



## Ducted fan coil unit

### *Serie STC*



The air handling units are proposed STC series such as thermal ventilation and air-conditioning units for civil and industrial environments.

Thanks to the small footprint and the places of inspection panels on the lower wall, are particularly suitable for installation in suspended ceilings.

Available in 6 sizes and basic configuration for ceiling installation.

The containment box is made with structure in aluminum and galvanized sheet metal panels, insulated with closed cell polyurethane with high sound absorption thickness of 20mm.

The STC series units are equipped with centrifugal single inlet backward curved Plug-Fans, with electronically commutated brushless motors.

Input signal control 0/10V.

The nominal air flow of STC model units varies from 1500 to 5400 mc / h.

For all units, the basic configuration includes:

- high efficiency polyester filter G3 (EN 779);
- Supply fan;
- Cooling water coil with copper pipes and aluminum fins, complete with tray for collecting the condensate draining type in galvanized steel with central discharge.

Accessories:

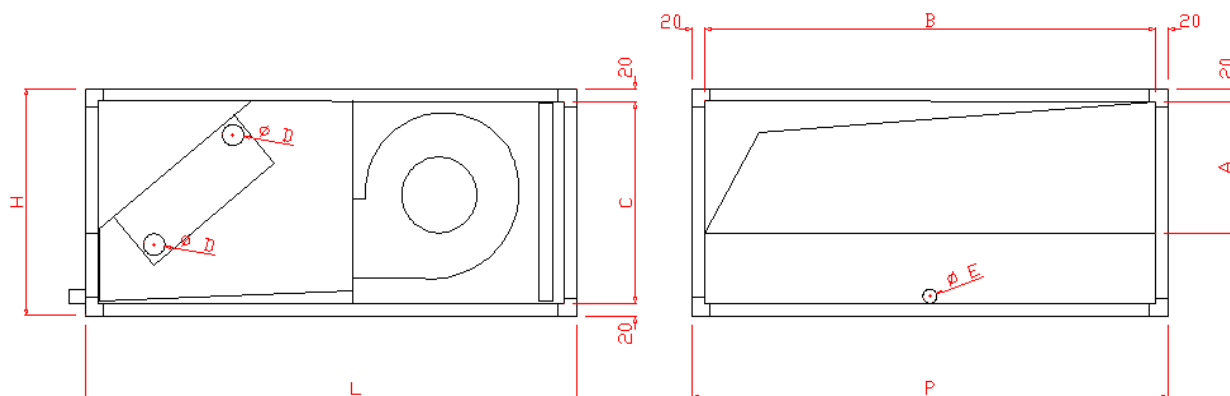
- DX coil.
- Electric heating coil complete with safety thermostat and wired terminal.
- Interception or calibration damper
- Air exhaust plenum.
- Air supply plenum with circular duct outlet or double row grilles
- Galvanized roof for outdoor installation
- Wall Speed control switch
- Control panel with room thermostat

options:

- Horizontal or vertical configuration from the floor.

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### Series STC



| <b><u>DIMENSIONAL FEATURES</u></b> |            |      |     |     |      |     |      |     |
|------------------------------------|------------|------|-----|-----|------|-----|------|-----|
| Model                              | Dimensions |      |     |     |      |     |      |     |
|                                    | L          | P    | H   | A   | B    | C   | Ø D  | Ø E |
| <b>STC 15</b>                      | 860        | 1000 | 360 | 210 | 960  | 320 | 1"   | ½"  |
| <b>STC 20</b>                      | 860        | 1250 | 360 | 210 | 1210 | 320 | 1"   | ½"  |
| <b>STC 30</b>                      | 1050       | 1550 | 400 | 250 | 1510 | 360 | 1 ¼" | ¾"  |
| <b>STC 45</b>                      | 1050       | 1800 | 400 | 250 | 1760 | 360 | 1 ¼" | ¾"  |
| <b>STC 55</b>                      | 1050       | 2050 | 400 | 250 | 2010 | 360 | 1 ¼" | ¾"  |

| <b><u>DATI TECNICI</u></b>  |       |               |               |               |               |               |
|-----------------------------|-------|---------------|---------------|---------------|---------------|---------------|
|                             |       | <b>STC 15</b> | <b>STC 20</b> | <b>STC 30</b> | <b>STC 45</b> | <b>STC 55</b> |
| Nominal air flow            | mc/h  | 1500          | 2200          | 3000          | 4300          | 5400          |
| Static pressure nominal fow | Pa    | 250           | 250           | 200           | 200           | 200           |
| Adsorbed power              | W     | 340           | 510           | 510           | 680           | 850           |
| Numbers of fan              | N     | 2             | 3             | 3             | 4             | 5             |
| Supply                      | V     | 230/1/50      | 230/1/50      | 230/1/50      | 230/1/50      | 230/1/50      |
| Max input current           | A     | 2.8           | 4.2           | 4.05          | 5.4           | 6.75          |
| Heating capacity *          | kW    | 17.5          | 25.4          | 36.3          | 49.6          | 65.3          |
| Water flow rate heating     | lt/h  | 1540          | 2230          | 3200          | 4265          | 5615          |
| Pressure drop               | kPa   | 6             | 14            | 19            | 26            | 25            |
| Cooling capacity **         | Kw    | 8.2           | 12.7          | 18.8          | 26.8          | 33.8          |
| Water flow rate cooðing     | lt/h  | 1410          | 2170          | 3220          | 4600          | 5780          |
| Pressure drop               | kPa   | 7             | 18            | 26            | 30            | 30            |
| Sound level 1 mt***         | dB(A) | 55            | 58            | 58            | 60            | 62            |
| Weight                      | kg    | 54            | 65            | 96            | 110           | 125           |

\* Ratings : nominal air flow; air in +15°C ; water 70/60°C.

\*\* Ratings : nominal air flow; air in +27°C ; 55%UR ; water 7/12°C.

\*\*\* With duct outlets.