

Samsung Inverter Ducted Range

(Scroll down to see specifications according to model numbers)

Samsung quality and energy-efficient Inverter technology ensure economical, reliable airconditioning of large areas



- Top-quality energy-efficient Inverter Ducted heating/cooling
- Available in 6 models
- Single and 3-phase models
- 50m to 75m piping length to outdoor unit/30m elevation
- Environmentally-friendly R410A gas
- Backed nation wide by Aircon Experts with warehouses in all metropolitan areas

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AIRCON EXPERTS
(PTY) LTD.

Samsung Inverter MSP Duct

Samsung quality and energy-efficient Inverter technology ensure economical, reliable airconditioning of large areas

Wherever ducted airconditioning is called for, Samsung Inverter MSP is the logical choice. Thanks to highly-efficient Inverter technology, electricity usage is kept to a minimum, while R410A gas ensures eco-friendliness. For full information, please contact Aicon Experts.



SPECIFICATIONS

Model Indoor Unit		NS071SDXEA	NS090SDXEA	NS100SDXEA	NS100SDXEA	NS140SDXEA	NS140SDXEA
Model Outdoor Unit		RC071DHXEA	RC090DHXEA	RC100DHXEA	RC100DHXGA	RC140DHXEB	RC140DHXGA
Function		Cooling/heating	Cooling/heating	Cooling/heating	Cooling/heating	Cooling/heating	Cooling/heating
Cooling Capacity: (Min/Std/Max)	kW	2.2/7.1/8.0	2.8/9.0/11.5	3.2/10.0/12.0	4.0/10.0/12.0	3.45/14.0/15.4	3.45/14.0/15.4
	Btu/h	7500/24200/27300	9 600/30 700/39 200	10 900/34 100/40 900	13 600/34 100/40 900	11 800/47 800/52 500	11 800/47 800/52 500
Heating Capacity (Min/Std/Max)	kW	1.9/8.0/9.0	3.0/10.0/15.5	3.0/11.2/15.5	4.3/11.2/15.5	3.75/16.0/18.5	3.75/16.0/18.5
	Btu/h	6500/27300/30700	10 200/34 100/52 900	10 200/38 200/52 900	14 700/38 200/52 900	12 800/54 600/63 100	12 800/54 600/63 100
Energy Grade	Cooling:	A	A	A	A	B	B
	Heating:	A	A	A	A	A	A
Power Input: Cooling (Min/Std/Max)	kW	0.35/2.21/4.0	0.82/2.8/3.8	0.88/3.12/5	1.2/3.12/4.7	1.25/4.65/5.70	1.25/4.65/5.70
Power Input: Heating (Min/Std/Max)	kW	0.35/2.22/4.0	0.8/2.77/5.2	0.71/3.1/5.5	0.93/3.1/5.8	1.00/4.43/5.80	1.00/4.43/5.80
Current Input: Cooling (Min/Std/Max)	A	2.0/10.5/21.0	4/13/16.5	4/13.8/21	2.2/5/7.3	5.7/21.3/26.1	2.0/7.2/8.8
Current Input: Heating (Min/Std/Max)	A	2.0/10.5/21.0	3.3/12.5/24	3.3/13.5/24	1.7/5/9	4.5/20.3/26.5	1.6/6.9/9.0
EER (Cooling):		3.21	3.21	3.21	3.21	3.01	3.01
COP (Heating):		3.72	3.61	3.61	3.61	3.61	3.61
Piping (Liquid)	Ø, mm	6.35 x 1	9.52 x 1	9.52 x 1	9.52 x 1	9.52 x 1	9.52 x 1
Power Input: Cooling (Min/Std/Max)	kW	0.35/2.21/4.0	0.82/2.8/3.8	0.88/3.12/5	1.2/3.12/4.7	1.25/4.65/5.70	1.25/4.65/5.70
Power Input: Heating (Min/Std/Max)	kW	0.35/2.22/4.0	0.8/2.77/5.2	0.71/3.1/5.5	0.93/3.1/5.8	1.00/4.43/5.80	1.00/4.43/5.80
Current Input: Cooling (Min/Std/Max)	A	2.0/10.5/21.0	4/13/16.5	4/13.8/21	2.2/5/7.3	5.7/21.3/26.1	2.0/7.2/8.8
Current Input: Heating (Min/Std/Max)	A	2.0/10.5/21.0	3.3/12.5/24	3.3/13.5/24	1.7/5/9	4.5/20.3/26.5	1.6/6.9/9.0
EER (Cooling):		3.21	3.21	3.21	3.21	3.01	3.01
COP (Heating):		3.72	3.61	3.61	3.61	3.61	3.61
Piping (Liquid)	Ø, mm	6.35 x 1	9.52 x 1	9.52 x 1	9.52 x 1	9.52 x 1	9.52 x 1
Piping (Gas)	Ø, mm	15.88 x 1	15.88 x 1	15.88 x 1	15.88 x 1	15.88 x 1	15.88 x 1
Piping Max. Length	m	50	50	50	50	75	75
Max Height difference	m	30	30	30	30	30	30
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrig. Factory Charging	kg	1.8	3.0	3.0	3.1	3.4	3.4
INDOOR UNIT							
Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Air flow	CMM	17.0	34.1	39.0	39	42.8	42.8
External Static pressure: Min/Max	mmAq	0 - 10	0 - 10	0 - 14	0 - 14	0 - 14	0 - 14
Noise level (High/Low)	dB/(A)	39/35	39/35	39/35	39/35	43/38	43/38
Net weight	kg	33	39	55	55	55	55
Gross weight	kg	40	46	60	60	60	60
Net Dimensions WxHxD	mm	1150x260x480	1150x320x480	1200x360x650	1200x360x650	1200x360x650	1200x360x650
Gross Dimensions WxHxD	mm	1405x354x593	1400x430x590	1447x425x769	1447x425x769	1447x425x769	1447x425x769
OUTDOOR UNIT							
Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	1/220-240/50	3/380-415/50
Noise level	dB/(A)	49	51	52	52	52	52
Net weight	kg	55	72	72	81	88	91
Gross weight	kg	59	77	77	86	98	101
Net Dimensions WxHxD	mm	880x798x310	940x998x330	940x998x330	940x998x330	940x1210x330	940x1210x330
Gross Dimensions WxHxD	mm	1023x889x416	995x1096x426	995x1096x426	995x1096x426	995x1308x426	995x1308x426

Due to constant improvements, specifications are subject to change without prior notice. E&OE

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Samsung Slim 1-Way Inverter Duct

R410A Inverter Duct

With a net height of just 199mm (260mm on largest model), Samsung's Slim Inverter Duct fits neatly in confined spaces. Smart inverter technology with excellent EER/COP figures keeps electricity consumption to a minimum whether cooling or heating, whilst providing a maximum air flow rate as high as 19CMM. With simplified drain pump connection and flexible installation, the Slim Duct is easy to fit and maintain. Backed nation wide by Aircon Experts with warehouses in all metropolitan areas.



Samsung Slim 1-Way Inverter Duct Specifications					
Model Name	Indoor Unit		NS035LDXEA	NS052LDXEA	NS071LDXEA
	Outdoor		RC035DHXEA	RC052DHXEA	RC071DHXEA
Capacity (Min./Standard/Max.)	Cooling	kW	0.99/3.50/4.20	1.70/5.00/6.00	2.20/7.10/8.00
		Btu/h	3400/11900/14300	5800/17100/20500	7500/24200/27300
	Heating	kW	0.98/4.00/5.00	1.50/6.00/8.00	1.90/8.00/11.00
		Btu/h	3300/13600/17100	5100/20500/27300	6500/27300/37500
Power Input (Nominal) (Min./Standard/Max.)	Cooling	kW	0.24/1.16/1.45	0.42/1.55/1.95	0.35/2.21/4.00
	Heating	kW	0.18/1.11/1.40	0.36/1.65/2.70	0.35/2.32/4.00
Current Input (Nominal) (Min./Standard/Max.)	Cooling	A	1.60/5.60/6.80	2.50/7.00/8.50	2.00/10.50/21.00
	Heating	A	1.20/5.70/6.70	2.10/7.50/12.00	2.00/10.50/21.00
Energy Efficiency (Nominal)	Cooling	EER	3.02	3.23	3.21
	Heating	COP	3.60	3.64	3.45
Piping Connections	Liquid	Ø mm	6.35	6.35	6.35
		Ø inch	1/4	1/4	1/4
	Gas	Ø mm	9.52	12.70	15.88
		Ø inch	3/8	1/2	5/8
Max. pipe length	Outdoor to Indoor	m	20(25)	50(55)	50(55)
Max. pipe height	Between ID/OD	m	15(15)	30(30)	30(30)
Refrigerant	Type		R410A	R410A	R410A
	Factory Charging	kg	0.95	1.40	1.30
INDOOR UNIT					
Power Supply		pH/V/Hz	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50
Fan Air Flow Rate	Hi/Med/Low	CMM	11.00/10.00/9.00	16.50/15.00/13.50	19.00/17.00/15.00
		l/s	183.33/166.67/150.00	275.00/250.00/225.00	316.67/283.33/250.00
External Static Pressure	Min/Std/Max	mmAq	0.00/2.00/4.00	0.00/2.00/4.00	0.00/2.00/4.00
		Pa	0.00/19.61/39.23	0.00/19.61/39.23	0.00/19.61/39.23
Drain Pipe		Ø mm	VP25 (OD 32, ID25)	VP25 (OD 32, ID25)	VP25 (OD 32, ID25)
Sound Pressure	Hi/Med/Low	dB (A)	32.00/29.5/27.0	33.00/31.5/30.0	36.00/34.0/32.0
External Dimensions	Net Weight	kg	26.00	31.00	34.00
	Ship. Weight	kg	31.00	39.00	40.00
Net Dimensions	WxHxD	mm	900x199x600	1100/199/600	1150/260/480
Ship. Dimensions	WxHxD	mm	1133x333x722	1330x330x730	1390x345x575
OUTDOOR UNIT					
Power Supply		pH/V/Hz	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50
Sound Pressure (Cooling/heating)		dB(A)	47.0/48.0	48.0/49.0	50.0/51.0
Net Weight		kg	33.00	38.50	55.00
Shipping weight		kg	37.00	42.50	59.00
Dimensions (Net)	WxHxD	mm	790x548x285	790x548x285	880x798x310
Shipping Dimensions	WxHxD	mm	926x655x382	926x655x382	1038x891x413
Operating Temp. Range	Cooling	°C	-10~46	-15~46	-15~50
	Heating	°C	-15~24	-15~24	-20~24

Due to Samsung's policy of constant improvement, specifications are subject to change without notice. E&OE

1. Nominal cooling capacities are based on: Indoor temperature: 27°C DB, 19°C WB / Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 7.5m (horizontal)
2. Nominal heating capacities are based on: Indoor temperature: 20°C DB, 15°C WB / Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m (horizontal)
3. Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

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AIRCON EXPERTS
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Inverter High Static Duct Specifications

MODEL INDOOR UNIT				AM220FNHDEH	AM280FNHDEH
Power Supply	Ø, #, V, Hz			1, 2, 220 ~ 240, 50	1, 2, 220 ~ 240, 50
Mode *1)			-	HP	HP
Performance	Capacity (Nominal)	Cooling *2)	kW	22.4	28.0
			Btu/h	76,400	95,500
		Heating *3)	kW	25.0	31.5
			Btu/h	85,300	107,500
Power	Power Input (Nominal)	Cooling *2)	W	530	790
		Heating *3)	W	530	790
	Current Input (Nominal)	Cooling *2)	A	3.8	5.9
		Heating *3)	A	3.8	5.9
Fan	Motor	Output	W	400	400
	Air Flow Rate	H/M/L (UL)	l/s	966.67/866.67/783.33	1,200.00/1,083.33/966.67
	External Pressure	Min / Std / Max	Pa	49.03/147.10/245.17	49.03/147.10/274.59
Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52
			Ø, inch	3/8	3/8
	Gas Pipe		Ø, mm	19.05	22.23
			Ø, inch	3/4	7/8
Dimensions	Net Weight		kg	89.00	89.00
	Shipping Weight		kg	99.00	99.00
	Net Dimensions (WxHxD)		mm	1240 x 470 x 1040	1240 x 470 x 1040
OUTDOOR UNIT					
Power Supply			Ø, #, V, Hz	3,4, 380 ~ 415, 50	3,4, 380 ~ 415, 50
Performance	Capacity (Nominal)	Cooling	kW	22.4	28.0
			Btu/h	76,400	95,500
		Heating	kW	25.20	31.50
			Btu/h	86,000	107,500
Power	Power Input (Nominal)	Cooling 1)	kW	5.00	6.80
		Heating 2)	kW	5.10	6.70
	Current Input (Nominal)	Cooling 1)	A	8.00	10.90
		Heating 2)	A	8.20	10.70
	MFA		A	30	40
COP	Nominal Cooling 1)		-	4.48	4.12
	Nominal Heating 2)		-	4.94	4.70
	ESEER		-	7.85	7.25
Fan	External Static Pressure	Max.	Pa	78.45	78.45
Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52
			Ø, inch	3/8	3/8
	Gas Pipe		Ø, mm	19.05	22.22
			Ø, inch	3/4	7/8
External Dimensions	Net Weight		kg	190.00	190.00
	Shipping Weight		kg	206.00	206.00
	Net Dimensions (WxHxD)		mm	880 x 1,695 x 765	880 x 1,695 x 765
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-20.0 ~ 24.0	-5.0 ~ 24.0

* Specifications may be subject to change without prior notice for products improvement.

*1) Mode

-HP: Heat Pump, HR: Heat Recovery

*2) Nominal cooling capacities are based on:

- Indoor temperature: 27°C DB, 19°C WB / Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 7.5m, Level differences: 0m

*3) Nominal heating capacities are based on:

- Indoor temperature: 20°C DB, 15°C WB / Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences: 0m

*4) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

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