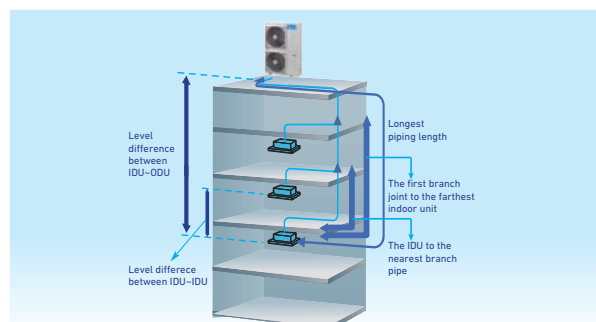


- High efficient DC inverter compressor
- DC Inverter fan
- New optimized heat exchanger
- Wide capacity range of 10.5 to 26 kW
- Wide operation temperature range
- Low-operating sound design
- Easy installation
- HVAC Kit – connection for HVAC evaporator

Cooling: -15 °C DB ~ 48 °C
Heating: -20 °C DB ~ 27 °C



		MDV-V105 W/DN1	MDV-V14 0W/DRN1	MDV-V160 W/DRN1	MDV-V180 W/DRN1	MDV-V200 W/DRN1	MDV-V224 W/DRN1	MDV-V260 W/DRN1	
Power supply	V/~/Hz	230/1/50	400/3/50						
Cooling	Capacity	kW	9,0	14,0	15,5	17,5	20,0	22,4	26,0
	Input	kW	2,3	3,95	4,52	5,3	6,1	6,8	7,6
	EER/SEER	W/W	3,9/5,3	3,54	3,43	3,3	3,28	3,29	3,42
Heating	Capacity	kW	9,0	15,4	17,0	19,0	22,0	24,5	28,5
	Input	kW	2,27	4,16	4,77	5,0	6,1	5,9	6,8
	EER	W/W	3,97/3,8	3,7	3,56	3,8	3,61	4,15	4,19
Max. input consumption	W	4716	6200	7100	7000	9400	10013	10736	
Max. current	A	22,8	11	12	12,5	14,5	17,2	18,7	
Dimensions	mm	990×966×336	900×1327×320	900×1327×320	900×1327×320	1120×1558×400	1120×1558×400	1120×1558×400	
Weight	kg	75,5/85,5	95/103	102/113	107/118	137/153	146,5/162,5	147/163	
Sound pressure level	dB(A)	54	57	57	59	59	59	60	
Refrigerant piping diam.	mm	Ø9,52/Ø15,9	Ø9,52/Ø15,9	Ø9,52/Ø19,1	Ø9,52/Ø19,1	Ø9,52/Ø19,1	Ø9,52/Ø19,1	Ø9,52/Ø22,2	
Max. quantity of Indoor u.		5	6	7	8	10	11	12	



Piping Length		Permitted Value
Total piping length (Actual)		120 m
Longest piping length	Actual	60 m
	Equivalent	70 m
The first branch joint to the farthest IDU		20 m
The IDU to the nearest branch pipe		15 m
Level difference between ODU-IDU	ODU up	30 m
	ODU down	20 m
Level difference between IDU-IDU		8 m

VRF systems

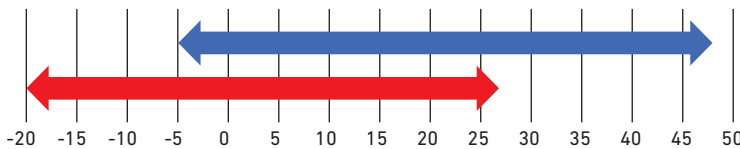
MDV V4 Plus K series

Modular Full DC Inverter VRF system

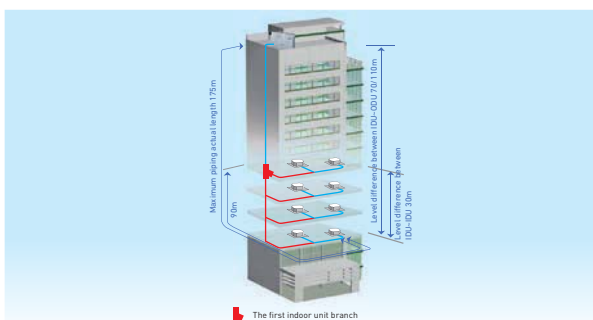


- New design
- Heat pump
- Flexible design
- One modular outdoor unit up to 50 kW
- Max. Capacity up to 200 kW
- Noise reduction
- High COP
- Max. total pipe length up to 1000 m
- HVAC Kit – connection for HVAC evaporator

Cooling: -5 °C DB ~ 48 °C
 Heating: -20 °C DB ~ 27 °C



		MDV-252 W/DRN1	MDV-280 W/DRN1	MDV-335 W/DRN1	MDV-400 W/DRN1	MDV-450 W/DRN1	MDV-500 W/DRN1	
Power supply	V/~ /Hz	400/~ /50						
Cooling	Capacity	kW	25,2	28,0	33,5	40,0	45,0	50,0
	Input	W	5875	7198	9054	12308	14019	15198
	EER	W/W	4.29	3.89	3.7	3.25	3.21	3.29
Heating	Capacity	kW	27,0	31,5	37,5	45,0	50,0	56,0
	Input	W	6150	7609	8993	11194	12787	14250
	EER	W/W	4.39	4.14	4.17	4.02	3.91	3.93
Max. input consumption	W	11270	11270	12864	16530	18486	20390	
Max. current	A	20.8	22.1	23.7	31.8	32.8	35.4	
Dimensions	mm	960×1615×765	960×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	
Weight	kg	198/213	198/213	268/288	280/300	280/300	300/320	
Sound pressure level	dB(A)	57	57	58	60	60	60	
Refrigerant piping diam.	mm	Ø12,7/Ø25,4	Ø12,7/Ø25,4	Ø15,9/Ø31,8	Ø15,9/Ø31,8	Ø15,9/Ø31,8	Ø15,9/Ø31,8	
Max. quantity of Indoor u.		13	16	20	23	26	29	



Piping Length		Permitted Value
Total piping length (Actual)		1000 m
Longest piping length	Actual	1750 m
	Equivalent	200 m
The first branch joint to the farthest IDU		40 m/90 m*
Level difference between ODU~IDU	ODU up	70 m
	ODU down	110 m
Level difference between IDU~IDU		30 m



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