

# Commercial Unit Coolers

14 53 kW





## BENEFITS

- Optimised 1/2" copper tube coil
- Reversible drain trays provide flexibility
- Hybrid front door design
- EVD ice option available on select models
- Improved airflow with full nozzle fan assemblies
- Light weight aluminium casing white powder coated
- Heater defrost complete with safety thermostats
- Factory applied "Patton Coat" coil and fin corrosion protection



# QM SERIES

## MEDIUM TEMP

| Models  | QM                     | 180-42-FD2  | 235-42-FD2 | 275-43-FD2 | 320-43-FD2                                | 350-43-FD2 | 420-44-FD2 |
|---|------------------------|---|------------|------------|---|------------|------------|
|   | R134a                  | 16.54   | 21.26      | 25.20      | 29.01                                     | 32.09      | 38.46      |
| Capacity  | R404A                  | 18.18   | 23.36      | 27.69      | 31.88                                     | 35.26      | 42.26      |
| kW @ 6 KTD  | R407F(Dew)             | 22.18   | 28.50      | 33.78      | 38.89                                     | 43.02      | 51.56      |
| -4 °C SST   | R449A(Dew)             | 22.54   | 28.97      | 34.34      | 39.53                                     | 43.72      | 52.40      |
|   | R448A(Dew)             | 22.91   | 29.43      | 34.89      | 40.17                                     | 44.43      | 53.25      |
| Sparepart set (Option)<br><br> | Valve Body             | E2V35   | E3V45      |            | Must contact Salesperson for special case |            |            |
|   | Controller<br>Ultracap | EVDM011S50/S51 EVD ICE V.2 RESIN 115/230V<br>EVDMU00R11 CAREL ULTRACAP RESIN MODULE |            |            |   |            |            |

# QL SERIES

## LOW TEMP

| Models  | QL                     | 170-62-FD2  | 195-63-FD2 | 250-63-FD2 | 300-64-FD2                                | 320-54-FD2 |
|---|------------------------|---|------------|------------|---|------------|
|   | R134a                  | 14.15   | 16.22      | 21.23      | 25.07                                     | 26.81      |
| Capacity  | R404A                  | 16.84   | 19.31      | 25.27      | 29.85                                     | 31.92      |
| kW @ 6 KTD  | R449A(Dew)             | 20.88   | 23.94      | 31.33      | 37.01                                     | 39.58      |
| -24 °C SST  | R407F(Dew)             | 21.56   | 24.72      | 32.35      | 38.21                                     | 40.86      |
|   | R448A(Dew)             | 21.56   | 24.72      | 32.35      | 38.21                                     | 40.86      |
| Sparepart set (Option)<br><br> | Valve Body             | E2V35   | E3V45      |            | Must contact Salesperson for special case |            |
|   | Controller<br>Ultracap | EVDM011S50/S51 EVD ICE V.2 RESIN 115/230V<br>EVDMU00R11 CAREL ULTRACAP RESIN MODULE |            |            |   |            |

Note: 1. Consider latent & Sensible heat



## MEDIUM TEMP

| Models            | QM           | 180-42-FD2      | 235-42-FD2 | 275-43-FD2 | 320-43-FD2 | 350-43-FD2 | 420-44-FD2 |
|-------------------|--------------|-----------------|------------|------------|------------|------------|------------|
| Air Throw         | m            | 23              | 23         | 25         | 25         | 25         | 26         |
| Air Volume        | l/sec        | 4370            | 4140       | 6550       | 6400       | 6220       | 7780       |
| Fan Motors        | Num.         | 2               | 2          | 3          | 3          | 3          | 4          |
| ∅ 500mm           | Watts        | 1700            | 1700       | 2550       | 2550       | 2550       | 3400       |
| Full bell Mounted | Amps         | 3.8             | 3.8        | 5.7        | 5.7        | 5.7        | 7.6        |
| Coil              | Circuit Vol. | dm <sup>3</sup> | 22.4       | 34.4       | 33.6       | 42.6       | 51.6       |
|                   | Connection   | Dist Inlet      | 7/8        | 7/8        | 7/8        | 7/8        | 7/8        |
|                   | F.Sw         | Suct Outlet     | 1-3/8      | 1-3/8      | 1-5/8      | 1-5/8      | 1-5/8      |
|                   |              | fpi             | 6          | 6          | 6          | 6          | 6          |
| Defrost(Optional) | Watts        | 6450            | 6450       | 9490       | 9490       | 9490       | 10420      |
| Dimension         | L            | 2330            | 2330       | 3350       | 3350       | 3350       | 3690       |
|                   | A            | 1036            | 1036       | 1036       | 1036       | 1036       | 866        |
|                   | B            | 1036            | 1036       | 1020       | 1020       | 1020       | 850        |
|                   | C            | -               | -          | 1036       | 1036       | 1036       | 850        |
|                   | D            | -               | -          | -          | -          | -          | 866        |
| Net Weight        | kg           | 118             | 143        | 158        | 176        | 210        | 278        |

## LOW TEMP

| Models                    | QL           | 170-62-FD2      | 195-63-FD2 | 250-63-FD2 | 300-64-FD2 | 320-54-FD2 |
|---------------------------|--------------|-----------------|------------|------------|------------|------------|
| Air Throw                 | m            | 23              | 25         | 25         | 26         | 26         |
| Air Volume                | l/sec        | 4280            | 6680       | 6430       | 8130       | 7940       |
| Fan Motors                | Num.         | 2               | 3          | 3          | 4          | 4          |
| ∅ 500mm                   | Watts        | 1700            | 2550       | 2550       | 3400       | 3400       |
| Full bell Mounted         | Amps         | 3.8             | 5.7        | 5.7        | 7.6        | 7.6        |
| Coil                      | Circuit Vol. | dm <sup>3</sup> | 34.4       | 33.6       | 51.6       | 57.3       |
|                           | Connection   | Dist Inlet      | 7/8        | 7/8        | 1-1/8      | 1-1/8      |
|                           | F.Sw         | Suct Outlet     | 1-3/8      | 1-5/8      | 1-5/8      | 1-5/8      |
|                           |              | fpi             | 4          | 4          | 4          | 4          |
| Electrical Defrost (230V) | Watts        | 11500           | 16940      | 16940      | 18580      | 18580      |
| Fan Cowl heater (230V)    | Watts        | 250             | 375        | 375        | 500        | 500        |
| Dimension                 | L            | 2330            | 3350       | 3350       | 3690       | 3690       |
|                           | A            | 1036            | 1036       | 1036       | 866        | 866        |
|                           | B            | 1036            | 1020       | 1020       | 850        | 850        |
|                           | C            | -               | 1036       | 1036       | 850        | 850        |
|                           | D            | -               | -          | -          | 866        | 866        |
| Net Weight                | kg           | 150             | 167        | 219        | 288        | 294        |

### NOTES:

- Air throw based on CRMA standard@ 20°C  
Multiply figures by 0.94 for 2°C and 0.87 for -18°C
- Fan motors 380-420V/3/50Hz
- Defrost heaters 220-240V/1/50Hz  
Connect in Y for 380-420V/3/50Hz supply

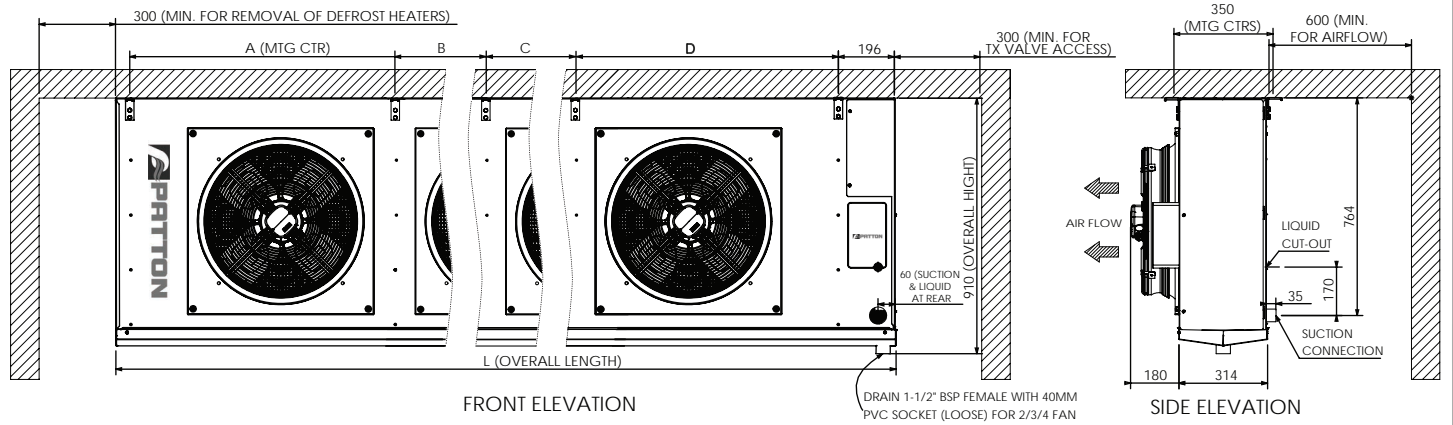
### CAPACITY CORRECTION

| QM @ °C SST |      | QL @ °C SST |      |
|-------------|------|-------------|------|
| 5°          | 1.17 | -20°        | 1.07 |
| 0°          | 1.07 | -25°        | 0.99 |
| -5°         | 0.99 | -30°        | 0.89 |
| -10°        | 0.93 | -35°        | 0.8  |

### RELATIVE HUMIDITY GUIDE

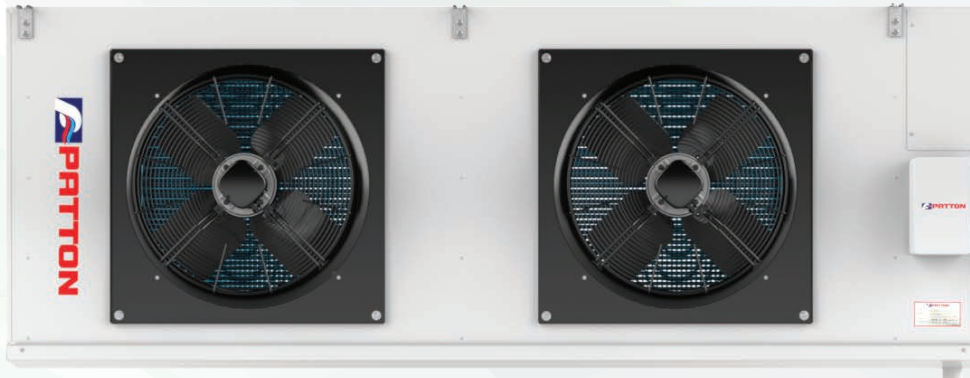
| Temp Diff | R.H % | Temp Diff | R.H % |
|-----------|-------|-----------|-------|
| 2K        | 94    | 10K       | 77    |
| 4K        | 89    | 12K       | 73    |
| 6K        | 84    | 14K       | 70    |
| 8K        | 81    | 16K       | 66    |

# DIMENSIONS



NTS (mm)

Specifications subject to change without notice



*"Quality we care, United we are"*