

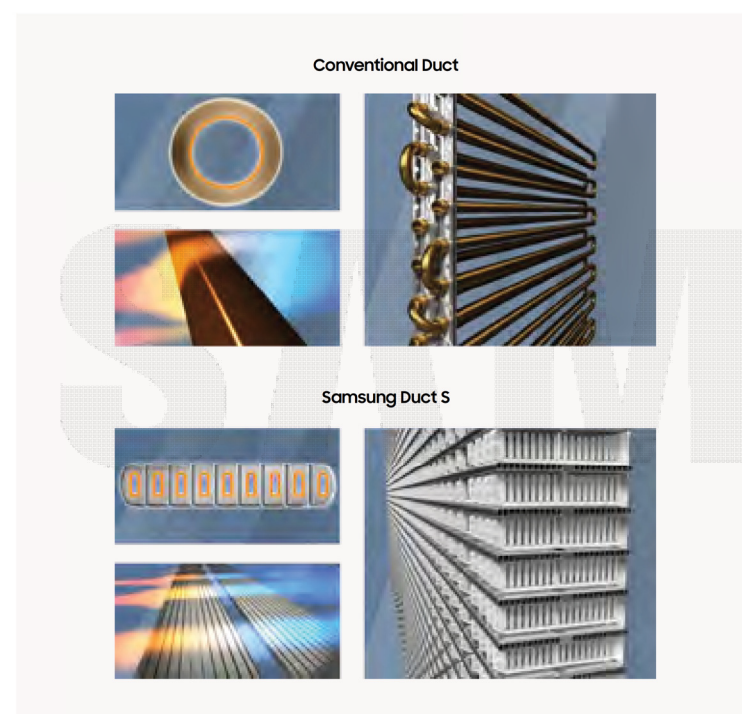
Featured Products



Duct S

Flat Micro-channel Heat Evaporator/Condenser

Samsung's innovative FME/FMC technology provides increased efficiency compared with the conventional fin and tube type. These modern updates have also enabled the unit to be made smaller.



Indoor Discharge Temperature

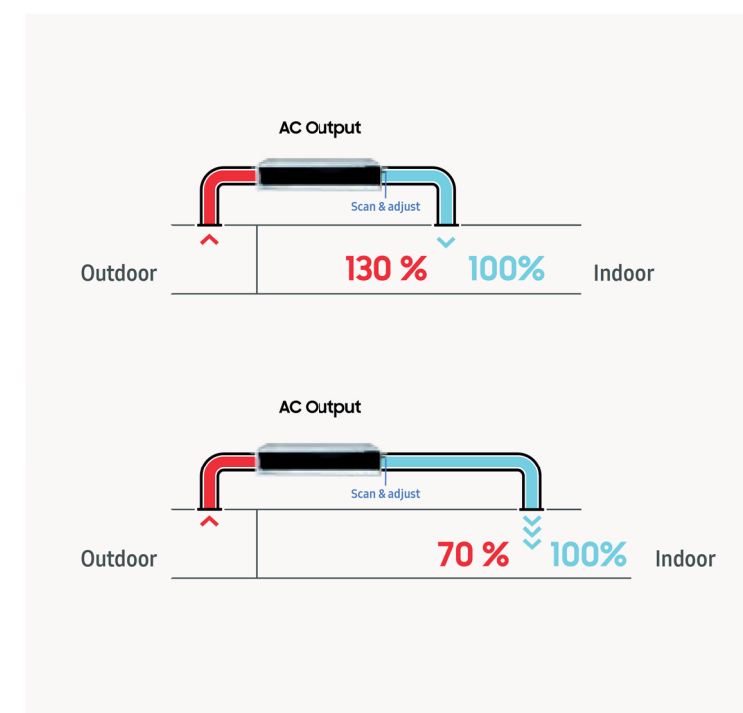
Each ducted indoor unit, or AHU kit, boasts a discharge air temperature control function, offering greater comfort without the need to change the outdoor unit's setting. The option to cool or heat can be chosen and maintained using an MWR-WE13N remote control, and applies to all ducted/AHU connected systems.



Easy Installation & Maintenance

Thanks to an ultra-compact design, Samsung duct units can be placed anywhere, and can even be split into two parts (18/20/25kW models). This makes for easy installation and maintenance. The indoor unit can be accessed from three different sides: from the top, from the bottom and from one side, making maintenance simpler than ever.

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Automatic ESP Setting

You can offer a comprehensive range of products. The right capacity, right ESP, and right-sized product for your customers.

→ For Commercial (CAC) please see: Page 4.36

Specifications



Duct - MSP Duct R32 NEW

Indoor Unit Outdoor Unit- Mono-Phase Outdoor Unit- Tri-Phase			AC035RNMDKG/EU AC035RXADKG/EU	AC052RNMDKG/EU AC052RXADKG/EU	AC071RNMDKG/EU AC071RXADKG/EU -	AC100RNMDKG/EU AC100RXADKG/EU 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 / 8.30 / 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 Cooling	SEER	W/W	6.2 / A++	6.3 / A++	6.1 / A++	5.9 / A+
	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 Heating	SCOP	W/W	4.0 / A+	4.1 / A+	4.0 / A+	4.0 / A+
	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)	m3/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 / Φ/ #	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 / Φ/ #	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 / Φ/ #			-	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	1200 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 CO2	tCO2e	0.61 tCO2e	0.81 tCO2e	1.15 tCO2e	1.82 tCO2e
	Additional refrigerant charging	g / m			25	50
Piping Connections	Liquid Pipe	Φ.inch	1 / 4	1 / 4	1 / 4	3 / 8
	Gas Pipe	Φ.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	Φ.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 AC120RXADKG/EU AC120RXADNG/EU	AC140RNMDKG/EU AC140RXADKG/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+	6.3
TBD	-
TBD	-
2.66	2.9
4.0 / A+	4.3
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 / 51.3 / 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 3LDC
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 330 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 tCO2e	1.96 tCO2e
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 (to be matched with MRK-A10N)	MWR-SH11N	MWR-WE13N
Others (Optional)		
		
MIM-H03N	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

Learn more about Samsung Climate Solutions at: www.samsung.com/climate

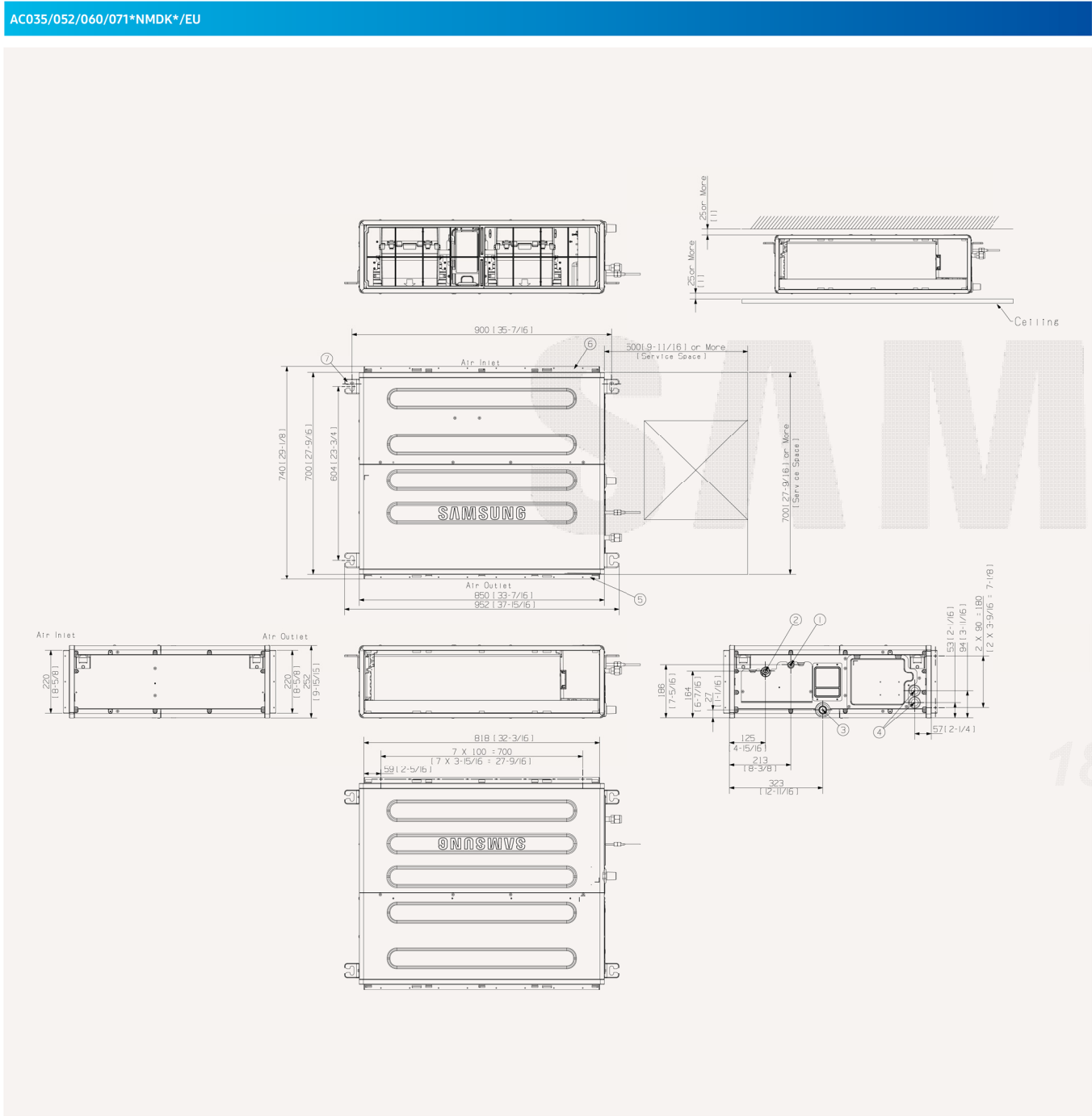
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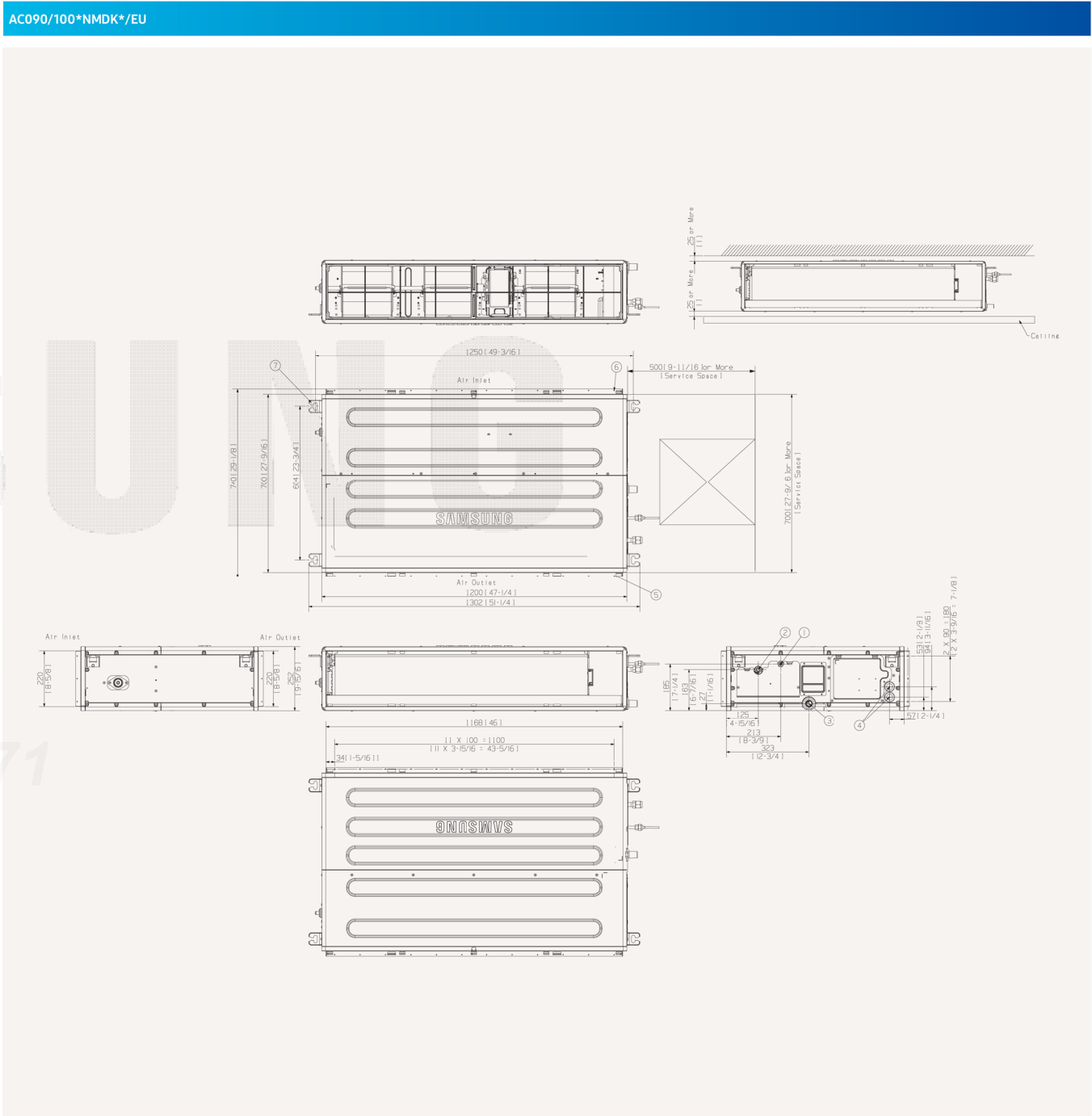
Dimensional Drawings

MSP Duct



Pos.	Name	Model
		AC035*NMDK*/EU
		AC052*NMDK*/EU
		AC060*NMDK*/EU
		AC071*NMDK*/EU
1	Liquid piping	ø 6,35 mm (1/4")
2	Gas piping	ø 9,52mm (3/8")
3	Condensation drain piping	ø 12,7 mm (1/2")
4	Power supply cables connection / communication	VP-25 (OD32, ID25)
5	Air intake	-
6	Air supply	-
7	Air tie rods	Use M8 ~ M10 bolt (4ea)

MSP Duct

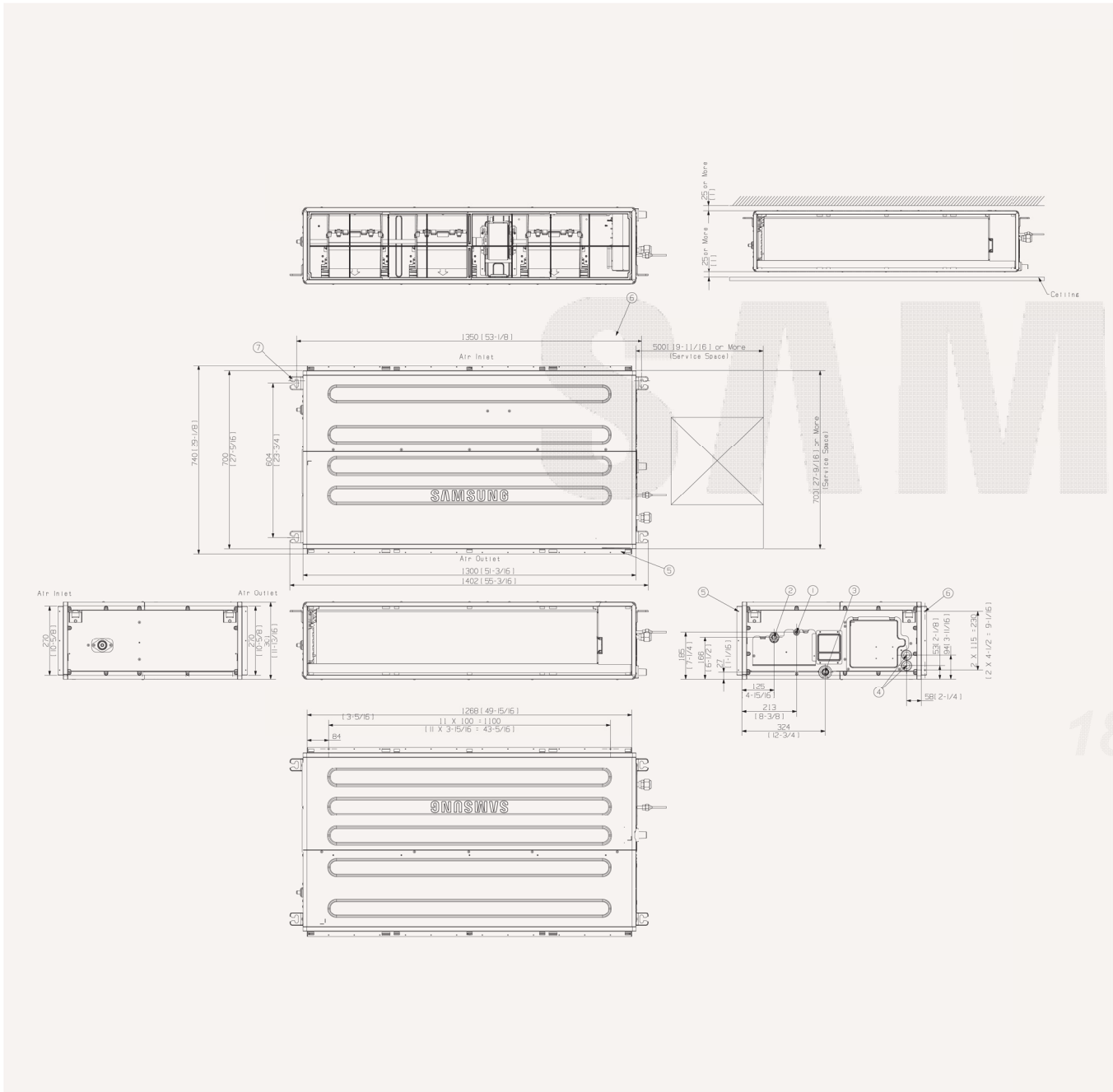


Pos.	Name	Description
1	Liquid piping	ø 9,52mm (3/8")
2	Gas piping	ø 15,88mm (5/8")
3	Condensation drain piping	VP-25 (OD32, ID25)
4	Power supply cables connection / communication	-
5	Air intake	-
6	Air supply	-
7	Air tie rods	Use M8 ~ M10 bolt (4ea)

Dimensional Drawings

MSP Duct

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



Pos.	Name	Description
1	Liquid piping	ø 9,52mm (3/8")
2	Gas piping	ø 15,88mm (5/8")
3	Condensation drain piping	VP-25 (OD32, ID25)
4	Power supply cables connection / communication	-
5	Air intake	-
6	Air supply	-
7	Air tie rods	Use M8 ~ M10 bolt (4ea)

