



CAREL

B&T
Tsolakidis
Heating · E-shop

humiDisk
65

Centrifugal humidifier

*humiDisk*₆₅ is a room humidifier that atomises water into a fine mist. Using a high speed spinning disk, water is atomised into billions of droplets 6 to 8 microns in diameter that are easily absorbed by the air providing humidification and cooling.

Hygienically safe!

- very small water tank (0.055 l) only, emptied at the end of every cycle;
- always fresh water used, no stagnation;
- washing procedure at the beginning of every cycle (with CAREL control panel only).

Powerful and simple!

- large atomization capacity 6.5 kg/h, settable between 15 to 100% of the maximum capacity;
- operates with drinking and demineralized water;
- anti-freeze heater (optional) to work down to -2 °C;
- low power consumption: only 220 W (290 W with anti-freeze heater).

and more...

- very fine mist easily absorbed by the air;
- simple and sturdy construction.



Control panels

The electronic control panel is available in two versions for controlling one or two units. By controlling two **humiDisk₆₅** in parallel the humidification capacity reaches 13 kg/h. Each control panel is managed by a microprocessor-based CAREL control unit that controls the humidity using a humidity probe (not included), ON/OFF.

Applications

- **cold rooms**, storage facilities and ripening rooms for products, such as wine, fruit and vegetables, where low humidity level causes weight loss and product spoilage;
- **printing facilities**, where the correct level of humidity must be maintained to avoid variation in paper size and consequent misprints;
- **textile industries**, where a correct humidity level reduces the breakage of the threads and dust problems to a minimum and simultaneously the adiabatic cooling process absorbs the heat produced by the looms.

Technical specifications

Humidification capacity: from 0.85 kg/h up to 6.5 kg/h

Power supply: 230 V, 50 Hz, 0.22 kW

(0.29 kW with anti-freeze heater)

Air flow: 77.8 l/s (280 m³/h)

Water inlet pressure: 100 to 1000 kPa

Water tank: volume 0.055 litre

Index of protection: IP14

Ambient condition limits (without anti-freeze heater):

1T35 °C, 0 to 100 % rH non-condensing

Ambient condition limits (with anti-freeze heater):

-2T35 °C, 0 to 100 % rH non-condensing

Water temperature limits: 1T50 °C / 34T122 °F

Water total hardness limits*: 30 °fH, 300 ppm CaCO₃

Water conductivity limits: 100 to 1200 µS/cm

*not lower than 200% of Cl⁻ in mg/l

The quantity and 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 demineralised 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 CaCO₃).

Product codes

Centrifugal humidifier

UC0650D000 Centrifugal humidifier, **humiDisk₆₅**, 50 Hz, 230 V, without anti-freeze heater

UC0650D100 Centrifugal humidifier, **humiDisk₆₅**, 50 Hz, 230 V, with anti-freeze heater

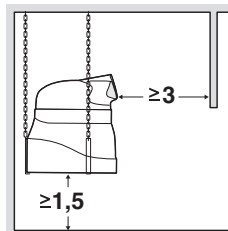
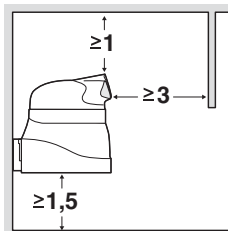
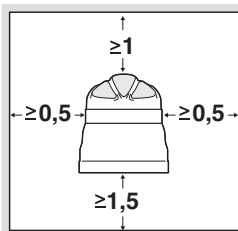
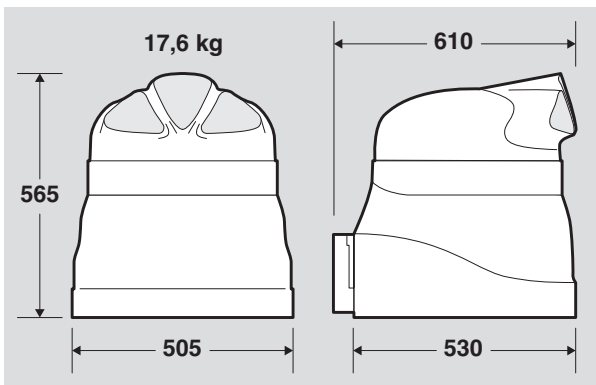
Control panels

UCQ065D100 for one **humiDisk₆₅**, 230 V, 50/60 Hz, single-phase

UCQ065D200 for two **humiDisk₆₅**, 230 V, 50/60 Hz, single-phase

The control panels can be connected to active CAREL humidity probes ASPC*, ASWH*.

Overall (mm) and installation (m) dimensions



humiDisk₆₅ is supplied with all fittings are needed for installation: wall mounting brackets, ceiling mounting brackets, screws, flexible hose for the water supply and drain. **humiDisk₆₅** can be hung from the ceiling or wall mounted.