



## CDF

Dehumidification for preserving  
and protecting your valuables

# Simple, economical preservation and protection

Dantherm Air Handling's CDF range of powerful dehumidifiers provides the ideal means of preserving and protecting your valuables from humidity damage. They are equally suitable for humidity control in warehouses, water works and pumping stations where corrosion is a significant problem without a professional dehumidification solution.

Rot, fungus, bacteria and corrosion quickly spread in rooms with periodic temperature fluctuations or open water surfaces. CDF dehumidifiers keep equipment, furnishings and materials intact in a wide variety of buildings such as churches, castles, archives, water works, public indoor swimming pools and holiday cottages. Effective dehumidification also prolongs the life of buildings and provides a healthier indoor climate.

## Dry storage of materials

Effective dehumidification provides maximum protection in warehouses where materials such as wood and metals are stored. For example, if the relative humidity is too high, unprotected metals will corrode. This can, however, be avoided by maintaining the relative humidity at the correct level. The modern design of the CDF dehumidifiers goes well with most

rooms. Their functionality, easy operation and appearance also make them ideal for archives, libraries and other storage areas where the appearance of the facilities is almost as important as the preservation and protection of the stored materials.

## Economical dehumidification

Dantherm's CDF dehumidifiers are more economical to buy, install and operate than other dehumidifier systems. They use considerably less energy than conventional dehumidification based on heat and ventilation. One of the reasons is that CDF dehumidifiers use the condensation principle to dehumidify and re-circulate room air. Dehumidification based on heat and ventilation is far more expensive, because it heats up the air and then removes it – along with the expensive heat.



CDF 10



CDF 10 with water tank



CDF 10

Technical data for CDF dehumidifiers

	Dehumidification capacity at 30°C/80% RH	Air flow	Operating range humidity	Operating range temperature	Height	Width	Depth	Weight
	l	m <sup>3</sup> /h	%RH	°C	mm	mm	mm	kg
CDF 10	10	220	40 – 100	3 – 30	600	535	240	28
CDF 10 with water tank	10	220	40 – 100	3 – 30	833	535	240	34
CDF 35	32	250	40 – 100	3 – 30	800	950	315	60
CDF 45	60	500	40 – 100	3 – 30	800	1260	315	74
CDF 35T	32	250	40 – 100	3 – 30	680	887	280	57
CDF 45T	60	500	40 – 100	3 – 30	680	1192	280	68



### A simple solution

The CDF units are easily installed. Connect the power and the drain outlet and they are ready to use. The CDF 10 does not even need a drain connection as it has a built-in water tank. The dehumidifiers draw in air and cool it to below its dew point. This condenses the air and

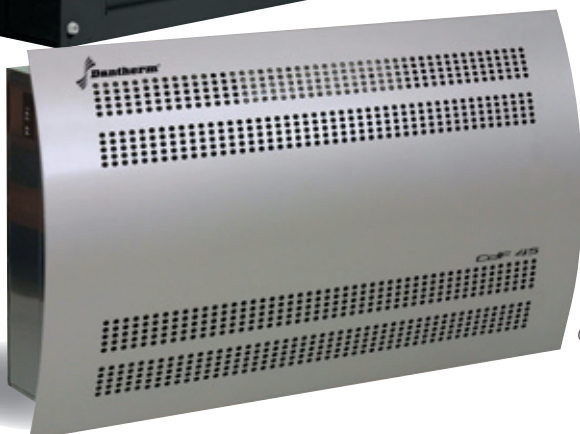
produces water, which is sent to a drain or a container. The units then heat up the dry air and return it to the room at a slightly higher temperature than when it was drawn into the dehumidifier. This reduces the room's relative humidity. The CDF dehumidifier is automatically regulated by a hygrostat to prevent the room from becoming too dry or too damp.

### Seven significant benefits

- Simple and economical to purchase, operate and maintain
- Easily adapted to all dehumidifying needs
- Keeps equipment, furnishings, buildings and materials intact
- Protects against fungal and bacterial attack, rot and corrosion
- Reduces maintenance and repair expenses
- Improves the indoor climate, providing ideal surroundings for equipment, fixtures, people and materials.
- Modern design that goes well with the décor of most rooms



CDF 45T



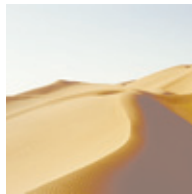
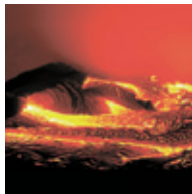
CDF 45

### Applications

- Churches
- Archives
- Museums
- Castles
- Indoor swimming pools
- Holiday cottages
- Water works
- Pumping stations



## Comfortable surroundings in any climate



Since 1958 Dantherm Air Handling has developed and produced climate control and air handling solutions that ensure optimum conditions for people and sensitive equipment alike. No climate is too extreme for us to handle – from the bitter cold at the North and South Poles to the searing heat of the Sahara.

Our core business areas are dehumidification, heating, air conditioning, ventilation and electronics cooling. Innovative, durable and cost-efficient products have secured us a position as a leading global manufacturer of stationary and mobile climate control units. And we are forever pursuing new techniques that will improve our solutions and ultimately your projects.

Dantherm Air Handling's headquarters are situated in Denmark with subsidiaries in Norway, Sweden, the United Kingdom, the United States and China – and an extensive European dealer network.

Dantherm Air Handling is a wholly-owned subsidiary of Dantherm A/S.

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