

the right freshness

**CAREL**



**humiDisk**

T e c h n o l o g y   &   E v o l u t i o n

# For cold rooms and store rooms

## centrifugal humidifier



**humiDisk** uses a spinning disk to atomize water.

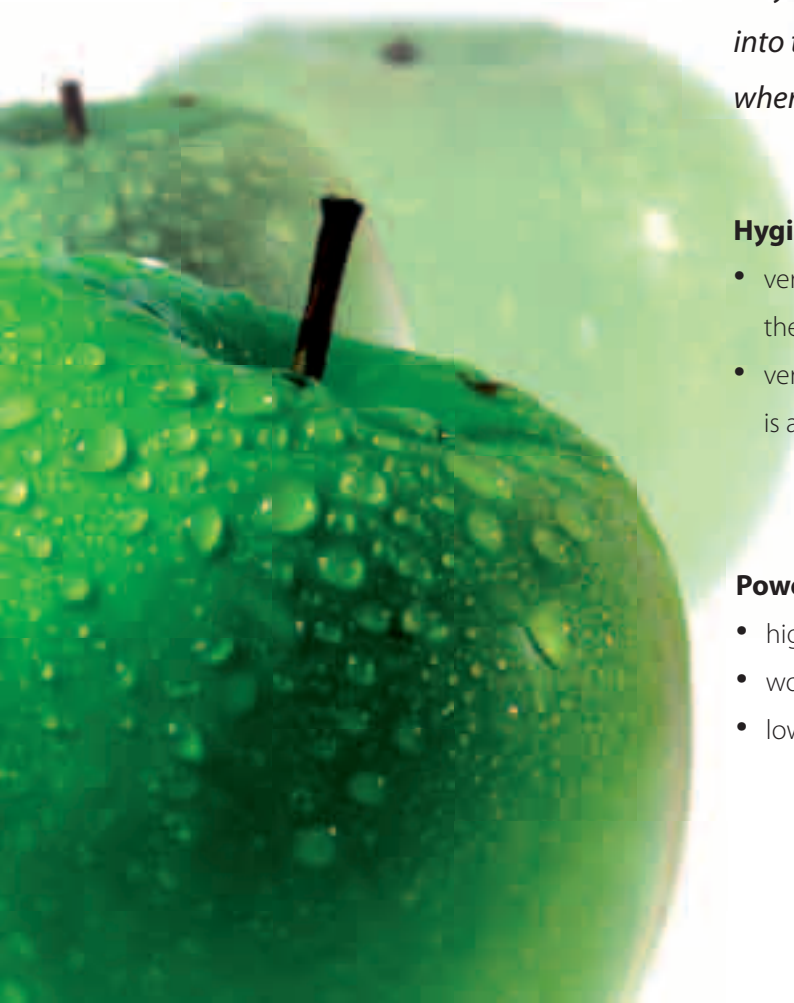
*Very fine droplets are blown into the controlled environment by a built-in fan where they evaporate to humidify and cool the air!*

### **Hygienically safe**

- very small water tank, just 0.12lb (55 ml), which is emptied at the end of each cycle;
- very frequent changing of the water, meaning that fresh water is always atomized.

### **Powerful and simple**

- high atomization capacity, up to 14.3 lb/h (6.5 kg/h);
- works with potable water;
- low power consumption: around 75 W per kg/h of output.



## Accessories

### Humidistat

The simple and low-cost mechanical humidistat can be used.



## Applications

**cold rooms, stores and maturing rooms** for products such as fruit and vegetables, wine cellars (barrel rooms), where low humidity would cause a loss in weight and spoil the products;

**paper and printing industries**, where the correct level of humidity needs to be maintained in order to avoid alterations in the size of the paper, electrostatic discharges and keep dust levels down;

**textile industries**, where the right humidity reduces the breakage of the fibers and problems due to dust, while the adiabatic cooling process absorbs the heat generated by the looms.

## Technical specifications

models	humiDisk <sub>65</sub>	humiDisk <sub>10</sub>
Capacity	14.3 lb/h, adjustable from 1.9 to 14.3 lb/h (0.85 to 6.5 kg/h)	2.2 lb/h (1 kg/h) at 230 V 50 Hz 2.6 lb/h (1.2 kg/h) at 110 V 60 Hz
Power supply	110 V, 60 Hz	110 V, 60 Hz
Power input	230 W	31 W
Air flow-rate	280 m <sup>3</sup> /hour (165 CFM)	80 m <sup>3</sup> /hour (47 CFM)
Water content	0.12lb (0.055 litres)	0.12lb (0.055 litres)
Operating conditions	+34 to +95°F (1T35 °C)	+34 to +95°F (1T35 °C)
	-	-
	0 to 100% RH non-condensing	0 to 100% RH non-condensing
Antifreeze heater	no	no
Electronic board for adjustable capacity control	yes	no
Mechanical humidistat	yes (optional)	yes (optional)
Installation accessories	accessories for ceiling and wall-hung installation, supply and drain hoses included.	accessories for ceiling installation INCLUDED. accessories for ceiling and wall-hung installation, supply and drain hoses included.
Index of protection	IPX4	IPX4
Supply water pressure	100 to 1000 kPa	100 to 1000 kPa
Water temperature limits	+33.8 °F (+1 °C) to +122 °F (+50 °C)	+33.8 °F (+1 °C) to +122 °F (+50 °C)
Limits in the total hardness of the water (*)(**)	max 30 °FH (max 300 ppm CaCO <sub>3</sub> )	max 30 °FH (max 300 ppm CaCO <sub>3</sub> )
Limits water conductivity (**)	100 to 1200 µS/cm	100 to 1200 µS/cm
Certification	CE and ETL	CE and ETL

(\*) not less than 200% of Cl<sup>-</sup> in mg/l

(\*\*) The quantity and the quality of the minerals dissolved in the water affect the frequency of the routine maintenance operations and the amount of dust generated. For best operation, use water (not softened, as this does not reduce the content of minerals dissolved in the water). At any rate, it is suggested to follow the specifications of the UNI 8884 standard, "Characteristics and treatment of the water in cooling and humidification circuits", conductivity <100 µS/cm; total hardness <5 °fH (50 ppm CaCO<sub>3</sub>).

Summary table

Humidifiers

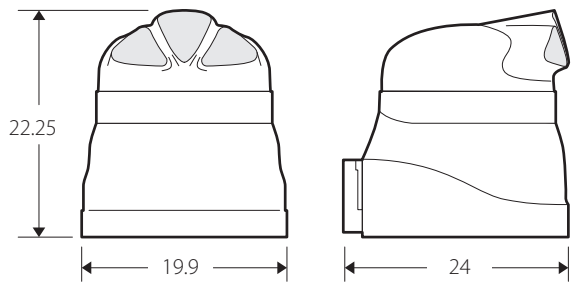
	code	description	notes
USA	UC01001010	centrifugal water spray humidifier - 2.6 lbs/hr - 110V 60Hz	
USA	UC06501010	centrifugal water spray humidifier - 14.3 lbs/hr - 110 V 60 Hz	

Accessory

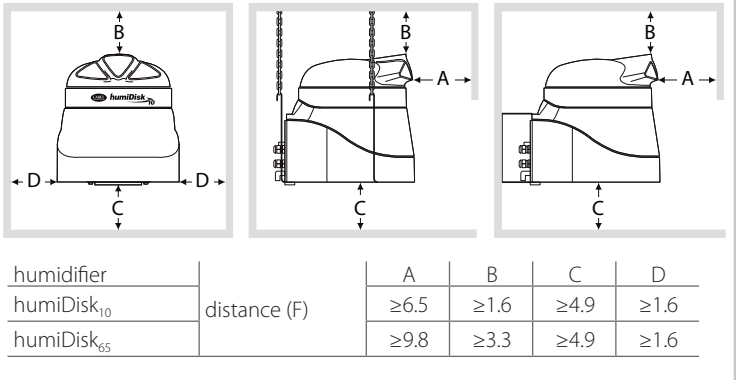
	code	description	notes
USA	HC-101	mechanical room humidistat, 10 to 90% RH	to be used with humiDisk 10 and humiDisk 65.

Dimensions (inches)

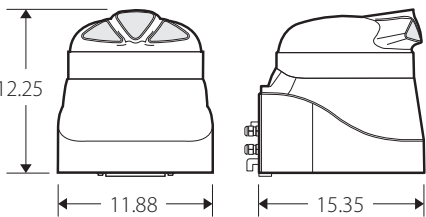
humiDisk<sub>65</sub> - weight 38.8 lbs



Positioning



humiDisk<sub>10</sub> - weight 9.5 lbs



humidistat

