

# DUCT S2

3-phase, 380-415V, 50Hz



Model Name System	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
	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
Outdoor Unit	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
	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 indoor)	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

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  
 3. Select wire size based on the value of MCA and in accordance of local electrical regulation standards.

4. 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  
 5. 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.

• Please note that product images may be different from the actual one, product size varies depending on model  
 • 18kW and 20kW model uses R410A refrigerant