

Models: PCP 08, 10, 12



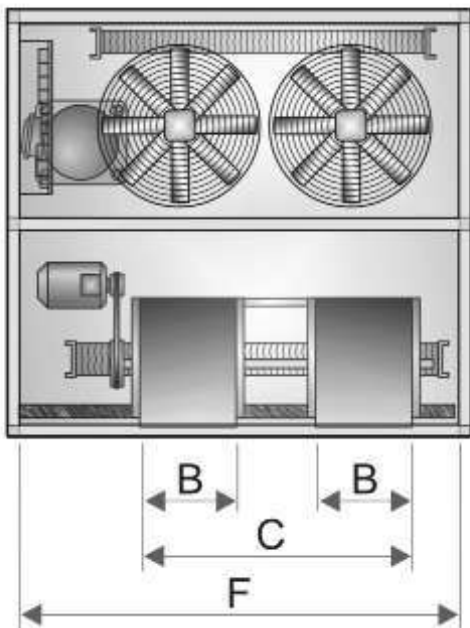
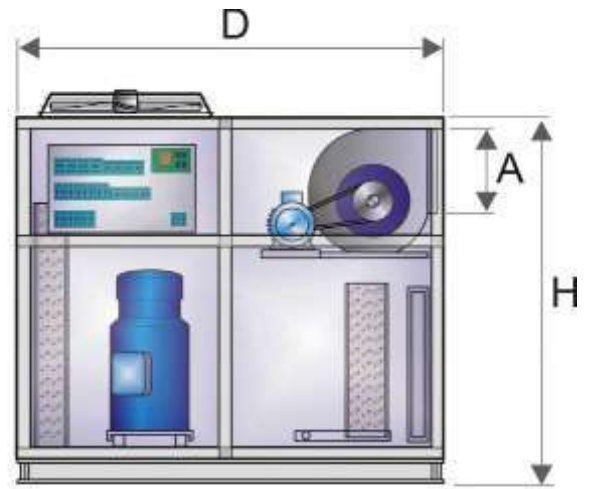
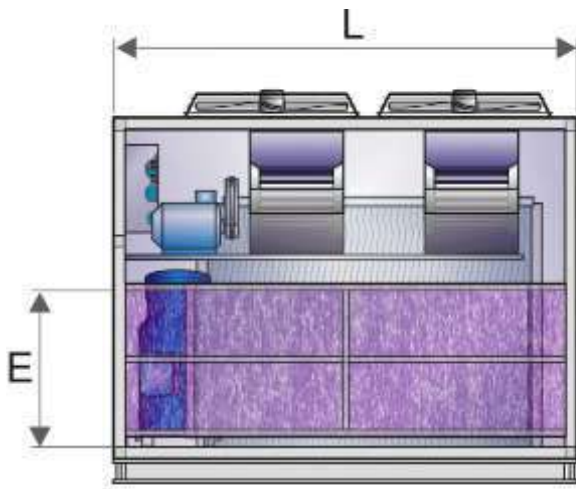
PERFORMANCE

| Model  |         | PCP 08          | PCP 10       | PCP 12       |
|--|---------|-----------------|--------------|--------------|
| Cooling Capacity <sup>1</sup>                      | Btu/h   | 100000          | 125000       | 150000       |
|  | Watt    | 29250           | 36563        | 43875        |
| Heating Capacity <sup>2</sup>                      | Btu/h   | 96160           | 120200       | 144240       |
|  | Watt    | 28127           | 35159        | 42190        |
| Power Consumption - Cooling / Heating              | Watt    | 10000/9300      | 12300/ 11250 | 14300/ 13375 |
| Operating Current - Cooling / Heating <sup>3</sup> | Amp     | 20.2/18.9       | 24.5/22.3    | 30.7/29.2    |
| C.O.P - Cooling / Heating                          |         | 2.9/3.0         | 3.0/3.1      | 3.1/3.2      |
| Power Supply                                       | V/Ph/Hz | 400V, 3Ph, 50Hz |              |              |
| Time Delay Fuse                                    | Amp     | 3x32-C          | 3x32-C       | 3x40-C       |

TECHNICAL DATA

| Model                            |                         | PCP 08                          | PCP 10        | PCP 12        |           |
|----------------------------------|-------------------------|---------------------------------|---------------|---------------|-----------|
| <b>CONDENSER SIDE</b>            |                         |                                 |               |               |           |
| Air flow (at high speed)         | cfm (m <sup>3</sup> /h) | 10400 (17680)                   | 10400 (17680) | 10400 (17680) |           |
| Noise Level                      | dBa                     | 64                              | 64            | 64            |           |
| No./Axial Fan Diameter           | mm                      | 2/630                           | 2/630         | 2/630         |           |
| Speed                            | R.P.M                   | 900                             | 900           | 900           |           |
| Condenser Coil                   | Face Area               | ft <sup>2</sup> /m <sup>2</sup> | 11.8/1.1      | 19.8/1.83     | 21.3/1.97 |
|                                  | Rows Deep               |                                 | 4             | 3             | 3         |
| Compressor                       |                         | 1-Scroll                        | 1-Scroll      | 1-Scroll      |           |
| <b>EVAPORATOR SIDE</b>           |                         |                                 |               |               |           |
| Air flow (at high speed)         | cfm (m <sup>3</sup> /h) | 3200 (5440)                     | 4000 (6800)   | 4800 (8160)   |           |
| Centrifugal Fan                  | Size                    | inch                            | 10"x10"       | 10"x10"       | 12"x12"   |
|                                  | Speed                   | R.P.M                           | 1220          | 1160          | 990       |
|                                  | Motor                   | kW                              | 1.5           | 1.5           | 2.2       |
| Net Static Pressure <sup>4</sup> | mm H <sub>2</sub> O     | 15                              | 15            | 15            |           |
| Evaporator Coil                  | Face Area               | ft <sup>2</sup> /m <sup>2</sup> | 6.4/0.6       | 8.1/0.75      | 9.5/0.89  |
|                                  | Rows Deep               |                                 | 4             | 4             | 4         |
| Filters 2"                       | No - Height x Length    | mm                              | 3-600x600     | 3-600x600     | 3-600x600 |

NOTES: 1. Nominal cooling capacity based on indoor air temp. 27°C DB/19°C WB and outdoor air temp. 35°C DB/24°C WB.  
 2. Nominal heating capacity based on indoor air temp. 20°C DB and outdoor air temp. 7°C DB/6°C WB.  
 3. Operating current measured at the most loaded phase.  
 4. Net static pressure available at fan discharge at nominal capacity.



## DIMENSIONS AND WEIGHTS

| Model                    |               |      | PCP 08                   | PCP 10 | PCP 12                    |
|--------------------------|---------------|------|--------------------------|--------|---------------------------|
| Dimensions               | LxDxH         | mm   | 2050x2000x1650           |        |                           |
|                          | A, B, C, E, F | mm   | 290, 331, 926, 700, 1950 |        | 345, 395, 1114, 700, 1950 |
| Net Weight               |               | kg   | 600                      | 660    | 730                       |
| Condensate Lines - Drain |               | Ø in | BSP 1-1/4"               |        |                           |

NOTES: Units with spring mounted Evaporator fan are 200 mm higher.



PCP 08

| COOLING CAPACITY |     |                   |       |                   |        |                   |        |                   |        |                   |        |                   |        |
|------------------|-----|-------------------|-------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
|                  |     | 4 Row Coil        |       |                   |        |                   |        | 6 Row Coil        |        |                   |        |                   |        |
|                  |     | 27°C DB / 17°C WB |       | 27°C DB / 19°C WB |        | 27°C DB / 22°C WB |        | 27°C DB / 17°C WB |        | 27°C DB / 19°C WB |        | 27°C DB / 22°C WB |        |
| OUT              | IN  | Watt              | Btu/h | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  |
| 29.5°C DB        | TC  | 28665             | 98000 | 31005             | 106000 | 33345             | 114000 | 29835             | 102000 | 32175             | 110000 | 34515             | 118000 |
|                  | SCC | 20949             | 71479 | 21872             | 74628  | 22370             | 76480  | 24135             | 82348  | 25214             | 86032  | 26149             | 89400  |
|                  | CPI | 7250              |       | 7500              |        | 7700              |        | 7300              |        | 7700              |        | 7900              |        |
| 35°C DB          | TC  | 27203             | 93000 | 29250             | 100000 | 31590             | 108000 | 28373             | 97000  | 30420             | 104000 | 32760             | 112000 |
|                  | SCC | 20511             | 70124 | 21256             | 72525  | 21639             | 73980  | 23555             | 80533  | 24502             | 83768  | 25064             | 85690  |
|                  | CPI | 8300              |       | 8500              |        | 8700              |        | 8400              |        | 8600              |        | 8800              |        |
| 40.5°C DB        | TC  | 25740             | 88000 | 27495             | 94000  | 29835             | 102000 | 26618             | 91000  | 28665             | 98000  | 31005             | 106000 |
|                  | SCC | 20179             | 68849 | 20944             | 71460  | 21206             | 72500  | 23154             | 79003  | 24128             | 82326  | 24540             | 83900  |
|                  | CPI | 9400              |       | 9500              |        | 9800              |        | 9400              |        | 9700              |        | 10000             |        |

| HEATING CAPACITY |     |            |        |         |        |           |        |            |        |         |        |           |        |
|------------------|-----|------------|--------|---------|--------|-----------|--------|------------|--------|---------|--------|-----------|--------|
|                  |     | 4 Row Coil |        |         |        |           |        | 6 Row Coil |        |         |        |           |        |
|                  |     | 15.6°C DB  |        | 21°C DB |        | 26.7°C DB |        | 15.6°C DB  |        | 21°C DB |        | 26.7°C DB |        |
| OUT              | IN  | Watt       | Btu/h  | Watt    | Btu/h  | Watt      | Btu/h  | Watt       | Btu/h  | Watt    | Btu/h  | Watt      | Btu/h  |
| 6°C DB           | HC  | 28618      | 97840  | 28127   | 96160  | 27671     | 94600  | 28782      | 98400  | 28501   | 97440  | 28080     | 96000  |
|                  | CPI | 7100       |        | 7760    |        | 8500      |        | 6400       |        | 7100    |        | 7840      |        |
| 10°C DB          | HC  | 31777      | 108640 | 31099   | 106320 | 30525     | 104360 | 32175      | 110000 | 31649   | 108200 | 31064     | 106200 |
|                  | CPI | 7440       |        | 8160    |        | 8900      |        | 6900       |        | 7520    |        | 8240      |        |

| AIR SUPPLY |                   |   |     |           |     |         |     |           |     |   |     |           |     |         |     |           |     |
|------------|-------------------|---|-----|-----------|-----|---------|-----|-----------|-----|---|-----|-----------|-----|---------|-----|-----------|-----|
| Air Flow   |                   | 4 Row Coil  |     |           |     |         |     |           |     | 6 Row Coil  |     |           |     |         |     |           |     |
|            |                   | External Static Pressure – Pa (inch H <sub>2</sub> O) |     |           |     |         |     |           |     | External Static Pressure – Pa (inch H <sub>2</sub> O) |     |           |     |         |     |           |     |
|            |                   | 150 (0.6)   |     | 200 (0.8) |     | 250 (1) |     | 300 (1.2) |     | 150 (0.6)   |     | 200 (0.8) |     | 250 (1) |     | 300 (1.2) |     |
| cfm        | m <sup>3</sup> /h | RPM   | kW  | RPM       | kW  | RPM     | kW  | RPM       | kW  | RPM   | kW  | RPM       | kW  | RPM     | kW  | RPM       | kW  |
| 3200       | 5440              | 1220  | 1.5 | 1280      | 1.5 | 1350    | 1.5 | 1400      | 2.2 | 1280  | 1.5 | 1350      | 1.5 | 1400    | 2.2 | 1450      | 2.2 |

TC-Total Cooling Capacity | SCC-Sensible Cooling Capacity | CPI-Compressor Power Input (W) | HC-Heating Capacity





# PCP 10

| COOLING CAPACITY |     |                   |        |                   |        |                   |        |                   |        |                   |        |                   |        |
|------------------|-----|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
|                  |     | 4 Row Coil        |        |                   |        |                   |        | 6 Row Coil        |        |                   |        |                   |        |
|                  |     | 27°C DB / 17°C WB |        | 27°C DB / 19°C WB |        | 27°C DB / 22°C WB |        | 27°C DB / 17°C WB |        | 27°C DB / 19°C WB |        | 27°C DB / 22°C WB |        |
| OUT              | IN  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  |
| 29.5°C DB        | TC  | 35685             | 122000 | 38610             | 132000 | 41535             | 142000 | 37148             | 127000 | 40073             | 137000 | 43290             | 148000 |
|                  | SCC | 27524             | 94100  | 28372             | 97000  | 28986             | 99100  | 29103             | 99500  | 31346             | 106953 | 31648             | 108200 |
|                  | CPI | 9650              |        | 9900              |        | 10100             |        | 9700              |        | 10100             |        | 10300             |        |
| 35°C DB          | TC  | 33930             | 116000 | 36563             | 125000 | 39488             | 135000 | 35393             | 121000 | 38025             | 130000 | 40950             | 140000 |
|                  | SCC | 26383             | 90200  | 26705             | 91300  | 27261             | 93200  | 28167             | 96300  | 29250             | 100000 | 29835             | 102000 |
|                  | CPI | 10700             |        | 10900             |        | 11100             |        | 10800             |        | 11000             |        | 11200             |        |
| 40.5°C DB        | TC  | 32175             | 110000 | 34515             | 118000 | 37148             | 127000 | 33345             | 114000 | 35978             | 123000 | 38610             | 132000 |
|                  | SCC | 25740             | 88000  | 26055             | 88900  | 26129             | 89333  | 27290             | 93300  | 28138             | 96200  | 28986             | 99100  |
|                  | CPI | 11800             |        | 11900             |        | 12200             |        | 11800             |        | 12100             |        | 12400             |        |

| HEATING CAPACITY |     |            |        |         |        |           |        |            |        |         |        |           |        |
|------------------|-----|------------|--------|---------|--------|-----------|--------|------------|--------|---------|--------|-----------|--------|
|                  |     | 4 Row Coil |        |         |        |           |        | 6 Row Coil |        |         |        |           |        |
|                  |     | 15.6°C DB  |        | 21°C DB |        | 26.7°C DB |        | 15.6°C DB  |        | 21°C DB |        | 26.7°C DB |        |
| OUT              | IN  | Watt       | Btu/h  | Watt    | Btu/h  | Watt      | Btu/h  | Watt       | Btu/h  | Watt    | Btu/h  | Watt      | Btu/h  |
| 6°C DB           | HC  | 35773      | 122300 | 35159   | 120200 | 34588     | 118250 | 35978      | 123000 | 35627   | 121800 | 35100     | 120000 |
|                  | CPI | 8850       |        | 9700    |        | 10600     |        | 8000       |        | 8850    |        | 9800      |        |
| 10°C DB          | HC  | 39722      | 135800 | 38873   | 132900 | 38157     | 130450 | 40190      | 137400 | 39546   | 135200 | 38815     | 132700 |
|                  | CPI | 9300       |        | 10200   |        | 11100     |        | 8600       |        | 9400    |        | 10300     |        |

| AIR SUPPLY |                   |   |     |           |     |         |     |           |    |   |     |           |     |         |    |           |    |
|------------|-------------------|---|-----|-----------|-----|---------|-----|-----------|----|---|-----|-----------|-----|---------|----|-----------|----|
| Air Flow   |                   | 4 Row Coil  |     |           |     |         |     |           |    | 6 Row Coil  |     |           |     |         |    |           |    |
|            |                   | External Static Pressure - Pa (inch H <sub>2</sub> O) |     |           |     |         |     |           |    | External Static Pressure - Pa (inch H <sub>2</sub> O) |     |           |     |         |    |           |    |
|            |                   | 150 (0.6)   |     | 200 (0.8) |     | 250 (1) |     | 300 (1.2) |    | 150 (0.6)   |     | 200 (0.8) |     | 250 (1) |    | 300 (1.2) |    |
| cfm        | m <sup>3</sup> /h | RPM   | kW  | RPM       | kW  | RPM     | kW  | RPM       | kW | RPM   | kW  | RPM       | kW  | RPM     | kW | RPM       | kW |
| 4000       | 6800              | 1160  | 1.5 | 1200      | 1.5 | 1250    | 2.2 | 1300      | 3  | 1200  | 2.2 | 1250      | 2.2 | 1300    | 3  | 1350      | 3  |

TC-Total Cooling Capacity | SCC-Sensible Cooling Capacity | CPI-Compressor Power Input (W) | HC-Heating Capacity



PCP 12

| COOLING CAPACITY |     |                   |        |                   |        |                   |        |                   |        |                   |        |                   |        |
|------------------|-----|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
|                  |     | 4 Row Coil        |        |                   |        |                   |        | 6 Row Coil        |        |                   |        |                   |        |
|                  |     | 27°C DB / 17°C WB |        | 27°C DB / 19°C WB |        | 27°C DB / 22°C WB |        | 27°C DB / 17°C WB |        | 27°C DB / 19°C WB |        | 27°C DB / 22°C WB |        |
| OUT              | IN  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  | Watt              | Btu/h  |
| 29.5°C DB        | TC  | 42705             | 146000 | 46215             | 158000 | 49725             | 170000 | 44460             | 152000 | 47970             | 164000 | 52065             | 178000 |
|                  | SCC | 34368             | 117500 | 35480             | 121300 | 36621             | 125200 | 36445             | 124600 | 37522             | 128024 | 38091             | 130226 |
|                  | CPI | 11500             |        | 11700             |        | 11900             |        | 11500             |        | 11900             |        | 12100             |        |
| 35°C DB          | TC  | 40658             | 139000 | 43875             | 150000 | 47385             | 162000 | 42413             | 145000 | 45630             | 156000 | 49140             | 168000 |
|                  | SCC | 32847             | 112300 | 33315             | 113900 | 34076             | 116500 | 35097             | 119750 | 35538             | 121500 | 36676             | 125388 |
|                  | CPI | 12500             |        | 12700             |        | 12900             |        | 12600             |        | 12800             |        | 13000             |        |
| 40.5°C DB        | TC  | 38610             | 132000 | 41535             | 142000 | 44460             | 152000 | 40073             | 137000 | 43290             | 148000 | 46215             | 158000 |
|                  | SCC | 32350             | 110600 | 32555             | 111300 | 33169             | 113400 | 34456             | 117564 | 35906             | 122510 | 36527             | 124880 |
|                  | CPI | 13600             |        | 13700             |        | 14000             |        | 13600             |        | 13900             |        | 14200             |        |

| HEATING CAPACITY |     |            |        |         |        |           |        |            |        |         |        |           |        |
|------------------|-----|------------|--------|---------|--------|-----------|--------|------------|--------|---------|--------|-----------|--------|
|                  |     | 4 Row Coil |        |         |        |           |        | 6 Row Coil |        |         |        |           |        |
|                  |     | 15.6°C DB  |        | 21°C DB |        | 26.7°C DB |        | 15.6°C DB  |        | 21°C DB |        | 26.7°C DB |        |
| OUT              | IN  | Watt       | Btu/h  | Watt    | Btu/h  | Watt      | Btu/h  | Watt       | Btu/h  | Watt    | Btu/h  | Watt      | Btu/h  |
| 6°C DB           | HC  | 42939      | 146800 | 42190   | 144240 | 41506     | 141900 | 43173      | 147600 | 42752   | 146160 | 42120     | 144000 |
|                  | CPI | 10620      |        | 11640   |        | 12720     |        | 9600       |        | 10620   |        | 11760     |        |
| 10°C DB          | HC  | 47678      | 163000 | 46648   | 159480 | 45788     | 156540 | 48263      | 165000 | 47455   | 162240 | 46595     | 159300 |
|                  | CPI | 11200      |        | 12240   |        | 13320     |        | 10320      |        | 11280   |        | 12360     |        |

| AIR SUPPLY |                   |   |     |           |     |         |    |           |    |   |     |           |    |         |    |           |    |
|------------|-------------------|---|-----|-----------|-----|---------|----|-----------|----|---|-----|-----------|----|---------|----|-----------|----|
| Air Flow   |                   | 4 Row Coil  |     |           |     |         |    |           |    | 6 Row Coil  |     |           |    |         |    |           |    |
|            |                   | External Static Pressure – Pa (inch H <sub>2</sub> O) |     |           |     |         |    |           |    | External Static Pressure – Pa (inch H <sub>2</sub> O) |     |           |    |         |    |           |    |
|            |                   | 150 (0.6)   |     | 200 (0.8) |     | 250 (1) |    | 300 (1.2) |    | 150 (0.6)   |     | 200 (0.8) |    | 250 (1) |    | 300 (1.2) |    |
| cfm        | m <sup>3</sup> /h | RPM   | kW  | RPM       | kW  | RPM     | kW | RPM       | kW | RPM   | kW  | RPM       | kW | RPM     | kW | RPM       | kW |
| 4800       | 8160              | 990   | 2.2 | 1050      | 2.2 | 1100    | 3  | 1160      | 3  | 1050  | 2.2 | 1100      | 3  | 1160    | 3  | 1200      | 4  |

TC-Total Cooling Capacity | SCC-Sensible Cooling Capacity | CPI-Compressor Power Input (W) | HC-Heating Capacity

