

# Dehumidifier DRY-4500 CT

Industrial dehumidifier with pre and post-cooling batteries

## Description

Industrial dehumidifier **DRY-4500 CT** is available with canalizations or fixed installation. The dehumidifier is suitable for medium and large sized areas, ideal for heavy work. Available in standard version, hot gas defrosting version and ICE version for low temperature locations. It is equipped with state-of-the-art compressors able to offer the best performance in every environmental conditions. Removable panels to facilitate inspections and maintenance. The structure is entirely made of coated and galvanized steel in order to guarantee durability and long-lasting excellent performances. Industrial unit which is extremely versatile in its use and installation, thanks to the vertical expulsion of the process air and to the possibility to be canalized if needed. The **DRY-4500 CT** can be installed on a wheeled trolley to ease movements. Power source V/Ph/Hz 400/3/50. It is equipped with a washable air filter, **eco cooling gas R410A**. This dehumidifier is particularly suitable for commercial and industrial use. A test is conducted on every unit before the delivery.

**COOLING BATTERIES** - The pre and post cooling batteries integrated in the machine are perfect to control the environmental temperature and to increase the efficiency in condensation at the same time.

## Fields of application

Storehouses, industrial environment, cheese factories, meat aging rooms, food industries, swimming pools and gyms, hotels, hygroscopic material warehouses, auto workshops, cellars and basement rooms, archives, refrigerating rooms



con gas 100%  
ecologico **R410A**

- Eco cooling gas R410A
- Digital electronic dumidostat
- High precision humidity probe
- Display temperature and humidity
- Unit vertical development
- Vertical air expulsion

DRY-4500 CT available in three versions:

**DRY-4500 STD**, **DRY-4500/S** e **DRY-4500 ICE**

## Features

- ERP2015 fans
- FOOT PRINT plug
- Carter resistance compressor
- Electric digital hygrostat
- Unit vertical development
- Humidity temperature visualisation
- Galvanized steel structure
- High precision humidity probe

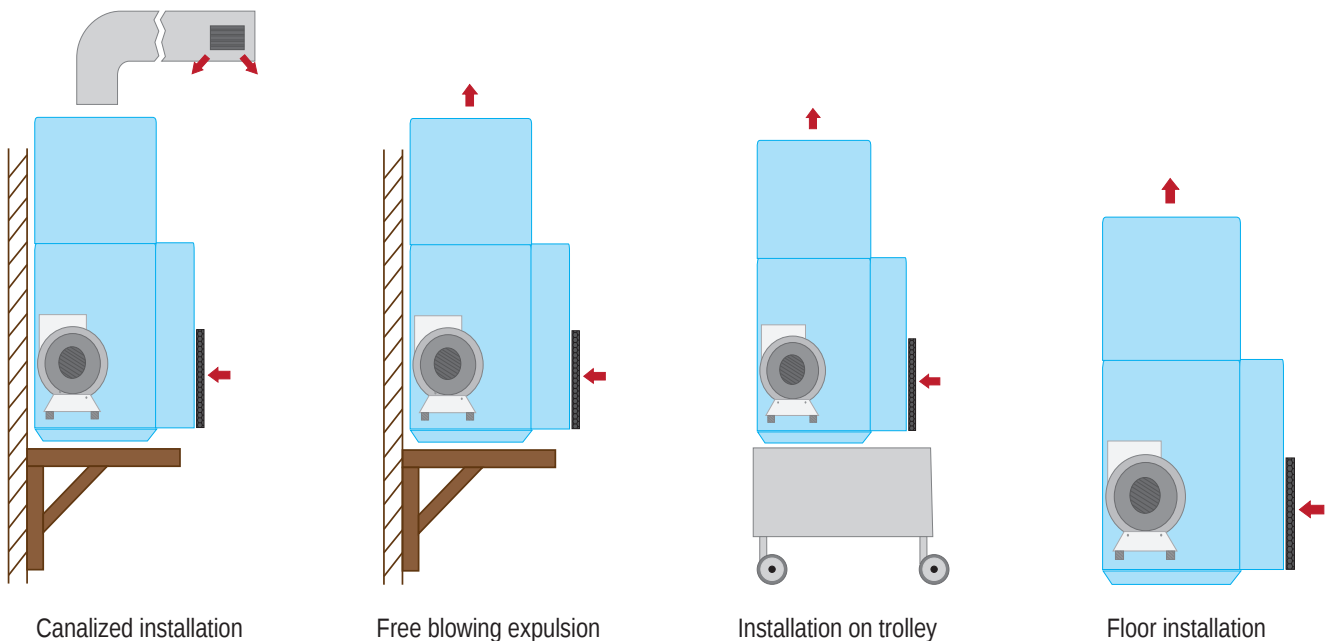
## Accessories

- /S version and ICE version
- Remote mechanical hygrostat
- Wheeled trolley
- Air filter with frame for canalization
- High precision digital hygrostat
- Air expulsion camber
- New system with auto analysis and remotable alarm
- Remote electronic hygrostat

## Technical data

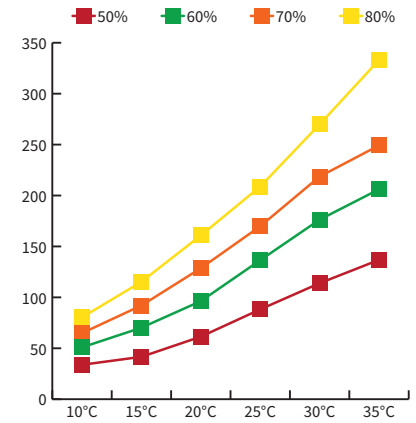
Cooling gas	R410A
Dehumidification capacity (at 35°C and 80% of R.H.)	333,1 l/24h
Maximum power absorbed	6,5 kW
Maximum electricity absorbed	14,6 A
Total air flow rate	4000 m3/h
Maximum static pressure of the fan flow	50 Pa
Compressor	n. 1
Sound pressure level (free field at 1 mt)	68 db(A)
Dimensions (length x width x height)	198 x 82 x 83 cm
STD version working range	+10/+36 °C
/S version working range	+1/+36 °C
ICE version working range	-1/+36 °C
Humidity working range	45-99% u.r.
Weight	182 Kg
Air temperature increase (room temperature 20°C-60% R.H.)	+5,4°C
Room heat load (room temperature 20°C-60% R.H.)	7,4 kW
PRE-cooling battery total performance (in/out water 9/13,8°C - room temperature 25°C)	8,3 KW
POST-cooling battery total performance (in/out water 9/13,8°C - room temperature 25°C)	8,3 KW

## Types of installation



## Performance

Temp.	50% u.r.	60% u.r.	70% u.r.	80% u.r.
	dehumidification lt/24h			
10°C	33,8	50,9	64,9	80,3
15°C	41,6	70,2	92,0	115,3
20°C	61,4	96,3	128,6	160,8
25°C	88,2	136,5	169,8	208,8
30°C	113,9	176,3	218,6	269,9
35°C	136,8	206,1	249,2	333,1



## Rese batterie di pre e post raffreddamento

Each CT dehumidifier is equipped with two different batteries: the first one composed by a pre-cooling section and the second one intended for the post-cooling.

Both sections have to be supplied with refrigerated water in the suggested quantity and temperature. Pre and post-cooling sections assure an increase in the efficiency and better dehumidification performances. Furthermore, the post-cooling section can control the room temperature if needed. The temperature control functions are managed by the integrated electric panel, by the active temperature industrial probe and by the three-way valve.

The higher efficiency in terms of condensation and temperature control makes the units of our CT line perfect in the productive process of modification or processing of materials which require precise temperature and humidity conditions.

### PRE AND POST-COOLING BATTERIES PERFORMANCE:

PRE-cooling battery total performance (in/out water 9/13,8°C - room temperature 25°C)	8,3 KW
POST-cooling battery total performance (in/out water 9/13,8°C - room temperature 25°C)	8,3 KW

### PRE-COOLING BATTERY:

The pre-cooling battery on the front of the unit helps to increase the condensation efficiency. The pre-cooling battery is perfect to control the environmental temperature and to increase the efficiency in condensation at the same time.

### POST-COOLING BATTERY:

The post-cooled battery above the unit is used to control the environmental temperature. The post-cooling battery is perfect to control the environmental temperature and to increase the efficiency in condensation at the same time.



# Dimensional

