

SAMSUNG



**Start a new
era of comfort.**

Samsung's new Ducted split line up – Duct S2



Low running cost

Highly efficient compressor and refrigerant delivering air conditioning helps avoid a hefty bill. A 10kW model boasts AEER of 3.69 and ACOP of 4.10.



R32 Refrigerant

Uses the next generation R32 refrigerant, run your air conditioning with less impact to the environment.* R32 has zero Ozone Depletion Potential (ODP) and a lower Global Warming Potential (GWP) than conventional refrigerants



Designed to help meet Australian conditions

It is designed to keep on working, even on those extremely hot or cold days, with an operating range of -15°C to 50°C outside air temperature for cooling, and -20°C to 24°C for heating, you can be assured that your unit can work when you need it.



Powerful performance for multiple applications

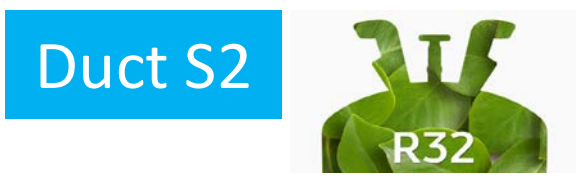
Powerful indoor fan unit that helps enable good air distribution to multiple outlets, distributing air to where you needed it when you need it, maintaining your comfort.



Compact and robust

Low Profile and light weight making it easy to install and maintain. The Duct S indoor unit are slim in designs: 250mm in unit height for 5 to 9kW models and 300mm for 10 to 14kW models.

Preliminary Specification Data



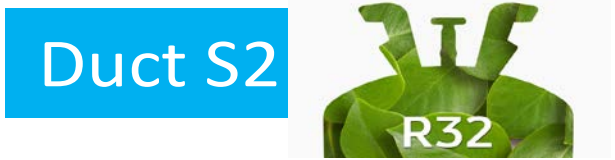
1-phase, 220-240V, 50Hz



Model	Indoor Unit		AC052TNHDKG/SA	AC071TNHDKG/SA	AC090TNHDKG/SA	AC100TNHDKG/SA	AC120TNHDKG/SA	AC140TNHDKG/SA	AC160TNHFKG/SA
	Outdoor Unit		AC052TXAPKG/SA	AC071TXAPKG/SA	AC090TXAPKG/SA	AC100TXAPKG/SA	AC120TXAPKG/SA	AC140TXAPKG/SA	AC160TXAPKG/SA
	Refrigerant		R32	R32	R32	R32	R32	R32	R32
Capacity	Cooling (Min/Std/Max)	kW	1.30 / 5.20 / 6.50	2.00 / 7.10 / 8.00	3.0 / 8.5 / 11.5	4.3 / 10.0 / 12.0	4.5 / 12.0 / 14.0	4.7 / 14.0 / 16.0	6.2 / 16.0 / 18.0
	Heating (Min/Std/Max)	kW	1.20 / 6.00 / 8.00	1.70 / 8.00 / 9.00	2.8 / 10.0 / 15.5	3.6 / 11.2 / 16.0	3.8 / 14.0 / 19.0	4.0 / 16.0 / 19.5	4.8 / 18.0 / 20.0
Efficiency	Energy Grade (Cooling)	EER	3.70	3.21	3.30	3.70	3.40	3.16	3.60
	Energy Grade (Heating)	COP	4.00	4.00	3.70	4.10	3.80	3.50	3.85
	Energy Grade (Cooling)	AEER	3.68	3.21	3.28	3.69	3.44	3.15	3.6
	Energy Grade (Heating)	ACOP	3.99	3.99	3.69	4.09	3.79	3.49	3.84
Electrical	MCA	A	18.8	18.8	26.3	26.7	34.9	35.5	35.1
	MFA	A	20.7	20.7	30	30	40	40	40
Indoor Unit	Power Supply	Φ, #, V, Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz
	Air Flow Rate (H, M, L)	l/s	300 / 233 / 183	400 / 333 / 283	530 / 450 / 370	650 / 550 / 450	720 / 620 / 500	850 / 730 / 600	1120 / 970 / 820
	ESP (L,M,H)	Pa	0 / 39 / 147	0 / 39 / 147	29 / 49 / 147	29 / 49 / 196	29 / 61 / 196	29 / 60 / 196	49 / 61 / 196
	Sound Pressure @ 1.5m (H/L)	dB(A)	35 / 27	36 / 28	42 / 37 / 32	42 / 37 / 32	43 / 38 / 33	45 / 40 / 35	43 / 39 / 35
	Supply Air Opening (WxH)	mm	818 x 220	1168 x 220	1168 x 220	1268 x 270	1268 x 270	1268 x 270	1284 x 360
	Return Air Opening (WxH)	mm	818 x 220	1168 x 220	1168 x 220	1268 x 270	1268 x 270	1268 x 270	1284 x 360
	Net Weight	kg	26.5	34	33.5	43.5	43.5	43.5	75
	Unit Dimensions (WxHxD)	mm	850 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700	1350 x 450 x 850
	Drain connection size	mm	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25
Outdoor Unit	Power Supply	Φ, #, V, Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz
	Type		Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Sound Pressure @ 1m (Cool/Heat)	dB(A)	49 / 49	50 / 52	51 / 53	51 / 53	53 / 55	54 / 56	55 / 57
	Sound Power (Cooling - High)	dB(A)	63	66	68	68	69	70	71
	Net Weight	kg	51	51	75	97.5	100.5	100.5	100.5
	Shipping weight	kg	55	55	80	106.5	109.5	109.5	109.5
	Net Dimensions (WxHxD)	mm	880 x 798 x 310	880 x 798 x 310	940 x 998 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330
	Shipping Dimensions (WxHxD)	mm	1,023 x 896 x 413	1,023 x 896 x 413	995 x 1096 x 426	995 x 1598 x 426	995 x 1598 x 426	995 x 1598 x 426	995 x 1598 x 426
Installation	Liquid Pipe		6.35, 1/4"	6.35, 1/4"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"
	Gas Pipe		15.8, 5/8"	15.8, 5/8"	15.8, 5/8"	15.8, 5/8"	15.8, 5/8"	15.8, 5/8"	15.8, 5/8"
	Max. Allowable Piping Length	m	50	50	50	85	85	85	85
	Max. Allowable Piping Height (outdoor above)	m	30	30	30	30	30	30	30
	Pre-charged Length	m	20	20	30	30	30	30	30
Operating Range	Cooling	°C	-15 to 50	-15 to 50	-15 to 50	-15-50	-15 to 50	-15 to 50	-15 to 50
	Heating	°C	-20 to 24	-20 to 24	-20 to 24	-20-24	-20 to 24	-20 to 24	-20 to 24

* Please note that product images may be different from the actual one, product size varies depending on model.

Preliminary Specification Data



3-phase, 380-415V, 50Hz



Model	Indoor Unit		AC100TNHDKG/SA	AC120TNHDKG/SA	AC140TNHDKG/SA	AC160TNHFKG/SA	AC180JNHFKH/SA	AC200JNHFKH/SA
	Outdoor Unit		AC100TXAPNG/SA	AC120TXAPNG/SA	AC140TXAPNG/SA	AC160TXAPNG/SA	AC180JXAFNH/SA	AC200JXAFNH/SA
Capacity	Refrigerant		R32	R32	R32	R32	R410A	R410A
Capacity	Cooling (Min/Std/Max)	kW	4.3 / 10.0 / 12.0	4.5 / 12.0 / 14.0	4.7 / 14.0 / 16.0	6.2 / 16.0 / 18.0	6.0 / 18.0 / 20.0	6.2 / 20.0 / 22.5
	Heating (Min/Std/Max)	kW	3.6 / 11.2 / 16.0	3.8 / 14.0 / 19.0	4.0 / 16.0 / 19.5	4.8 / 18.0 / 20.0	4.8 / 20.0 / 22.5	5.0 / 22.5 / 25.0
Efficiency	Energy Grade (Cooling)	EER	3.70	3.40	3.16	3.60	3.40	3.30
	Energy Grade (Heating)	COP	4.10	3.80	3.50	3.85	3.70	3.70
	Energy Grade (Cooling)	AEER	3.69	3.44	3.15	3.6	NA	NA
	Energy Grade (Heating)	ACOP	4.09	3.79	3.49	3.84	NA	NA
Electrical	MCA	A	18.8	19	19.6	19.2	18.6	25
	MFA	A	18.8	19	19.6	19.2	20.5	31.25
Indoor Unit	Power Supply	Φ, #, V, Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz	1-phase, 220-240V, 50Hz
	Air Flow Rate (H, M, L)	l/s	650 / 550 / 450	720 / 620 / 500	850 / 730 / 600	1120 / 970 / 820	1183 / 1000 / 833	1200 / 1016 / 850
	ESP (L,M,H)	Pa	29 / 49 / 196	29 / 61 / 196	29 / 60 / 196	49 / 61 / 196	49 / 60 / 196	49 / 72 / 196
	Sound Pressure @ 1.5m (H/L)	dB(A)	42 / 37 / 32	43 / 38 / 33	45 / 40 / 35	43 / 39 / 35	43 / 39 / 35	44 / 40 / 36
	Supply Air Opening (WxH)	mm	1268 x 270	1268 x 270	1268 x 270	1284 x 360	1284 x 360	1284 x 360
	Return Air Opening (WxH)	mm	1268 x 270	1268 x 270	1268 x 270	1284 x 360	1284 x 360	1284 x 360
	Net Weight	kg	43.5	43.5	43.5	75	82.5	82.5
	Unit Dimensions (WxHxD)	mm	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700	1350 x 450 x 850	1,350 x 450 x 910	1,350 x 450 x 910
	Drain connection size	mm	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25	OD 32 / ID 25
	Power Supply	Φ, #, V, Hz	3 -phase, 380-415V, 50Hz	3 -phase, 380-415V, 50Hz	3 -phase, 380-415V, 50Hz	3 -phase, 380-415V, 50Hz	3 -phase, 380-415V, 50Hz	3 -phase, 380-415V, 50Hz
Outdoor Unit	Type		Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	BLDC Scroll
	Sound Pressure @ 1m (Cool/Heat)	dB(A)	51 / 53	53 / 55	54 / 56	55 / 57	55 / 57	57 / 59
	Sound Power (Cooling - High)	dB(A)	68	69	70	71	-	-
	Net Weight	kg	97.5	99.5	99.5	99.5	107.5	190
	Shipping weight	kg	106.5	108.5	108.5	108.5	117.56	195
	Net Dimensions (WxHxD)	mm	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1,420 x 330	880 x 1,695 x 765
	Shipping Dimensions (WxHxD)	mm	995 x 1598 x 426	995 x 1598 x 426	995 x 1598 x 426	995 x 1598 x 426	995 x 1,598 x 426	948 x 1,887 x 832
Installation	Liquid Pipe		9.52, 3/8"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"
	Gas Pipe		15.8, 5/8"	15.8, 5/8"	15.8, 5/8"	15.8, 5/8"	19.05, 3/4"	19.05, 3/4"
	Max. Allowable Piping Length	m	85	85	85	85	75	150
	Max. Allowable Piping Height (outdoor above)	m	30	30	30	30	30	50
	Pre-charged Length	m	30	30	30	30	30	30
Operating Range	Cooling	°C	-15~50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50
	Heating	°C	-20~24	-20 to 24	-20 to 24	-20 to 24	-20 to 24	-20 to 24

* Please note that product images may be different from the actual one, product size varies depending on model.

1. Specification may be subject to change without prior notice
2. Performances are based on the following test conditions:
Cooling: Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
Heating: Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
Equivalent refrigerant pipe length 5m, 7.5m (20kW), Level differences 0m
- 2) Select wire size based on the value of MCA and in accordance of local electrical regulation standards.
- 3) Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level. Reference acoustic pressure 0 dB = 20uPa
- 4) Sound power level is an absolute value that a sound source generates.
dBA = A-weighted sound power level. Reference power: 1pW. Measured according to ISO 3741.