

DUCT S Systems

5.2kW to 14kW models, Heat Pump, 1 phase power supply

Type			Duct S	Duct S	Duct S	Duct S	Duct S	Duct S	
Model Name System	Indoor Unit		AC052HBHFKH/SA	AC071HBHFKH/SA	AC090HBHFKH/SA	AC100HBHFKH/SA	AC120HBHFKH/SA	AC140HBHFKH/SA	
	Outdoor Unit		AC052HCAFKH/SA	AC071HCAFKH/SA	AC090HCAFKH/SA	AC100HCAFKH/SA	AC120HCAFKH/SA	AC140HCAFKH/SA	
Capacity	Cooling (Min / Std / Max) ¹		kW	1.30 / 5.20 / 6.50	2.00 / 7.10 / 8.00	2.60 / 9.00 / 11.50	3.50 / 10.00 / 12.00	3.50 / 12.00 / 14.00	3.50 / 14.00 / 15.40
	Heating (Min / Std / Max) ²		kW	1.10 / 6.00 / 8.00	1.50 / 8.00 / 9.00	2.80 / 10.00 / 15.50	3.70 / 11.20 / 17.00	3.70 / 14.00 / 19.00	3.70 / 16.00 / 21.00
Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.35 / 1.32 / 2.1	0.47 / 2.01 / 3.00	0.70 / 2.60 / 4.50	0.90 / 2.57 / 3.90	0.90 / 3.50 / 4.0	0.95 / 4.12 / 5.40
		Heating (Min / Std / Max)	kW	0.26 / 1.49 / 2.80	0.36 / 2.01 / 3.50	0.65 / 2.50 / 5.50	0.81 / 2.56 / 6.90	0.85 / 3.33 / 7.2	0.85 / 3.98 / 7.50
	Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.90 / 6.30 / 9.50	2.80 / 9.10 / 13.30	4.00 / 12.00 / 19.50	4.50 / 12.00 / 17.50	4.50 / 16.00 / 20.00	5.00 / 18.80 / 24.00
		Heating (Min / Std / Max)	A	1.50 / 7.30 / 12.30	2.20 / 9.10 / 15.50	3.40 / 11.50 / 21.80	4.00 / 11.80 / 31.20	4.30 / 15.20 / 31.40	4.50 / 18.40 / 31.60
	MCA, Maximum Input Current ⁴		A	15	18	24	30	31	32
	MFA, Maximum Fuse Amps ⁴		A	20	25.00	30.00	32	40.00	40.00
Energy Efficiency	EER (Nominal Cooling)		-	3.94	3.53	3.46	3.89	3.43	3.40
	COP (Nominal Heating)		-	4.03	3.98	4.00	4.38	4.20	4.02
	Energy Grade		-	AEER 3.86	AEER 3.45	AEER 3.38	AEER 3.82	AEER 3.38	AEER 3.31
		-	ACOP 3.96	ACOP 3.89	ACOP 3.97	ACOP 4.27	ACOP 4.20	ACOP 3.94	
Piping Connections	Liquid Pipe		Φ, mm(inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Φ, mm(inch)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Installation Limitation	Max. Length	m	30	50	50	75	75	75
		Max. Height	m	20	30	30	30	30	30
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A
	Factory Charging		kg	1.40 (charged for 5m)	1.50 (charged for 5m)	2.60 (charged for 30m)	2.90 (charged for 30m)	2.90 (charged for 30m)	2.90 (charged for 30m)
Indoor Unit									
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Fan	Air Flow Rate	Max/H/M/L	ℓ/s	366.67 / 266.67 / 225.00 / 183.33	500.00 / 366.67 / 316.67 / 266.67	633.33 / 533.33 / 450.00 / 366.67	816.67 / 533.33 / 450.00 / 366.67	833 / 633 / 533 / 416	1000.00 / 700.00 / 566.67 / 416.67
	External Static Pressure	Min/Std/Max	Pa	30.00 / 40.00 / 150.00	30.00 / 40.00 / 150.00	30.00 / 50.00 / 150.00	30.00 / 50.00 / 200.00	30.00 / 60.00 / 200.00	30.00 / 60.00 / 200.00
Drain	Drain Pipe		Φ, 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)
	Drain Pump (optional extra)			MDP-G075SP (external type)	MDP-G075SP (external type)	MDP-G075SP (external type)	MDP-G075SP (external type)	MDP-G075SP (external type)	MDP-G075SP (external type)
Sound	Sound Pressure ³	High / Mid / Low	dB(A)	35.0	37.0	38.0	37.0	39.0	40.0
External Dimension	Net Weight		kg	24.00	24.00	31.50	45.50	45.50	45.50
	Shipping Weight		kg	28.00	28.00	36.50	51.50	51.50	51.50
	Net Dimensions (WxHxD)		mm	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	1,300 x 300 x 700
	Supply Air Opening (WxH)		mm	818 x 220	818 x 220	1168 x 220	1268 x 270	1268 x 270	1268 x 270
	Return Air Opening (WxH)		mm	818 x 220	818 x 220	1168 x 220	1268 x 270	1268 x 270	1268 x 270
	Shipping Dimensions (WxHxD)		mm	1,100 x 320 x 780	1,100 x 320 x 780	1,450 x 320 x 780	1,550 x 370 x 780	1,550 x 370 x 780	1,550 x 370 x 780
Outdoor Unit									
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/6	1,2,220-240,50/60
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Fan	Air Flow Rate	Cooling	ℓ/s	883.33	900.00	1,050.00	1,600.00	1,916.67	1,916.67
Sound	Sound Pressure ³	Cooling / Heating	dB(A)	48.0 / 50.0	49.0 / 51.0	49.0 / 52.0	49.0 / 51.0	50.0 / 51.0	51.0 / 52.0
External Dimension	Net Weight		kg	54.00	55.00	70.00	98.00	98.00	98.00
	Shipping Weight		kg	58.00	59.00	74.00	108.00	108.00	108.00
	Net Dimensions (WxHxD)		mm	880 x 798 x 310	880 x 798 x 310	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Shipping Dimensions (WxHxD)		mm	1,023 x 891 x 413	1,023 x 891 x 413	995 x 1,096 x 426	995 x 1,597 x 426	995 x 1,597 x 426	995 x 1,597 x 426
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

1) 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 : 5m, Level differences : 0m

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 : 5m, Level differences : 0m

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

4) Size wiring and fuse in accordance to local electrical regulation standards.
 Specifications may be subject to change without prior notice due to product development.

D.R.E.D Samsung Duct S units are enabled with Demand Response Enabled Device (D.R.E.D) circuitry.

DUCT S Systems

10kW, 12kW, 14kW models, Heat Pump, 3 phase power supply

Type				Duct S	Duct S	Duct S
Model Name System	Indoor Unit			AC100HBHFKH/SA	AC120HBHFKH/SA	AC140HBHFKH/SA
	Outdoor Unit			AC100HCAFNH/SA	AC120HCAFNH/SA	AC140HCAFNH/SA
Capacity	Cooling (Min / Std / Max) ¹		kW	3.50 / 10.00 / 12.00	3.50 / 12.00 / 14.00	3.50 / 14.00 / 15.40
	Heating (Min / Std / Max) ²		kW	3.70 / 11.20 / 17.00	3.70 / 14.00 / 19.00	3.70 / 16.00 / 21.00
Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.90 / 2.57 / 3.90	0.90 / 3.50 / 4.50	0.95 / 4.12 / 5.40
		Heating (Min / Std / Max)	kW	0.81 / 2.56 / 6.90	0.85 / 3.33 / 7.20	0.85 / 3.98 / 7.5
	Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.70 / 4.40 / 6.80	1.70 / 5.60 / 7.20	1.90 / 6.70 / 8.50
		Heating (Min / Std / Max)	A	1.50 / 4.30 / 10.40	1.50 / 5.40 / 11.20	1.70 / 6.60 / 11.20
	MCA, Maximum Input Current ⁴		A	14.70	14.70	14.70
MFA, Maximum Fuse Amps ⁴		A	16.20	16.20	16.20	
Energy Efficiency	EER (Nominal Cooling)		-	3.89	3.43	3.40
	COP (Nominal Heating)		-	4.38	4.20	4.02
	Energy Grade		-	AEER 3.83	AEER 3.39	AEER 3.34
Piping Connections	Liquid Pipe		Φ, mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Φ, mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Installation Limitation	Max. Length	m	75	75	75
		Max. Height	m	30	30	30
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg	2.90 (charged for 30m)	2.90 (charged for 30m)	2.90 (charged for 30m)
Indoor Unit						
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Fan	Air Flow Rate	Max/H/M/L	ℓ/s	816.67 / 533.33 / 450.00 / 366.67	833.33 / 633.33 / 533.33 / 416.67	1000 / 700 / 567 / 417
	External Static Pressure		Min/Std/Max	Pa	30.00 / 50.00 / 200.00	30.00 / 60.00 / 200.00
Drain	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Drain Pump (optional extra)			MDP-G075SP (external type)	MDP-G075SP (external type)	MDP-G075SP (external type)
Sound	Sound Pressure ³	High / Mid / Low	dB(A)	37.0	39.0	40.0
External Dimension	Net Weight		kg	45.50	45.50	45.50
	Shipping Weight		kg	51.50	51.50	51.50
	Net Dimensions (WxHxD)		mm	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
	Supply Air Opening (WxH)		mm	1268 x 270	1268 x 270	1268 x 270
	Return Air Opening (WxH)		mm	1268 x 270	1268 x 270	1268 x 270
Shipping Dimensions (WxHxD)		mm	1,550 x 370 x 780	1,550 x 370 x 780	1,550 x 370 x 780	
Outdoor Unit						
Power Supply			Φ, #, V, Hz	3,4,380-415,50/60	3,4,380-415,50/60	3,4,380-415,50/60
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Fan	Air Flow Rate	Cooling	ℓ/s	1,600.00	1,916.67	1,916.67
Sound	Sound Pressure ³	Cooling / Heating	dB(A)	49.0 / 51.0	50.0 / 51.0	51.0 / 52.0
External Dimension	Net Weight		kg	100.00	100.00	100.00
	Shipping Weight		kg	110.00	110.00	110.00
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,597 x 426	995 x 1,597 x 426	995 x 1,597 x 426
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

1) 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 : 5m, Level differences : 0m

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 : 5m, Level differences : 0m

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

4) Size wiring and fuse in accordance to local electrical regulation standards.

Specifications may be subject to change without prior notice due to product development.



Samsung Duct S units are enabled with Demand Response Enabled Device (D.R.E.D) circuitry.

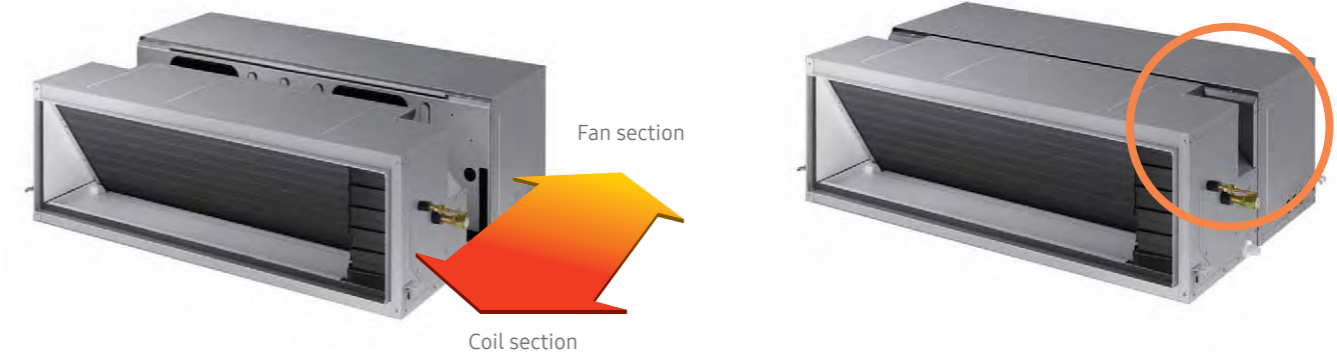
BIG DUCT S Systems

16kW, 18kW, 20kW models, Heat Pump

Designed to help meet Australian conditions

Separable for easy handling

Cutout for roof truss for easy installation



Model Name	Indoor Unit		AC160JNHFKH/SA	AC160JNHFKH/SA	AC180JNHFKH/SA	AC200JNHFKH/SA
	Outdoor Unit		AC160JXAFKH/SA	AC160JXAFNH/SA	AC180JXAFNH/SA	AC200JXAFNH/SA
Power Supply	Indoor Unit		220-240V 1-phase	220-240V 1-phase	220-240V 1-phase	220-240V 1-phase
	Outdoor Unit		220-240V 1-phase	380-415V 3-phase	380-415V 3-phase	380-415V 3-phase
Capacity	Cooling (Min/Std/Max) ¹	kW	4.5 / 16.0 / 18.0		6.0 / 18.0 / 20.0	6.2 / 20.0 / 22.5
	Heating (Min/Std/Max) ²	kW	3.7 / 18.0 / 20.0		4.8 / 20.0 / 22.5	5.0 / 22.5 / 25.0
Efficiency	EER (Std, Cooling)		3.4	3.4	3.4	3.3
	COP (Std, Heating)		3.7	3.7	3.7	3.7
Circuit Amps	MCA, Maximum Input Current ⁴	A	34.5	14.5	14.5	25.0
	MFA, Maximum Fuse Amps ⁴	A	40.0	16.0	16.0	31.3
Indoor Unit	Airflow Rate (H, M, L)	l/s	1116 / 966 / 816		1183 / 1000 / 833	1200 / 1016 / 850
	ESP (H,M,L)	Pa	196 / 60 / 49			196 / 72 / 49
	Sound Pressure @ 1.5m (H/L) ³	dB(A)	43 / 39 / 35			44 / 40 / 36
	Unit Dimensions (WxHxD)	mm	1,350 x 450 x 910			
	Weight	kg	78.5	78.5	82.5	82.5
	Supply Air Opening (WxH)	mm	1284 x 360			
	Return Air Opening (WxH)	mm	1284 x 360			
	Drain Pipe Connection	mm	OD25, ID20			
	Drain Pump (Optional)		MDP-G075SQ (internal type), MDP-G075SP (external type)			
Outdoor Unit	Compressor type		Twin BLDC Rotary			BLDC Scroll
	Sound Pressure @ 1m (Cool/Heat) ³	dB(A)	53.0 / 55.0	53.0 / 55.0	55.0 / 57.0	57.0 / 59.0
	Weight	kg	95	95	107.5	190
	Unit Dim (WxHxD)	mm	940 x 1,420 x 330			880 x 1,695 x 765
Pipe Connection	Liquid Pipe	mm, in	9.52, 3/8"			
	Gas Pipe	mm, in	15.88, 5/8"		19.05, 3/4"	
Installation	Max. Length	m	75 (75)	75 (75)	75 (75)	150 (150)
	Max. Height	m	30 (30)	30 (30)	30 (30)	50 (40)
Refrigerant	Type		R410A			
	Factory Charge	kg	3.5	3.5	4.6	8.0
	Additional charge	kg	+50g/m over 30m			+60g/m over 30m
Operating Temp. Range	Cooling	°C	-15 to 50			
	Heating	°C	-20 to 24			

1) Nominal cooling capacities are based on;
 - Indoor temperature: 27°C DB, 19°C WB
 - Outdoor temperature: 35°C DB, 24°C WB
 Equivalent piping: 5m (16kW, 18kW), 7.5m (20kW), level difference 0m.

2) Nominal heating capacities are based on;
 - Indoor temperature: 20°C DB, 15°C WB
 - Outdoor temperature: 7°C DB, 6°C WB
 Equivalent piping: 5m (16kW, 18kW), 7.5m (20kW), level difference 0m.

3) Sound pressure was acquired in an anechoic room, actual noise level may be different depending on installation conditions.

4) Size wiring and fuse in accordance to local electrical regulation standards. Specifications may be subject to change without prior notice for product improvement.



Samsung Duct S units are enabled with Demand Response Enabled Device (D.R.E.D) circuitry.