

# CAREL HUMIDIFIER

## HUMIDISK HUMIDIFIER

**humiDisk10/65** is an air humidifier based on the principle of atomising water through centrifugal force. This humidifier can be connected to mains water. humiDisk65 is supplied with an electrical anti-freeze heater. This allows the humiDisk65 to operate at temperature down to -2 °C. humiDisk10 does not have an electrical anti-freeze heater. The humiDisk10 can work at temperature  $\geq 1$  °C. When turned off (humidistat) the water contained in the humiDisk10/65 runs down into the tank and primes the drain siphon, which empties the small tank.

humiDisk is suitable for applications such as:

- Coolrooms and fresh product storage where lack of humidity leads to loss of weight and product deterioration.
- Printing facilities, where the correct level of humidity must be maintained in order to avoid variations in paper sizes.
- Textile industries, where humidity maintenance is an important factor in production processes etc...

The humiDisk10/65 are controlled by an ON/OFF signal from a humidistat. The humidistat is not part of the humiDisk10/65, it is additional.

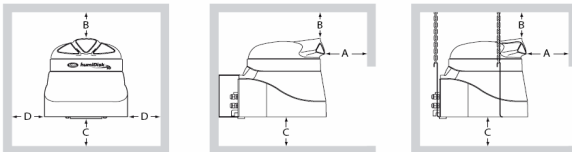
### How Does It Work?

- The motor spins the cone at high speed.
- The cone sucks water into the atomiser disc.
- The disk throws the water to the impact frame where it is atomised into billions of very small droplets.
- The fan then blows the air out of the mist diffuser humidifying the required area.

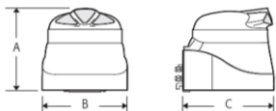


Airefrig Part Number	humiDisk65 UC0650D100	humiDisk10 UC0100D000
Operating Conditions	-2°C to +35°C & 0 to 90% RH non-condensing	+1°C to +35°C & 0 to 90% RH non-condensing
Nominal Water Atomising Capacity	6.5 L/h	1.0 L/h
Humidification Capacity	1.1 to 6.5 L/h	1.0 L/h
Power Supply	230 VAC	230 VAC
Water Temperature Limits	+1°C to +50°C	+1°C to +50°C
Water Inlet Pressure	100 to 1000 kPa	100 to 1000 kPa
Airflow	280 m³/h	80 m³/h
Total Hardness	Max. 30 °FH (300ppm CaCO3)	Max. 30 °FH (300ppm CaCO3)
Conductivity	100 to 1200 µS/cm	100 to 1200 µS/cm
Water Tank Volume	0.055 litres	0.055 litres
Weight (dry)	17.6 kg	4.3 kg

Distance (m)	A	B	C	D
HumiDisk10	$\geq 2$	$\geq 0.5$	$\geq 1.5$	$\geq 0.5$
HumiDisk65	$\geq 3$	$\geq 1$	$\geq 1.5$	$\geq 0.5$

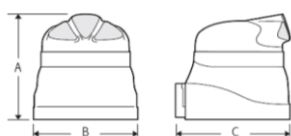


HumiDisk10



A	312 mm
B	302 mm
C	390 mm
Weight	4.3 Kg

HumiDisk65



A	565 mm
B	505 mm
C	610 mm
Weight	17.6 Kg

humiDisk10

1. Mist Diffuser
2. Motor
3. Atomiser Disc
4. Cone & Fan
5. Drain Siphon
6. Main Body
7. Air Filter

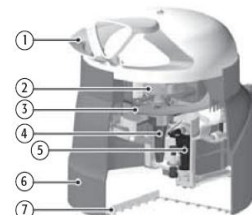


Fig. 1a

humiDisk65

1. Air filter
2. Drain Siphon
3. Cone & Fan
4. Motor
5. Mist Diffuser
6. Impact Frame
7. Atomiser Disc
8. Main Body

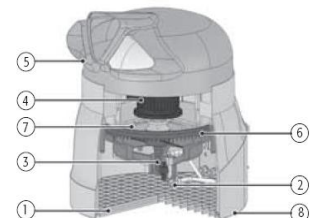


Fig. 1b

Airefrig Part Number	Description	List Price Ex GST
UC0650D100	Centrifugal Humidifier 6.5 L/h humiDisk65 with antifreeze heater kit included	\$6,087.03
UC0100D000	Centrifugal Humidifier 1.0 L/h humiDisk10	P.O.A
UC10KSSP00	Wall mounted bracket for humiDisk10	\$127.38
FWH3415000	Water supply hose, 1.5m, 3/4" connection for humiDisk10	\$66.93
UCKTS00000	Water drain hose for humiDisk10	\$103.11

NOTE: humiDisk65 is supplied with Bracket, supply hose & drain hose