

# Dantherm Dehumidification

## CDP Pool Dehumidification - Efficient dehumidification for aggressive environments

### Fully automatic operations

The small units are fully automatic. They are supplied with electronic control, built in adjustable hygrostat and a visual display showing the operation modes.

The large units are supplied with electronic control and prepared for external hygrostat connection. An electronic module provides a visual display of working modes while the control panel provides push button selection of "air heating" and "continuous fan run". The control panel can be moved to either side of the unit to suit plant room configuration.

### Applications CDP and CDP (T)

- Swimming pools
- Spas
- Shower rooms
- Gymnasiums
- Larger private pools
- Hotel pools and spas

### Function

An integral fan draws humid air into the dehumidifier through a filter. Here the air passes through an evaporator, where the water vapour condenses on a cold surface and falls as water droplets, into the drip tray and then into the drain. The cooled air then passes through a condenser and picks up not only the heat equivalent of the previous cooling, but also the heat equivalent of the electrical input to the unit. Consequently, the air leaves the unit drier and several degrees warmer. The repeated circulation of air through the unit reduces the relative humidity, giving very rapid but gentle drying.

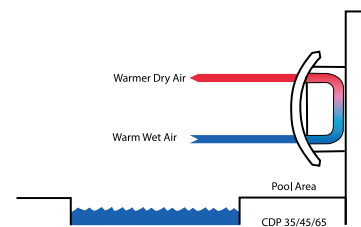
In swimming pool halls with large areas of windows, a solution in which the dehumidified and warm supply air is led through pipes under the floor and blown under the windows is a reliable choice. In this way condensing of the windows can be avoided.

### Wall Mounted Version CDP 40/50/70



Wall mounted version CDP 40/50/70

Dimensions CDP 40/50/70			
	Height (mm)	Width (mm)	Depth (mm)
CDP 40	770	1010	326
CDP 50	770	1160	326
CDP 70	800	1495	326



CDP 40/50/70 units are designed for installation directly in the pool hall or area to be dehumidified.

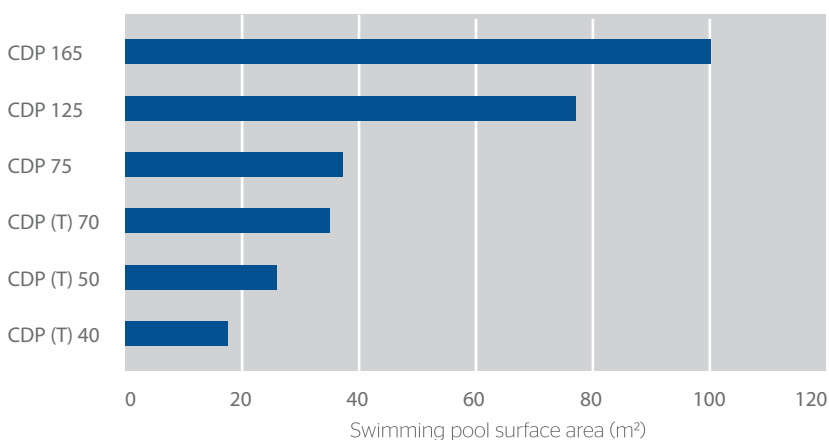
### Remote control DRC1

A newly developed remote control allows reading and setting of relative humidity and temperature, alarms and service information.



Technical data CDP 40/50/70					
	Dehumidification capacity at 28°C / 60% RH I/24h	Air flow (m³/h)	Operating range / humidity %RH	Operating range / temperature (°C)	Weight (kg)
CDP 40	34	400	40 - 100	10 - 36	56
CDP 50	52	680	40 - 100	10 - 36	65
CDP 70	69	900	40 - 100	10 - 36	75

### Quick selection guide



### Technical data CDP(T) 40/50/70/75/125/165

Which unit to choose in a swimming pool hall depends on the surface area. This graph is intended as a guide only, providing approximate recommendations. The selection of the correct dehumidifier for swimming pool halls requires the consideration of several factors, e.g. air and water temperatures, usage levels and whether a floating cover is used.

Please consult your supplier for professional guidance as unit selection should be carried out only by qualified personnel to get an optimum solution.

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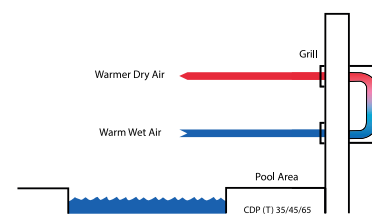
## Through-Wall Mounted Version CDP (T) 40/50/70



Through-wall mounted version CDP (T) 35/45/65

Technical data CDP (T) 40/50/70					
	Dehumidification capacity at 28°C / 60% RH l/24h	Air flow (m³/h)	Operating range / humidity %RH	Operating range / temperature (°C)	Weight (kg)
CDP 40T	29	250	40 - 100	10 - 36	60/57
CDP 50T	42	500	40 - 100	10 - 36	74/68
CDP 70T	66	750	40 - 100	10 - 36	101/95

Dimensions CDP (T) 40/50/70			
	Height (mm)	Width (mm)	Depth (mm)
CDP 40T	680	890	290
CDP 50T	680	1192	290
CDP 70T	680	1735	290



CDP(T) 35/45/65 units are designed for installation in an adjacent room and are supplied with a through-the-wall duct kit with supply and return air grills.

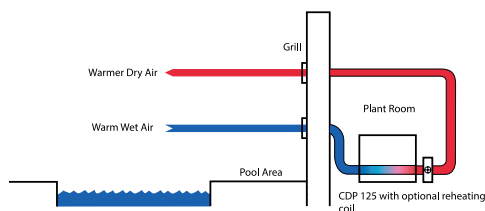
## Ducted Version CDP 75/125/165



Ducted version CDP 75/125/165

Technical data CDP 75/125/165				
	Dehumidification capacity at 28°C / 60% RH l/24h	Air flow (m³/h)	Operating range / humidity %RH	Operating range / temperature (°C)
CDP 75	74	1500	40 - 100	20 - 38
CDP 125	124	2500	40 - 100	20 - 38
CDP 165	162	3600	40 - 100	20 - 38

Dimensions CDP 75/125/165				
	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
CDP 75	650	1155	725	130
CDP 125	850	1300	900	160
CDP 165	975	1400	1010	190



The humid air from the water's surface passes through a dehumidifier, leaving the supply air drier and several degrees warmer.

## Flexible installation of the CDP

The CDP units are highly flexible regarding installation. They are designed for installation in plant rooms, with ducted supply and return air grills, but can also be installed directly in the room that needs dehumidification. A range of options are available for the CDP to meet individual requirements, including heating coils, outdoor air connection, wall-mount kit and floor mount kit. The CDP is also available with a water-cooled condenser allowing the excess heat to be used for pool or domestic hot water. The fresh air discharge can be from the top or from the side opposite to the air inlet. Both evaporator and condenser coils are epoxy-coated for higher corrosion resistance.

## Features and benefits

- High quality product manufactured to exact standards
- Low energy consumption and impressive functionality
- Silent operation
- Pleasant design
- Easy to operate and control
- Designed to suit any plant room configuration
- Epoxy-coated coils