



HPU HANDING CONFIRMATION

SO NUMBER (INTERNAL USE)	WO NUMBER (INTERNAL USE)
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ROOF TOP PACKAGED UNITS (RTU)

MODELS	All
GENERAL	This document details the airside configurations available on all HPU models.
SOURCING	Standard configuration is detailed in the unit general arrangement drawings. Optional airside configurations to be specified at time of order.
HOW TO USE THIS DOCUMENT	<ol style="list-style-type: none"> 1. Choose if the supply air fan position is required on the left or right. 2. Circle the required supply air outlet. 3. Circle the required return air inlet. 4. Complete the information at the bottom of this document and return to your APAC representative.

LEFT HAND SUPPLY AIR (STANDARD)	RIGHT HAND SUPPLY AIR (OPTIONAL)
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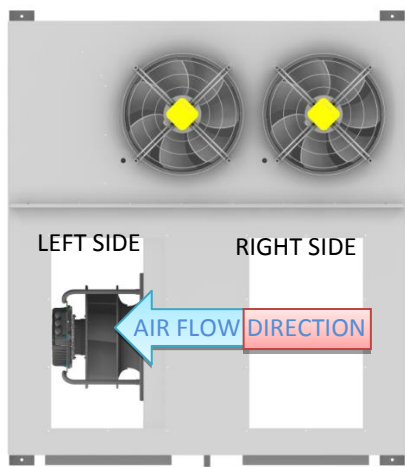


Fig1. Left hand unit from the top view

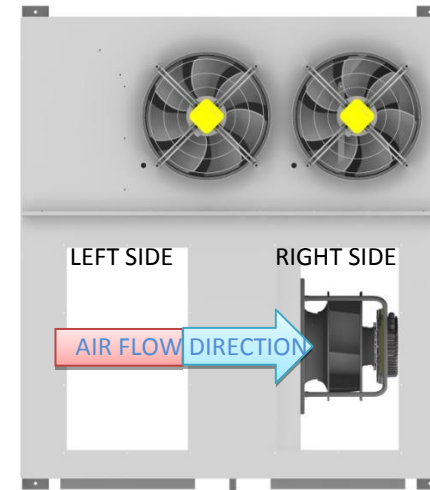


Fig3. Right hand unit from top view

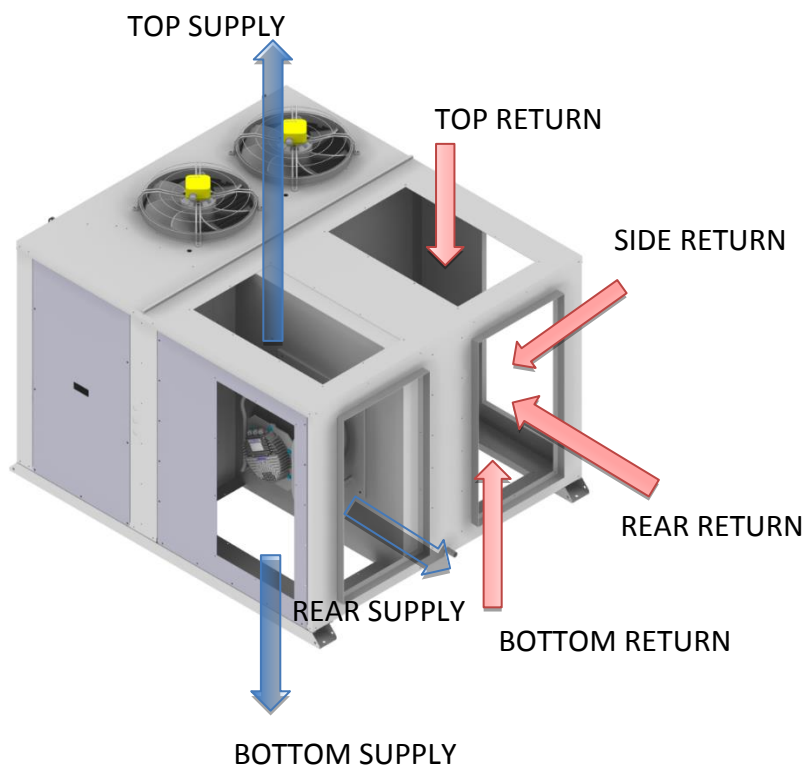


Fig2. Air flow schematic of the left hand unit

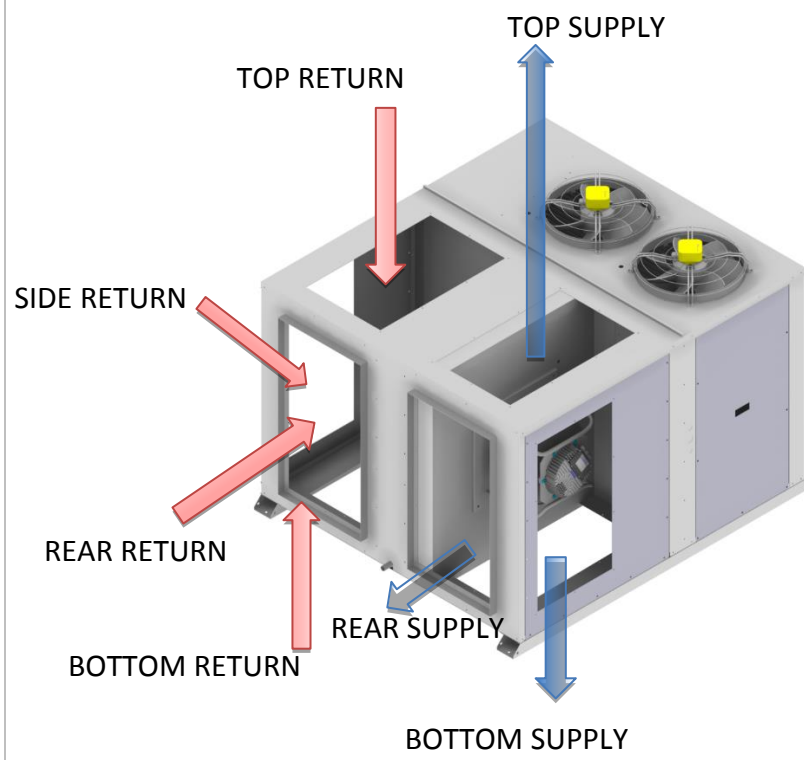
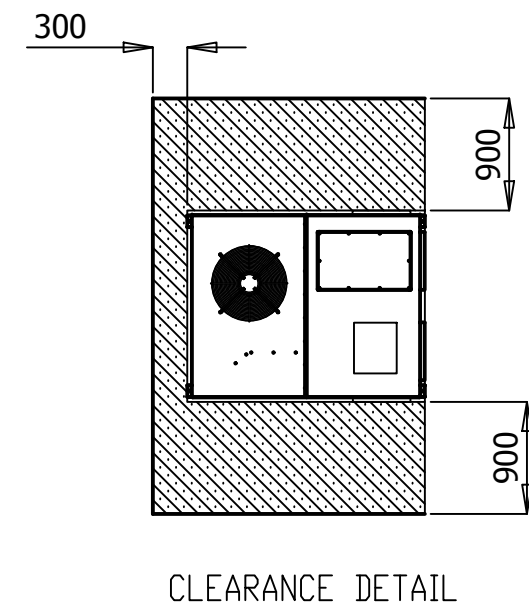
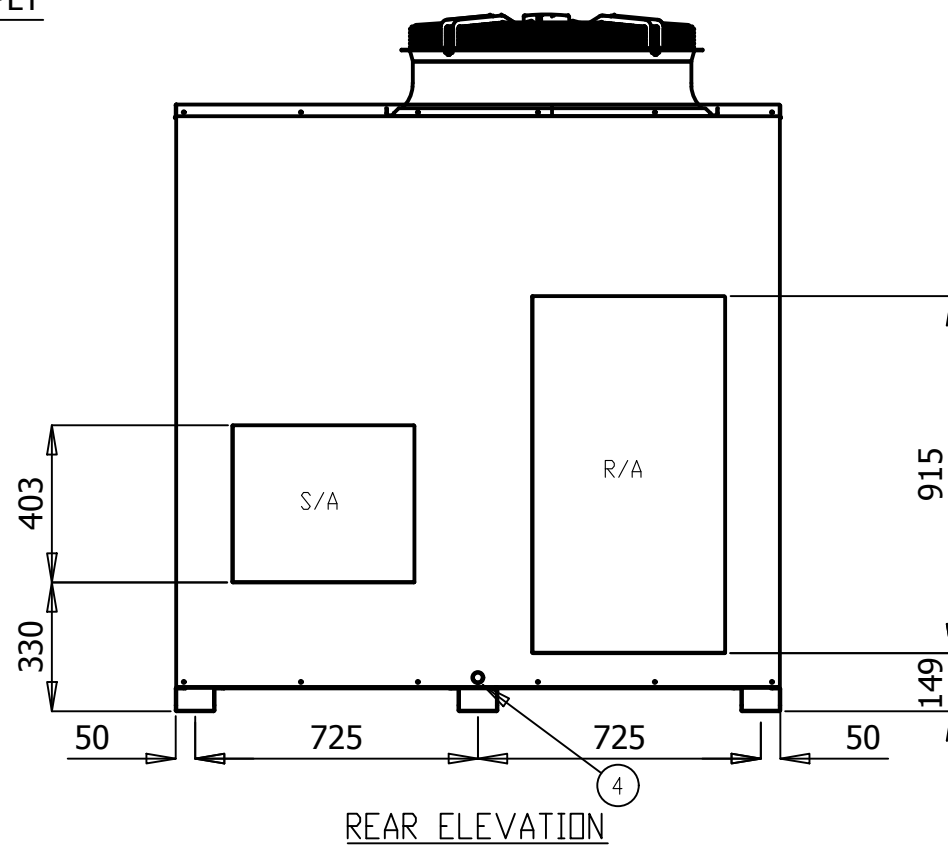
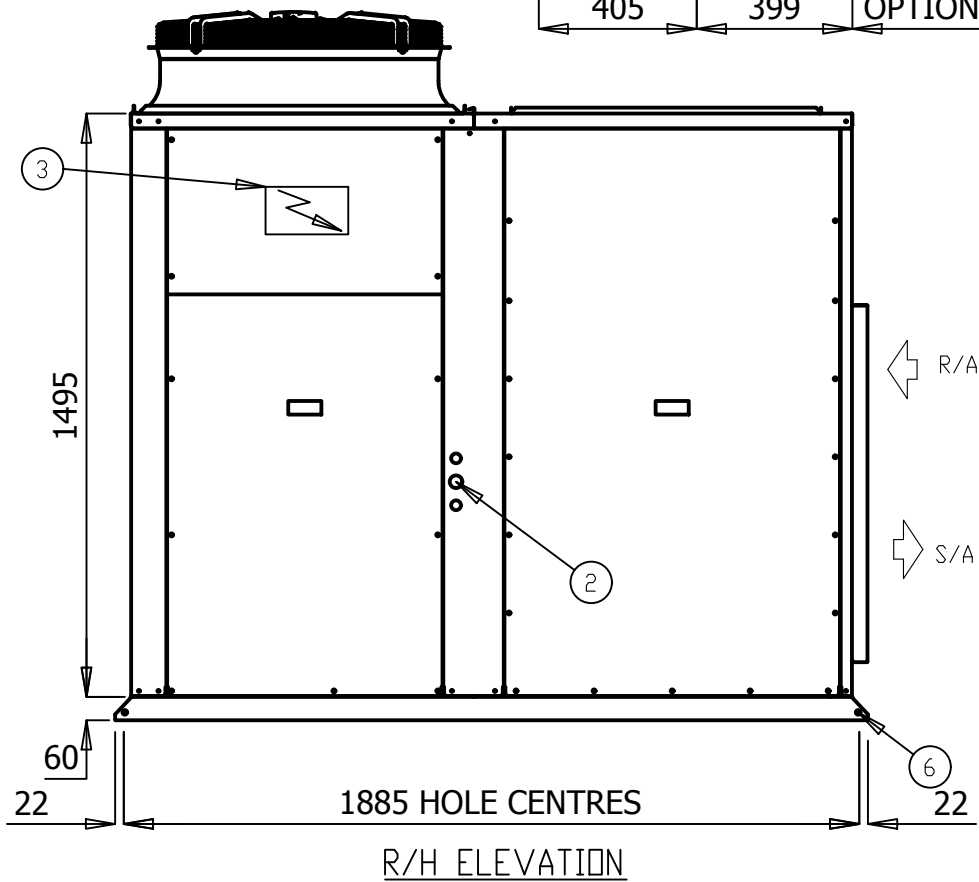
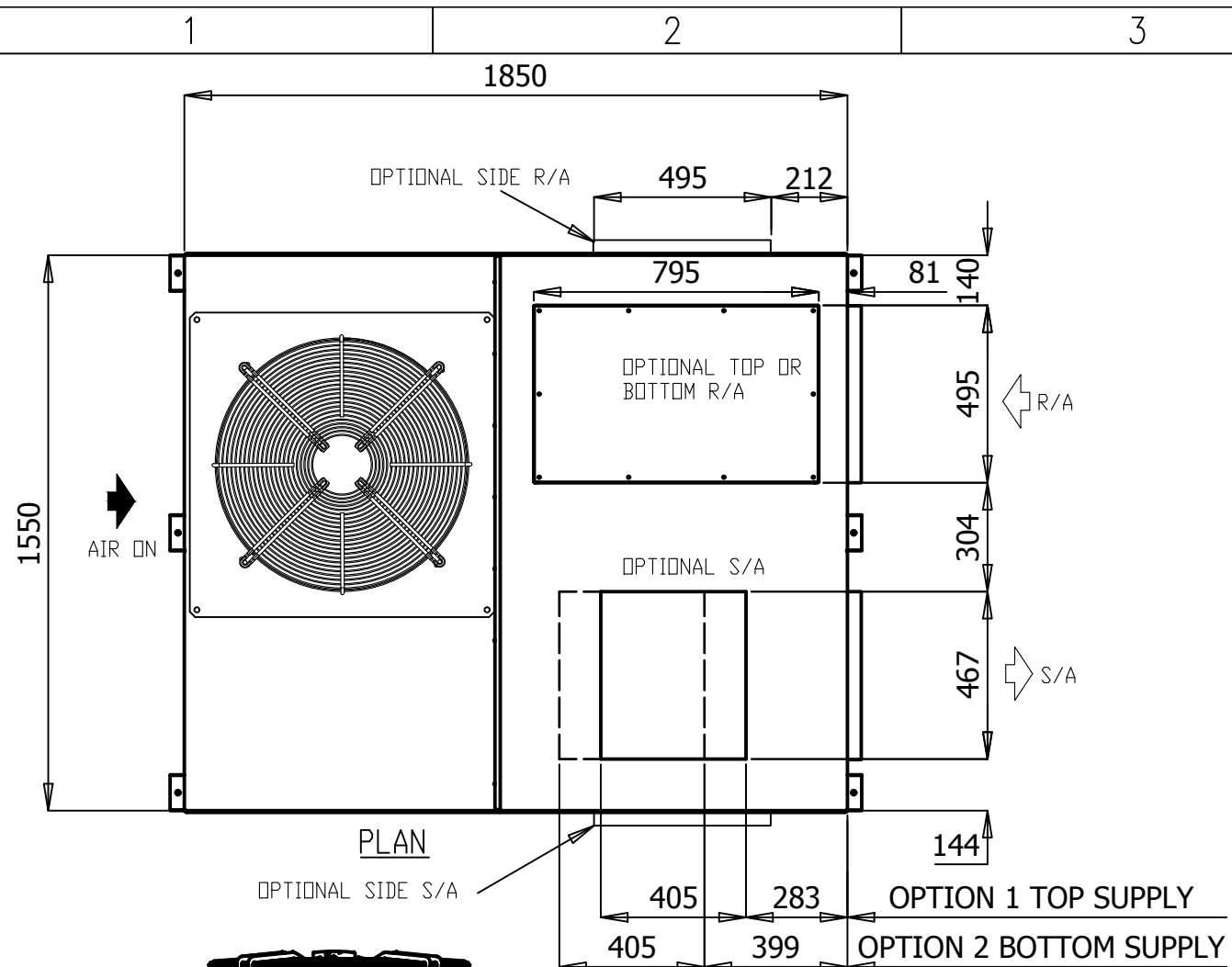


Fig 4. Air flow schematic of the right hand unit

CUSTOMER TO COMPLETE AND RETURN

CUSTOMER	PROJECT	UNIT REF	NAME / SIGN	DATE



- NOTES:
1. GENERAL ARRANGEMENT OF A HORIZONTAL AIR COOLED PACKED UNIT
 2. POWER AND FIELD CABLE ENTRIES, 1 x 32 ϕ AND 2 x 25 ϕ
 3. ELECTRICAL PANEL LOCATED BEHIND SERVICE ACCESS
 4. CONDENSATE OUTLET 25 ϕ
 5. UNIT BASE 6 x 12 ϕ FIXING POINTS
 6. UNIT HAS 4 x 12 ϕ LIFTING POINTS
 7. UNIT CONFIGURATION AS STANDARD IS REAR LEFT SUPPLY, REAR RIGHT RETURN, OTHER CONFIGURATIONS AVAILABLE.
 8. UNIT CONFIGURATION CAN BE CONVERTED IN FIELD WITH OPTIONAL ACCESSORIES.

- ALL DIMENSIONS IN mm.
- GENERAL TOLERANCE ± 1 mm.
- 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

P033AHR3SA- P038AHR3SA-

www.apacair.com.au

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	30.03.17	GAD0080	
		SCALE	N.T.S.		
		CHECKED	HA	APP'D.	CM



TECHNICAL DATA SHEET

MODEL NUMBER		P028AHR3SA-	P033AHR3SA-	P038AHR3SA-	P043AHR3SA-	P048AHR3SA-	
MEPS REGISTRATION NUMBER		AAC3205	AAC3214	AAC3200	AAC3280	AAC3282	
CONDENSER SECTION	CAPACITY						
	Cooling	kW TOTAL*	28.10	32.30	37.60	42.21	45.84
		kW SENSIBLE*	22.89	26.65	30.42	34.70	38.09
		EER (kW / ikW)*	3.21	3.25	3.30	3.20	3.16
	Heating	kW TOTAL	28.48	33.00	39.58	43.93	47.48
		COP	3.60	3.67	3.66	3.62	3.65
	CAPACITY STEPS (%)		50/100	50/100	50/100	50/100	50/100
	COMPRESSOR						
	TYPE		TANDEM SCROLL	TANDEM SCROLL	TANDEM SCROLL	TANDEM SCROLL	TANDEM 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, MOTOR OVERLOAD'S				
	ALL COMPRESSORS HAVE		CRANKCASE HEATER				
	FAN						
	TYPE		AXIAL	AXIAL	AXIAL	AXIAL	AXIAL
	ikW (MAX INPUT)		0.97	0.93	0.93	0.93	0.93
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		1	1	1	1	1
	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					
CHARGE PER CIRCUIT (KG)		5.75	6.75	9.5	11	10.8	
No. OF CIRCUITS		1	1	1	1	1	
REFRIGERANT CONTROL		TXV					
ALL SYSTEMS INCLUDE		DRIERS & SIGHT GLASSES					
EVAPORATOR SECTION	FAN						
	TYPE		CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
	ikW (MAX INPUT)		2.73	2.73	2.73	2.82	2.82
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		1	1	1	1	1
	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		1450	1775	1875	2200	2470	
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)		16.1	17.3	19.8	22.7	26.6
	MAX. F.L.A. (TOTAL SYSTEM)		26.8	29.3	35.7	35.8	38.2
	GENERAL						
	CABINET		GALVANISED SHEET STEEL				
	INSULATION		ALUMINIUM FOIL FACED POLYETHYLENE ACOUSTIC INSULATION				
	EXTERNAL FINISH		POLYESTER POWDER COAT - COLOUR LIGHT GREY AS STANDARD - OPTIONS AVAILABLE				
	DIMENSIONS						
	H X W X D (mm)		1350 x 1550 x 1850	1555 x 1550 x 1850		1760 x 1550 x 1850	
	WEIGHT						
OPERATING KG		425	470	490	540	570	
SHIPPING KG		430	475	495	545	575	
NOISE LEVELS [Based on condenser fan's sound data]							
Sound Power db(A)		67.9	68.5	68.5	68.5	68.5	

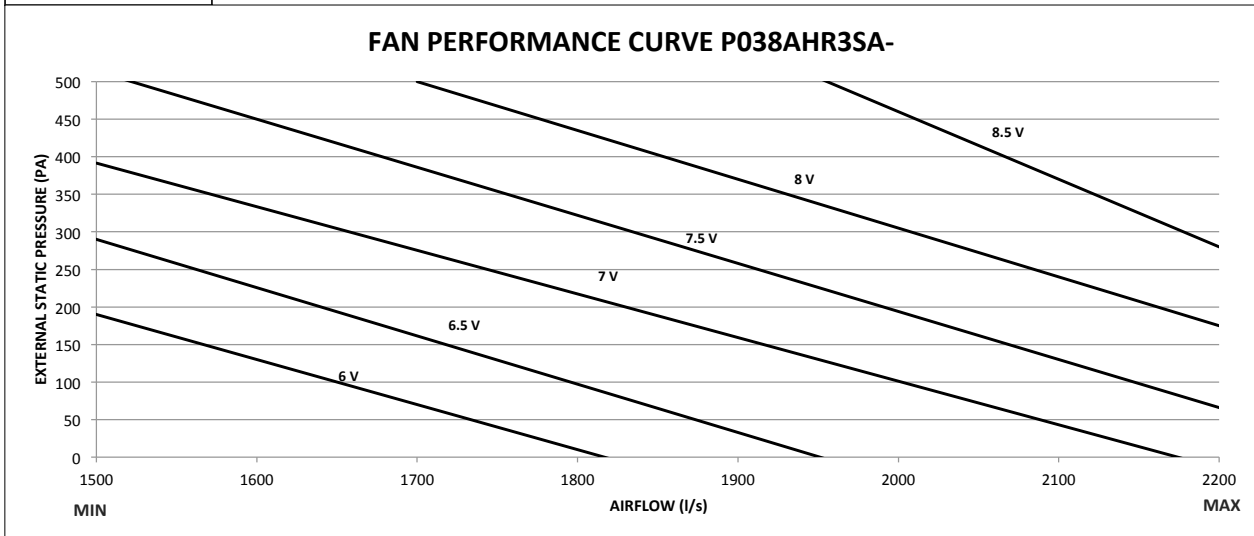
Note: Rated in accordance with Australian standard AS/NZS 3823.1:2012
 Performance excludes ikW of evaporator fan motor.
 R.L.A - Run Load Amps are based on current drawn at nominal conditions
 F.L.A - Full Load Amps are based on the overload settings [Max Current] of all Compressor and Fan Motor(s).

Date	Document #	Approved By	Revision
1/6/18	TDS0034	CM	B

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

FAN PERFORMANCE CURVE

P038AHR3SA-



Note:

1. 4V, 4.5V, 5V, 5.5V, 6V, 6.5 V and 7V 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
30.05.18	FPC0063	CM	B

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



SOUND DATA

MODEL NUMBER

P038AHR3SA-

Outdoor Fan

Sound Power Level dB(A)	Octave band Centre Frequency (hz), dB						
	125	250	500	1k	2k	4k	8k
68.5	70.9	65.9	63.5	61.6	62.7	59	55.4

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (hz), dB						
		125	250	500	1k	2k	4k	8k
84.2	1875	67.3	76.4	79.1	79.8	75.4	76.5	74.6

Date	Document #	Approved By	Revision
02.06.18	SD0051	CM	B

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

