

Specifications

MSP Duct R32

- External static pressure range from 0 to 147 Pa.
- Long-life washable permanent filter is included.

- Auto Restart function.
- Optional: Built-in condensation drain pump (750 mmH₂O).



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
Capacity								
Capacity	Cooling (Min/Nominal/Max)	kW	0.80/3.50/4.40	1.20/5.00/6.50	1.50/6.80/8.70	3.00/10.00/12.00	3.00/12.00/13.50	3.50/13.40/15.50
	Heating @ +7 °C (Min/Nominal/Max)	kW	1.10/4.00/4.70	1.10/6.00/7.20	1.90/8.00/9.00	2.20/11.20/15.50	2.50/13.20/17.00	3.50/15.50/18.00
	Heating @ -5 °C	kW	3.90	5.90	7.80	11.00	12.90	15.20
	Heating @ -15 °C	kW	3.50	5.20	7.00	9.70	11.50	13.50
Performance								
Energy Efficiency Cooling	SEER ¹	W/W	6.2/ A++	6.3/ A++	6.1/ A++	5.9/ A+	5.8/ A+	6.0/ A+
	Power Consumption	kWh/a	198	278	390	593	724	-
	Pdesignc	kW	3.5	5.0	6.8	10.0	12	13.4
	EER	W/W	-	-	2.93	2.90	2.66	2.90
Energy Efficiency Heating	SCOP ¹	W/W	4.0/ A+	4.1/ A+	4.0/ A+	4.0/ A+	4.0/ A+	4.0/ A+
	Power Consumption	kWh/a	700	820	1,295	1,820	2,275	-
	Pdesignh (average)	kW	2.0	2.4	3.7	5.2	6.5	8.4
	COP ¹	W/W	TBC	TBC	3.20	3.20	3.42	3.34
Airflow Rate	Indoor Unit (H/M/L)	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	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	Sirocco
	Power	W	153	153	153	153	153	153
	Number of Fans	-	2	2	2	3	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
Electrical Data								
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	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
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	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
Net Weight	Indoor Unit	kg	26.5	26.5	26.5	34.0	38.5	38.5
	Outdoor Unit	kg	32.5	43.0	51.0	75.0	81.0	91.5



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Outdoor Unit - Tri-Phase				AC100RXADNG/EU	AC120RXADNG/EU	AC140RXADNG/EU

Refrigerant		R32 (contains fluorinated greenhouse gases. GWP = 675)						
Refrigerant	Type							
	Factory Charging	kg	0.9/20 m	1.2/10 m	1.7/15 m	2.7/30 m	2.7/30 m	2.9/30 m
	Charging Ton equivalent CO ₂	tCO ₂ e	0.61	0.81	1.15	1.82	1.82	1.96
	Additional Refrigerant Charging	g/m	-	-	25	50	50	50
Piping Connections	Liquid Pipe	ø, inch	1/4	1/4	1/4	3/8	3/8	3/8
	Gas Pipe	ø, inch	3/8	1/2	5/8	5/8	5/8	5/8
Piping Length	Min/Max	m	3/20	3/30	3/50	50	50	75
	Max	m	15	20	30	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)	VP25 (OD 32, ID 25)
Others								
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	MDP-G075SP MDP-G075SQ
	Max. Lifting Height/ Displacement	mm / litres/h	750/24	750/24	750/24	750/24	750/24	750/24

Accessories

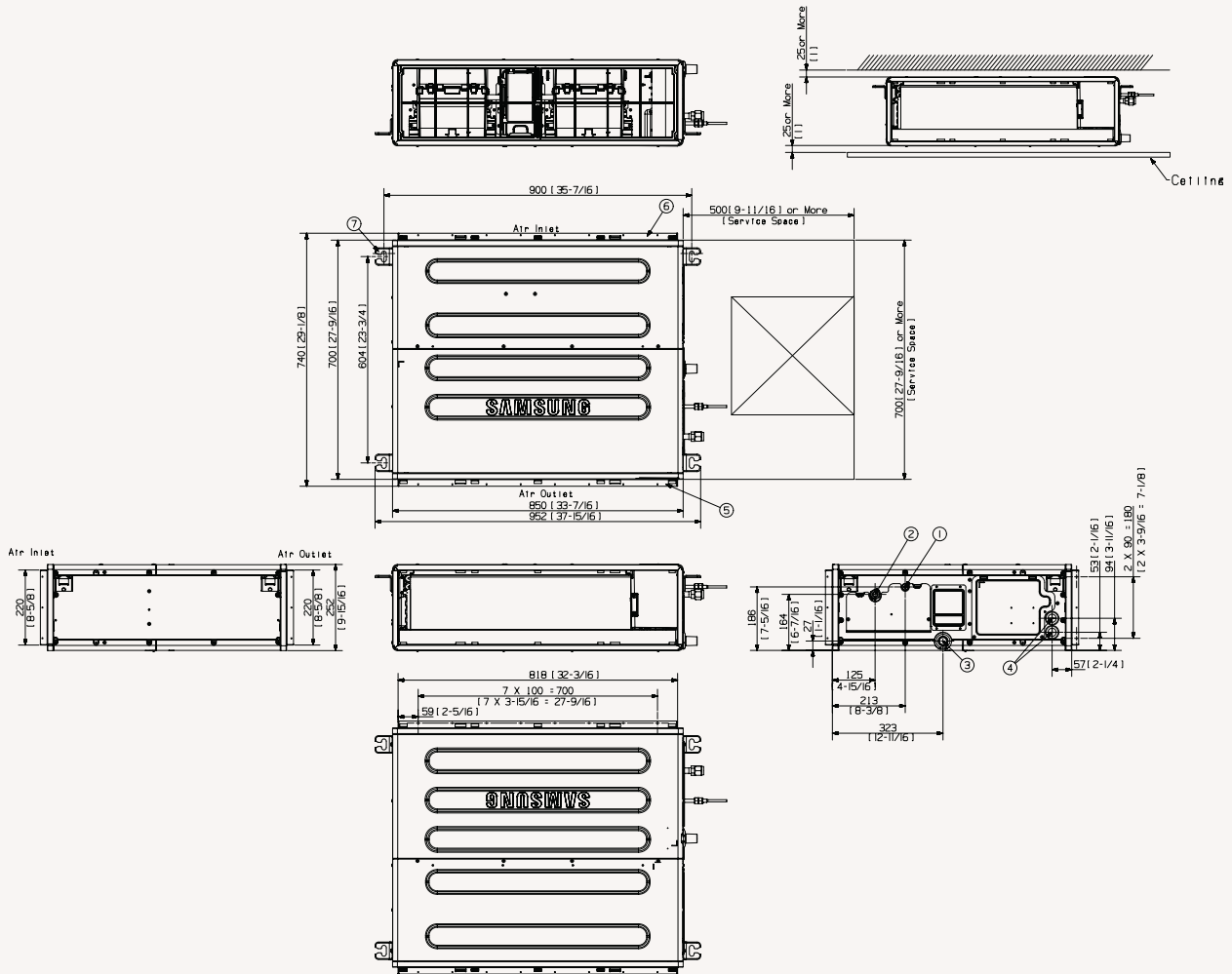
Drain Pump (optional)	Drain Pump (optional)	Wireless Remote Controller	Touch Controller
MDP-G075SP	MDP-G075SQ	AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N
Advanced Wired Controller	Wi-Fi Kit	Wireless Receiver Kit	External Thermostat
MWR-WG00JN / MWR-WG00KN	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA
Touch Centralised Controller	DMS 2.5	BACnet/Lonworks/PIM	ON/OFF Controller
MCM-A300N	MIM-D01AN	MIM-B17BN/B18BN/B16N	MCM-A202DN

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

Dimensional drawings

MSP Duct R32

AC035/052/060/071*NMDK*/EU



NO	Name	Description		
		AC035*NMDK*/EU	AC052*NMDK*/EU	AC060*NMDK*/EU AC071*NMDK*/EU
1	Liquid piping		ø6.35 (1/4)	
2	Gas piping	ø9.52 (3/8)	ø12.70 (1/2)	ø15.88 (5/8)
3	Condensation drain piping		VP25 (OD 32, ID 25)	
4	Power supply/communication wiring conduits		-	
5	Air intake		-	
6	Air supply		-	
7	Air tie rods		Use M8-M10 bolt (4x)	