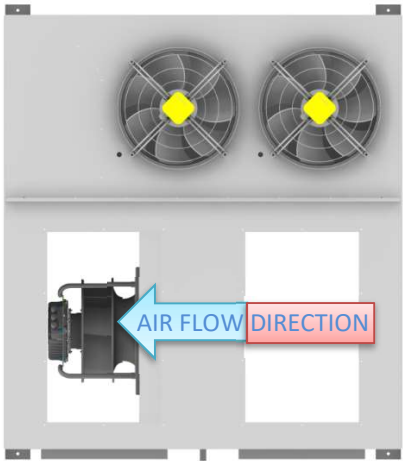


|                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SO NUMBER<br>(INTERNAL USE)   | WO NUMBER<br>(INTERNAL USE)                                                                                                                                                                                                                                                                                                                                                           |
| ROOF TOP PACKAGED UNITS (RTU) |                                                                                                                                                                                                                                                                                                                                                                                       |
| GENERAL                       | This document details the airside configurations available on 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      | <div><div>1.</div><div>2.</div><div>3.</div><div>4.</div></div> <div><div>Choose if the supply air position is required on the left, on the right, or centred.</div><div>Circle the required supply air outlet.</div><div>Circle the required return air inlet.</div><div>Complete the information at the bottom of this document and return to your APAC representative.</div></div> |

LEFT HAND SUPPLY AIR

APPLICABLE MODELS – P012-095AHR3SA

LEFT SIDE



RIGHT SIDE

Fig1. Left hand unit top view

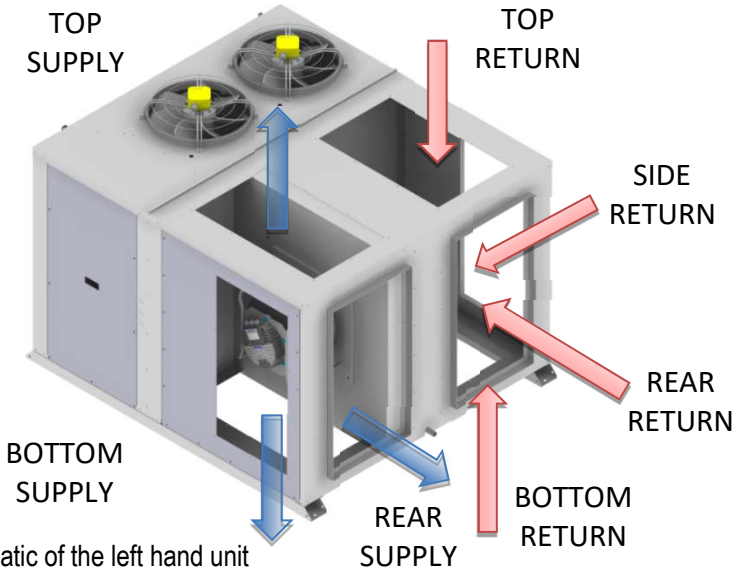
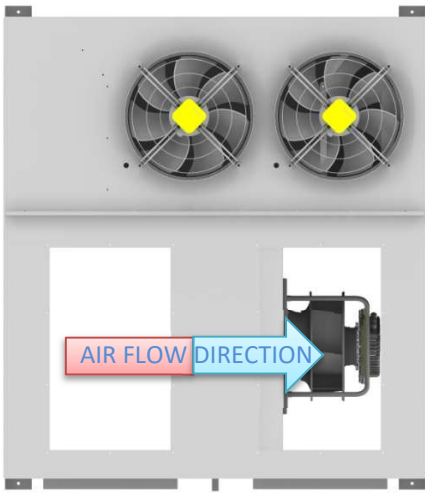


Fig2. Air flow schematic of the left hand unit

RIGHT HAND SUPPLY AIR

APPLICABLE MODELS – P012-095AHR3SA

LEFT SIDE



RIGHT SIDE

Fig3. Right hand unit top view

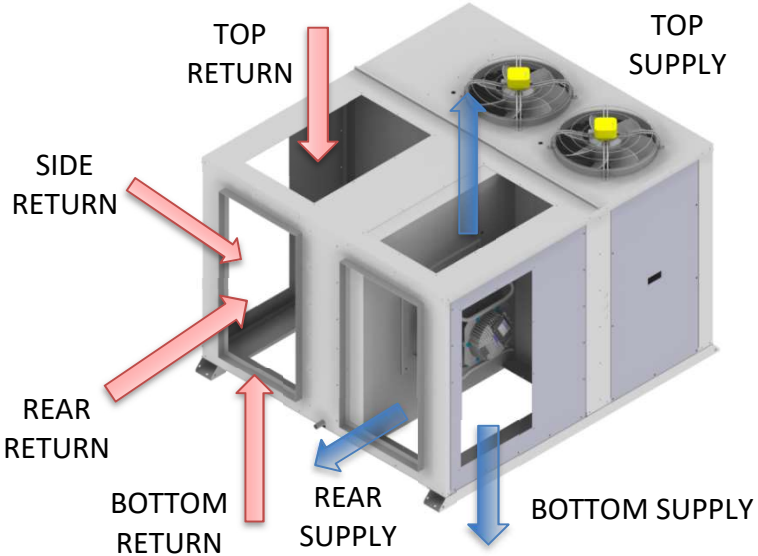


Fig 4. Air flow schematic of the right hand unit

CENTRED SUPPLY AIR

APPLICABLE MODELS – P085-095AHR3SA OPTION – P115-170AHR3SA STANDARD

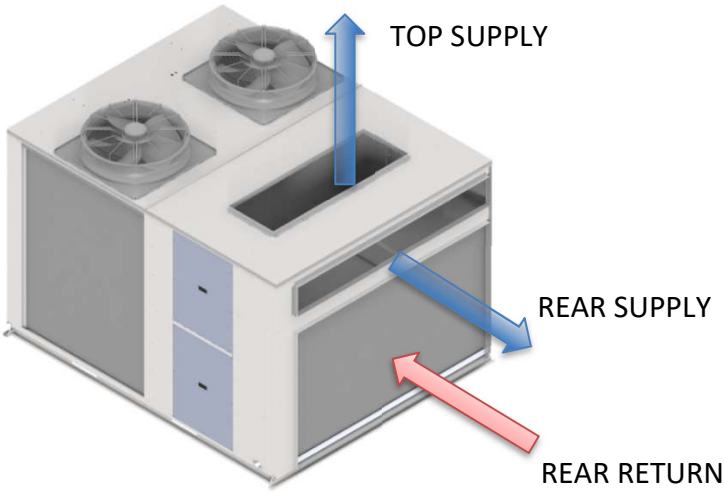


Fig5. Air flow schematic of the centred unit from above

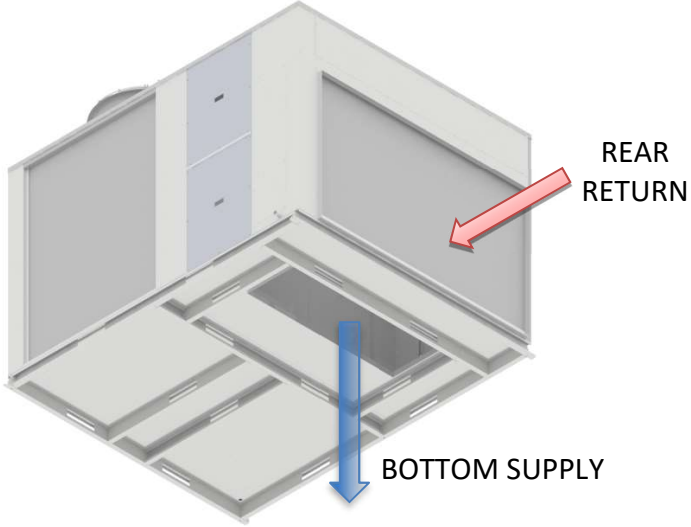
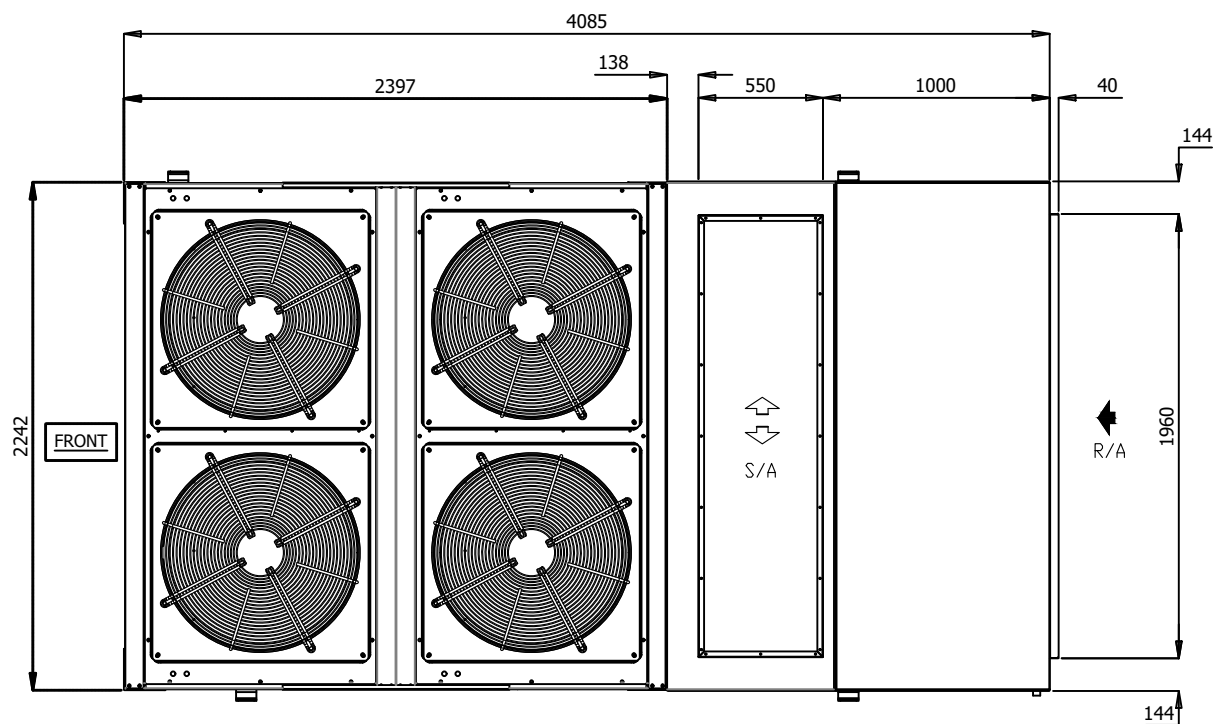


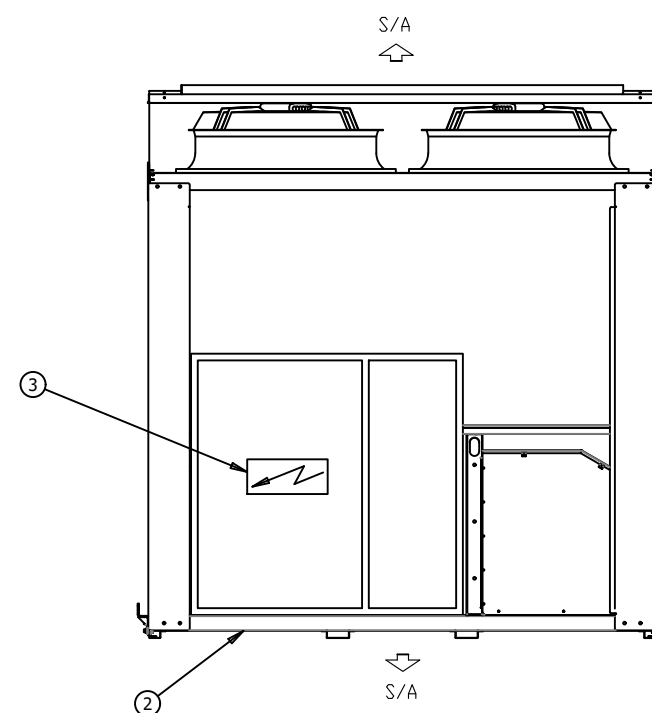
Fig6. Air flow schematic of the centred unit from below

CUSTOMER TO COMPLETE AND RETURN

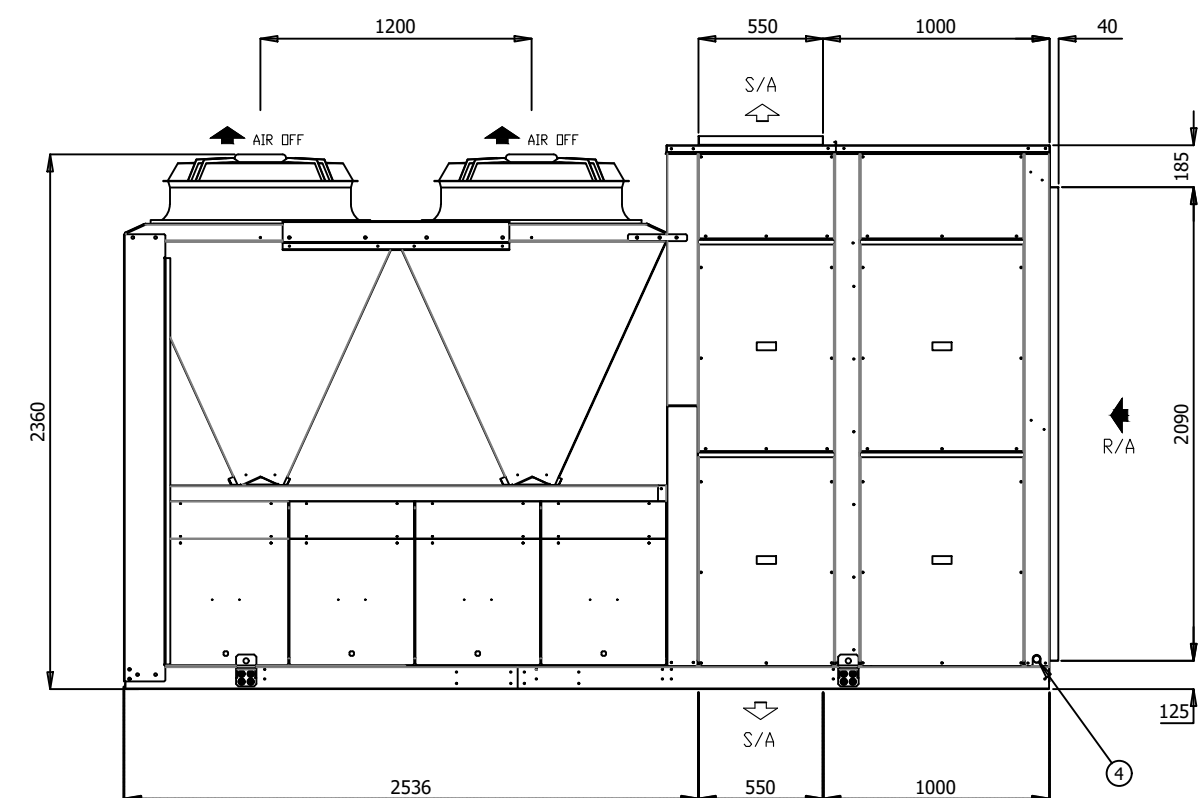
| CUSTOMER | PROJECT | UNIT REF | NAME / SIGN | DATE |
|----------|---------|----------|-------------|------|
|          |         |          |             |      |



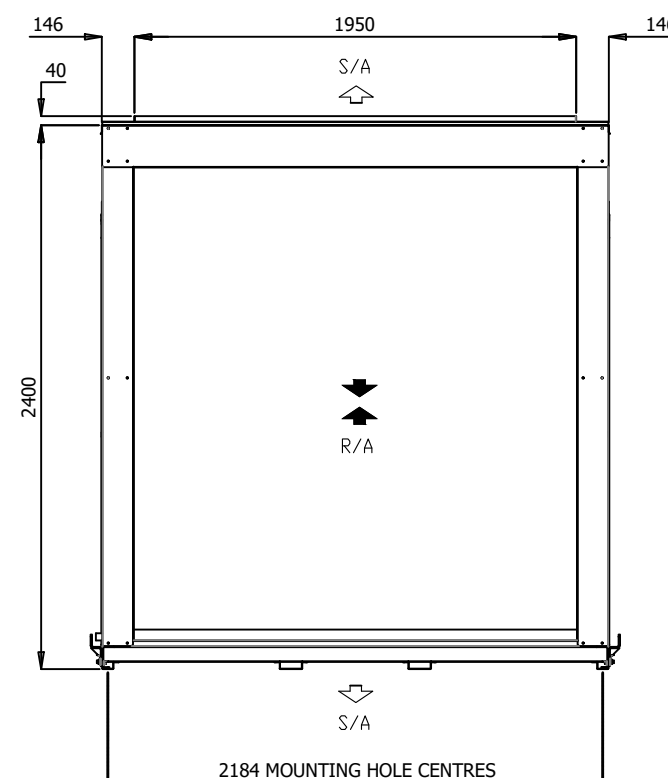
PLAN VIEW



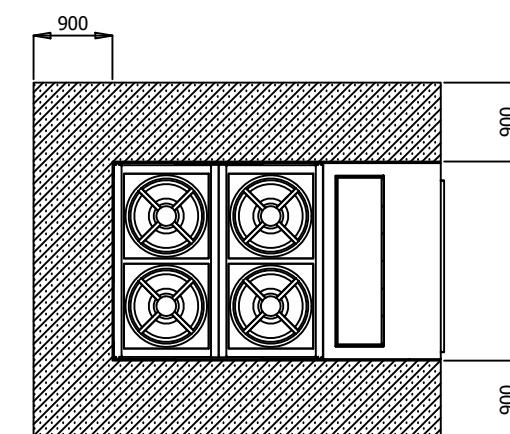
FRONT VIEW



RIGHT HAND ELEVATION



REAR VIEW



CLEARANCE DETAIL

1. GENERAL ARRANGEMENT OF A HORIZONTAL AIR COOLED PACKED UNIT
2. POWER AND FIELD CABLE ENTRIES, THROUGH GLAND PLATE
3. ELECTRICAL ENCLOSURE AT FRONT OF MACHINE
4. CONDENSATE OUTLETS 32Ø ON SIDE OF ENCLOSURE
5. UNIT BASE HAS 6 x 16Ø FIXING POINTS
6. UNIT HAS 4 x 23Ø LIFTING POINTS
7. UNIT CONFIGURATION AS STANDARD IS TOP SUPPLY, REAR RETURN, OTHER CONFIGURATIONS AVAILABLE.
8. UNIT CONFIGURATION CAN BE CONVERTED IN FIELD WITH OPTIONAL ACCESSORIES.

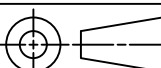
- ALL DIMENSIONS IN mm.
- GENERAL TOLERANCE  $\pm 1\text{mm}$ .
- DO NOT SCALE DRAWING.
- MASTER DRAWINGS ARE HELD ELECTRONICALLY. ANY COPY IS DEEMED UNCONTROLLED AND THEREFORE NOT NECESSARILY THE LATEST REVISION.
- ALL INFORMATION REMAINS THE PROPERTY OF THE COMPANY.

## GENERAL ARRANGEMENT

P200AHR3SA- P230AHR3SA-

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ABN: 74 005 138 769

| REVISION                                                                              |                                                                                       | UNIT LENGTH DIMENSION CORRECTED |          |             |    |        |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|----------|-------------|----|--------|
|  |  | DRAWN                           | HA       | DRAWING No. |    | A4     |
|                                                                                       |                                                                                       | DATE                            | 28.02.20 | GAD0156     |    |        |
|                                                                                       |                                                                                       | SCALE                           | N.T.S.   |             |    |        |
|                                                                                       |                                                                                       | CHECKED                         | NJ       | APP'D.      | PC | REV. C |

## TECHNICAL DATA SHEET

| MODEL NUMBER       |                                                           | P115AHR3SA-    | P150AHR3SA-            | P170AHR3SA-                                                               | P200AHR3SA-                      | P230AHR3SA-                        |
|--------------------|-----------------------------------------------------------|----------------|------------------------|---------------------------------------------------------------------------|----------------------------------|------------------------------------|
| CONDENSER SECTION  | <b>CAPACITY</b>                                           |                |                        |                                                                           |                                  |                                    |
|                    | Cooling                                                   | kW TOTAL*      | 111.44                 | 149.51                                                                    | 167.17                           | 222.89                             |
|                    |                                                           | kW SENSIBLE*   | 91.16                  | 121.25                                                                    | 136.74                           | 182.32                             |
|                    |                                                           | EER (kW / kW)* | 3.27                   | 3.47                                                                      | 3.27                             | 3.27                               |
|                    | Heating                                                   | kW TOTAL       | 109.10                 | 144.28                                                                    | 163.64                           | 218.19                             |
|                    |                                                           | COP            | 4.00                   | 4.01                                                                      | 4.00                             | 4.00                               |
|                    | CAPACITY STEPS (%)                                        |                | 0/25/50/75/100         | 0/16.66/33.33/50/66.66/83.33/100                                          | 0/16.66/33.33/50/66.66/83.33/100 | 0/12.5/25/37.5/50/62.5/75/87.5/100 |
|                    | CAPACITY STEPS (Qty)                                      |                | 4                      | 6                                                                         | 6                                | 8                                  |
|                    | <b>COMPRESSOR</b>                                         |                |                        |                                                                           |                                  |                                    |
|                    | TYPE                                                      |                | 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)             |
|                    | PHASE                                                     |                | 3Ø                     | 3Ø                                                                        | 3Ø                               | 3Ø                                 |
|                    | No. OFF                                                   |                | 2                      | 3                                                                         | 3                                | 4                                  |
|                    | PROTECTION DEVICES                                        |                |                        |                                                                           |                                  |                                    |
|                    | ALL COMPRESSORS HAVE                                      |                |                        |                                                                           |                                  |                                    |
|                    | <b>FAN</b>                                                |                |                        |                                                                           |                                  |                                    |
|                    | TYPE                                                      |                | EC AXIAL               | EC AXIAL                                                                  | EC AXIAL                         | EC AXIAL                           |
|                    | ikW (MAX INPUT)                                           |                | 1.95                   | 1.95                                                                      | 1.95                             | 1.95                               |
|                    | PHASE                                                     |                | 3Ø                     | 3Ø                                                                        | 3Ø                               | 3Ø                                 |
|                    | No. OFF                                                   |                | 2                      | 3                                                                         | 3                                | 4                                  |
|                    | FAN SPEED CONTROL                                         |                | VARIABLE SPEED         | VARIABLE SPEED                                                            | VARIABLE SPEED                   | VARIABLE SPEED                     |
|                    | <b>HEAT EXCHANGER</b>                                     |                |                        |                                                                           |                                  |                                    |
|                    | TYPE                                                      |                | PLATE FIN COIL         | PLATE FIN COIL                                                            | PLATE FIN COIL                   | PLATE FIN COIL                     |
|                    | NOM. AIRFLOW l/s                                          |                | -                      | -                                                                         | -                                | -                                  |
|                    | <b>REFRIGERANT SYSTEM</b>                                 |                |                        |                                                                           |                                  |                                    |
|                    | TYPE                                                      |                |                        |                                                                           |                                  |                                    |
|                    | CHARGE PER CIRCUIT (KG)                                   |                | 13.7                   | 13.7                                                                      | 13.7                             | 13.7                               |
|                    | No. OF CIRCUITS                                           |                | 2                      | 3                                                                         | 3                                | 4                                  |
|                    | REFRIGERANT CONTROL                                       |                |                        | TXV                                                                       |                                  |                                    |
|                    | ALL SYSTEMS INCLUDE                                       |                |                        |                                                                           |                                  |                                    |
| EVAPORATOR SECTION | <b>FAN</b>                                                |                |                        |                                                                           |                                  |                                    |
|                    | TYPE                                                      |                | EC PLUG                | EC PLUG                                                                   | EC PLUG                          | EC PLUG                            |
|                    | ikW (MAX INPUT)                                           |                | 3.45                   | 3.45                                                                      | 3.45                             | 3.45                               |
|                    | PHASE                                                     |                | 3Ø                     | 3Ø                                                                        | 3Ø                               | 3Ø                                 |
|                    | No. OFF                                                   |                | 2                      | 3                                                                         | 4                                | 4                                  |
|                    | FAN SPEED CONTROL                                         |                | VARIABLE SPEED         | VARIABLE SPEED                                                            | VARIABLE SPEED                   | VARIABLE SPEED                     |
|                    | <b>HEAT EXCHANGER</b>                                     |                |                        |                                                                           |                                  |                                    |
|                    | TYPE                                                      |                | PLATE FIN COIL         | PLATE FIN COIL                                                            | PLATE FIN COIL                   | PLATE FIN COIL                     |
|                    | NOM. AIRFLOW l/s                                          |                | 5750                   | 7500                                                                      | 8625                             | 10000                              |
|                    | EXT STATIC pa                                             |                |                        |                                                                           |                                  |                                    |
| COMBINED SECTIONS  | <b>ELECTRICAL</b>                                         |                |                        |                                                                           |                                  |                                    |
|                    | MAINS POWER                                               |                | 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                        |
|                    | L.P. CUT OUT / IN kPa                                     |                | 175 / 345              | 175 / 345                                                                 | 175 / 345                        | 175 / 345                          |
|                    | NOM. R.L.A. (TOTAL SYSTEM)                                |                | 59.4                   | 79.9                                                                      | 89.2                             | 106.5                              |
|                    | MAX. F.L.A. (TOTAL SYSTEM)                                |                | 100.4                  | 127.8                                                                     | 150.6                            | 170.4                              |
|                    | <b>GENERAL</b>                                            |                |                        |                                                                           |                                  |                                    |
|                    | CABINET                                                   |                |                        |                                                                           |                                  |                                    |
|                    | INSULATION                                                |                |                        | ALUMINIUM FOIL FACED POLYETHYLENE ACOUSTIC INSULATION                     |                                  |                                    |
|                    | EXTERNAL FINISH                                           |                |                        | POLYESTER POWDER COAT - COLOUR LIGHT GREY AS STANDARD - OPTIONS AVAILABLE |                                  |                                    |
|                    | <b>DIMENSIONS</b>                                         |                |                        |                                                                           |                                  |                                    |
|                    | H X W X D (mm)                                            |                | 2354 x 2242 x 2400     | 2400 x 2242 x 3735                                                        | 2400 x 2242 x 4085               |                                    |
|                    | <b>WEIGHT</b>                                             |                |                        |                                                                           |                                  |                                    |
|                    | OPERATING KG                                              |                | 1600                   | 1800                                                                      | 2000                             | 2200                               |
|                    | SHIPPING KG                                               |                | 1610                   | 1810                                                                      | 2010                             | 2210                               |
|                    | <b>NOISE LEVELS [Based on condenser fan's sound data]</b> |                |                        |                                                                           |                                  |                                    |
|                    | Sound Power db(A)                                         |                | 75.6                   | 77.4                                                                      | 77.4                             | 78.6                               |

**Note:** Rated in accordance with Australian standard AS/NZS 3823.1:2012  
Performance excludes kW 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).

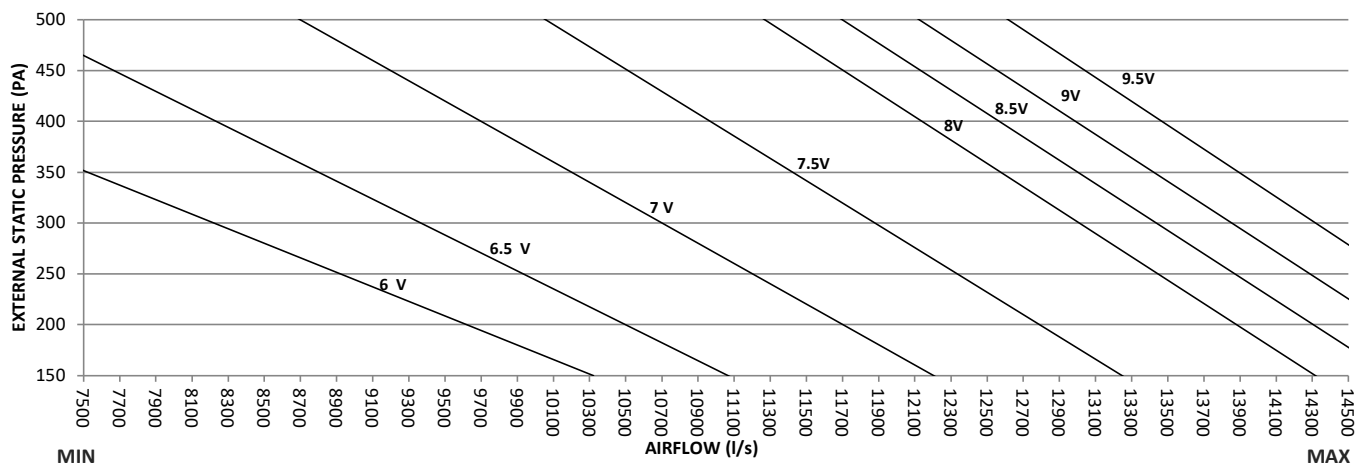
| Date   | Document # | Approved By | Revision |
|--------|------------|-------------|----------|
| 2/4/20 | TDS0035    | PC          | G        |

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

## FAN PERFORMANCE CURVE

**P200-230AHR3SA-**

**FAN PERFORMANCE CURVE P200-230AHR3SA-**



Note:

6V, 6.5V, 7V, 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 |
|----------|------------|-------------|----------|
| 01.07.21 | FPC0060    | PC          | C        |

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

## SOUND DATA

|                     |                    |
|---------------------|--------------------|
| <b>MODEL NUMBER</b> | <b>P200AHR3SA-</b> |
|---------------------|--------------------|

### Outdoor Fan

| Sound Power Level dB(A) | Octave band Centre Frequency (hz), dB |      |      |      |      |      |      |
|-------------------------|---------------------------------------|------|------|------|------|------|------|
|                         | 125                                   | 250  | 500  | 1k   | 2k   | 4k   | 8k   |
| 78.7                    | 72.7                                  | 69.5 | 74.5 | 75.4 | 70.9 | 67.2 | 63.2 |

### Indoor Fan

| Sound Power Level dB(A) | Air Flow (l/s) | Octave band Centre Frequency (hz), dB |      |     |      |      |      |      |
|-------------------------|----------------|---------------------------------------|------|-----|------|------|------|------|
|                         |                | 125                                   | 250  | 500 | 1k   | 2k   | 4k   | 8k   |
| 92.7                    | 10000          | 83                                    | 79.9 | 82  | 81.8 | 82.8 | 90.3 | 69.8 |

|                     |                    |
|---------------------|--------------------|
| <b>MODEL NUMBER</b> | <b>P230AHR3SA-</b> |
|---------------------|--------------------|

### Outdoor Fan

| Sound Power Level dB(A) | Octave band Centre Frequency (hz), dB |      |      |      |      |      |      |
|-------------------------|---------------------------------------|------|------|------|------|------|------|
|                         | 125                                   | 250  | 500  | 1k   | 2k   | 4k   | 8k   |
| 78.7                    | 72.7                                  | 69.5 | 74.5 | 75.4 | 70.9 | 67.2 | 63.2 |

### Indoor Fan

| Sound Power Level dB(A) | Air Flow (l/s) | Octave band Centre Frequency (hz), dB |      |      |      |      |      |      |
|-------------------------|----------------|---------------------------------------|------|------|------|------|------|------|
|                         |                | 125                                   | 250  | 500  | 1k   | 2k   | 4k   | 8k   |
| 95.8                    | 11500          | 84.9                                  | 82.4 | 85.2 | 85.1 | 83.8 | 93.8 | 73.7 |

| Date     | Document # | Approved By | Revision |
|----------|------------|-------------|----------|
| 01.07.21 | SD0056     | PC          | C        |

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