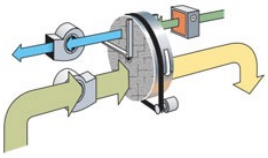
**COB-31**
**T10, T16**

**ENERGY SAVING**
ECONOMY
AND ENVIRONMENT

**ROTORS**
SILICA GEL ROTOR



**TECHNOLOGY**
DESICCANT
TECHNOLOGY

# TECNOSORB





## TECNOSORB COB-31 T10, T16

PORTABLE SINGLE PHASE UNIT IN STAINLESS STEEL

COBEAL's Dehumidifiers are desiccant-based. Air to be dehumidified is passed through the rotating rotor, which absorbs moisture. The moisture in the rotor is removed by a hot air stream. Our silica gel rotors are chemically bonded to the structure, which means there is no desiccant carry-over to the air. This extends the lifetime. The rotor is bacteriostatic and fungistatic which means no bacteria or fungus will grow on our rotors. The rotor is washable.

- Washable Rotor
- Easy to Maintain
- Stainless Steel
- Long lifetime

# TECNOSORB PRINCIPLE

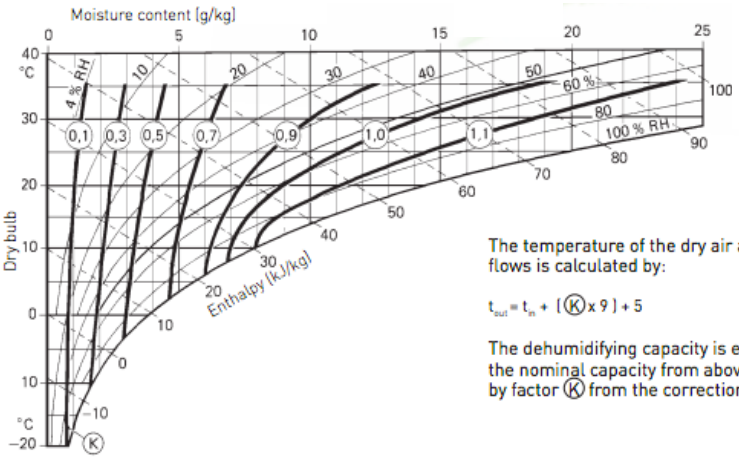
COBEAL's Tecnosorb principle is normally used at low regeneration temperatures, e.g. if you have surplus heat or when dehumidifying very damp air. The Tecnosorb approach excels when there is a large difference in moisture content between process and regeneration air inlets. It has a self-regulating heater, a protected control panel and a washable rotor. The COB-31 comes in two versions; T10 and T16.

| Dehumidifier model | DC- 31 T10 | DC- 31 T16 |
|---|---|---|
| Nominal capacity[1] (kg/h) | 1.4 | 2.1 |
| Dry air flow[2] (m³/h) | 300 | 490 |
| Wet air flow[2] (m³/h) | 120 | 120 |
| Heater current[3] (A) | 8 | 13 |
| Maximum electric consumption (kW) | 2.1 | 3.4 |
| Supply fuse 230V / 50Hz (A) | 10 | 16 |
| Weight (kg) | 30 | 32 |

1 Valid for inlet conditions 20ºC/60%RH. For other inlet conditions, the capacity can be calculated by using the correction factor from the diagram shown below.

2 Volume flow for density 1.20kg/m3. Free blowing.

3 The design of the PTC heater enables the power to be regulated by controlling the wet air flow.

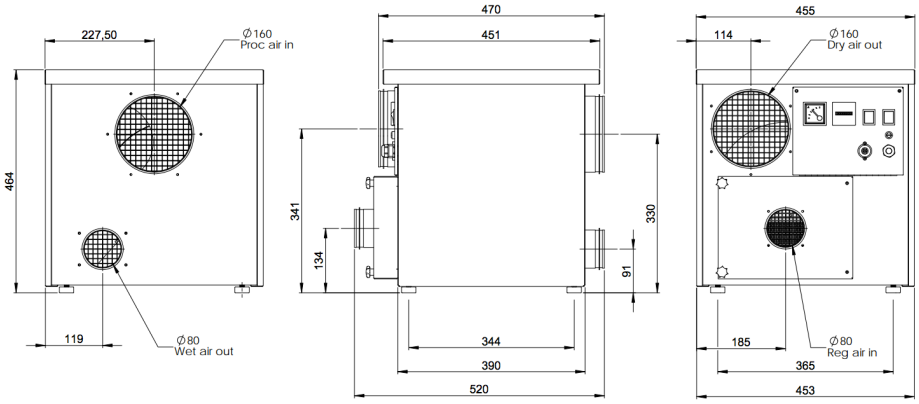



The temperature of the dry air at nominal air flows is calculated by:

$t_{out} = t_{in} + [(K) \times 9] + 5$

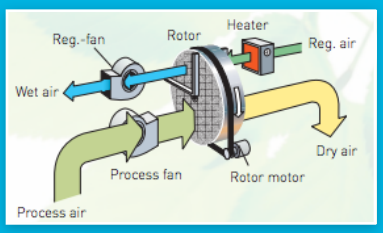
The dehumidifying capacity is estimated as the nominal capacity from above, multiplied by factor (K) from the correction diagram.

## DIMENSIONS




## *Preventing condensation and corrosion*

## TECHNOLOGY





## CAPACITY

**Capacity: 1.4 - 2.1kg/h***
**Dry air flow: 300-490m3/h**

*Dehumidifying capacity at 20°C / 60% RH