

# Specifications

## MSP Duct R32

- 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.
- Optional: Built-in condensation drain pump (750 mmH<sub>2</sub>O).
- SPI Ioniser (optional).



Indoor Unit		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU	AC140RNMDKG/EU	
Outdoor Unit - Mono-Phase		AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC120RXADKG/EU	AC140RXADKG/EU	
Outdoor Unit - Tri-Phase		AC100RXADNG/EU	AC120RXADNG/EU	AC140RXADNG/EU				
<b>Capacity</b>								
Cooling (Min/Nominal/Max)	kW	0.80/3.50/4.40	1.20/5.00/6.50	1.50/6.80/8.70	3.00/10.00/12.00	3.00/12.00/13.50	3.50/13.40/15.50	
	Heating @ +7 °C (Min/Nominal/Max)	1.10/4.00/4.70	1.10/6.00/7.20	1.90/8.00/9.00	2.20/11.20/15.50	2.50/13.20/17.00	3.50/15.50/18.00	
	Heating @ -5 °C	3.90	5.90	7.80	11.00	12.90	15.20	
	Heating @ -15 °C	3.50	5.20	7.00	9.70	11.50	13.50	
<b>Performance</b>								
Energy Efficiency Cooling	SEER <sup>1</sup>	6.2/ A++	6.3/ A++	6.1/ A++	5.9/ A+	5.8/ A+	6.0/ A+	
	Power Consumption	198	278	390	593	-	-	
	Pdesignc	3.5	5.0	6.8	10.0	-	-	
	EER	-	-	2.93	2.90	2.66	2.90	
Energy Efficiency Heating	SCOP <sup>1</sup>	4.0/ A+	4.1/ A+	4.0/ A+	4.0/ A+	4.0/ A+	4.0/ A+	
	Power Consumption	700	820	1,295	1,820	-	-	
	Pdesignh (average)	2.0	2.4	3.7	5.2	6.5	-	
	COP <sup>1</sup>	TBC	TBC	3.20	3.20	3.42	3.34	
Airflow Rate	Indoor Unit (H/M/L)	m <sup>3</sup> /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	33.0/28.0/23.0	33.0/28.0/23.0
Sound Power	Indoor Unit	dB(A)	52	55	56	58	62	62
	Outdoor Unit	dB(A)	61	62	65	69	70	69
Sound Pressure	Indoor Unit (H/M/L)	dB(A)	28/25/22	29/26/23	30/27/24	34/32/30	37/34/30	37/34/30
	Outdoor Unit (H/L)	dB(A)	48/48	48/48	51/49	54/52	56/54	54/53
Fan/Outdoor Unit	Type		Sirocco	Sirocco	Sirocco	Sirocco	Sirocco	
	Power	W	153	153	153	153	153	
	Number of Fans	-	2	2	2	3	3	
External Static Pressure	Min/Std/Max	Pa	-	-	0.00/29.00/147.00	0.00/39.20/147.00	0.00/51.00/147.00	0.00/51.00/147.00
Operating Temperature Range	Cooling	°C	-15-46	-15-50	-15-50	-15-50	-15-50	-15-50
	Heating	°C	-20.0-24.0	-20.0-24.0	-20.0-24.0	-20.0-24.0	-20.0-24.0	-20.0-24.0
<b>Electrical Data</b>								
Power Source	Indoor Unit	Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz
	Outdoor Unit Mono-Phase	Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz
	Outdoor Unit Tri-Phase	Φ, #, V, Hz	-	-	-	3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz
Compressor Type	Outdoor Unit	Type	Single BLDC	Twin 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	0.90/4.50/5.30	0.80/4.62/6.45
	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	0.90/4.50/5.30	0.80/4.62/6.45
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	5.0/19.7/24.0	3.7/20.0/28.0
	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	5.0/19.7/24.0	3.5/20.0/32.0
	Cooling - Tri-Phase (Min/Std/Max)	A	-	-	-	1.5/5.3/7.1	1.9/6.9/10.0	2.1/7.1/10.5
	Heating - Tri-Phase (Min/Std/Max)	A	-	-	-	1.5/5.3/7.1	1.5/5.9/12.0	1.9/7.0/12.0
<b>Dimensions</b>								
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	1,300 x 300 x 700	1,300 x 300 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	940 x 998 x 330	940 x 1,210 x 330

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Outdoor Unit - Tri-Phase		AC100RXADNG/EU	AC120RXADNG/EU	AC140RXADNG/EU			
Net Weight	Indoor Unit	kg	26.5	26.5	26.5	34.0	38.5
	Outdoor Unit	kg	32.5	43.0	51.0	75.0	81.0
<b>Refrigerant</b>							
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)				
	Factory Charging	kg	0.9/20 m	1.2/10 m	1.7/15 m	2.7/30 m	2.7/30 m
	Charging Ton equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.61	0.81	1.15	1.82	1.82
	Additional Refrigerant Charging	g/m	-	-	25	50	50
Piping Connections	Liquid Pipe	ø, inch	1/4	1/4	1/4	3/8	3/8
	Gas Pipe	ø, inch	3/8	1/2	5/8	5/8	5/8
Piping Length	Min/Max	m	3/20	3/30	3/50	50	75
Piping Height	Max	m	15	20	30	30	30
Piping Connections	Drain Pipe	ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
<b>Others</b>							
Panel	Model Code		-	-	-	-	-
	Net Dimensions (W x H x D)	mm	-	-	-	-	-
	Net Weight	kg	-	-	-	-	-
Accessories	Drain Pump		MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ	MDP-G075SP MDP-G075SQ
	Max. Lifting Height/Displacement	mm / litres/h	750/24	750/24	750/24	750/24	750/24

Accessories				
Drain Pump (optional)	Drain Pump (optional)	Wireless Remote Controller	Touch Controller	Advanced Wired Controller
MDP-G075SP	MDP-G075SQ	AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00JN / MWR-WG00KN
Wi-Fi Kit	Wireless Receiver Kit	External Thermostat	SPI Ioniser	
MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA	MSD-EAN1	

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT10) label classification 2019, on a scale from D to A+++.