

TECHNICAL DATA SHEET

MODEL NUMBER			P054AHC3SA-L/R-S	P064AHC3SA-L/R-S	P072AHC3SA-L/R-S	P084AHC3SA-L/R-S	P092AHC3SA-L/R-S
CONDENSER SECTION	CAPACITY						
	Cooling	kW TOTAL*	56.10	63.50	75.50	84.10	94.10
		kW SENSIBLE*	43.76	51.44	58.89	66.44	74.34
		EER (kW / ikW)*	3.24	3.31	3.58	3.49	3.16
	CAPACITY STEPS (%)		0/50/100	0/50/100	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		2	2	2	2	2
	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		4	4	4	4	4
	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		2	2	2	2	2	
REFRIGERANT CONTROL		TXV					
EVAPORATOR SECTION	FAN						
	TYPE		EC PLUG	EC PLUG	EC PLUG	EC PLUG	EC PLUG
	ikW (MAX INPUT)		3.35	1.32	1.32	3.35	3.35
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		1	2	2	2	2
	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		2880	3550	3750	4400	4930	
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)		36.87	42.18	43.90	48.02	60.60
	MAX. F.L.A. (TOTAL SYSTEM)		48.72	54.52	61.32	79.52	85.52
	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)		1625 X 2300 X 2450	1828 X 2300 X 2450		2031 X 2300 X 2450	
	WEIGHT						
	OPERATING KG		714	816	860	995	995
	SHIPPING KG		794	896	940	1075	1078
	NOISE LEVELS [Based on condenser fan's sound data]						
	Sound Power db(A)		66.8	70.3	69.5	70	70

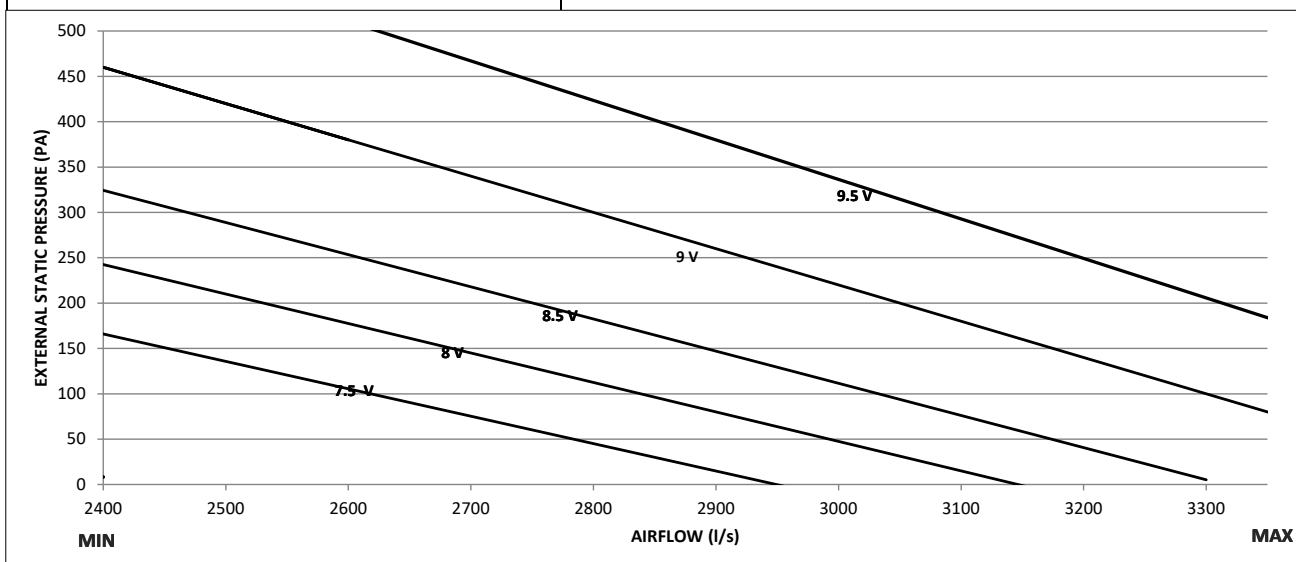
Note: Rated in accordance with AHRI 210/240 or 340/360
Performance excludes ikW of indoor fan motor
R.L.A - Run Load Amps are based on current drawn at nominal conditions
F.L.A - Full Load Amps are based on the overload settings [Max Current] of all Compressor and Fan Motor(s)

Date	Document #	Approved By	Revision
26/5/23	TDS001397	AY	B

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

FAN PERFORMANCE CURVE

P054-055AHR(C)3SA-L-S



Note:

- 7.5V, 8V, 8.5V, 9V and 9.5V represents potentiometer voltage. Potentiometer can be adjusted to achieve desired flowrates.
- Potentiometer voltage can be varied infinitely between 0 to 10V.

Date	Document #	Approved By	Revision
18/5/23	FPD001339	CM	A

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

SOUND DATA TABLE

MODEL NUMBER

P054-055AHR(C)3SA-L/R-S

Outdoor Fan

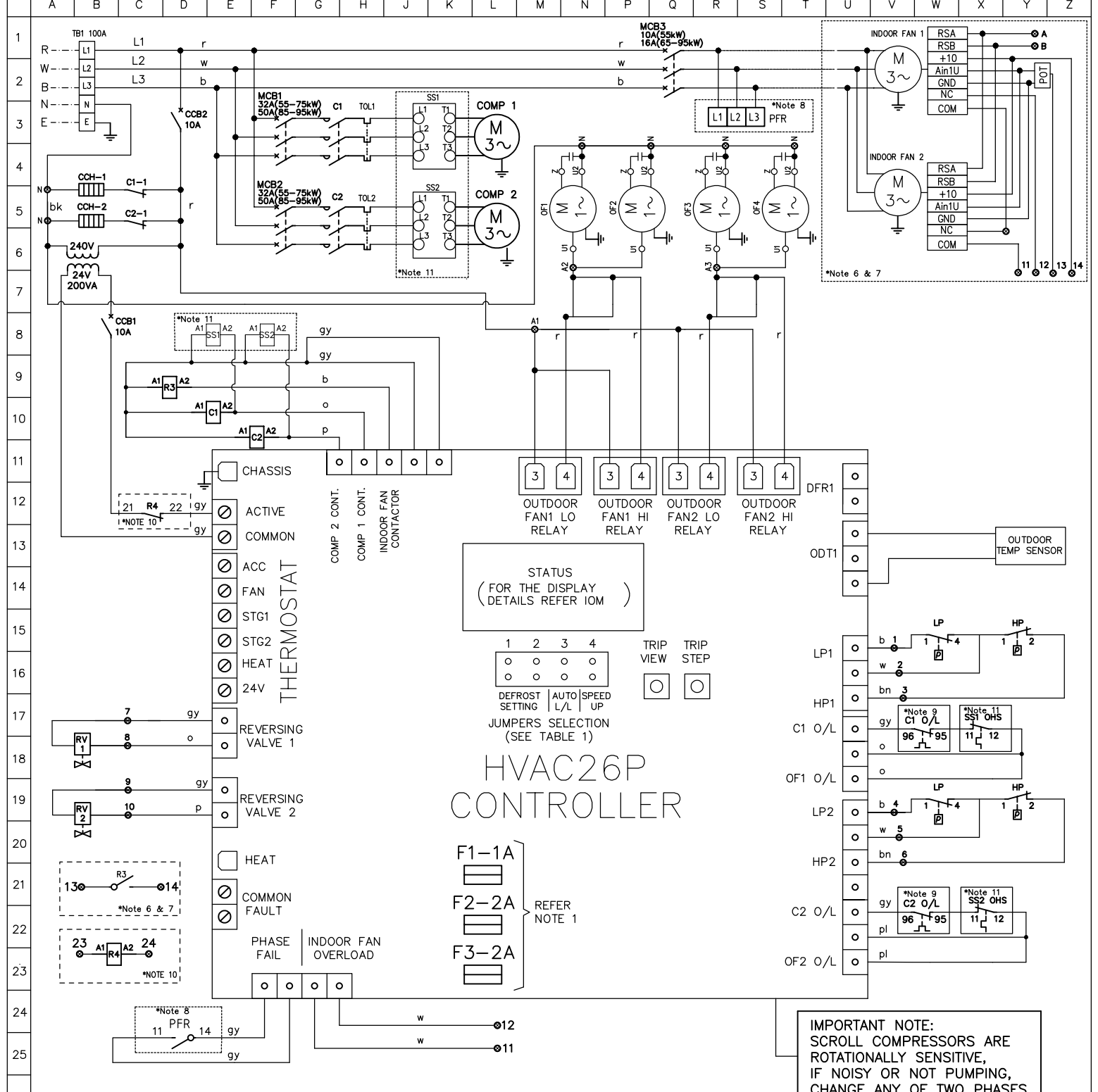
Sound Power Level dB(A)	Octave band Centre Frequency (hz), dB						
	125	250	500	1k	2k	4k	8k
66.8	74.8	65.1	65.2	65.2	62.9	56.5	53.1

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (hz), dB						
		125	250	500	1k	2k	4k	8k
89.1	2880	82	82.7	85.8	85.4	81.3	76.6	71.8

Date	Document #	Approved By	Revision
2/5/23	SDT001265	CM	A

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WARNING! THE SOFTWARE OF THE HVAC26A CONTROLLER IS NOT DESIGNED TO FUNCTION AS A PRIMARY PERSONAL SAFETY DEVICE AS CONNECTED EQUIPMENT CAN START AUTOMATICALLY WITHOUT WARNING. ALSO OPENING THE THERMOSTAT CONTACTS MAY NOT CAUSE THE EQUIPMENT TO STOP. OUTDOOR FAN MOTORS HAVE INTERNAL OVERLOADS AND MAY RESTART AUTOMATICALLY.

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NOTES:

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1. TIME DELAY GLASS FUSES ON THE PCB CONTROLLER ARE THE FOLLOWING:
-F1 PROTECTS THE THERMOSTAT CIRCUIT
-F2 PROTECTS THE REVERSING VALVE CIRCUITS AND THE "HEAT" OUTPUT. THIS FUSE F2 ALSO SUPPLIES FUSE F1.
-F3 PROTECTS BOTH COMPRESSOR CONTACTOR CIRCUITS AND THE INDOOR FAN CONTACTOR CIRCUIT.
-THERMAL OVERLOAD RELAY ARE MANUAL RESET. HP AND LP SWITCHES ARE AUTO RESET, UNLESS OTHERWISE STATED.
3. DO NOT CONNECT ADDITIONAL EQUIPMENT ON THE CONTROL TRANSFORMER OTHER THEN THE EQUIPMENT SHOWN ON THE ELECTRICAL DRAWING.
4. ALL FIELD WIRING IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND MUST COMPLY WITH AS/NZS 3000 AND LOCAL WIRING RULES.
5. SOFTWARE CODE MUST BE CHECKED AFTER REPLACEMENT OF THE HVAC26A CONTROLLER BY CHECKING THE LCD DISPLAY AFTER THE CONTROLLER IS ACTIVATED.
6. FOR SPLIT SYSTEMS, OTHERS TO INSTALL ISOLATOR AND FIELD WIRING FOR THE INDOOR UNIT.
7. FOR PACKAGE SYSTEMS, THE WIRING FOR THE INDOOR FAN WILL BE FACTORY FITTED TO TERMINALS 13 & 14.
8. OPTIONAL PHASE MONITORING RELAY (PFR). JUMPER SHORT IF NOT SELECTED.
9. OPTIONAL FIRE ALARM RELAY. JUMPER SHORT IF NOT SELECTED.
10. OPTIONAL COMPRESSOR SOFT STARTER. SS OHS JUMPER SHORT IF NOT SELECTED.

C	K10400	ADD LABELLING, REMOVE R1&R2	21/04/2026
B	K10387	REPLACE YELLOW WIRE WITH ORANGE	06/10/2025
A		FIRST RELEASE	15/08/2023
REV	PCN	DESCRIPTION	DATE

NO	MODEL	COMPRESSOR			OD FAN		ID FAN	
		kW	FLA	O/L	kW	FLA	kW	FLA
1	P054AHC3SA-L-S/S0540VC3SA-S-IHC3SA	14.36	21.00	23.10	1.56	7.12	3.35	5.20
2	P064AHC3SA-L-S/S0640VC3SA-S-IHC3SA	17.18	22.00	24.20	1.56	7.12	2.64	4.20
3	P072AHC3SA-L-S/S0720VC3SA-S-IHC3SA	18.56	25.00	27.50	1.56	7.12	2.64	4.20
4	P084AHC3SA-L-S/S0840VC3SA-S-IHC3SA	21.36	31.00	34.10	1.56	7.12	6.70	10.40
5	P092AHC3SA-L-S/S0920VC3SA-S-IHC3SA	26.09	34.00	37.40	1.56	7.12	6.70	10.40