

## Specification for HumiPac™ Ceiling Mounted Humidifier

1. The Humidifiers shall be WRAS approved, for direct connection to mains water supply.
  2. Humidifiers will comply fully with CE, UL and CSA requirements.
  3. Supply JS Humidifiers plc HumiPac™ ceiling mounted humidifier. Humidifier shall be 250 mm overall, in depth, for mounting between ceiling soffit and false ceiling
- Models
- CM20** - Ceiling mounted master unit with remote controller and 10 m cable
- CM20T** - Ceiling mounted tamperproof master unit with remote controller mounted on side
- CM20S** - Ceiling mounted slave unit without remote controller for use with above
- CM20P** - Ceiling space mounted master unit with louvres, remote controller and 10 m cable
- CM20PT** - Ceiling space mounted tamperproof unit with louvres, no remote controller preset to 45% rH setpoint
- CM20PS** - Ceiling space mounted slave unit with louvres, without remote controller for use with CM20P
- The humidifier shall be of the cold water evaporative type, capable of producing from between 0 – 5 kg/hr depending on supply air conditions.
4. Moisture shall be generated from a wetted matrix, impregnated with silver ion for hygiene, situated across the airflow passing through the humidifier.
  5. The humidifier to be suitable for connection to any potable mains water source.
  6. The humidifier shall be supplied either as a stand-alone single unit, or as multiple units in master / slave configuration, with up to 7 slaves per master unit.
  7. Each humidifier shall be individually controlled by microprocessor, to a set point, with integral humidity sensor, measuring return air conditions.
  8. Set point range shall be selectable from 40 – 60 % rH or 10 – 90 % on remote controller. Where no remote controller is supplied humidifier may be pre-set to 45 % or 55% rH set-point
  9. Air flow through the humidifier shall be driven by an integral fan with 3 selectable speeds. (300; 440; 570 m3/hr)
  10. Return air shall be filtered through an EU4 class, antibacterial filter, removable from beneath the unit
  11. The Humidifier shall be supplied with the option of a wall mounted controller and RJ 45 cable to enable unit on/off; 3 fan speed settings; rH set point; automatic operation and fault status. If optional wall mounted controller is not supplied, the humidifier shall be set up to function automatically to a set point of 45% or 55% rH selected on the microprocessor control board
  12. The operational status is to be indicated by a luminated power on / off switch and series of LED's on the control panel beneath the unit.
    - Green LED Drain cycle on
    - Green LED Filling cycle on
    - Green LED Humidifier on
    - Green LED 12v control circuit on
    - Red LED Common fault warning
  13. BMS timer control input connections shall be provided on the interface pcb to enable / disable the unit remotely
  14. BMS common fault shall be indicated via a volt free contact on the interface pcb for condensate detection; high water level in tank; high pressure drop across air filter.
  15. Any fault to be indicated not only by a red light beneath the unit but also by a de-selectable constant audible alarm. Also where wall mounted controller option is selected, a flashing green and red light shall indicate fault.

16. Hygiene control shall be maintained by up to 4 flushing cycles / 24 hours and up to 2 drain cycles / 24 hours.
17. The inlet water valve shall incorporate a strainer and flow restriction to suit connection to supplies from 0.5 to 6 bar.
18. The re-circulating water supply to the matrix shall incorporate a 5 micron strainer
19. For CM20/T/S the Humidifier shall be suspended above false ceilings and return air shall be drawn into the unit via 250mm diameter flexible duct, with appropriately sized egg crate inlet grille. The supply air to the room shall be conveyed through twin 200 mm diameter flexible ducts, with appropriately sized adjustable volume outlet diffusers.
20. For CM20P/PS/PT the humidifier shall be suspended into required space and air shall be drawn into louvered inlet and discharged through louvered outlet.
21. For CM20P/PS/PT the humidifier shall be suspended into required space and air shall be drawn into louvered inlet and discharged through louvered outlet.
22. The unit shall be of riveted construction, from powder coated zintec mild steel, with fan / humidifier section, electrical section and water pump section to form three distinct compartments, weight approximately 46kg's. Each compartment to have a removable door, with ¼ turn fasteners,
23. The fan / humidifier section to be insulated with 'class O', 10 mm / 3mm thick foam.
24. The humidifier matrix tray and pump tray shall be of 316 stainless steel.
25. All parts requiring maintenance / servicing shall be easily accessible via 3 compartments on side and beneath unit.

The system is to be supplied by:

**JS Humidifiers plc**

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