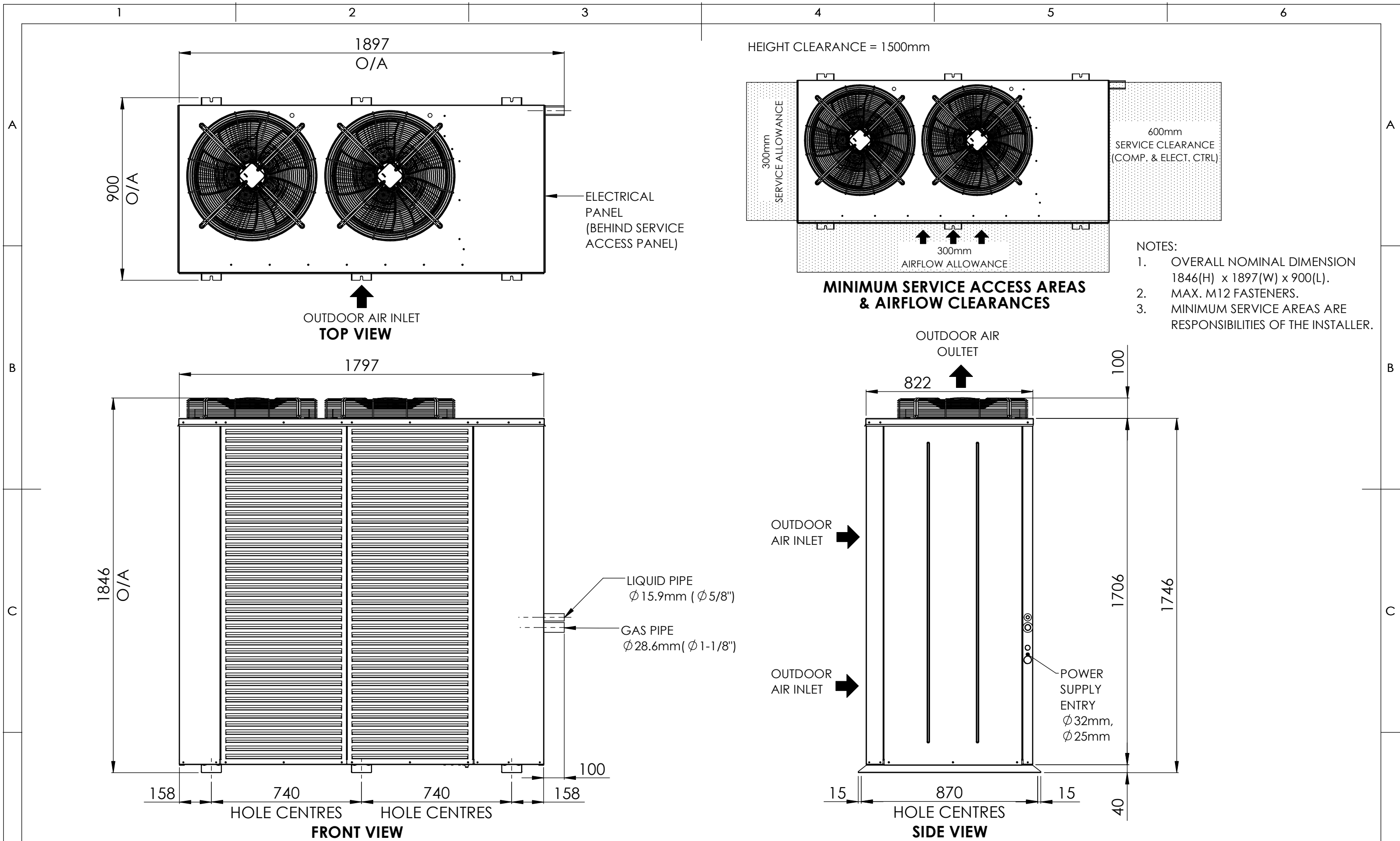




D								DESCRIPTION : GENERAL ARRANGEMENT, S043-048OVR3SA-L-S, S042-046OVC3SA-L-S			DRAWING No. : GAD000826		REV : A		D
	TOLERANCE : 0 < LENGTH ≤ 400 ± 1mm 400 < LENGTH ≤ 1000 ± 2mm 1000 < LENGTH ≤ 3mm ANGLE ±1°		NOTE : LENGTHS IN MILLIMETRES AND ANGLES IN DEGREES UNLESS SPECIFIED OTHERWISE.								MATERIAL : -	THICKNESS : -	FINISH : -		
	A	FIRST ISSUE					RZL	19/07/22		DRAWN BY : RZL	DRAWN DATE : 19/07/22	APPROVED BY : CM	SCALE : N.T.S		
	REV	DESCRIPTION				PCN	BY	DATE	ZONE				SHEET : 1 OF 1	 THIRD ANGLE PROJECTION	

TECHNICAL DATA SHEET

TECHNICAL DATA SHEET							
MODEL NUMBER		Indoor	S0271ILC3SA-F-S	S0321ILC3SA-F-S	S0361ILC3SA-F-S	S0421ILC3SA-F-S	S0461ILC3SA-F-S
		Outdoor	S0270VC3SA-L-S	S0320VC3SA-L-S	S0360VC3SA-L-S	S0420VC3SA-L-S	S0460VC3SA-L-S
OUTDOOR SECTION	CAPACITY						
	Cooling	kW TOTAL*	28.65	34.40	39.42	45.97	47.18
		kW SENSIBLE*	21.60	26.83	29.76	33.69	35.97
		EER (kW / ikW)*	3.34	3.37	3.23	3.23	3.04
	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)		0.39	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				
	FACTORY CHARGE PER CIRCUIT (KG)		5.75	6.75	9.5	11	10.8
	No. OF CIRCUITS		1	1	1	1	1
	REFRIGERANT CONTROL		TXV				
	DIMENSIONS						
	H X W X D (mm)		1563 x 980 x 2000	1766 x 980 x 2000		1969 x 980 x 2000	
	WEIGHT						
	OPERATING KG		238	256	282	314	316
	SHIPPING KG		282	300	320	358	360
	ELECTRICAL						
	POWER SUPPLY		415v / 3Ø / 50hz				
	FLA / RLA (Amps)		21.8 / 17.4	25.2 / 20.2	28.6 / 19.9	34.6 / 22.2	37.6 / 28.3
INDOOR SECTION	FAN						
	TYPE		EC PLUG	EC PLUG	EC PLUG	EC PLUG	EC PLUG
	ikW (MAX INPUT)		1.1	1.1	1.1	1.1	1.32
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		2	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		1450	1775	1875	2200	2470
	EXT STATIC pa		100				
	DIMENSIONS						
	H X W X D (mm)		834 x 1010 x 1520	834 x 1010 x 1700		834 x 1010 x 2400	
	WEIGHT						
	OPERATING KG		117	133	133	160	160
	SHIPPING KG		148	166	166	210	210
	ELECTRICAL						
	POWER SUPPLY		415v / 3Ø / 50hz				
	FLA / RLA (Amps)		3.4 / 1.1	3.4 / 1.5	3.4 / 1.5	3.4 / 1.9	4.2 / 2.3
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)		18.46	21.65	21.35	24.16	30.63
	MAX. F.L.A. (TOTAL SYSTEM)		25.16	28.56	31.96	37.96	41.76
	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)		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

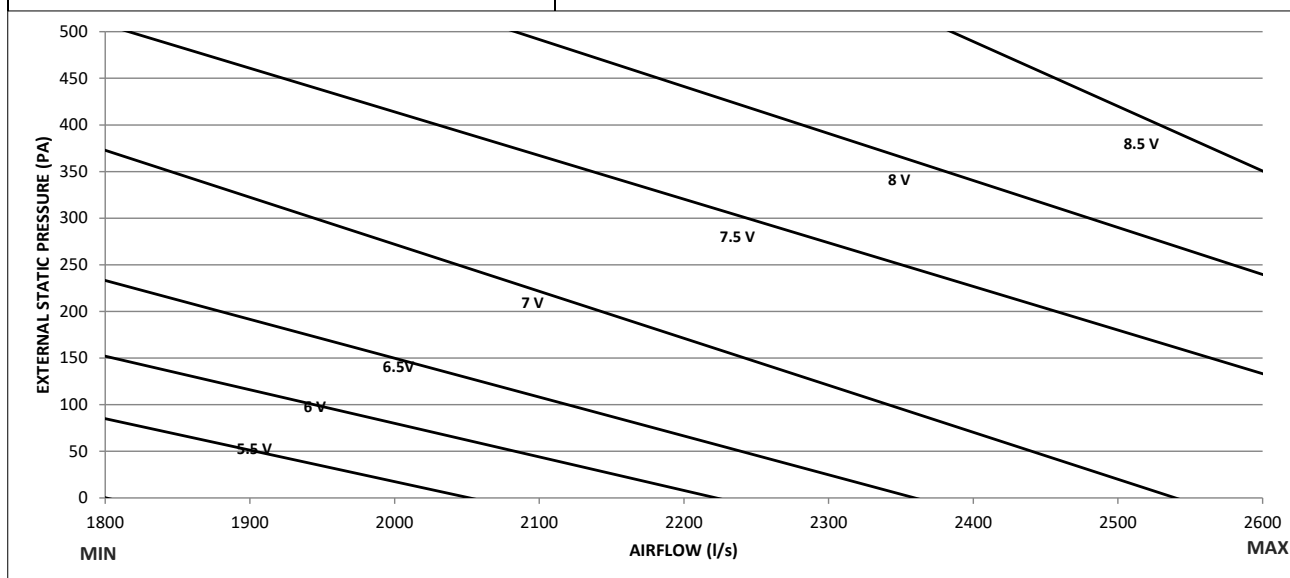
F.L.A - Full Load Amps are based on the overload settings [Max Current] of all Compressor and Fan Motor(s)

Date	Document #	Approved By	Revision
30/1/23	TDS001177	AY	B

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

FAN PERFORMANCE CURVE

S042-043ILR(C)3SA-F-S



Note:

1. 4V, 4.5V, 5V, 5.5V, 6V, 6.5 V, 7V and 7.5 V 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
17/5/23	FPD001300	CM	A

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



**HIGH EFFICIENCY
SPLIT OUTDOOR / INDOOR LOW PROFILE
R410A REFRIGERANT**

SOUND DATA TABLE

MODEL NUMBER

S042-043OVR(C)3SA-L-S / S042-043ILR(C)3SA-F-S

Outdoor Fan

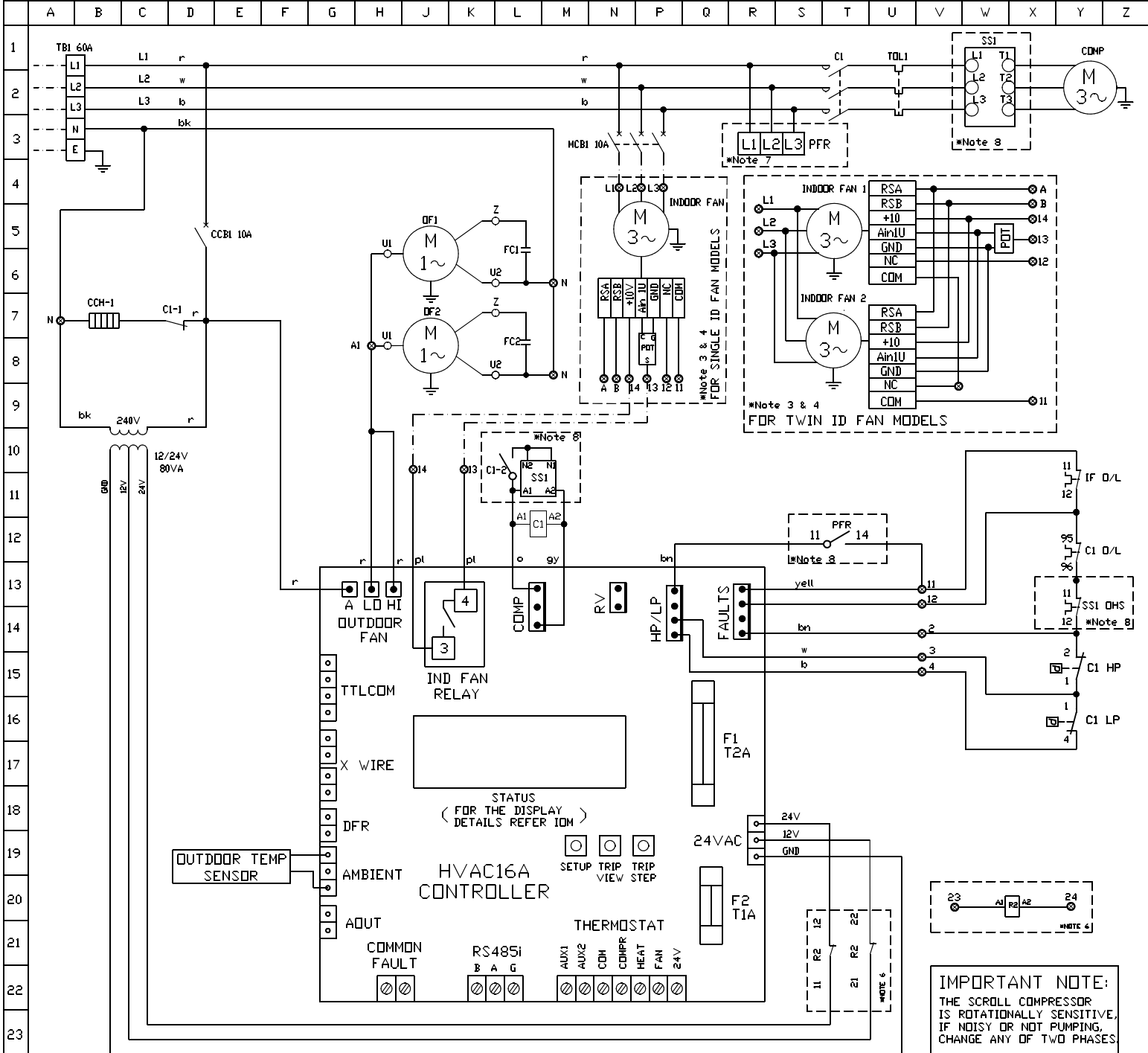
Sound Power Level dB(A)	Octave band Centre Frequency (hz), dB						
	125	250	500	1k	2k	4k	8k
67.2	73.3	62.6	62.7	62.6	60.2	54.1	50.4

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (hz), dB						
		125	250	500	1k	2k	4k	8k
87.7	2200	71.8	76.4	79.7	83	79.7	81.7	75.7

Date	Document #	Approved By	Revision
16/5/23	SDT001295	CM	A

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



WARNING: THE SOFTWARE OF THE HVAC16A 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.

- NOTES:**
1. THERMAL OVERLOAD RELAYS ARE MANUAL RESET. HP SWITCH AND LP SWITCH ARE AUTO RESET, UNLESS OTHERWISE STATED.
 2. ALL FIELD WIRING IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND MUST COMPLY WITH AS/NZS 3000 AND LOCAL RULES.
 3. FOR SPLIT SYSTEMS, OTHERS TO INSTALL ISOLATOR AND FIELD WIRING FOR INDOOR FAN TO TERMINATE TO TERMINALS 13 & 14.
 4. FOR PACKAGE SYSTEMS THE WIRING FOR INDOOR FAN TO INDOOR FAN RELAY WILL BE FACTORY FITTED TO TERMINALS 13 & 14.
 5. ISOLATOR FOR ELECTRICAL PROTECTION TO BE SUPPLIED BY THE INSTALLER.
 6. OPTIONAL FIRE ALARM RELAY. JUMPER SHORT IF NOT SELECTED.
 7. OPTIONAL PHASE MONITORING RELAY (PFR). JUMPER SHORT IF NOT SELECTED.
 8. OPTIONAL SOFT STARTER (SS). FOR 42 & 46kW UNITS SOFT STARTER SS1 OHS NOT CONNECTED AND NI-12 ON THE SOFT STARTER TO BE WIRED AS SHOWN.

C	K10317	REVISED BOARD TO HVAC16A	16/04/2024
B	K10298	THERMAL OVERLOAD AS STANDARD SUPPLY	16/10/2023
A		FIRST RELEASE	07/03/2022
REV	ECN	DESCRIPTION	DATE

NO	MODEL	COMPRESSOR			IND FAN		ID FAN	
		kW	FLA	O/L	kW	FLA	kW	FLA
1	P027AHC3SA-L-S/S0320VC3SA-S-ILC3SA	6.74	18.20	20.00	0.39	1.78	2.73	4.20
2	P032AHC3SA-L-S/S0320VC3SA-S-ILC3SA	7.83	21.60	23.80	0.39	1.78	2.73	4.20
3	P036AHC3SA-L-S/S0360VC3SA-S-ILC3SA	8.87	25.00	27.50	0.39	1.78	2.73	4.20
4	P042AHC3SA-L-S/S0420VC3SA-S-ILC3SA	9.88	31.00	34.10	0.39	1.78	2.82	4.30
5	P046AHC3SA-L-S/S0460VC3SA-S-ILC3SA	11.60	34.00	36.00	0.39	1.78	2.82	4.30

TABLE 1			
JUMPERS SELECTION	DEFROST INTERVAL TIME SETTING	JUMPERS SELECTION	SPEED UP
	15 min		OFF
	FACTORY SETTING 30 min		ON
	45 min		ON

UNIT MUST BE SWITCHED OFF BEFORE CHANGING THE JUMPER SELECTION

LEGEND			
COMP C1	COMPRESSOR CONTACTOR	OF POT	OUTDOOR FAN POTENTIOMETER
O/L	OVERLOAD		
TOL	THERMAL OVERLOAD		
CCH	CRANK CASE HEATER		
HP	HIGH PRESSURE SWITCH		
LP	LOW PRESSURE SWITCH		
MCB	MINIATURE CIRCUIT BREAKER		
CCB	CONTROL CIRCUIT BREAKER		
PFR	PHASE FAILURE RELAY		

LEGEND	
---	FIELD WIRING
---	MAINS/CONTROL WIRING
---	OPTION WIRING
---	SWITCHBOARD TB2 TERMINAL

COLOUR CODE	
r	RED WHITE
w	BLUE
b	BLACK
bn	BROWN
o	ORANGE
p	PINK
pl	PURPLE
gy	GREY
yell	YELLOW

TYPE: 3-S (AHC)	
OPTIONS	
REF	DESCRIPTION
A	STANDARD
B	SOFT STARTER

apac

DATE: 07/03/2022

DWN: doiwL APPD: CM

REV: C

DWG No: EWS000590