

TECHNICAL DATA SHEET

MODEL NUMBER		P012AHC3SA-L/R/	P015AHC3SA-L/R/	P018AHC3SA-L/R/	P020AHC3SA-L/R/	P023AHC3SA-L/R/	
		S	S	S	S	S	
OUTDOOR SECTION	CAPACITY						
	Cooling	kW TOTAL*	12.57	15.54	17.43	20.53	22.89
		kW SENSIBLE*	9.70	12.09	13.58	15.99	18.20
		EER (kW / ikW)*	3.59	3.70	3.49	3.60	3.32
	CAPACITY STEPS (%)		0/100	0/100	0/100	0/100	0/100
	COMPRESSOR						
	TYPE		SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
	STARTER TYPE		D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		1	1	1	1	1
	PROTECTION DEVICES		HP SWITCH, LP SWITCH, INTERNAL THERMAL CUTOUT				
	ALL COMPRESSORS HAVE		SUMP HEATER				
	FAN						
	TYPE		AXIAL	AXIAL	AXIAL	AXIAL	AXIAL
	ikW (MAX INPUT)		0.19	0.19	0.19	0.27	0.27
	PHASE		1Ø	1Ø	1Ø	1Ø	1Ø
	No. OFF		2	2	2	2	2
	FAN SPEED CONTROL		2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR
	HEAT EXCHANGER						
	TYPE		ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL
	NOM. AIRFLOW l/s		-	-	-	-	-
	REFRIGERANT SYSTEM						
	TYPE		R410A				
	CHARGE PER CIRCUIT (KG)		3.95	5.30	5.70	7.30	6.80
	No. OF CIRCUITS		1	1	1	1	1
	REFRIGERANT CONTROL		TXV				
INDOOR SECTION	FAN						
	TYPE		EC PLUG	EC PLUG	EC PLUG	EC PLUG	EC PLUG
	ikW (MAX INPUT)		1.7	1.7	1.7	1.7	1.7
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		1	1	1	1	1
	FAN SPEED CONTROL		VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED
	HEAT EXCHANGER						
	TYPE		ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL
	NOM. AIRFLOW l/s		625	800	890	1040	1190
	EXT STATIC pa		100 (ALL FANS ARE HIGH STATIC FANS. REFER TO FAN CURVES.)				
COMBINED SECTIONS	ELECTRICAL						
	MAINS POWER		415v / 3Ø / 50hz	415v / 3Ø / 50hz	415v / 3Ø / 50hz	415v / 3Ø / 50hz	415v / 3Ø / 50hz
	H.P. CUT OUT / IN kPa		4500 / 3450	4500 / 3450	4500 / 3450	4500 / 3450	4500 / 3450
	L.P. CUT OUT / IN kPa		175 / 345	175 / 345	175 / 345	175 / 345	175 / 345
	NOM. R.L.A. (TOTAL SYSTEM)		6.8	8.1	9.8	10.4	11.4
	MAX. F.L.A. (TOTAL SYSTEM)		12.3	14.6	16.1	20.0	20.0
	GENERAL						
	CABINET		GALVANISED SHEET STEEL				
	INSULATION		25MM ALUMINIUM FOIL FACED POLYETHYLENE ACOUSTIC INSULATION				
	EXTERNAL FINISH		POLYESTER POWDER COAT - RAL 7035 LIGHT GREY AS STANDARD				
	DIMENSIONS						
	H X W X D (mm)		1091 X 1352 X 1276			1261 X 1527 X 1426	
	WEIGHT						
	OPERATING KG		228	244	251	307	308
	SHIPPING KG		278	294	301	348	349
	NOISE LEVELS [Based on condenser fan's sound data]						
Sound Power db(A)		61.7	61.7	61.7	66.6	66.6	

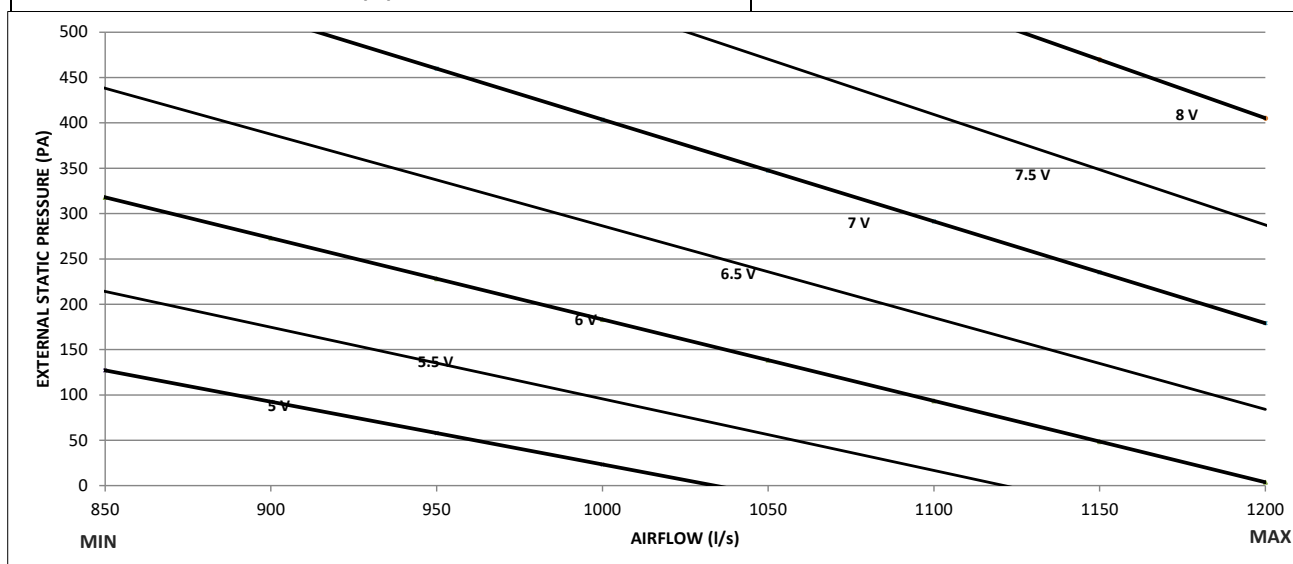
Note: Rated in accordance with AHRI 210/240 or 340/360
 Performance excludes ikW of indoor fan motor
 R.L.A - Run Load Amps are based on current drawn at nominal conditions
 F.L.A - Full Load Amps are based on the overload settings [Max Current] of all Compressor and Fan Motor(s)

Date	Document #	Approved By	Revision
22/12/23	TDS000542	CM	A

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.

FAN PERFORMANCE DATA

P020AHR(C)3SA-L/R-S



Note:

1. 5V, 5.5V, 6V, 6.5V, 7V, 7.5V and 8V represents potentiometer voltage. Potentiometer can be adjusted to achieve desired flowrates.
2. Potentiometer voltage can be varied infinitely between 0 to 10V.

Date	Document #	Approved By	Revision
30/1/23	FPD000478	CM	A

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.

SOUND DATA TABLE

MODEL NUMBER	P020AHR(C)3SA-L/R-S
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Outdoor Fan

Sound Power Level dB(A)	Octave band Centre Frequency (Hz), dB						
	125	250	500	1k	2k	4k	8k
66.6	76.7	62.2	57.1	58.7	60.9	57	47.7

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
80.8	1140	62.6	69.6	72.9	76.5	73.7	72.7	71.5

Date	Document #	Approved By	Revision
15/11/21	SDT000483	CM	A

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.