

## Data Sheet - Delta 4

|                                                |        |           |                                       |       |      |
|------------------------------------------------|--------|-----------|---------------------------------------|-------|------|
| <b>Dehumidification Duty</b>                   |        |           | <b>Electrical</b>                     |       |      |
| Via Heat Pump (28°C / 60%rh) (Dampers Min)     | l/hr   | 6         | Total Power Consumed (Nominal)        | kW    | 2.9  |
| Total @ 18°C Dewpoint (Summer) (Damper Max)    | l/hr   | 9         | Min Supply Capacity (Max FLA) 1ph N   | amps  | 25   |
| Total @ 7°C Dewpoint (Winter) (Damper Mid)     | l/hr   | 12.1      | Min Supply Capacity (Max FLA) 3ph N   | amps  | 13   |
| VDI 2089                                       | l/hr   | 9.5       | Max Supply Fuse 1ph N                 | amps  | 40   |
| Total DH + VDI 2089 @ 12.5°C Dewpoint (Summer) | l/hr   | 12.5      | Max Supply Fuse 3ph N                 | amps  | 20   |
| <b>Heat To Air</b>                             |        |           | <b>Main Fan - Variable Speed</b>      |       |      |
| Via Heat Pump (Mode A)                         | kW     | 1.4       | Air Flow                              | m³/hr | 3000 |
| Via Heat Pump (Mode B)                         | kW     | 5.1       | Max Internal Static Pressure          | mmWg  | 80   |
| Via LPHW @ 80°C                                | kW     | 25        | FLA 1ph N                             | amps  | 6.8  |
| Total                                          | kW     | 26.4/30.1 | <b>Exhaust Fan - Variable Speed</b>   |       |      |
| Via Double LPHW                                | kW     | 42.5      | Air Flow (Summer)                     | m³/hr | 1500 |
| <b>Building Heat Loss</b>                      |        |           | Air Flow (Winter)                     | m³/hr | 750  |
| Heat Required For Fresh Air @ -5°C             | kW     | 8.3       | Air Flow (Unoccupied)                 | m³/hr | 150  |
| Available For Fabric Losses @ -5°C             | kW     | 21.8      | Max External Static Pressure          | mmWg  | 28   |
| <b>Heat To Pool Water</b>                      |        |           | FLA 1ph N                             | amps  | 3    |
| Via Heat Pump (Mode A)                         | kW     | 5.8       | <b>Compressor</b>                     |       |      |
| Via Heat Pump (Mode B)                         | kW     | 2.3       | Nominal Power Consumed                | kW/hr | 2.2  |
| Via LPHW @ 80°C                                | kW     | 33        | LRA 1ph N                             | amps  | 62   |
| Total                                          | kW     | 38.8/35.3 | RLA 1ph N                             | amps  | 13.1 |
| Flow Rate Pool Water ± 10%                     | l/min  | 38        | Soft Start Amps 1ph N                 | amps  | 28   |
| Pressure Drop @ Rated Flow                     | m/hd   | 2.5       | LRA 3ph N                             | amps  | 42   |
| Max Working Pressure                           | bar    | 3.5       | RLA 3ph N                             | amps  | 4.7  |
| Internal Condenser Taco Pool Water Setting     | l/min  | 24        | Soft Start Amps 3ph N                 | amps  | 16   |
| <b>Cooling Duty</b>                            |        |           | <b>General Data - Hermetic System</b> |       |      |
| Cooling Duty (Sensitive)                       | kW     | - 2.94    | Gas Charge (R407c)                    | kg    | 6    |
| Cooling Duty (Total)                           | kW     | - 4.2     | Weight Approximately                  | kg    | 350  |
| <b>Recommended Boiler Capacity</b>             |        |           | Specific Fan Power                    | -     | 1.01 |
| Recommended Boiler Capacity                    | btu/hr | 119420    |                                       |       |      |
| Flowrate                                       | l/min  | 35        |                                       |       |      |
| Flow Rate - Double Coil                        | l/min  | 50        |                                       |       |      |
| Pressure Drop @ Rated Flow                     | m/hd   | 2.5       |                                       |       |      |
| Max System Working Pressure                    | bar    | 6         |                                       |       |      |

For accurate application sizing please consult Calorex Heat Pumps Ltd

Mode A = recovered heat biased to pool water (Pool water temp not satisfied)

Mode B = recovered heat biased to pool hall air (pool water temp satisfied)

R407c Global Warming Potential (GWP) 1774

1mm WG = 9.8 Pa

1m hd = 1.4 psi

1l/min = 0.22 gal/min