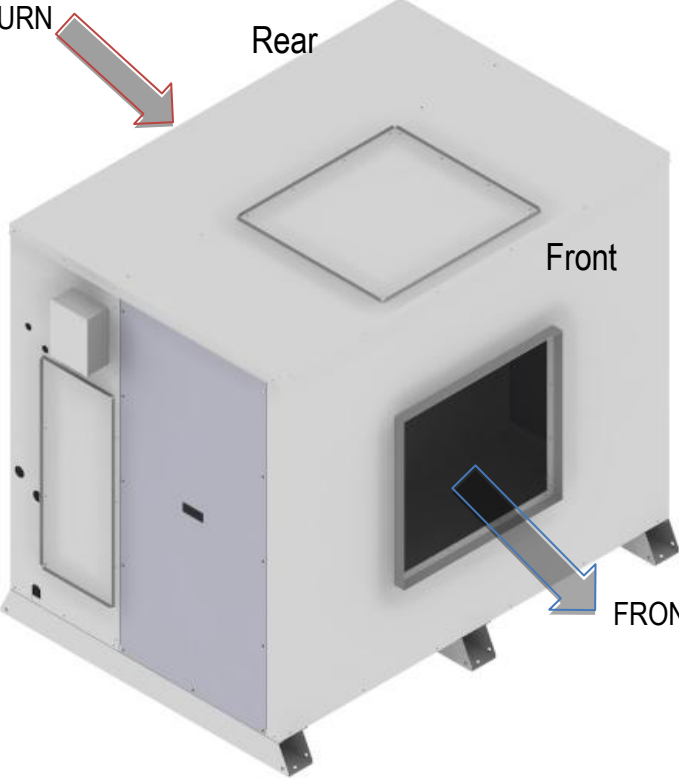
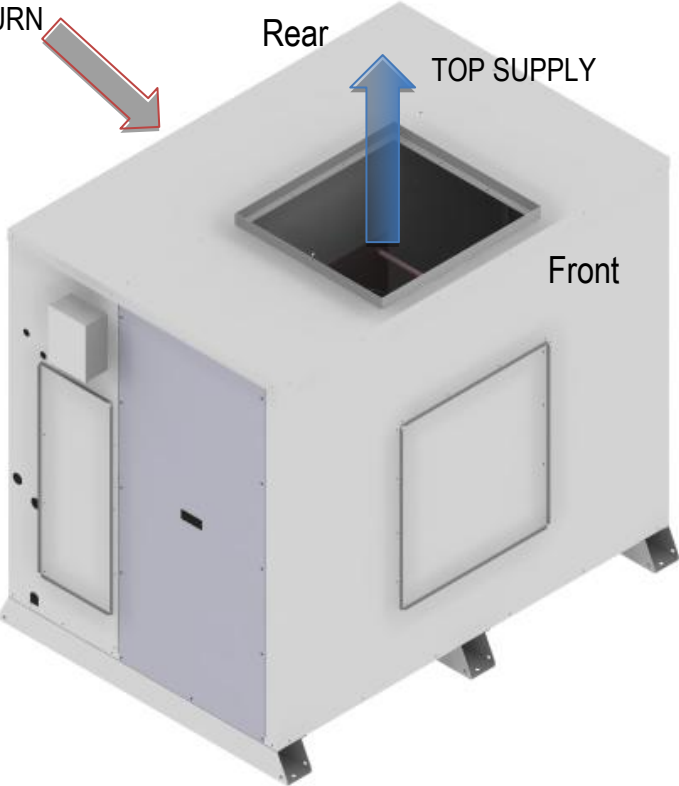
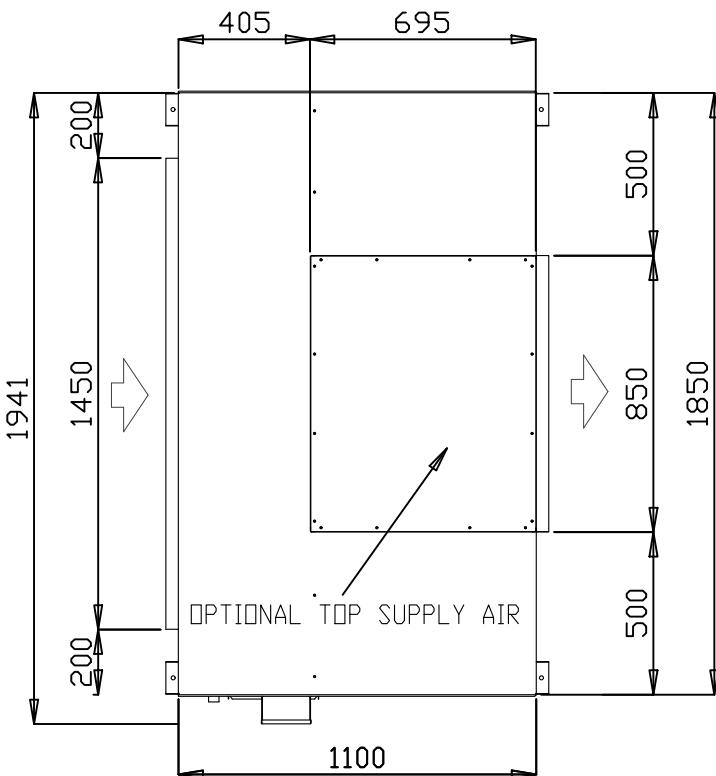


		APPLICATION DATA		AD0007D	
SDU HORIZONTAL HANDING CONFIRMATION					
SO NUMBER (INTERNAL USE)				WO NUMBER (INTERNAL USE)	
SPLIT DUCTED UNITS (SDU IDH)					
MODELS		S024-095IHR3SA-			
GENERAL		This document details the airside configurations available on 024-095 models.			
SOURCING		Standard configuration is Front Supply /Rear Return. Optional airside configurations to be specified at time of order.			
HOW TO USE THIS DOCUMENT		1. Circle the required supply air outlet. 2. Complete the information at the bottom of this document and return to your APAC representative.			

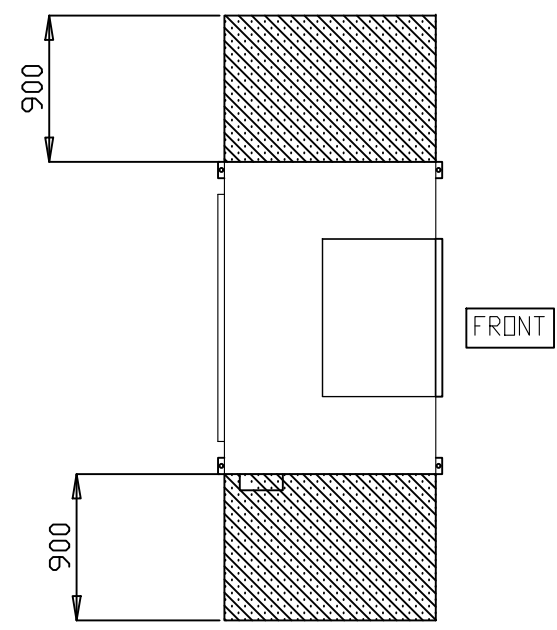
FS/RR – FRONT SUPPLY / REAR RETURN	TS/RR – TOP SUPPLY / REAR RETURN
REAR RETURN Rear Front FRONT SUPPLY 	REAR RETURN Rear TOP SUPPLY Front 

CUSTOMER TO COMPLETE AND RETURN

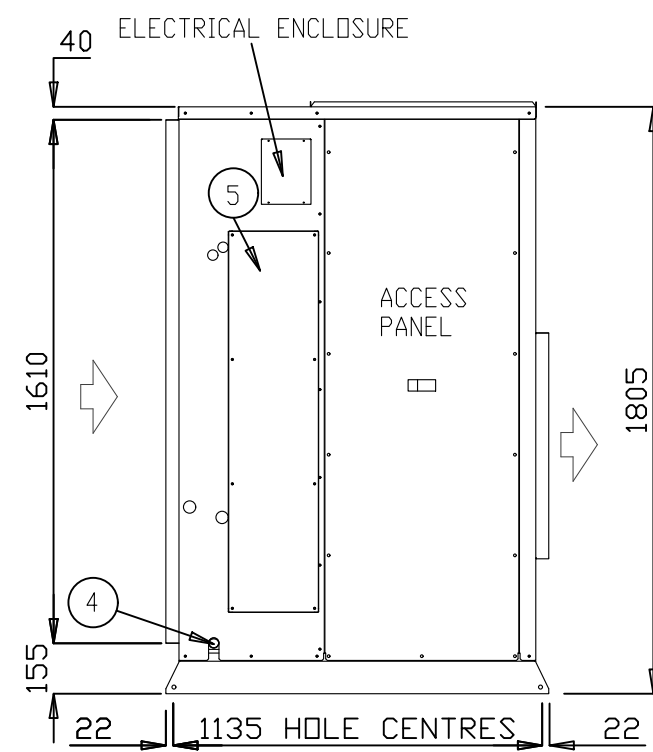
CUSTOMER	PROJECT	UNIT REF	NAME / SIGN	DATE



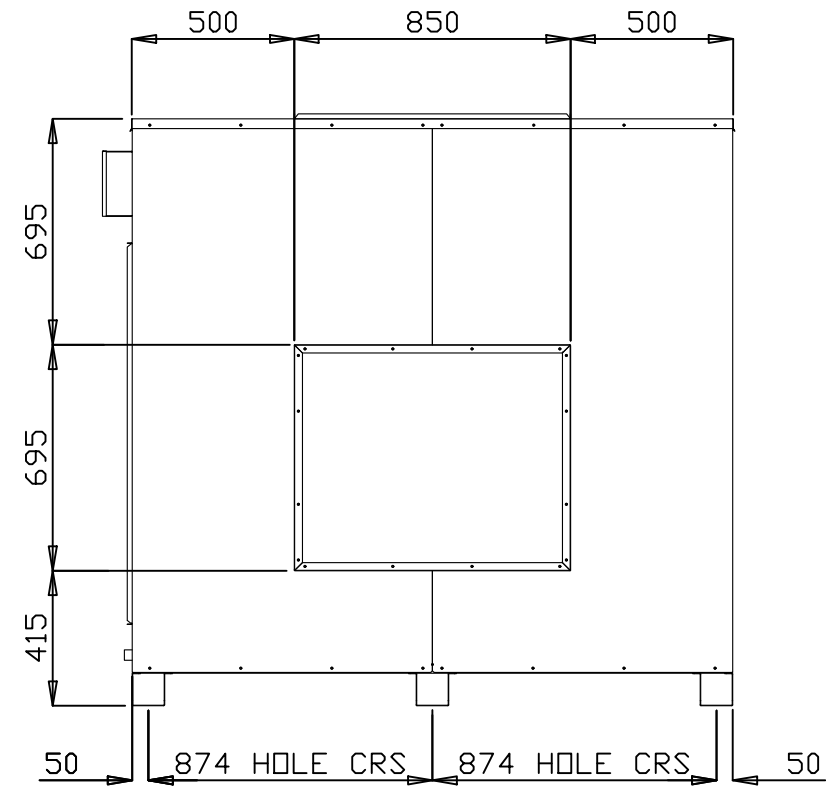
PLAN



CLEARANCE DETAIL



ELEVATION



FRONT ELEVATION

- NOTES :
- 1. DRAWING REFLECTS A HORIZONTAL FAN COIL UNIT
 - 2. GAS, DRAIN & ELECTRICAL CONNECTIONS ON SAME SIDE
 - 3. ELECTRICAL CABLE ENTRY 25mmØ.
 - 4. CONDENSATE DRAIN OUTLET 32mmØ
 - 5. ACCESS DOORS ON BOTH SIDES
 - 6. OPTIONAL TOP SUPPLY CONFIGURABLE ON SITE
 - 7. REFER TO INSTALLATION AND OPERATIONAL MANUAL FOR PIPE SIZING

- ALL DIMENSIONS IN mm.
- GENERAL TOLERANCE ±1mm.
- DO NOT SCALE DRAWING.
- MASTER DRAWINGS ARE HELD ELECTRONICALLY. ANY COPY IS DEEMED UNCONTROLLED AND THEREFORE NOT NECESSARILY THE LATEST REVISION.
- ALL INFORMATION REMAINS THE PROPERTY OF THE COMPANY.

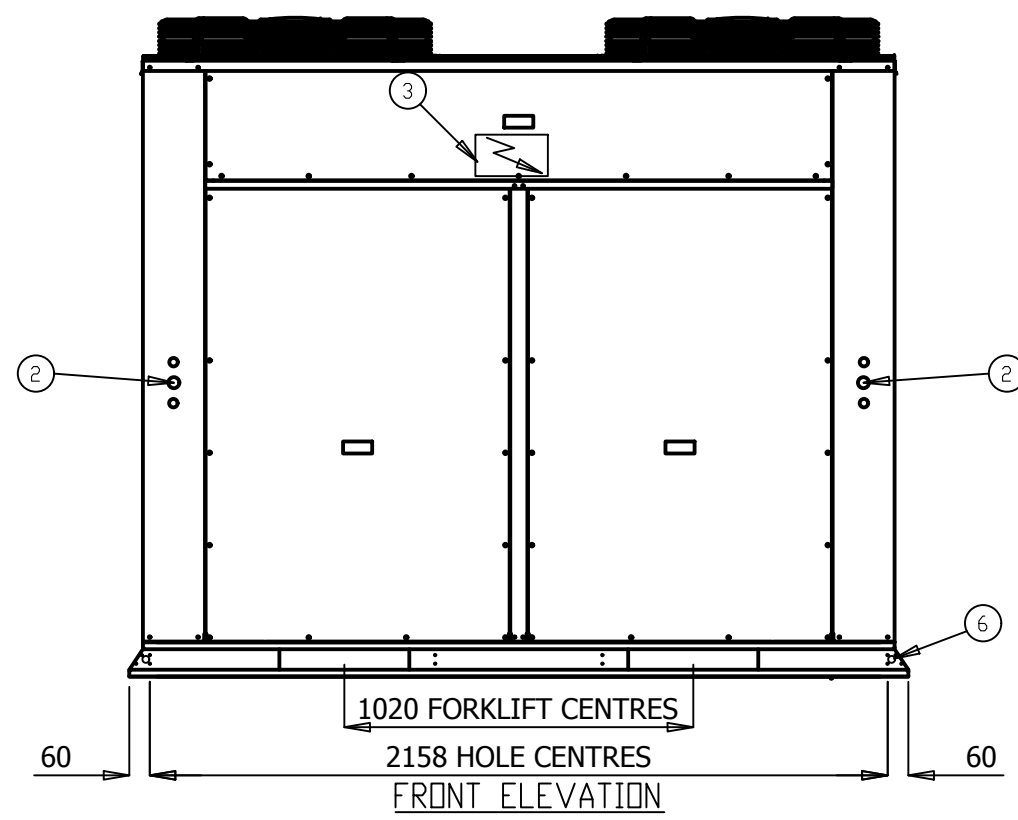
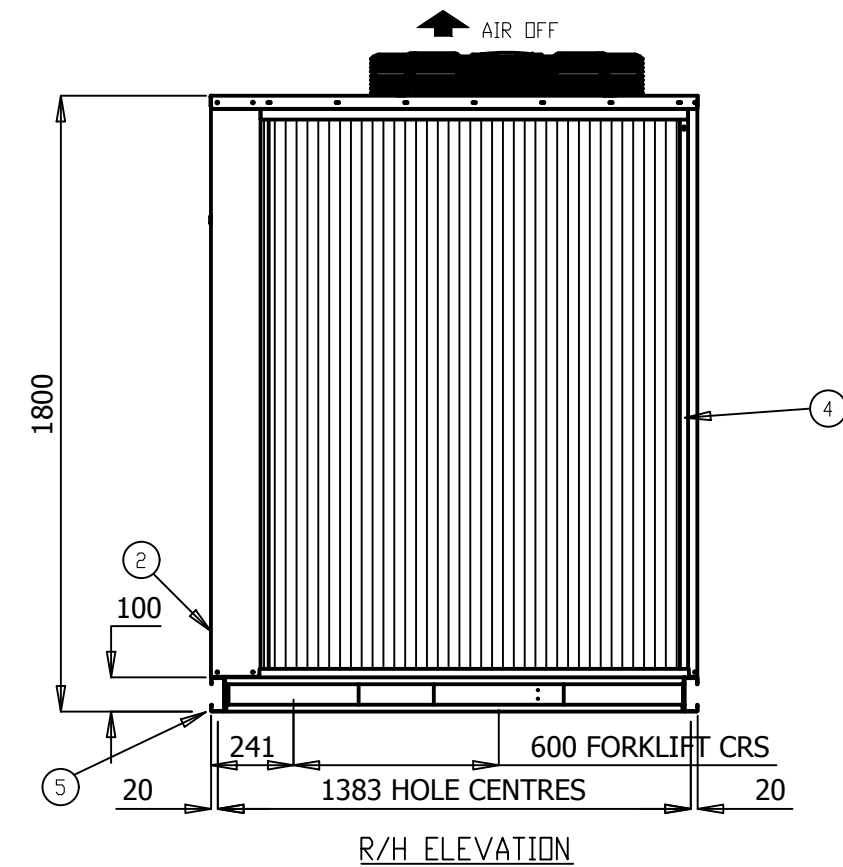
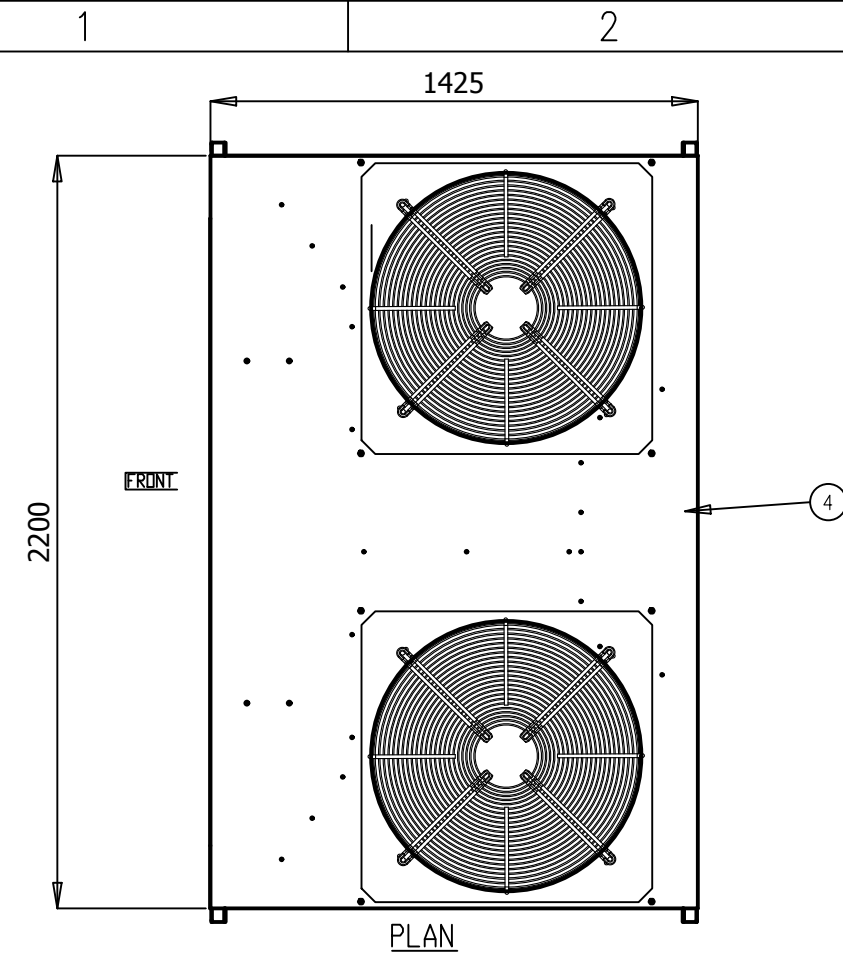
GENERAL ARRANGEMENT

S085IHR3SA- S095IHR3SA-

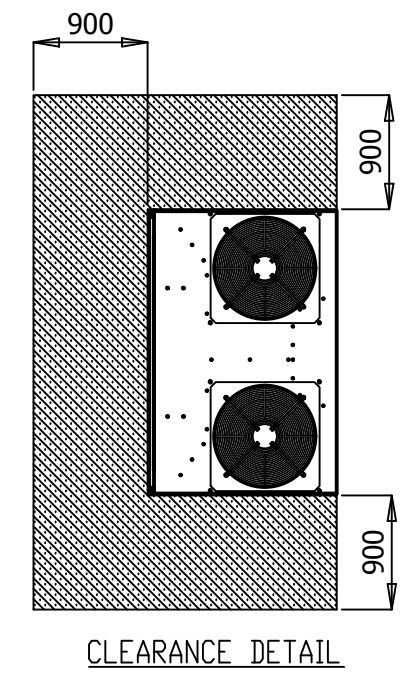
www.apacair.com.au

ABN: 74 005 138 769

REVISION		REVISED NAMEPLATE WITH APAC DETAILS							
 apac by Rinnai		DRAWN	MT	DRAWING No.			A4		
		DATE	24.03.14	GAD0018					
	SCALE	N.T.S.							
	ATLANTIC DR. KEYSBOROUGH VIC 3173 1300 555 545		CHECKED	HA	APP'D.	CM	REV.	E	



- NOTES:
1. GENERAL ARRANGEMENT OF A OUTDOOR SPLIT AIR COOLED VERTICAL UNIT
 2. POWER AND FIELD CABLE ENTRIES, 1 x 32Ø AND 2 x 25Ø
 3. ELECTRICAL PANEL LOCATED BEHIND SERVICE ACCESS
 4. FIELD PIPE CONNECTIONS
 5. UNIT BASE 4 x 16Ø FIXING POINTS
 6. UNIT HAS 4 x 20Ø LIFTING POINTS
 7. REFER TO INSTALLATION AND OPERATIONAL MANUAL FOR PIPE SIZING



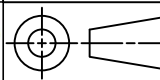
• ALL DIMENSIONS IN mm.
 • GENERAL TOLERANCE ±1mm.
 • DO NOT SCALE DRAWING.
 • MASTER DRAWINGS ARE HELD ELECTRONICALLY. ANY COPY IS DEEMED UNCONTROLLED AND THEREFORE NOT NECESSARILY THE LATEST REVISION.
 • ALL INFORMATION REMAINS THE PROPERTY OF THE COMPANY.

GENERAL ARRANGEMENT

S0850VR3SA- S0950VR3SA-

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ABN: 74 005 138 769

REVISION		REVISED NAMEPLATE WITH APAC DETAILS						
	 ATLANTIC DR. KEYSBOROUGH VIC 3173 1300 555 545	DRAWN	MT	DRAWING No.			A4	
		DATE	16.04.14	GAD0032				
		SCALE	N.T.S.					
		CHECKED	HA	APP'D.	CM	REV.	C	

TECHNICAL DATA SHEET

MODEL NUMBER		Indoor	S055IHR3SA-	S065IHR3SA-	S075IHR3SA-	S085IHR3SA-	S095IHR3SA-
		Outdoor	S055OVR3SA-	S065OVR3SA-	S075OVR3SA-	S085OVR3SA-	S095OVR3SA-
MEPS REGISTRATION NUMBER			AAC3221	AAC3233	N/A	N/A	N/A
OUTDOOR SECTION	CAPACITY						
	Cooling	kW TOTAL*	52.90	63.88	72.95	83.74	94.04
		kW SENSIBLE*	44.01	54.50	58.50	69.34	77.49
		EER (kW / ikW)*	3.07	3.28	3.49	3.47	3.24
	Heating	kW TOTAL	54.30	65.00	73.40	84.30	96.10
		COP	3.39	3.61	3.59	3.60	3.60
	CAPACITY STEPS (%)		50/100	50/100	50/100	50/100	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						
	ALL COMPRESSORS HAVE		HP SWITCH, LP SWITCH, MOTOR OVERLOAD'S				
			SUMP HEATER				
	FAN						
	TYPE		EC AXIAL	EC AXIAL	EC AXIAL	EC AXIAL	EC AXIAL
	ikW (MAX INPUT)		0.97	0.93	0.93	0.93	0.93
	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		PLATE FIN COIL	PLATE FIN COIL	PLATE FIN COIL	PLATE FIN COIL	PLATE FIN 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				
	ALL SYSTEMS INCLUDE		FILTER DRIERS				
	DIMENSIONS						
	H X W X D (mm)		1390 x 1850 x 1426	1595 x 2200 x 1425		1800 x 2200 x 1425	
	WEIGHT						
	OPERATING KG		510	600	610	761	783
	SHIPPING KG		515	605	615	766	788
	ELECTRICAL						
	POWER SUPPLY		415v / 3Ø / 50hz				
RLA / FLA (Amps)		28.6/45.2	32.7/47	35.3/53	40.2/65	52.2/71	
INDOOR SECTION	FAN						
	TYPE		EC PLUG	EC PLUG	EC PLUG	EC PLUG	EC PLUG
	ikW (MAX INPUT)		3	2.73	2.73	2.82	2.82
	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		PLATE FIN COIL	PLATE FIN COIL	PLATE FIN COIL	PLATE FIN COIL	PLATE FIN COIL
	NOM. AIRFLOW l/s		2880	3550	3750	4400	4930
	EXT STATIC pa		100				
	DIMENSIONS						
	H X W X D (mm)		1400 x 1600 x 1100	1605 x 1600 x 1100		1805 x 1850 x 1100	
	WEIGHT						
	OPERATING KG		290	340	340	461	461
	SHIPPING KG		295	345	345	466	466
	ELECTRICAL						
	POWER SUPPLY		415v / 3Ø / 50hz				
	RLA / FLA (Amps)		2.5/4.6	2.2/8.4	2.8/8.4	3.3/8.6	4.1/8.6
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)		31.1	34.9	38.1	43.5	56.3
	MAX. F.L.A. (TOTAL SYSTEM)		49.8	55.4	61.4	73.6	79.6
	GENERAL						
	CABINET		GALVANISED SHEET STEEL				
	INSULATION		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)		70.9	71.5	71.5	71.5	71.5	

Note:

*Performance excludes ikW of evaporator 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).

This TDS is also applicable to models: ASCE055HA3A-ASCC055VA3A; ASCE065HA3A-ASCC065VA3A; ASCE075HA3A-ASCC075HA3A;

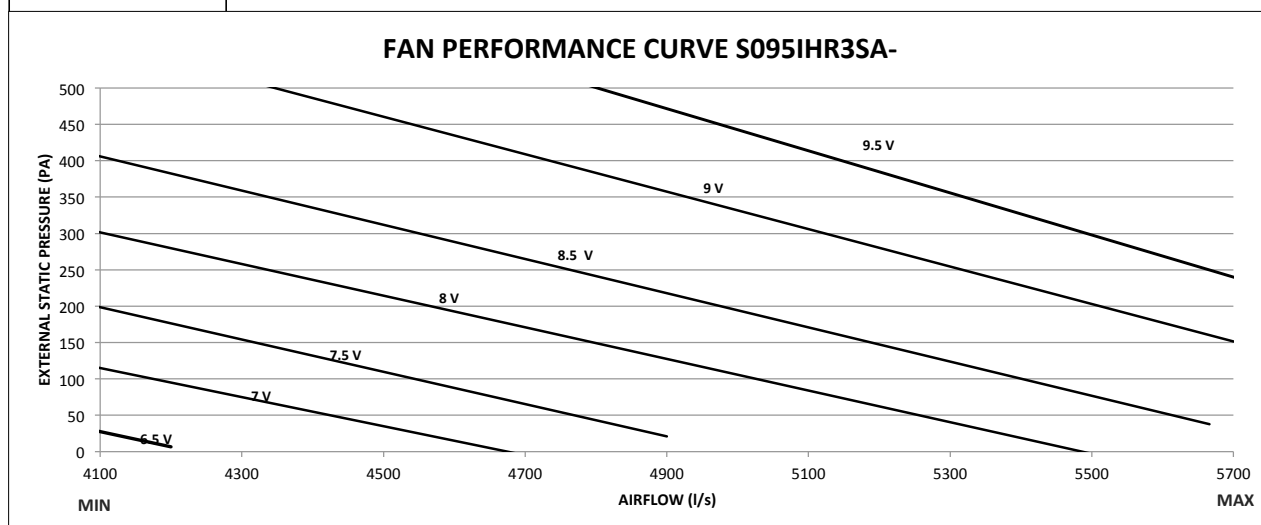
ASHE085HA3A-ASCC085VA3A; ASCE095HA3A-ASCC095VA3A.

Date	Document #	Approved By	Revision
1/6/18	TDS0023	CM	D

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

FAN PERFORMANCE CURVE

S095IHR3SA-



Note:

1. 6.5 V, 7V, 7.5V, 8V, 8.5V, 9V and 9.5V 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
29.05.18	FPC0042	CM	B

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



**HIGH EFFICIENCY
SPLIT DUCTED INDOOR HORIZONTAL
R410A REFRIGERANT**

SOUND DATA

MODEL NUMBER

S095IHR3SA- / S095OVR3SA-

Outdoor Fan

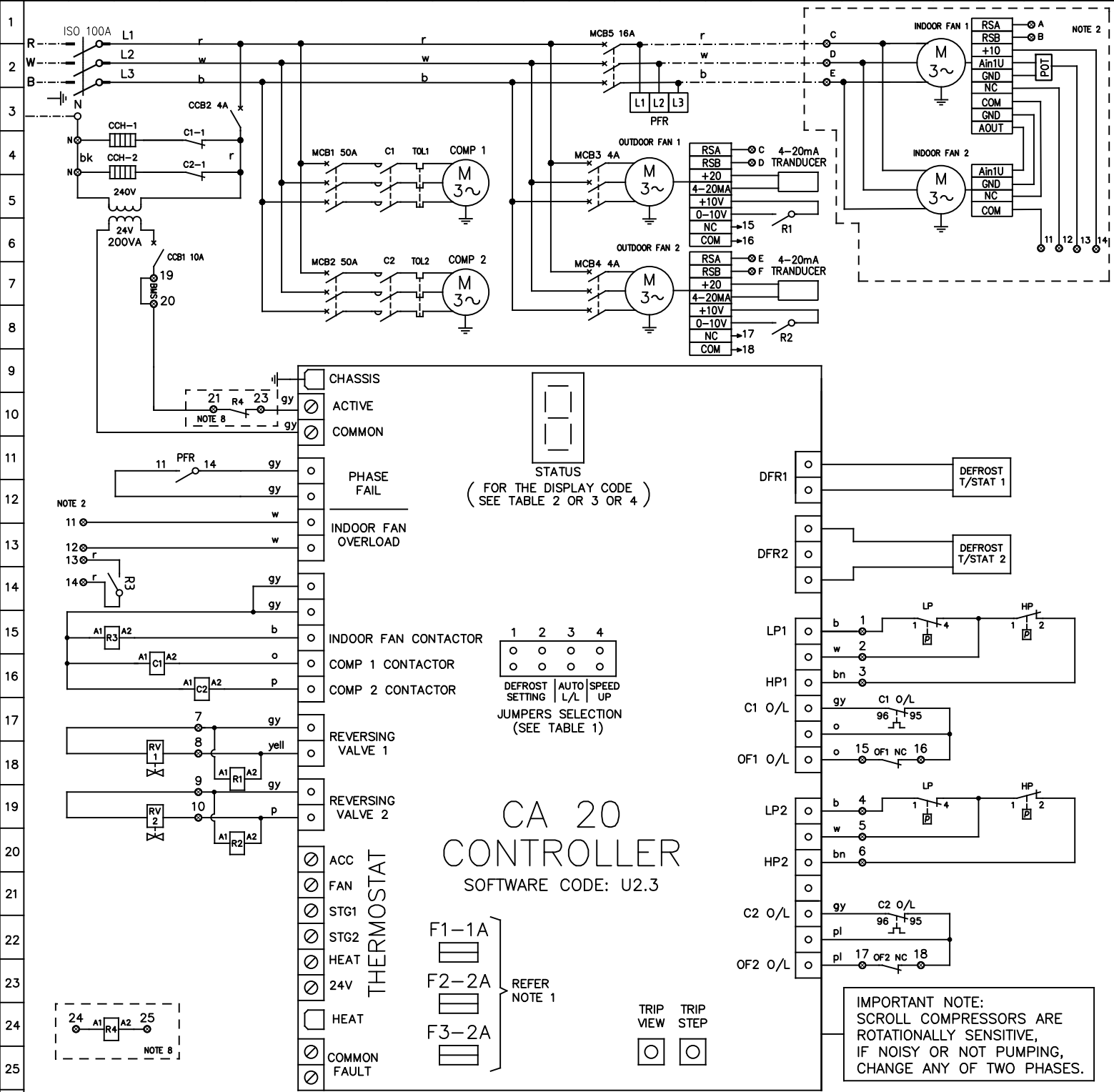
Sound Power Level dB(A)	Octave band Centre Frequency (Hz), dB						
	125	250	500	1k	2k	4k	8k
71.5	73.9	68.9	66.5	64.6	65.7	62	58.4

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
88.9	4930	74.1	79.9	83.4	83.5	82.4	81.2	76.9

Date	Document #	Approved By	Revision
30.05.18	SD0002	CM	B

NOTE: Due to continuous improvement Rinnai Australia Pty Ltd reserve the right to change details



WARNING! THE SOFTWARE OF THE CA20 CONTROLLER IS NOT DESIGNED TO FUNCTION AS A PRIMARY PERSONAL SAFETY DEVICE, AS CONNECTED EQUIPMENT CAN START AUTOMATICALLY WITHOUT WARNING. ALSO, OPENING THERMOSTAT CONTACTS MAY NOT CAUSE THE EQUIPMENT TO STOP. OUTDOOR FAN MOTORS HAVE INTERNAL OVERLOADS AND MAY RESTART AUTOMATICALLY.

NOTES:

- 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.
- FOR SPLIT SYSTEMS. OTHERS TO INSTALL ISOLATOR AND FIELD WIRING
- HP CUT OUT, LP CUT OUT - AUTO RESET.
- THERMAL OVERLOAD RELAYS - AUTO RESET, UNLESS OTHERWISE STATED.
- DO NOT CONNECT ANY ADDITIONAL EQUIPMENT TO THE CONTROL TRANSFORMER OTHER THAN THE EQUIPMENT SHOWN ON THE ELECTRICAL DRAWING.
- ALL FIELD WIRING IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND MUST COMPLY WITH AS/NZS 3000 AND LOCAL RULES.
- SOFTWARE CODE MUST BE CHECKED AFTER REPLACEMENT OF THE CA-20 CONTROLLER BY CHECKING THE DISPLAY CODE ON THE 7 SEGMENT DISPLAY AFTER THE CONTROLLER IS ACTIVATED.
- OPTIONAL FIRE ALARM RELAY

TABLE 1

JUMPERS SELECTION	DEFROST INTERVAL TIME SETTING	JUMPERS SELECTION	AUTO LEAD/LAG	JUMPERS SELECTION	SPEED UP
1 2 ○ ○	15 min	3 ○ ○	OFF	4 ○ ○	OFF
1 2 ■ ○	FACTORY SETTING 30 min	3 ○ ○	ON	4 ■ ○	ON
1 2 ■ ■	45 min	3 ■ ○	ON	4 ■ ■	ON

UNIT MUST BE SWITCHED OFF BEFORE CHANGING THE JUMPER SELECTION

LEGEND		LEGEND		COLOUR CODE		COMPRESSOR (EACH)		MODEL: S0950VR3SA-H	
○	TERMINAL	TOL	THERMAL OVERLOAD	r	RED	KW	11.60	OPTIONS	
⊗	SWITCHBOARD	R	RELAY	w	WHITE	RATED CURRENT	34.00	DESCRIPTION	
---	FIELD WIRING	C	CONTACTOR	b	BLUE	O/L SETTING	37.40	STANDARD	
---	CONTROL PARAMETER	COMP	COMPRESSOR	bk	BLACK	FANS (EACH)	KW	FLA	
---	MAINS/CONTROL	ISO	ISOLATOR SWITCH	bn	BROWN	OUTDOOR	0.93	1.50	
---	WIRING	MCB	MINIATURE CIRCUIT BREAKER	o	ORANGE	INDOOR	2.82	4.30	
CCH	CRANK CASE HEATER	CCB	CONTROL CIRCUIT BREAKER	p	PINK				
PFR	PHASE FAILURE RELAY	O/L	OVERLOAD	pl	PURPLE				
RV	REVERSING VALVE	POT	POTENTIOMETER	gy	GREY				
HP	HIGH PRESSURE SWITCH			yell	YELLOW				
LP	LOW PRESSURE SWITCH								

DATE: 24/06/2018

DWN	S.P	APPD	ENG
REV	A	GRID	B188
DWG No.	EWS02169		