

TECHNICAL DATA SHEET

MODEL NUMBER		P012AHC3SA-C-S	P015AHC3SA-C-S	P018AHC3SA-C-S	P020AHC3SA-C-S	P023AHC3SA-C-S	
OUTDOOR SECTION	CAPACITY						
	Cooling	kW TOTAL*	11.38	16.01	18.74	20.53	22.40
		kW SENSIBLE*	9.33	12.51	14.78	15.88	18.24
		EER (kW / ikW)*	3.45	3.84	3.79	3.60	3.33
	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	
	i kW (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	TWIN DECK	TWIN DECK	TWIN DECK	TWIN DECK	TWIN DECK	
	i kW (MAX INPUT)	0.63	0.63	0.63	0.96	0.96	
	PHASE	1Ø	1Ø	1Ø	1Ø	1Ø	
	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	835	875	990	1120	
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	8.6	11.5	13.3	15.2	17.9	
	MAX. F.L.A. (TOTAL SYSTEM)	14.1	16.4	17.1	23.3	23.3	
	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 (OVERALL)						
	H X W X D (mm)	1213 x 1450 x 1300			1314 x 1630 x 1465		
	WEIGHT						
	OPERATING KG	215	231	237	295	295	
	SHIPPING KG	265	281	287	335	335	
	NOISE LEVELS (Based on outdoor 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 based on current drawn at nominal conditions
 F.L.A - Full Load Amps based on the overload settings [Max Current] of all Compressor and Fan Motor(s).

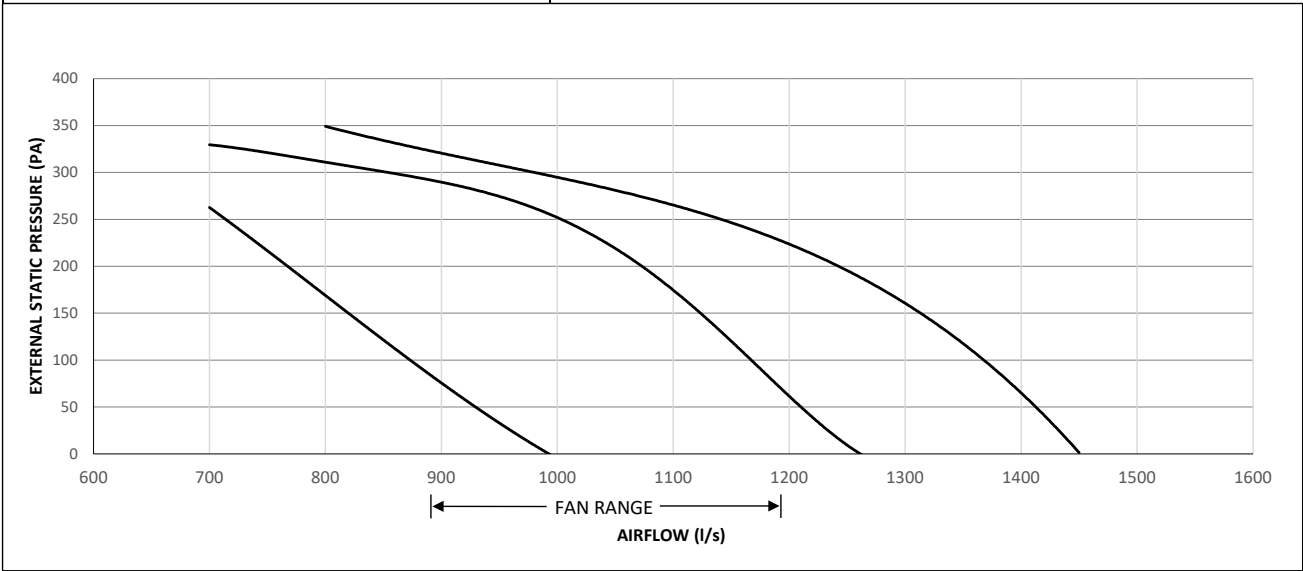
Date	Document #	Approved By	Revision
17/12/21	TDS000505	AY	B

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



FAN PERFORMANCE DATA

P020AHR(C)3SA-C-S



Date	Document #	Approved By	Revision
13/10/21	FPD000369	CM	A

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

SOUND DATA TABLE

MODEL NUMBER

P020AHR(C)3SA-C-S

Outdoor Fan

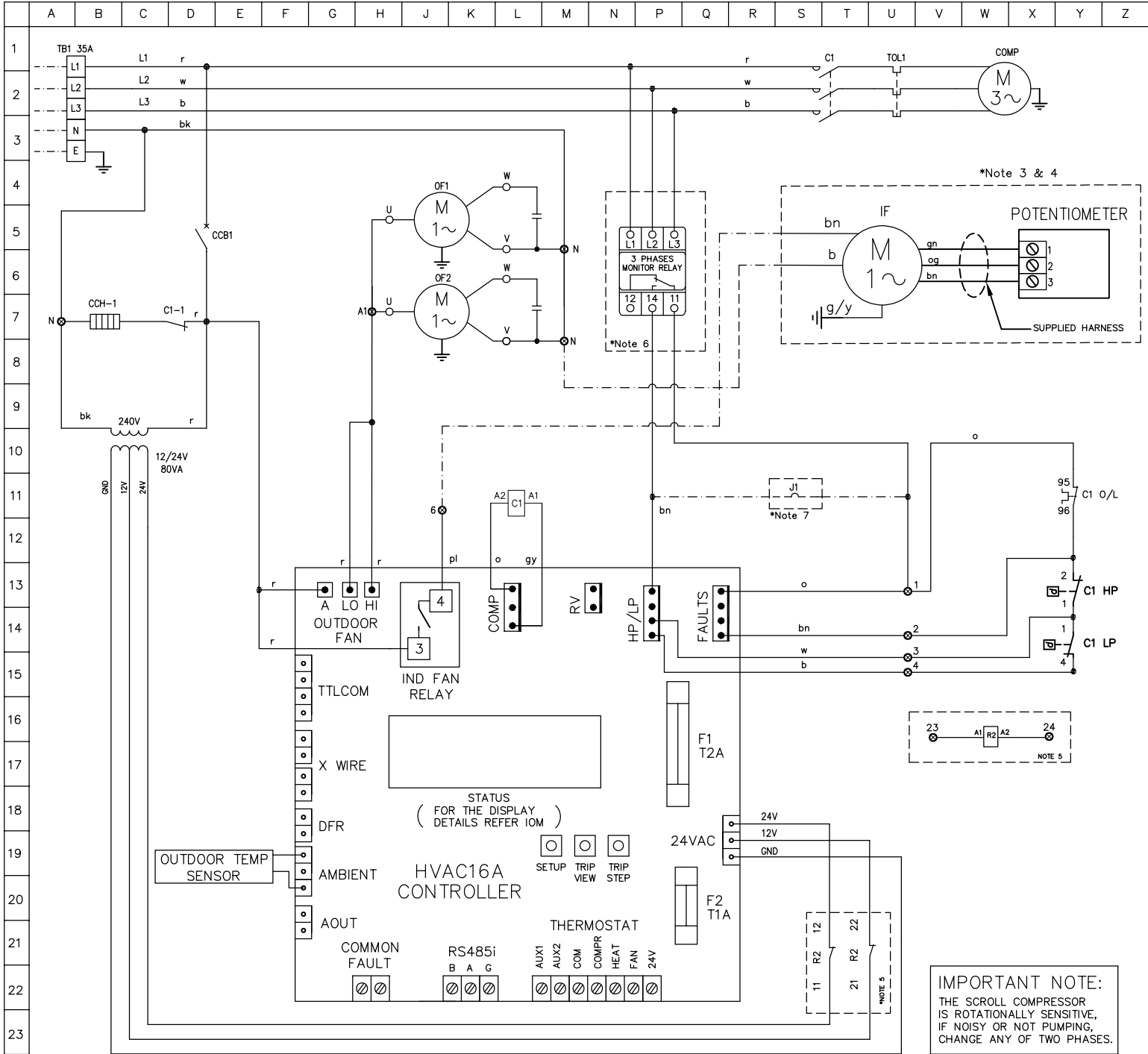
Sound Power Level dB(A)	Octave band Centre Frequency (Hz), dB						
	125	250	500	1k	2k	4k	8k
66.6	76.7	62.2	57.1	58.7	60.9	57	47.7

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
77.3	1040	74.8	75.6	74.8	72.4	68.9	65.1	59.8

Date	Document #	Approved By	Revision
13/10/21	SDT000374	CM	A

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



IMPORTANT NOTE:
THE SCROLL COMPRESSOR IS ROTATIONALLY SENSITIVE, IF NOISY OR NOT PUMPING, CHANGE ANY OF TWO PHASES.

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.

Model	CCB1
P012-018AHC/S012-018OVC	10A
P020-023AHC/S020-023OVC	16A

- 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 CONTRACOTOR AND MUST COMPLY WITH AS/NZS 3000 AND LOCAL RULES.
 - 3A. FOR PACKAGE SYSTEMS, THE WIRING FOR INDOOR FAN TO INDOOR FAN RELAY WILL BE FACTORY FITTED TO TERMINALS 6 AND N.
 - 3B. FOR SPLIT SYSTEMS, OTHERS TO INSTALL ISOLATOR AND FIELD WIRING FOR INDOOR FAN TO TERMINAL TO TERMINALS 6 AND N.
 4. ISOLATOR FOR ELECTRICAL PROTECTION TO BE SUPPLIED BY THE INSTALLER.
 5. OPTIONAL FIRE ALARM RELAY.
 6. OPTIONAL PHASE MONITORING RELAY (PFR).
 7. JUMPER WIRE J1 AS BELOW TABLE

REV	ECN	DESCRIPTION	DATE
E	K10400	UPDATE TO NOVACO FAN	21/04/2026
D	K10378	REPLACE YELLOW WIRE WITH ORANGE	06/10/2025
C	K10317	REVISED BOARD TO HVAC16A	16/04/2024
B	K10298	THERMAL OVERLOAD AS STANDARD SUPPLY	16/10/2023
A		FIRST RELEASE	8/12/2021

NO	MODEL	COMPRESSOR			OD FAN		ID FAN	
		kW	FLA	O/L	kW	FLA	kW	FLA
1	P012AHC3SA-C-S/S0120VC3SA-ILR3SA-S	2.83	8.00	8.80	0.19	0.86	0.63	4.40
2	P015AHC3SA-C-S/S0150VC3SA-ILR3SA-S	3.59	10.30	11.50	0.19	0.86	0.63	4.40
3	P018AHC3SA-C-S/S0180VC3SA-ILR3SA-S	4.15	11.80	13.00	0.19	0.86	0.63	4.40
4	P020AHC3SA-C-S/S0200VC3SA-ILR3SA-S	4.86	15.00	16.50	0.27	1.18	0.96	6.80
5	P023AHC3SA-C-S/S0230VC3SA-ILR3SA-S	5.52	15.00	16.50	0.27	1.18	0.96	6.80

OPTION	JUMPER
PFR	J1
NO	YES
YES	NO

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	
O/L	OVERLOAD		
TOL	THERMAL OVERLOAD		
CCH.	CRANK CASE HEATER		
RV1.	REVERSING VALVE		
HP.	HIGH PRESSURE SWITCH		
LP.	LOW PRESSURE SWITCH		
MCB	MINIATURE CIRCUIT BREAKER		
CCB	CONTROL CIRCUIT BREAKER		
J	JUMPER WIRE		

LEGEND		COLOUR CODE	TYPE: 5-S (CO)
----	FIELD WIRING		
----	MAINS/CONTROL WIRING		
○	OPTION WIRING		
○	SWITCHBOARD TB2 TERMINAL		

r	RED
w	WHITE
b	BLUE
bk	BLACK
bn	BROWN
o	ORANGE
p	PINK
pl	PURPLE
gy	GREY
ye	YELLOW

OPTIONS	
REF	DESCRIPTION
A	STANDARD



DATE	6/10/2025
DWN	OoiWL APPD CM
REV	E
DWG No.	EWS000394