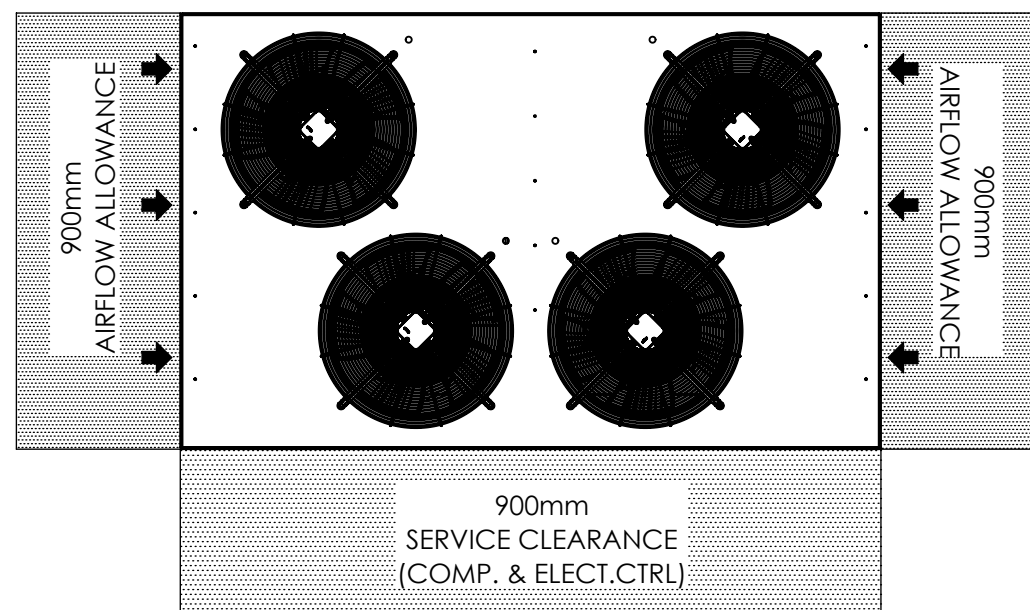
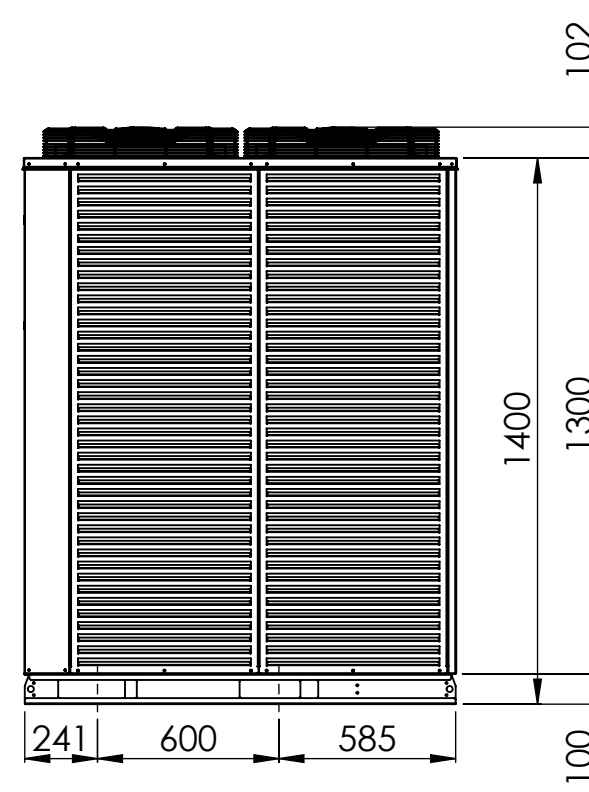


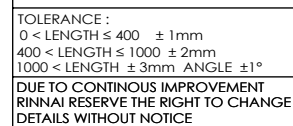


MINIMUM SERVICE ACCESS AREAS & AIRFLOW CLEARANCES



SIDE VIEW

1. OVERALL NOMINAL DIMENSION
1502(H) x 2300(W) x 1425(L).
2. UNIT BASE 4 X Ø 16 FIXING POINTS.
3. MINIMUM SERVICE AREAS ARE
RESPONSIBILITIES OF THE INSTALLER.



NOTE :	LENGTHS IN MILLIMETRES AND ANGLES IN DEGREES UNLESS SPECIFIED OTHERWISE.
	THIS DRAWING IS THE PROPERTY OF APAC. ANY UNAUTHORISED USE IS FORBIDDEN.

						DESCRIPTION : GENERAL ARRANGEMENT, S055OVR3SA-L-S, S0540VC3SA-L-S			DRAWING No. : GAD001288		REV : A
						MATERIAL : -	THICKNESS : -	FINISH : -			
A	FIRST ISSUE		ARM	11/05/23		DRAWN BY :	DRAWN DATE :	APPROVED BY :	SCALE : N.T.S		
REV	DESCRIPTION	PCN	BY	DATE	ZONE	ARM	11/05/23	CM	SHEET : 1 OF 1	 THIRD ANGLE PROJECTION	A3

TECHNICAL DATA SHEET

MODEL NUMBER		Indoor	S054IHC3SA-F-S	S064IHC3SA-F-S	S072IHC3SA-F-S	S084IHC3SA-F-S	S092IHC3SA-F-S
		Outdoor	S054OVC3SA-H-S	S064OVC3SA-H-S	S072OVC3SA-H-S	S084OVC3SA-H-S	S092OVC3SA-H-S
OUTDOOR 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				
	FACTORY CHARGE PER CIRCUIT (KG)		5.75	6.75	9.5	11	10.8
	No. OF CIRCUITS		2	2	2	2	2
	REFRIGERANT CONTROL		TXV				
	DIMENSIONS						
	H X W X D (mm)		1625 x 2300 x 1540	1828 x 2300 x 1540		2031 x 2300 x 1540	
	WEIGHT						
	OPERATING KG		527	612	647	738	740
	SHIPPING KG		577	662	697	788	790
	ELECTRICAL						
	POWER SUPPLY		415v / 3Φ / 50hz				
	FLA / RLA (Amps)		43.5 / 34.1	50.3 / 39.3	57.1 / 41	69.1 / 44.7	75.1 / 56.8
INDOOR 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				
	DIMENSIONS						
	H X W X D (mm)		1523 x 2076 x 1218	1728 x 2076 x 1218		1928 x 2076 x 1218	
	WEIGHT						
	OPERATING KG		290	340	340	461	461
	SHIPPING KG		295	345	345	466	466
	ELECTRICAL						
	POWER SUPPLY		415v / 3Φ / 50hz				
	FLA / RLA (Amps)		5.2 / 2.7	4.2 / 2.9	4.2 / 2.9	10.4 / 3.4	10.4 / 3.8
COMBINED SECTIONS	ELECTRICAL						
	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 - COLOUR LIGHT GREY AS STANDARD - OPTIONS AVAILABLE				
	INDOOR AND OUTDOOR PIPE CONNECTION						
	LIQUID mm (inch)		12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")
	GAS mm (inch)		28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")
	ADDITIONAL REFRIGERATION CHARGE AND FIELD PIPING CONNECTIONS						
	REFER TO INSTALLATION AND OPERATION MANUAL						
NOISE LEVELS [Based on condenser fan's sound data]							
SOUND POWER db(A)		66.8	70.3	69.5	70	70	

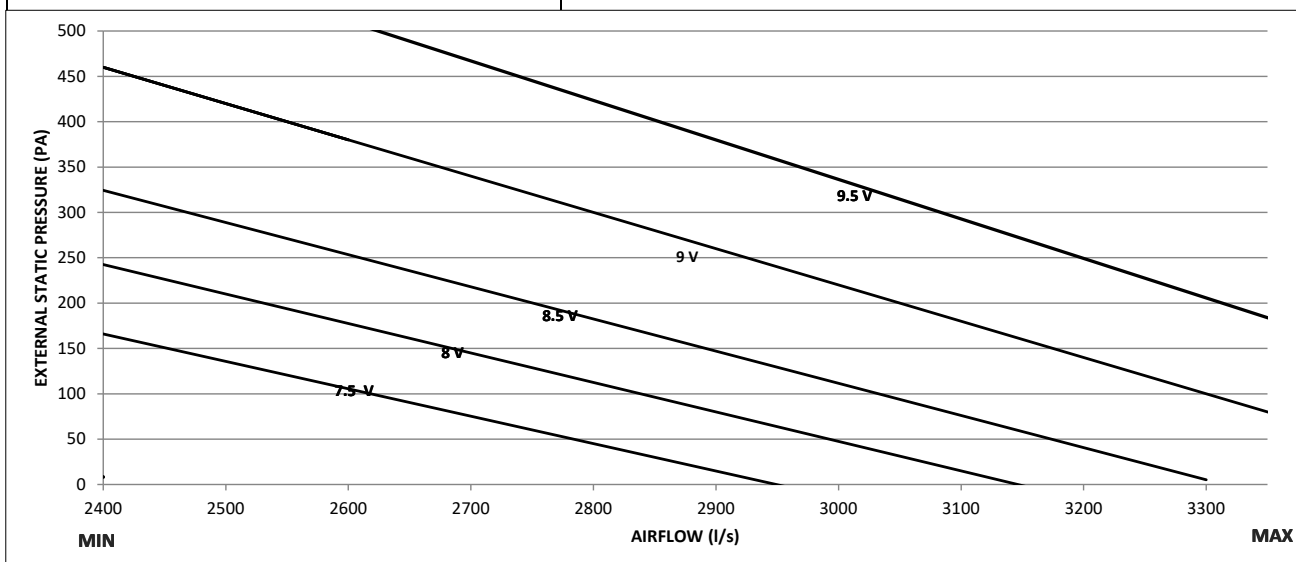
Note: Rated in accordance with AHRI 210/240 or 340/360
Performance excludes ikW of indoor fan motor
R.L.A - Run Load Amps are based on current drawn at nominal conditions
F.L.A - Full Load Amps are based on the overload settings [Max Current] of all Compressor and Fan Motor(s)

Date	Document #	Approved By	Revision
26/3/23	TDS001398	AY	B

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

FAN PERFORMANCE CURVE

S054-055IHR(C)3SA-F-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	FPD001344	CM	A

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



**HIGH EFFICIENCY
SPLIT OUTDOOR / INDOOR HORIZONTAL
R410A REFRIGERANT**

SOUND DATA TABLE

MODEL NUMBER

S054-055OVR(C)3SA-H-S / S054-055IHR(C)3SA-F-S

Outdoor Fan

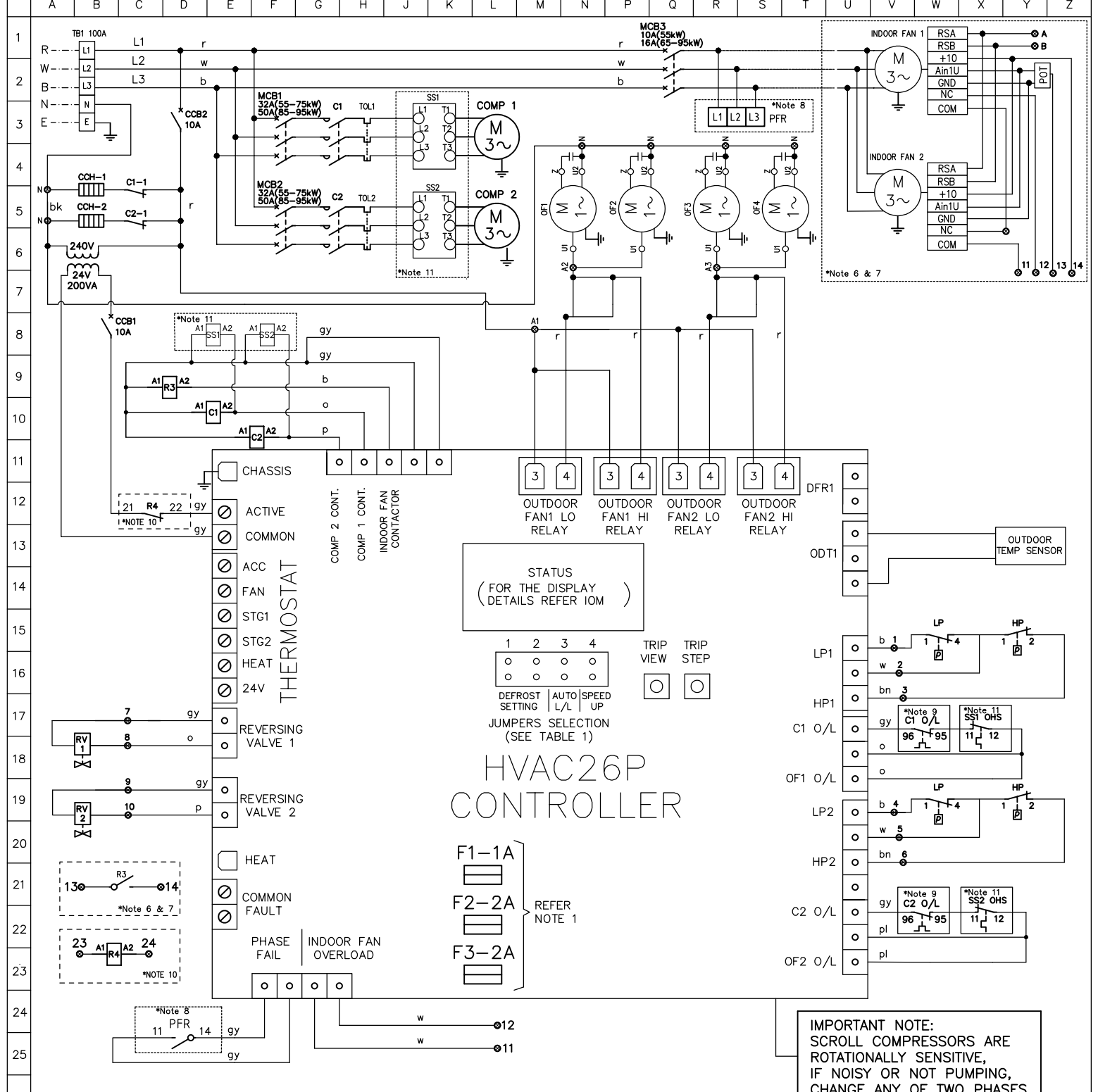
Sound Power Level dB(A)	Octave band Centre Frequency (hz), dB						
	125	250	500	1k	2k	4k	8k
66.8	74.8	65.1	65.2	65.2	62.9	56.5	53.1

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
16/5/23	SDT001326	CM	A

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



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.

29

30

31

32

NOTES:

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.

2. 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

TABLE 1						LEGEND		LEGEND		COLOUR CODE		TYPE: 4-S			
JUMPERS SELECTION	DEFROST INTERVAL TIME SETTING	JUMPERS SELECTION	AUTO LEAD/LAG	JUMPERS SELECTION	SPEED UP	○	TERMINAL SWITCHBOARD TERMINAL	R	RELAY CONTACTOR	r	RED	OPTIONS			
						⊗	FIELD WIRING	C	OUTDOOR FAN COMPRESSOR	w	WHITE	REF	DESCRIPTION		
33		15 min		OFF		OFF	-----	CONTROL PARAMETER MAINS/CONTROL WIRING	ISO	MINIATURE CIRCUIT BREAKER	bk	BLACK	A	STANDARD	
34		FACTORY SETTING 30 min		OFF		OFF	-----	CRANK CASE HEATER	MCB	BREAKER	bn	BROWN	B	SOFT STARTER	
35		30 min		ON		ON	-----	PHASE FAILURE RELAY	CCB	BREAKER	o	ORANGE			
36		45 min		ON		ON	-----	REVERSING VALVE	O/L	OVERLOAD	p	PINK			
UNIT MUST BE SWITCHED OFF BEFORE CHANGING THE JUMPER SELECTION						-----	HIGH PRESSURE SWITCH	POT	POTENTIOMETER	pl	PURPLE				
						-----	LOW PRESSURE SWITCH	LSC	CAPACITOR	gy	GREY				
						-----	THERMAL OVERLOAD	RES	RESISTOR	yell	YELLOW				