

TECHNICAL DATA SHEET

MODEL NUMBER		P027AHC3SA-L/R/S	P032AHC3SA-L/R/S	P036AHC3SA-L/R/S	P042AHC3SA-L/R/S	P046AHC3SA-L/R/S	
CONDENSER SECTION	CAPACITY						
	Cooling	kW TOTAL*	28.65	33.25	39.42	45.97	47.18
		kW SENSIBLE*	21.60	25.88	29.76	33.69	35.97
		EER (kW / ikW)*	3.34	3.22	3.23	3.23	3.04
	CAPACITY STEPS (%)		0/100	0/100	0/50/100	0/50/100	0/50/100
	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)		0.39	0.39	0.39	0.39	0.39
	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)		5.75	6.75	9.5	11	10.8	
No. OF CIRCUITS		1	1	1	1	1	
REFRIGERANT CONTROL		TXV					
EVAPORATOR SECTION	FAN						
	TYPE		EC PLUG	EC PLUG	EC PLUG	EC PLUG	EC PLUG
	ikW (MAX INPUT)		1.32	1.32	1.32	3.35	3.35
	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		1450	1775	1875	2200	2470
EXT STATIC pa		100					
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)		18.39	21.50	23.56	26.83	30.70
	MAX. F.L.A. (TOTAL SYSTEM)		28.62	27.26	35.66	38.76	41.16
	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)		1440 X 1797 X 1682	1643 X 1797 X 1682		1846 X 1797 X 1682	
	WEIGHT						
	OPERATING KG		392	423	510	537	539
	SHIPPING KG		452	486	577	604	606
	NOISE LEVELS [Based on condenser fan's sound data]						
Sound Power db(A)		67.1	67.5	66.9	67.2	67.2	

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)

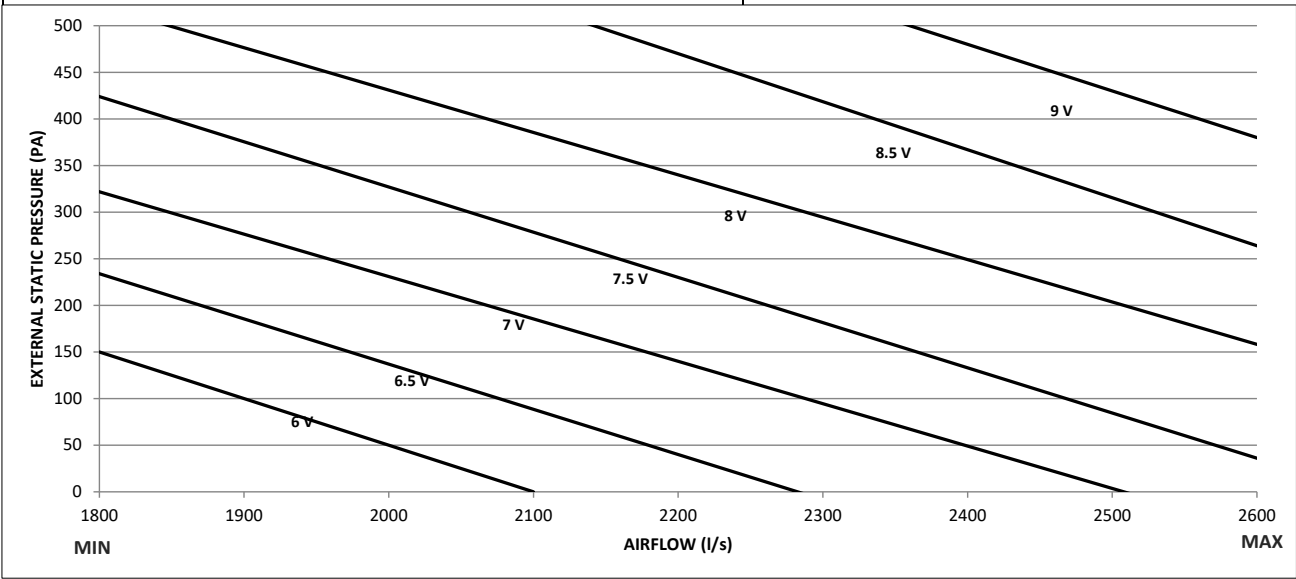
Date	Document #	Approved By	Revision
20/12/22	TDS001155	CM	A

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



FAN PERFORMANCE DATA

P042-043AHR(C)3SA-L/R-S



- Note:
- 4V, 4.5V, 5V,5.5V, 6V, 6.5 V and 7V represents potentiometer voltage. Potentionr adjusted to achieve desired flowrates.
 - Potentiometer voltage can be varied infinitely between 0 to 10V.

Date	Document #	Approved By	Revision
4/2/22	FPD000576	CM	A

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

SOUND DATA TABLE

MODEL NUMBER

P042-043AHR(C)3SA-L/R-S

Outdoor Fan

Sound Power Level dB(A)	Octave band Centre Frequency (hz), dB						
	125	250	500	1k	2k	4k	8k
67.2	73.3	62.6	62.7	62.6	60.2	54.1	50.4

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (hz), dB						
		125	250	500	1k	2k	4k	8k
81.6	2200	74.1	71.5	73.2	73.8	76.7	75.4	63.9

Date	Document #	Approved By	Revision
27/1/23	SDT000582	CM	A

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