

# XWK - T/EC



C058 1W ↔ F0116 1W

Chilled water units



## Configuration

U - Downflow

## Operation

SF - Cooling only

## Solution

T - Technological

Cooling Capacity 58 - 116 kW

Double Power capacity 35 - 69 kW

|                           |   |
|---------------------------|---|
| <b>Housing</b>            | Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aesthetic panelling is internally lined to reduce the noise level. |
| <b>Air heat exchanger</b> | Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange ("V" configuration).    |
| <b>Fan</b>                | Fan units are new-generation; plug fan type with "EC" motor with electronic commutation in order to maximize energy savings and adjust the amount of air necessary. Fan is installed in a special frame positioned under the floor.     |
| <b>Cooling circuit</b>    | 3-way valve for the control of the chilled water flow and the air temperature.  |
| <b>Filter</b>             | Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of selfextinguish type.                    |
| <b>Electrical board</b>   | It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator.  |
| <b>Control panel</b>      | The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms. Advanced electronic control is standard.   |

## ACCESSORIES

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- F5 efficiency air folded filter
- Special filter plenum for air outlet ( from F6 to F9 )
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Clock board
- LonWorks® interface electronic board
- ModBus® interface electronic board
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings ( H 600mm. ) (standard)
- Remote control panel
- Modulating humidifier (water conductivity 350...750 µS/cm)
- Sound absorber plenum

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| XWK Tecno EC                           |       | C058 1W 1W       | D071 1W | E086 1W | E096 1W | F0116 1W |
|--|-------|------------------|---------|---------|---------|----------|
| Total cooling capacity(1)              | kW    | 58               | 72      | 86      | 96      | 116      |
| Sensible cooling capacity(1)           | kW    | 58               | 72      | 86      | 96      | 116      |
| R Factor                               | -     | 1                | 1       | 1       | 1       | 1        |
| Double Power - Tot. cap./Sens. cap.(3) | kW    | 35 / 31          | 48 / 41 | 53 / 46 | 58 / 49 | 69 / 60  |
| Power supply                           | -     | 400V/3+N/50Hz +T |         |         |         |          |
| Air flow                               | m3/h  | 15600            | 22000   | 24000   | 26500   | 31000    |
| External static pressure               | Pa    | 20               | 20      | 20      | 20      | 20       |
| Fans quantity                          | n°    | 1                | 2       | 2       | 2       | 2        |
| Fans power input                       | kW    | 6,1              | 5,6     | 6,0     | 6,0     | 12,2     |
| Fans total current                     | A     | 9,9              | 8,6     | 9,2     | 9,2     | 19,8     |
| Front sound pressure (2)               | dB(A) | 64               | 64      | 66      | 67      | 66       |
| Cooling coil pressure drop             | kPa   | 55               | 62      | 78      | 81      | 95       |
| Water connections diameter             | "     | 1" 1/4           | 1" 1/2  | 2"      | 2"      | 2"       |

| ELECTRIC COIL       |    |      |      |      |      |      |
|---------------------|----|------|------|------|------|------|
| Stages of operation | n° | 2    | 2    | 2    | 2    | 2    |
| Power               | kW | 9,0  | 12,0 | 18,0 | 18,0 | 18,0 |
| Absorbed current    | A  | 13,0 | 17,4 | 26,0 | 26,0 | 26,0 |

| HUMIDIFIER       |      |       |       |       |       |         |
|------------------|------|-------|-------|-------|-------|---------|
| Capacity         | kg/h | 5 - 8 | 5 - 8 | 5 - 8 | 5 - 8 | 10 - 15 |
| Power            | kW   | 6,2   | 6,2   | 6,2   | 6,2   | 11,3    |
| Absorbed current | A    | 8,7   | 8,7   | 8,7   | 8,7   | 16,2    |

| DIMENSIONS AND WEIGHT |    |      |      |      |      |      |
|-----------------------|----|------|------|------|------|------|
| Lenght                | mm | 1320 | 1760 | 2200 | 2200 | 2640 |
| Depth                 | mm | 840  | 840  | 840  | 840  | 840  |
| Height                | mm | 1950 | 1950 | 1950 | 1950 | 1950 |
| Operating weight      | Kg | 350  | 440  | 570  | 570  | 750  |

| DIMENSIONS AND WEIGHT - Fan frame |    |      |      |      |      |      |
|-----------------------------------|----|------|------|------|------|------|
| Lenght                            | mm | 1320 | 1760 | 2200 | 2200 | 2640 |
| Depth                             | mm | 840  | 840  | 840  | 840  | 840  |
| Height                            | mm | 600  | 600  | 600  | 600  | 600  |
| Operating weight                  | Kg | 100  | 140  | 200  | 200  | 260  |

**Note:**

- (1) Air inlet 24,0°C / 50% U.r. - IN-OUT chilled water temperature = 10°C / 15°C
  - (2) Data measured at 1m in open field conditions
  - (3) Air inlet 24°C / 50% U.r. - Water and Ethylenic Glycol 30% 13/7°C
- THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT.