

## CWC 600 (T) & 875

Designed for rapid installation and easy maintenance, Quartz chilled water cassettes offer the perfect solution to provide a comfortable environment in offices, shops and shopping centres, educational establishments and other applications where floor and wall space is at a premium.

Available in sizes 600x600mm and 875x875mm, all models utilise a lightweight, one piece chassis, which not only reduces installation time and labour, but also ensures easy access to the in-built drain tray for regular cleaning. This ingenious construction allows for simple cleaning and disinfection, making the units an ideal choice for health centre and hospital applications.

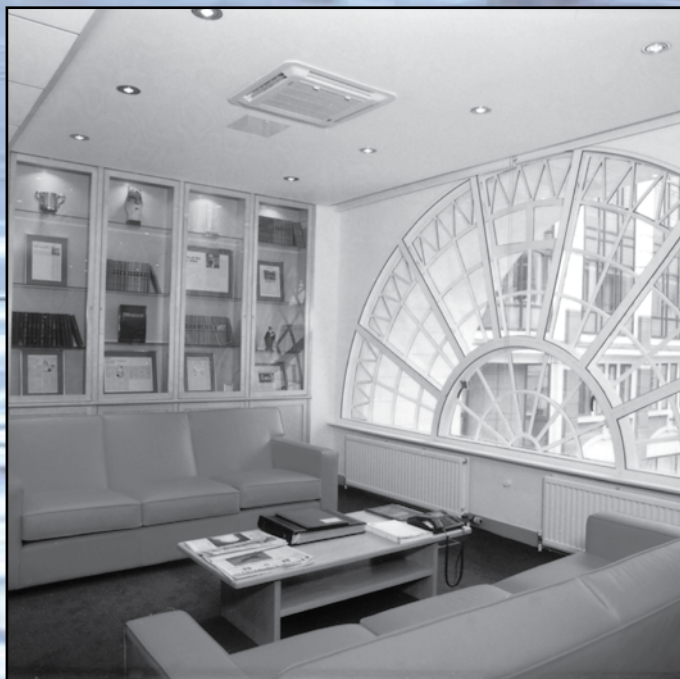
Manufactured in the UK using high quality components, standard Quartz chilled water cassettes are offered in a total of seven 2 pipe (CWC) and seven 4 pipe models (CWCH). In addition, there is a range of high performance models in the 600<sup>2</sup> size (the 'T' range), suitable for less noise critical applications (e.g. retail). This range comprises three 2 pipe and three 4 pipe models. For chilled water cassettes there is always a Quartz product to match your requirements.



Available CWC 600(T) 600 mm sq  
and CWC 875 875 mm sq

### Key Benefits

- Low sound levels
- Long air throws, for effective air distribution
- Integral and easy to clean drain tray
- Easy filter access
- All services accessed from below at one corner
- Modern, slim, square fascia with rounded corners
- CWC(T) 600 units fit 600x600mm ceiling tile grid
- Simple on-site fan speed adjustment
- Wired or infra-red 'L' controls
- Optional factory fitted valves available
- Condensate removal options
- Electric heating available on CWC



## Cooling Capacities

| COOLING CAPACITIES - 2 PIPE - kW |                               |    |             | Eurovent conditions shown in GREY areas |      |      |      |      |
|----------------------------------|-------------------------------|----|-------------|---|------|------|------|------|
| Model                            | Air entry dry bulb (wet bulb) |    | 27°C (19°C) |   |      |      |      |      |
|                                  |                               |    | Fan Speed   |   |      |      |      |      |
|                                  | Water                         |    | 1           | 2                                       | 3    | 4    | 5    |      |
| In °C                            | Out °C                        |    |             |   |      |      |      |      |
| CWC25                            | 7                             | 12 | TC          | 1.6                                     | 1.88 | 2.08 | 2.34 | 2.89 |
|                                  |                               |    | SC          | 1.38                                    | 1.62 | 1.79 | 2.02 | 2.49 |
| CWC45                            | 7                             | 12 | TC          | 2.57                                    | 3.05 | 3.58 | 3.99 | 4.99 |
|                                  |                               |    | SC          | 1.8                                     | 2.2  | 2.58 | 2.88 | 3.59 |
| CWC65                            | 7                             | 12 | TC          | 3.12                                    | 3.57 | 4.11 | 4.47 | 5.45 |
|                                  |                               |    | SC          | 2.12                                    | 2.46 | 2.84 | 3.13 | 3.82 |
| CWC75                            | 7                             | 12 | TC          | 3.81                                    | 4.62 | 5.17 | 6.01 | 6.97 |
|                                  |                               |    | SC          | 2.55                                    | 3.14 | 3.51 | 4.09 | 4.74 |

| COOLING CAPACITIES - 4 PIPE - kW |                               |    |             | Eurovent conditions shown in GREY areas |      |      |      |      |
|----------------------------------|-------------------------------|----|-------------|---|------|------|------|------|
| Model                            | Air entry dry bulb (wet bulb) |    | 27°C (19°C) |   |      |      |      |      |
|                                  |                               |    | Fan Speed   |   |      |      |      |      |
|                                  | Water                         |    | 1           | 2                                       | 3    | 4    | 5    |      |
| In °C                            | Out °C                        |    |             |   |      |      |      |      |
| CWCH25                           | 7                             | 12 | TC          | 1.45                                    | 1.7  | 1.89 | 2.07 | 2.38 |
|                                  |                               |    | SC          | 1.27                                    | 1.49 | 1.66 | 1.82 | 2.1  |
| CWCH45                           | 7                             | 12 | TC          | 2.15                                    | 2.45 | 2.84 | 3.14 | 3.86 |
|                                  |                               |    | SC          | 1.57                                    | 1.92 | 2.24 | 2.48 | 3.05 |
| CWCH65                           | 7                             | 12 | TC          | 2.79                                    | 3.19 | 3.73 | 4.03 | 5.07 |
|                                  |                               |    | SC          | 1.93                                    | 2.24 | 2.65 | 2.86 | 3.6  |
| CWCH75                           | 7                             | 12 | TC          | 3.49                                    | 4.15 | 4.62 | 5.22 | 5.72 |
|                                  |                               |    | SC          | 2.41                                    | 2.91 | 3.23 | 3.65 | 4.01 |

| COOLING CAPACITIES - 2 PIPE - kW |                               |    |             | Eurovent conditions shown in GREY areas |      |      |      |      |
|----------------------------------|-------------------------------|----|-------------|---|------|------|------|------|
| Model                            | Air entry dry bulb (wet bulb) |    | 27°C (19°C) |   |      |      |      |      |
|                                  |                               |    | Fan Speed   |   |      |      |      |      |
|                                  | Water                         |    | 1           | 2                                       | 3    | 4    | 5    |      |
| In °C                            | Out °C                        |    |             |   |      |      |      |      |
| CWC25T                           | 7                             | 12 | TC          | 1.83                                    | 2.21 | 2.48 | 2.9  | 3.39 |
|                                  |                               |    | SC          | 1.58                                    | 1.9  | 2.14 | 2.49 | 2.95 |
| CWC45T                           | 7                             | 12 | TC          | 3.46                                    | 4.18 | 4.44 | 5.48 | 6.62 |
|                                  |                               |    | SC          | 2.49                                    | 3.01 | 3.2  | 3.95 | 4.77 |
| CWC65T                           | 7                             | 12 | TC          | 3.79                                    | 4.4  | 4.9  | 5.71 | 6.99 |
|                                  |                               |    | SC          | 2.62                                    | 3.04 | 3.43 | 3.99 | 4.89 |

| COOLING CAPACITIES - 4 PIPE - kW |                               |    |             | Eurovent conditions shown in GREY areas |      |      |      |      |
|----------------------------------|-------------------------------|----|-------------|---|------|------|------|------|
| Model                            | Air entry dry bulb (wet bulb) |    | 27°C (19°C) |   |      |      |      |      |
|                                  |                               |    | Fan Speed   |   |      |      |      |      |
|                                  | Water                         |    | 1           | 2                                       | 3    | 4    | 5    |      |
| In °C                            | Out °C                        |    |             |   |      |      |      |      |
| CWCH25T                          | 7                             | 12 | TC          | 1.6                                     | 1.91 | 2.12 | 2.44 | 2.89 |
|                                  |                               |    | SC          | 1.4                                     | 1.68 | 1.86 | 2.14 | 2.55 |
| CWCH45T                          | 7                             | 12 | TC          | 2.61                                    | 3.09 | 3.27 | 4.01 | 4.9  |
|                                  |                               |    | SC          | 2.04                                    | 2.44 | 2.58 | 3.17 | 3.67 |
| CWCH65T                          | 7                             | 12 | TC          | 3.39                                    | 3.96 | 4.45 | 5.22 | 6.38 |
|                                  |                               |    | SC          | 2.41                                    | 2.81 | 3.16 | 3.71 | 4.53 |

| COOLING CAPACITIES - 2 PIPE - kW |                               |    |             | Eurovent conditions shown in GREY areas |      |      |       |       |
|----------------------------------|-------------------------------|----|-------------|---|------|------|-------|-------|
| Model                            | Air entry dry bulb (wet bulb) |    | 27°C (19°C) |   |      |      |       |       |
|                                  |                               |    | Fan Speed   |   |      |      |       |       |
|                                  | Water                         |    | 1           | 2                                       | 3    | 4    | 5     |       |
| In °C                            | Out °C                        |    |             |   |      |      |       |       |
| CWC 95                           | 7                             | 12 | TC          | 5.66                                    | 7.2  | 7.75 | 8.58  | 9.78  |
|                                  |                               |    | SC          | 3.96                                    | 5.11 | 5.5  | 6.18  | 7.14  |
| CWC 135                          | 7                             | 12 | TC          | 6.32                                    | 7.67 | 8.34 | 9.6   | 10.65 |
|                                  |                               |    | SC          | 4.42                                    | 5.45 | 5.92 | 6.91  | 7.78  |
| CWC 155                          | 7                             | 12 | TC          | 6.63                                    | 8.31 | 8.84 | 10.26 | 11.35 |
|                                  |                               |    | SC          | 4.64                                    | 5.82 | 6.27 | 7.28  | 8.17  |

| COOLING CAPACITIES - 4 PIPE - kW |                               |    |             | Eurovent conditions shown in GREY areas |      |      |      |       |
|----------------------------------|-------------------------------|----|-------------|---|------|------|------|-------|
| Model                            | Air entry dry bulb (wet bulb) |    | 27°C (19°C) |   |      |      |      |       |
|                                  |                               |    | Fan Speed   |   |      |      |      |       |
|                                  | Water                         |    | 1           | 2                                       | 3    | 4    | 5    |       |
| In °C                            | Out °C                        |    |             |   |      |      |      |       |
| CWCH 95                          | 7                             | 12 | TC          | 4.92                                    | 6.23 | 6.71 | 7.6  | 8.29  |
|                                  |                               |    | SC          | 3.74                                    | 4.8  | 5.23 | 5.93 | 6.55  |
| CWCH 135                         | 7                             | 12 | TC          | 5.62                                    | 6.72 | 7.24 | 8.3  | 9.17  |
|                                  |                               |    | SC          | 4.1                                     | 4.97 | 5.43 | 6.31 | 7.06  |
| CWCH 155                         | 7                             | 12 | TC          | 6.08                                    | 7.52 | 8.13 | 9.29 | 10.33 |
|                                  |                               |    | SC          | 4.31                                    | 5.42 | 5.85 | 6.78 | 7.54  |

## Heating Capacities

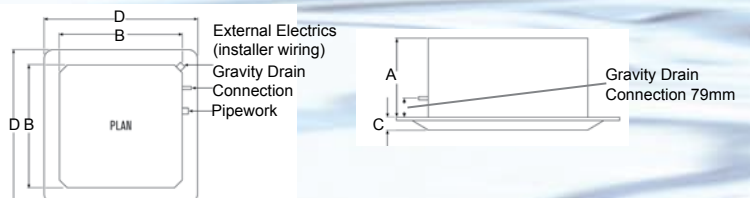
| HEATING DUTIES - 4 PIPE - kW |                    |    |           | Eurovent conditions shown in GREY areas |      |      |      |      |
|------------------------------|--------------------|----|-----------|---|------|------|------|------|
| Model                        | Air entry dry bulb |    | 20°C db   |   |      |      |      |      |
|                              |                    |    | Fan Speed |   |      |      |      |      |
|                              | Water              |    | 1         | 2                                       | 3    | 4    | 5    |      |
| In °C                        | Out °C             |    |           |   |      |      |      |      |
| CWCH25                       | 82                 | 71 | 1.89      | 2.13                                    | 2.33 | 2.53 | 2.83 |      |
|                              |                    |    | 70        | 60                                      | 1.49 | 1.7  | 1.85 | 1.93 |
| CWCH45                       | 82                 | 71 | 2.89      | 3.45                                    | 3.88 | 4.28 | 5.08 |      |
|                              |                    |    | 70        | 60                                      | 2.28 | 2.72 | 3.13 | 3.42 |
| CWCH65                       | 82                 | 71 | 3         | 3.42                                    | 3.87 | 4.17 | 5.07 |      |
|                              |                    |    | 70        | 60                                      | 2.36 | 2.7  | 3.11 | 3.33 |
| CWCH75                       | 82                 | 71 | 4.01      | 4.66                                    | 5.06 | 5.56 | 5.96 |      |
|                              |                    |    | 70        | 60                                      | 3.16 | 3.69 | 3.96 | 4.36 |

| HEATING DUTIES - 4 PIPE - kW |                    |    |           | Eurovent conditions shown in GREY areas |      |      |      |      |
|------------------------------|--------------------|----|-----------|---|------|------|------|------|
| Model                        | Air entry dry bulb |    | 20°C db   |   |      |      |      |      |
|                              |                    |    | Fan Speed |   |      |      |      |      |
|                              | Water              |    | 1         | 2                                       | 3    | 4    | 5    |      |
| In °C                        | Out °C             |    |           |   |      |      |      |      |
| CWCH25T                      | 82                 | 71 | 2.03      | 2.33                                    | 2.53 | 2.93 | 3.23 |      |
|                              |                    |    | 70        | 60                                      | 1.61 | 1.86 | 2.03 | 2.23 |
| CWCH45T                      | 82                 | 71 | 3.58      | 4.18                                    | 4.38 | 5.18 | 5.88 |      |
|                              |                    |    | 70        | 60                                      | 2.88 | 3.37 | 3.48 | 4.08 |
| CWCH65T                      | 82                 | 71 | 3.64      | 4.07                                    | 4.57 | 5.17 | 5.87 |      |
|                              |                    |    | 70        | 60                                      | 2.87 | 3.28 | 3.57 | 4.07 |

| HEATING DUTIES - 4 PIPE - kW |                    |    |           | Eurovent conditions shown in GREY areas |       |       |       |       |
|------------------------------|--------------------|----|-----------|---|-------|-------|-------|-------|
| Model                        | Air entry dry bulb |    | 20°C db   |   |       |       |       |       |
|                              |                    |    | Fan Speed |   |       |       |       |       |
|                              | Water              |    | 1         | 2                                       | 3     | 4     | 5     |       |
| In °C                        | Out °C             |    |           |   |       |       |       |       |
| CWCH95                       | 82                 | 71 | 6.34      | 8.04                                    | 8.64  | 9.74  | 10.64 |       |
|                              |                    |    | 70        | 60                                      | 5.04  | 6.34  | 6.84  | 7.74  |
| CWCH135                      | 82                 | 71 | 8.85      | 10.25                                   | 11.15 | 12.85 | 14.15 |       |
|                              |                    |    | 70        | 60                                      | 6.77  | 8.15  | 8.75  | 10.15 |
| CWCH155                      | 82                 | 71 | 8.39      | 10.18                                   | 10.98 | 12.58 | 13.88 |       |
|                              |                    |    | 70        | 60                                      | 6.59  | 8.09  | 8.69  | 9.99  |

## Dimensions & Weights

| DIMENSIONS & WEIGHTS (UNPACKED) |            |           |           |                   |                  |                  |                   |
|---------------------------------|------------|-----------|-----------|-------------------|------------------|------------------|-------------------|
| MODEL                           | HEIGHT (A) | WIDTH (B) | DEPTH (B) | FASCIA HEIGHT (C) | FASCIA WIDTH (D) | FASCIA DEPTH (D) | WEIGHT inc FASCIA |
| CWC600(H)(T)(L) 25              | 306        | 580       | 580       | 30                | 675              | 675              | 23kg              |
| CWC600(H)(T)(L) 45              | 306        | 580       | 580       | 30                | 675              | 675              | 24kg              |
| CWC600(H)(T)(L) 65              | 306        | 580       | 580       | 30                | 675              | 675              | 25kg              |
| CWC600(H)(T)(L) 75              | 306        | 580       | 580       | 30                | 675              | 675              | 26kg              |
| CWC875(H)(L) 95                 | 314        | 875       | 875       | 30                | 966              | 966              | 36kg              |
| CWC875(H)(L) 135                | 314        | 875       | 875       | 30                | 966              | 966              | 40kg              |
| CWC875(H)(L) 155                | 314        | 875       | 875       | 30                | 966              | 966              | 44kg              |



## Standard Features

- 2 pipe CWC(L)(T) or 4 pipe CWCH(L)(T)
- Electromechanical CWC/H (T) or Infrared control on CWC (L)(T) and CWCH (L)(T)
- 4 way air discharge
- Gravity drain up to 5m length using hard drawn copper tube
- Fascia retaining clips for ease of installation and maintenance
- 5 speed fan motor (allows selection to suit application)
- Removable lightweight chassis for ease of installation, maintenance and cleaning
- Complete access from below
- Long life washable filters
- Fan finger guard for safety
- Fresh air inlet facility
- Branch duct provision (to cool an adjacent area)
- Fire retardant materials

## Options

- 2 port on/off valves and 4 port diverting valves
- Modulating control options
- Remote controller for hard wiring to CWC/H(T)
- Pipe thermostat for 2 pipe heat pump changeover systems
- Programmable timer for CWC/H(T)
- Infrared remote controller (including 24 hour timer) on CWCL(T) and CWCHL(T)
- Valve drain tray for site fit valves
- Electric heating on CWC(L)(T)
- Motorised vanes for downward air deflection in heating mode
- High level alarm for gravity drain
- 0.5m lift pump (with overflow protection)
- 5m head condensate pump (with overflow protection)
- Spigots for fresh air inlet and branch duct
- Blanking kit for 3 way discharge



Single mixed flow fan



Removable lightweight chassis



Wired Control



Infra-red 'L' Control

## Sound Pressure and Air Flows

| SOUND PRESSURE LEVELS & AIR FLOW VOLUMES |           |    |       |       |    |       |       |    |       |       |    |       |       |    |       |
|--|-----------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|
| Model                                    | Fan Speed |    |       |       |    |       |       |    |       |       |    |       |       |    |       |
|  | 1         |    |       | 2     |    |       | 3     |    |       | 4     |    |       | 5     |    |       |
|  | dB(A)     | NR | m3/s  | dB(A) | NR | m3/s  | dB(A) | NR | m3/s  | dB(A) | NR | m3/s  | dB(A) | NR | m3/s  |
| 600 CWC 25 (H)(L)                        | 33        | 28 | 0.110 | 38    | 33 | 0.135 | 44    | 39 | 0.160 | 50    | 45 | 0.185 | 57    | 52 | 0.255 |
| 600 CWC 45 (H)(L)                        | 30        | 25 | 0.105 | 36    | 31 | 0.130 | 40    | 35 | 0.155 | 47    | 42 | 0.180 | 55    | 50 | 0.240 |
| 600 CWC 65 (H)(L)                        | 27        | 22 | 0.105 | 33    | 28 | 0.125 | 37    | 32 | 0.150 | 45    | 40 | 0.170 | 52    | 47 | 0.230 |
| 600 CWC 75 (H)(L)                        | 30        | 25 | 0.125 | 35    | 30 | 0.155 | 42    | 37 | 0.175 | 48    | 43 | 0.205 | 53    | 48 | 0.240 |
| 600 CWC 25T (H)(L)                       | 42        | 37 | 0.140 | 48    | 43 | 0.170 | 52    | 47 | 0.190 | 55    | 50 | 0.220 | 56    | 51 | 0.270 |
| 600 CWC 45T (H)(L)                       | 40        | 35 | 0.140 | 46    | 41 | 0.170 | 50    | 45 | 0.180 | 53    | 48 | 0.220 | 56    | 51 | 0.270 |
| 600 CWC 65T (H)(L)                       | 38        | 33 | 0.135 | 44    | 39 | 0.160 | 47    | 43 | 0.180 | 52    | 47 | 0.210 | 56    | 51 | 0.260 |
| 875 CWC 95 (H)(L)                        | 44        | 39 | 0.210 | 50    | 44 | 0.280 | 51    | 46 | 0.305 | 52    | 48 | 0.345 | 56    | 51 | 0.406 |
| 875 CWC 135 (H)(L)                       | 45        | 40 | 0.240 | 50    | 45 | 0.300 | 52    | 47 | 0.330 | 53    | 49 | 0.390 | 56    | 51 | 0.450 |
| 875 CWC 155 (H)(L)                       | 45        | 41 | 0.248 | 52    | 47 | 0.313 | 53    | 49 | 0.338 | 55    | 50 | 0.400 | 56    | 51 | 0.460 |



For full design information, reference should be made to the technical manual. We reserve the right to alter designs and specifications at any time without notification.

Approved to  
BS EN ISO 14001:2004



Certificate No. EMS 91502

Approved to  
BS EN ISO 9001:2000



Certificate No. FM 671



Part No: 06617618-03

TEV Ltd, Quartz Division, Armytage Road, Brighouse, West Yorkshire, HD6 1QF, England.  
Tel: +44 (0) 1484 405630 Fax : +44 (0) 870 606 4876 E: sales@quartz.co.uk W: www.quartz.co.uk  
A division of TEV Limited

FAN COILS : CHILLED WATER CASSETTES : CHILLED BEAM : CHILLERS