



Samsung MSP Duct S Inverter Range

9 cooling/heating models from ACO35 to ACO160

- Cooling from 0.98Kw to 16.12kW; heating from 0.99kW to 19.34kW
- Samsung's Smart Digital Inverter saves both energy and money
- Air flow rates from 5.8 CMM up to 49 CMM
- Compact dimensions of internal unit ensure easy fitment
- Max pipe length to outdoor unit 20m to 50m (model-dependent)
- EER up to 10.63 (model dependent)

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The smart choice for saving both money and energy, Samsung's new Duct S Inverter range uses advanced technology that offers not only maximum energy-efficiency but also silent operation and outstanding cooling/heating performance. An indoor airflow rate of up to 49 CMM (ACO160 model) ensures climate control of large commercial or upmarket domestic interiors. An indoor model height of 250mm (except ACO160 model) ensures convenient fitment in restricted spaces, while a maximum piping length of up to 50 metres allows convenient placement of outdoor unit.



Specifications

Type		Duct S																	
Model Name		Indoor Unit	ACO35JNMDEH	ACO52JNMDEH	ACO65JNMDEH	ACO71JNMDEH	ACO80JNMDEH	ACO90JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH	ACO100JNMDEH
Mode	Capacity	Outdoor Unit	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
		Cooling(Min/Std/Max)	3,300 / 12,000 / 14,000	4,100	5,000 / 17,000 / 18,000	5,270	6,300 / 24,500 / 26,000	7,620	8,790 / 31,500 / 33,000	10,260	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000	10,260 / 35,000 / 37,000
Power	Power	Input (Nominal)	0.98 / 3.98 / 4.98	0.73 / 4.98 / 6.45	1.67 / 7.18 / 8.00	2.93 / 8.79 / 9.96	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84	3.02 / 10.26 / 10.84
		Heating(Min/Std/Max)	3,400 / 13,600 / 17,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000	2,500 / 17,000 / 22,000
Piping Connections	Piping Connections	Power Input (Nominal)	0.33 / 1.15 / 1.35	0.35 / 1.60 / 1.70	0.47 / 2.00 / 2.30	0.65 / 2.80 / 3.20	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60	0.80 / 3.37 / 4.60
		Heating(Min/Std/Max)	0.24 / 1.18 / 1.50	0.25 / 1.23 / 2.20	0.31 / 1.95 / 2.90	0.40 / 2.00 / 2.30	0.47 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30	0.52 / 2.00 / 2.30
System	System	Current Input (Nominal)	2.10 / 5.30 / 6.20	2.20 / 7.30 / 8.00	2.80 / 11.80 / 14.10	4.70 / 15.00 / 20.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00	6.50 / 20.00 / 23.00
		Heating(Min/Std/Max)	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80	1.60 / 5.40 / 6.80
Refrigerant	Refrigerant	MCA	10.00	12.70	22.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70	24.70
		MFA	11.00	13.97	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Energy Efficiency	Energy Efficiency	EER (Nominal Cooling)	10.43	10.63	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
		COP (Nominal Heating)	11.52	13.82	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.56
Piping Connections	Piping Connections	Liquid Pipe	Ø mm	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
		Gas Pipe	Ø mm	9.52	12.70	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88
Installation	Installation	Max. Length	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m	30m
		Max. Height	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m	15m
Power Supply	Power Supply	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
		Factory Charging	kg	1.00	1.30	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Fan	Fan	Air Flow Rate	Ø mm	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00	18.70 / 16.50 / 14.00
		External Static Pressure	Pa	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0	0.0 / 2.5 / 4.0
Drain	Drain	Drain Pipe	Ø mm	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)	VP25 (Ø 32 ID 25)
		Sound	Pressure	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low	High/Mid/Low
External Dimension	External Dimension	Net Weight	kg	20.00	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20	25.20
		Net Dimensions (WxHxD)	mm	700 x 190 x 600	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
Power Supply	Power Supply	Additional Acc.	Drain pump	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP	MDP-G07SP
		Type	Ø mm	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50	12,220-240-50
Compressor	Compressor	Oil	Type	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE
		Flow Rate	Ø mm	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
Sound	Sound	Pressure	Cooling/Heating	dB(A)	47 / 48	47 / 48	49 / 51	54 / 56	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57	55 / 57
		Net Weight	kg	29.50	36.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
External Dimension	External Dimension	Net Dimensions (WxHxD)	mm	720 x 548 x 285	750 x 548 x 285	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310	880 x 638 x 310
		Operating Temp. Range	°C	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0	-5.0 ~ -40.0
Heating	Heating	Heating	°C	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0	-15.0 ~ -24.0