

Specifications



Duct - MSP Duct R32 NEW

Indoor Unit		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	AC100RNMDKG/EU	
Outdoor Unit- Mono-Phase		AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	
Outdoor Unit- Tri-Phase				-	AC100RXADNG/EU	
Capacity						
Cooling (Min/Nominal/Max)	kW	0.80 / 3.50 / 4.40	1.20 / 5.00 / 6.50	1.50 / 6.80 / 8.70	3.0 / 10.0 / 12.0	
Heating up to +7°C (Min/Nominal/Max)	kW	1.10 / 4.00 / 4.70	1.10 / 6.00 / 7.20	1.90 / 8.00 / 9.00	2.2 / 11.2 / 15.5	
Heating @ -5°C	kW	3.9	5.9	7.8	11.00	
Heating @ -15°C	kW	3.5	5.2	7.00	9.7	
Performance						
Energy Efficiency	SEER	W/W	6.2 / A++	6.3 / A++	6.1 / A++	5.9 / A+
Cooling	Consumption	kWh/a	198	278	390	593
	Pdesignc	kW	3.5	5.0	6.8	10.0
	EER	W/W	TBD	TBD	2.93	2.9
Energy Efficiency	SCOP	W/W	4.0 / A+	4.1 / A+	4.0 / A+	4.0 / A+
Heating	Consumption	kWh/a	700	820	1295	1820
	Pdesignh (average)	kW	2.0	2.4	3.7	5.2
	COP	W/W	TBD	TBD	3.2	3.2
AirFlow Rate	Indoor Unit (High/Mid/Low)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0	28.0 / 25.0 / 22.0
Sound Power	Indoor Unit	dB(A)	52	55	56	58
	Outdoor Unit	dB(A)	61	62	65	69
Sound Pressure	Indoor Unit (Silent/Low/Mid/High)	dB(A)	22 / 25 / 28	23 / 26 / 29	24 / 27 / 30	30 / 32 / 34
	Outdoor Unit	dB(A)	48 / 48	48 / 48	49 / 51	52 / 54
Fan/ Outdoor unit	Type		Sirocco	Sirocco	Sirocco	Sirocco
	Power	W	153	153	153	153
	Number	EA	2	2	2	3
External Static Pressure	Min / Std / Max	Pa	TBD	TBD	0 / 29 / 147	0.0 / 39.2 / 147.0
Operating Temp. Range	Cooling	°C	-15 ~ 46	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24
Electrical Data						
Power Source	Indoor Unit	V / Hz / Ø / #	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 1P	V / Hz / Ø / #	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 3P	V / Hz / Ø / #			-	380-415/ 50/ 3/ 4
Compressor Type	Outdoor Unit	Type	Single BLDC	Twin BLDC	Twin BLDC	Twin BLDC
Power (Min/ Nominal/Max)	Cooling	kW	0.20 / 1.02 / 1.36	0.35 / 1.60 / 2.20	0.35 / 2.32 / 3.60	0.60 / 3.44 / 4.70
	Heating	kW	0.24 / 1.15 / 1.80	0.26 / 1.64 / 2.70	0.35 / 2.50 / 3.95	0.46 / 3.50 / 5.40
Current Input	Cooling (Min/Std/Max)	A	1.4 / 5.0 / 6.2	2.1 / 7.2 / 10.0	2.0 / 10.4 / 16.0	3.0 / 15.2 / 20.4
	Heating (Min/Std/Max)	A	1.3 / 5.4 / 10.5	1.7 / 7.4 / 12.0	2.0 / 10.8 / 17.0	2.5 / 15.4 / 23.0
	Cooling- Tri-Phase (Min/Std/Max)	A		-	-	1.5 / 5.3 / 7.1
	Heating- Tri-Phase (Min/Std/Max)	A		-	-	1.5 / 5.3 / 7.1
Dimensions						
Net Dimensions (W x H x D)	Indoor Unit	mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	1,200 x 250 x 700
	Outdoor Unit	mm	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330
Net Weight	Indoor Unit	kg	26.5	26.5	26.5	34.0
	Outdoor Unit	kg	32.5	43.0	51.0	75.0
Refrigerant						
Refrigerant	Type					
	Factory charging	kg	0.9/ 20m	1.2/ 10m	1.7 / 15m	2.7 / 30m
	Charging Ton equivalent CO ₂	tCO ₂ e	0.61 tCO ₂ e	0.81 tCO ₂ e	1.15 tCO ₂ e	1.82 tCO ₂ e
	Additional refrigerant charging	g / m			25	50
Piping Connections	Liquid Pipe	Ø.inch	1 / 4	1 / 4	1 / 4	3 / 8
	Gas Pipe	Ø.inch	3 / 8	1 / 2	5 / 8	5 / 8
Piping Length	Min/ Max	m	3 / 20	3 / 30	3 / 50	50
Piping Height	Max	m	15	20	30	30
Piping Connections	Drain pipe	Ø.mm	VP25 (OD32.ID25)	VP25 (OD32.ID25)	VP25 (OD32.ID25)	VP25 (OD32.ID25)
Others						
Panel	Model code					
	Net Dimensions (W x H x D)	mm				
	Net Weight	kg				
Accessoires	Drain pump		MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ
	Max lifting height/ displacement	mm / L/h	750/24	750/24	750/24	750/24

- External static pressure range from 0 to 14 mmAq.
- Built-in electronic expansion valve (EEV) for refrigerant flow control (2000 step).
- Long life washable permanent filter is included.
- Auto Restart function.

- Built-in condensation drain pump (750 mmH₂O).
- SPI ionizer device (optional).

AC120RNMDKG/EU	AC140RNMDKG/EU
AC120RXADKG/EU	AC140RXADKG/EU
AC120RXADNG/EU	AC140RXADNG/EU
3.0 / 12.0 / 13.5	3.5 / 13.4 / 15.5
2.5 / 13.2 / 17.0	3.5 / 15.5 / 18.0
12.9	15.2
11.5	13.5
5.8 / A+	6.0
TBD	-
TBD	-
2.66	2.9
4.0 / A+	4.0
TBD	-
6.5	
3.42	3.34
33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
62	62
70	69
30 / 34 / 37	30 / 34 / 37
54 / 56	53 / 54
Sirocco	Sirocco
153	153
3	3
0.0 / 51.0 / 147.0	0.0 / 51.0 / 147.0
-15 ~ 50	-15 ~ 50
-20 ~ 24	-20 ~ 24
220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4
Twin BLDC	Twin BLDC
0.90 / 4.50 / 5.30	0.80 / 4.62 / 6.45
0.90 / 4.50 / 5.30	0.80 / 4.62 / 6.45
5.0 / 19.7 / 24.0	0.80 / 4.62 / 6.45
5.0 / 19.7 / 24.0	3.5 / 20.0 / 32.0
1.9 / 6.9 / 10.0	2.1 / 7.1 / 10.5
1.5 / 5.9 / 12.0	1.9 / 7.0 / 12.0
1,300 x 300 x 700	1,300 x 300 x 700
940 x 998 x 330	940 x 1210 x 330
38.5	38.5
81.0	91.5
2.7 / 30	2.9 / 30m
1.82 tCO ₂ e	1.96 tCO ₂ e
50	50
3 / 8	3 / 8
5 / 8	5 / 8
50	75
30	30
VP25 (OD32.ID25)	VP25 (OD32.ID25)
MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ
750/24	750/24

Accessories

Drain pump (Included)

MDP-G075SP MDP-G075SQ

Individual Controllers (Optional)

AR-EH03E MWR-SH11N MWR-WE13N
(to be matched with MRK-A10N)

Others (Optional)

MIM-HQ3N MRK-A10N MRW-TA
(to be matched with AR-EH03E)