



HUMIDITY CONTROL

DATA SHEET

HUMIDITY CONTROL

Hanwell humidifiers and dehumidifiers are designed to be used as part of a humidity control system. The range available to users ensures flexible solutions with varying methods of humidifying and dehumidifying to suit individual preferences. The humidifiers can be linked to a control system or interfaced into a local BMS for automated control, where constant and consistent conditions are critical.

The CCR30 can be used in conjunction with Hanwell radio transmitters for automatic control. The B500 and CS4 humidifiers are standalone portable humidifiers. The B500 is supplied with its own control (the B500 is not suitable for use with Hanwell Humidistats) whereas the CS4 comes with a CH1 humidistat.

We can also provide a range of de-humidifiers and electric heaters (for conservation heating use).

Benefits

- Automatic, constant and consistent humidity control
- Easy installation
- Can be used in conjunction with a Hanwell radio system (CCR30)
- Reduce moisture and mould build-up



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B500 humidifier

The B500 humidifier operates in accordance with the evaporation principle which is proven to be one of the best methods for humidification as it ensures that no calcium deposits or water precipitation can form.

Great importance has been attached to ensuring virtually silent operation in an environmentally friendly manner. The humidifier is electronically controlled by an integrated hygrostat keeps the humidity at the required level. In addition to thoroughly humidifying the air, the B500 Electronic also serves another purpose - it filters, purifies and rids the air of dust. Furthermore, it prevents static from forming.

The unit operates on normal or purified tap water. The B500 is normally filled by hand, however, the connection facilities to add an automatic water supply and overflow are already provided on the unit.

Its elegant, timeless design ensures it blends discreetly into any surroundings. The housing is made of the most durable plastic, designed to be anti-static, resistant to acid and alkali, absolutely corrosion-proof and dimensionally stable. Cleaning poses no problems as the relevant assemblies can be removed from the unit without the use of tools.

The design pays particular detail to safety features. A screen guard protects all moving parts such as the blower wheel and pump vanes. The water tank is fitted with a baffle system in order to avoid spillage when moving the unit. Once the supply of water has been used up, the humidifier turns itself off automatically.



Instrumentation Specification

Product Code: Z100

Dimensions: 75.5 x 62 x 36.5cm

Weight: 24kg

Power Supply: 240 volts 50/60Hz AC 1.5kW

Case Material: Durable anti-static plastic

Colours: White, light grey, anthracite

Controls: Electronic accessed via remote control

Evaporation capacity: 2.5l/h at 25°C and 20% RH

Evaporation filter area: 800 m³/h 3.5 m²

Water Capacity: 50 litres

Accessories

Automatic flood detection
Air scoop to duct output
Air cleaning filters
Manual/automatic flushing
UV/Filter

CS4 humidifier with CH1 humidistat

The CS4 humidifier operates in accordance with the evaporation principle which is proven to be one of the best methods for humidification in buildings. This particular procedure ensures that calcium deposits or water precipitation do not form.

The humidifier is electronically controlled with a CH1 humidistat, a microprocessor based system with 2 outputs. Used in conjunction with either the HPS-01 or the HPS-03 power supplies the CH1 will control a wide variety of humidifiers, dehumidifiers and heaters.

Operating on normal or purified tap water the unit, unlike many other humidifier brands, has a removable water reservoir, thus avoiding the necessity to bring open water containers to the humidifier. The reservoir can be filled away from the humidifier and returned and inserted without the risk of spillage.



Instrumentation Specification

Product Code: CH1 + HPS-03 (humidistat)

Sensor

Dimensions: 83 x 83 x 36mm
Weight: 144 grams
Power Supply: 2 volts DC
Case Materials: ABS
Humidity Sensor: Capacitive polymer
Humidity Range: 0 to 100% non condensing
Humidity Accuracy: +/- 3%
Temperature Sensor: Precision thermistor
Temperature Range: 0 to 40°C
Temperature Accuracy: +/- 0.3°C
Display: 4 digit 7 segment LCD
Outputs: 1 x humidification, 1 x dehumidification

Switch Unit

Dimensions: 162 x 59 x 107mm
Weight: 1137 grams
Case Material: Pressed steel, black powder coated
Maximum Switching Capacity: 2.0kW (10A)

Accessories

Traceable calibration
Slave switching units
Radio output
Calibration salts



Instrumentation Specification

Product Code: CS4-01 (humidifier)

Humidifier Instrument

Dimensions: 55.9 x 61 x 43.4cm
Weight (empty): 11kg
Power Supply: 230 volts single phase 50Hz
Case material: Rotational spun moulded construction
Controls: Electronic accessed via remote control
Filter Medium: Patented 'super wick' with greater life expectancy than foam filter types
Max Supply Current: 0.65 amps
Max Fuse Rating: 3 amps

Air Flow

High speed 1200 rpm: 500M3/hr
Medium speed 850 rpm: 350 M3/hr
Low speed 525rpm: 205M3/hr
Performance: @21°C/30% RH
High speed 1200 rpm: 43 litres/24hr
Medium speed 850 rpm: 33 litres/24hr
Low speed 525rpm: 22 litres/24hr
Average sound level: @2m
High speed 1200 rpm: 7dB (A)
Medium speed 850 rpm: 51 dB (A)
Low speed 525rpm: 45 dB (A)

Accessories

Silver Ion water purification sticks
Spare water reservoirs
Replacement filters

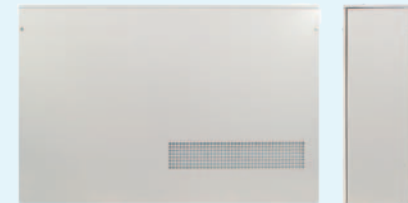
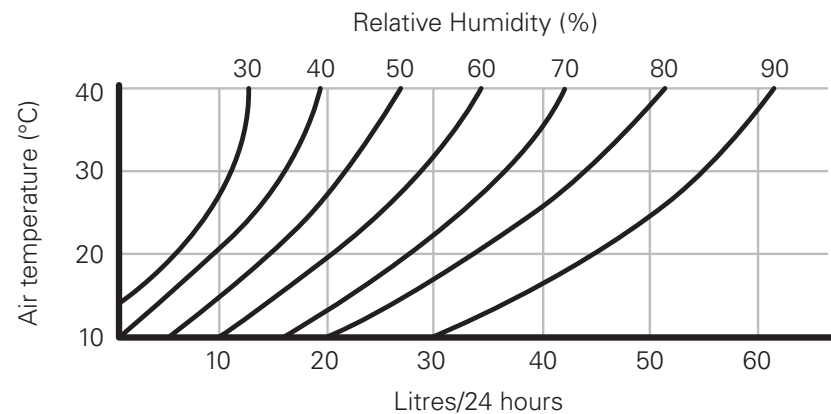
Hanwell CCR30 (humidifier and dehumidifier)

Environmental monitoring with the CCR30 combines a humidifier, a dehumidifier and a radio control system into one unit, actuated by signals from Hanwell T/RH telemetry units. The environmental monitoring afforded by the CCR30 allows the control of relative humidity over the full range required, with a user adjustable switching hysteresis. The hardware is guaranteed never to allow the dehumidifier and humidifier to be on simultaneously. The CCR30 is designed to give precise and automatic control of humidity levels based on signals received from Hanwell radio telemetry sensors. Problems created by microclimates in the vicinity of the plant are completely removed by the use of remote radio sensors. Built to the highest standards, the CCR30 will give years of trouble free service with minimal maintenance.

Main features:

- Humidity set point and dead band are adjustable by the user
- The controller ensures there is no possibility of the humidifier and dehumidifier being on simultaneously
- Open electrode boiler Humidifier ensures sterile water vapour and scale retention
- Steam exit design ensures minimum visibility and low temperatures
- Microprocessor controlled with a host of safety features ensuring reliable operation

Performance:



Instrumentation Specification

Dimensions: 76 x 112 x 30cm

Weight: 70kg

Power Supply: 240 volts 50/60Hz AC 1.5kW

Case Materials: Powder coated steel

Colour: White (other colours available)

Water Supply: Mains fed(filtered not softened)

Drain: Gravity drain

Range Controller Sensor: 0 - 100% RH
-20°C to +80°C

Accuracy Control Sensor: +/- 2% RH +/- 0.5°C

Humidifier Type: Open electrode steam boiler

Performance: 2 litres per hour of steam

Dehumidifier type: Refrigerant (R407C)

Fan: Centrifugal 550 m3/hour

Minimum Operating Temperature: 5°C (5°C
with hot gas defrost)

Performance: See chart (left)

Accessories

Hanwell radio control

Automatic flood detection

Air scoop to duct output

BMS interface

Water filters

Alarm outputs

Hot gas defrost

Ebac dehumidifier

The Ebac dehumidifier is a cost-effective solution to humidity control. Its lightweight casing is made with ABS polymer ensuring strong and robust functionality.

The 29850e has innovative features with ground breaking technology that is unique to Ebac Dehumidifiers. This model includes Smart Control for lower running costs, intelligent Defrost for optimum efficiency, a Quiet Mode and easy to use electronic controls.

The water container will automatically cut off when it's full and indicate to the user with a container full light. Front access to the water container ensures no spillages while trying to remove it.

Main features:

- Compact and portable model
- Quiet mode
- Easy to use controls
- Optional filters and castors and lightweight design
- No spill front access water container
- Elegant trim on the 2650e and 2850e model
- This series is Ebac's core design with a curbed shape
- Patented Smart Control™
- Ebac's core design with a curbed shape
- 18-21 litre / 24 hour extraction rate



Instrumentation Specification

Product code: Z110

Dimensions: 34 x 54.5 x 26cm

Weight: 13kgs

Case Material: ABS Polymer

Minimum operating temperature: 3°C

Maximum Extraction: 21 litres per day

Water Tank Capacity: 3.5 Ltr



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The IMC Group Limited, Pendle House, Jubilee Road, Letchworth, Hertfordshire SG6 1SP Tel: +44 (0)1462 688070 Web: www.the-imcgroup.com