

# PACKAGE AIR COOLED CHILLER UNIT

MODEL: PNSA-U-CWB

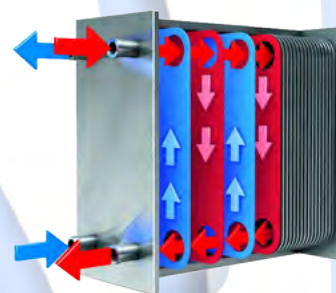
CAPACITY: 6.7 to 32.4 Nominal Tons

70,000 to 370,000 BtuH

23.4 to 114.0 KW



VERTICAL (STANDARD)



## Evaporator

- independent refrigerant circuit
- Brazed plate heat exchanger
- Insulated with a closed-cell insulation

## Features/Benefits

The PNSA-CWB unit has a compact design that is up to 30% smaller than earlier air-cooled chillers. The compact footprint can yield substantial installation savings by requiring less structural steel, concrete, security fencing or architectural screening. The PNSA-CWB unit is delivered as a complete package for easy installation. A quick start-up is assured once installation is complete, since each PNSA-CWB unit is manufactured at an ISO 9002 listed manufacturing facility to ensure quality. In addition, all units are factory run tested under full load to provide reliable start-up.

## PHYSICAL DATA & ELECTRICAL DATA

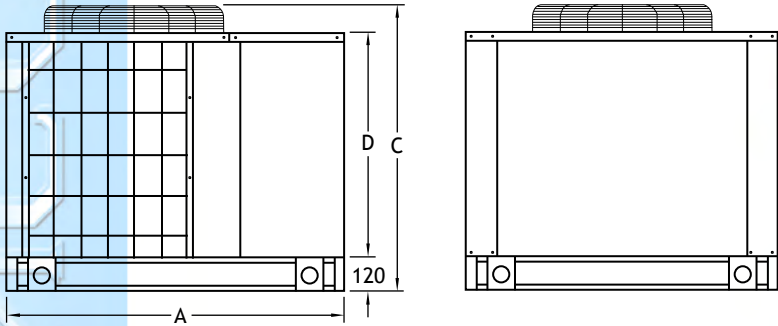
| MODEL: PNSA-U-CWB            |                     | 007   | 009    | 010    | 012     | 015     | 020     | 025     | 030     | 040     |  |
|------------------------------|---------------------|---|--------|--------|---------|---------|---------|---------|---------|---------|--|
| Nominal Cooling Capacity     | BTUH                | 70,000  | 80,000 | 95,000 | 120,000 | 145,000 | 185,000 | 240,000 | 290,000 | 370,000 |  |
|                              | Tons                | 6.67  | 7.56   | 9.58   | 10.38   | 12.83   | 15.67   | 19.17   | 23.25   | 32.42   |  |
|                              | KWH                 | 23.4  | 26.6   | 33.7   | 36.5    | 45.1    | 55.1    | 67.4    | 81.8    | 114.0   |  |
| Rated Voltage                |                     | 380V / 3P / 50Hz - 440V / 3P / 60Hz                             |        |        |         |         |         |         |         |         |  |
| Power Consumption            |                     | 7.39  | 8.67   | 10.43  | 12.27   | 14.47   | 19.05   | 23.07   | 28.71   | 37.87   |  |
| Compressor Type              |                     | HERMETIC ( SCROLL )   |        |        |         |         |         |         |         |         |  |
| Circuit                      |                     | 1   |        |        |         |         | 2       |         |         |         |  |
| Condenser Coil               | Type/Material       | Aluminium / Copper Corrugated Fin With Inner Groove Copper Tube |        |        |         |         |         |         |         |         |  |
|                              | Face area (Sq. Ft.) | 14.22   | 24.00  |        | 32.00   | 41.67   | 47.78   |         | 67.22   |         |  |
|                              | Rows..Fins/In       | 2....16   |        |        |         |         |         | 3....14 |         | 3....10 |  |
|                              | Tube Size (in)      | 3/8   |        |        |         |         |         |         |         |         |  |
| Condenser Fan                | Type                | Propeller Fan : Vertical Discharge : Direct Drive               |        |        |         |         |         |         |         |         |  |
|                              | Diameter (in)       | 24  |        | 30     |         | 24      |         | 30      |         |         |  |
|                              | Diameter (mm)       | 610   |        | 761    |         | 610     |         | 761     |         |         |  |
|                              | Rpm.                | 900   |        |        |         |         |         |         |         |         |  |
|                              | Qty./Unit           | 1   |        |        | 2       |         |         | 3       |         |         |  |
|                              | Each Motor (H.P.)   | 3/4   |        | 1      |         | 3/4     |         | 1       |         |         |  |
|                              | Air Quantity (CFM)  | 7,000   | 8,000  | 10,000 |         | 14,000  |         | 20,000  |         | 30,000  |  |
| Refrigerant                  | Type                | R-22 (R-407C On Request Only)                                   |        |        |         |         |         |         |         |         |  |
|                              | Charge              | Nitrogen  |        |        |         |         |         |         |         |         |  |
| Water Chiller                |                     | Plate Heat Exchanger  |        |        |         |         |         |         |         |         |  |
| Chilled Water Flowrate       | GPM                 | 14  | 16     | 19     | 24      | 29      | 37      | 48      | 58      | 74      |  |
| Chilled Water Temp. In / Out | deg. C              | 12.8 / 7.2  |        |        |         |         |         |         |         |         |  |
| Chilled Water pressure Drop  | Ft. WG              | 7.38  | 6.71   | 6.87   | 6.07    | 7.50    | 7.15    | 6.07    | 7.50    | 7.15    |  |
| Water Connection In / Out    | Inch                | 1   |        |        | 1-1/4   |         |         | 2       |         |         |  |
| Compressor (Each)            | V / Ph / Hz         | 415 / 3 / 50 - 440 / 3 / 60                                     |        |        |         |         |         |         |         |         |  |
|                              | Power Input (Watt)  | 6,542   | 7,821  | 8,957  | 10,800  | 13,622  | 18,200  | 10,800  | 13,622  | 18,200  |  |
|                              | FLA. (Amp.)         | 12.1  | 14.3   | 20.7   | 22.9    | 24.2    | 35.7    | 22.9    | 24.2    | 35.7    |  |
|                              | LRA. (Amp.)         | 98  | 130    |        | 145     | 175     | 215     | 145     | 175     | 215     |  |
| Fan Motor (Each)             | V / Ph / Hz         | 415 / 3 / 50 - 440 / 3 / 60                                     |        |        |         |         |         |         |         |         |  |
|                              | Power Input (Watt)  | 850   |        |        | 1,470   |         |         | 850     |         | 1,470   |  |
|                              | FLA. (Amp.)         | 1.2   |        | 2.3    |         | 1.2     |         | 2.3     |         |         |  |
| Weight Operation             | (Kgs.)              | 214   | 233    | 302    | 337     | 427     | 470     | 514     | 572     | 740     |  |

**NOTE:**

\* Nominal capacity based on 7.2 deg. C section temperature and 35 deg. C ambient temperature

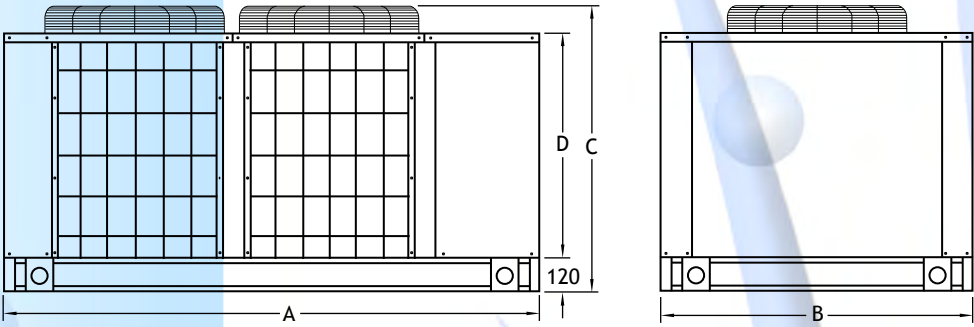
# DIMENSIONAL DRAWING

**PNSA-U-CWB-007-012**



| PNSA-U-CWB | A    | B    | C    | D   |
|------------|------|------|------|-----|
|            | (mm) |      |      |     |
| 007        | 1240 | 850  | 1044 | 822 |
| 009        | 1600 | 1140 | 1044 | 822 |
| 010        |      |      |      |     |
| 012        |      |      |      |     |

**PNSA-U-CWB-015-030**



| PNSA-U-CWB | A    | B    | C    | D    |
|------------|------|------|------|------|
|            | (mm) |      |      |      |
| 015        | 2140 | 1140 | 1044 | 822  |
| 020        |      |      |      |      |
| 025        | 2500 |      | 1247 | 1025 |
| 030        |      |      |      |      |

**PNSA-U-CWB-040**

