



## CDP 50T SWIMMING POOL DEHUMIDIFIER

### Function

The CDP 50T is an energy efficient and quiet pool dehumidifier. It works in accordance with the condensation principle. A fan draws the humid air into the dehumidifier and through an evaporator coil. When passing through the evaporator the air is cooled down to below its dew point temperature, and its content of water vapour is condensed into water, which falls into the drip tray and then is led from the drip tray to a drain. The cold, dry air is then passed over the condenser coil where it is re-heated, before leaving the unit at a temperature, which is approx. 5°C higher than at the inlet.

### Applications:

- Indoor swimming pools, private or hotels
- Therapy pools
- Spas
- Gymnasias

## FEATURES

### Dehumidifier

- Built into a strong and robust powder coated hot galvanized sheet metal cabinet
- Evaporator and condenser coils are epoxy-coated for high corrosion resistance
- Fixed to the wall by means of a wall mounting strip supplied with the unit
- Condensate outlet located at the bottom. Outlet stub can be connected to a 3/4" hose
- Outside connection to mains

### Control

- Built in electronic hygostat and thermostat
- To establish ideal ambient sensor point (RH/t) the fan(s) run 1 minute each hour
- Integrated ON/OFF control of humidity and temperature (electric or water heating coils as accessories)
- 0-VOLT connection for alarm
- 230 V for control valve, exhaust fan and pump/boiler
- RS 485 gate for BMS (Modbus)

### Diodes

BLUE: Power connected, standby mode  
 GREEN: Compressor ON, deicing  
 YELLOW: Remote pairing mode  
 RED: Errors

### Defrosting

Active, demand-controlled defrosting is incorporated into the electronic control.

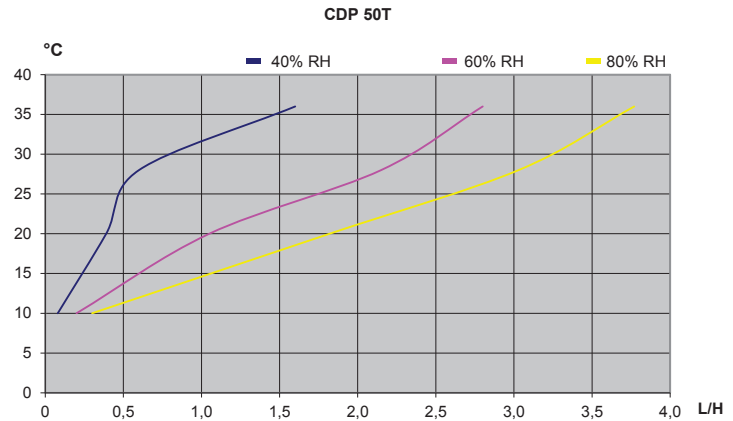
### Service

For easy service the refrigerant circuit is supplied with a service valve. The PCB has a USB gate for history data logging for easy fault finding.

**TECHNICAL DATA**

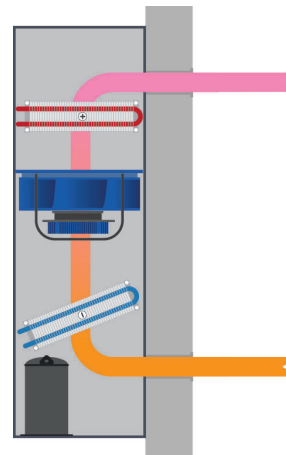
Model	CDP 50T
Operating range – humidity	40 – 100% RH
Operating range – temperature	10 – 36 °C
Air volume	680 m <sup>3</sup> /h
Power supply	1x230/50 V/Hz
Max. ampere consumption	6,6 A
Max. power consumption	1,5 kW
Refrigerant	R407C
Quantity of refrigerant	0,9 kg
Compressor	Rotary
Fan	Radial
Sound level (in pool room 1 m from the wall)	44 dB(A)
Weight	66 kg
Filter	G3 PPI 15
Colour (Cabinet)	RAL 7035
Protection class	IPX4
Corrosion protection in accordance with EN/ISO 12944-2	C4

**CAPACITY CURVES**



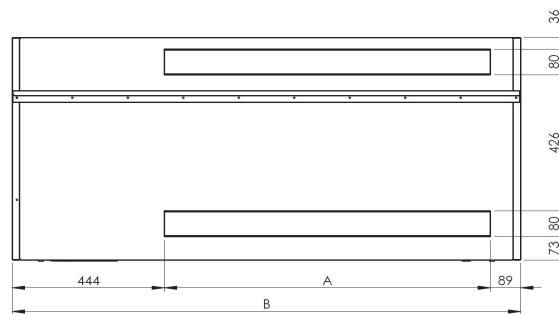
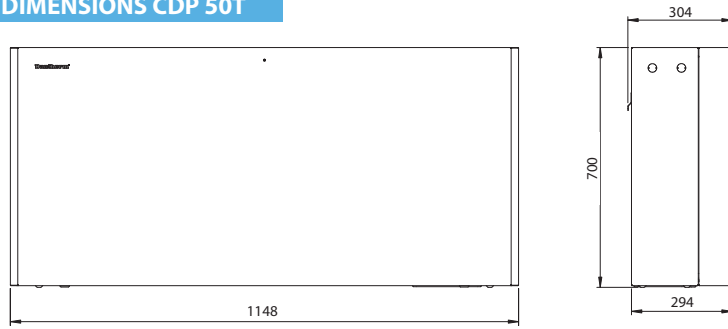
Specific energy consumption (SEC):  
0,48 kWh/l at 28°C & 60% RH

**INSTALLATION**

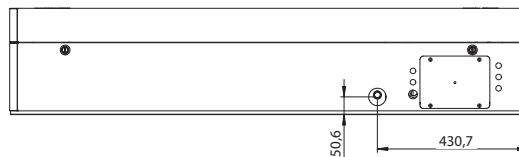


*CDP 40T, 50T and 70T are designed for installation in an adjacent room and are supplied with a through-the-wall duct kit with supply and return air grills (accessory).*

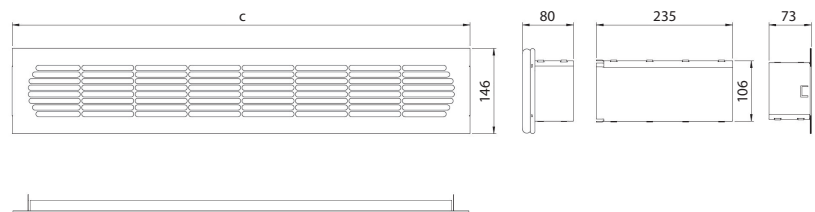
**DIMENSIONS CDP 50T**



Drain outlet position



Duct kits CDP 50T



The duct kit includes an extension for wall thickness from 70 to 366 mm.

	A	B	C	Wall opening
CDP 50T	616	1148	791	760 x 110

**Accessories**

- Wireless remote control DRC1
- Water heating coils
- Control valve for water heating coils
- Electric heating coils
- Exhaust fans
- Through-wall duct kit with filter, extension kit and alu grill
- Duct lead-in adapter

All dimensions are in mm.