

These humidity cabinets are designed to meet the ICH requirements for pharmaceutical stability and shelf-life testing. They also have applications elsewhere in industrial research, quality control and seed germination.



MER660



MER425



MER700

Cooled models have refrigeration systems that extend the temperature control range down to +10°C; below ambient humidity down to 20%RH requires dehumidification (cabinet specific extra).

Please note that at the extremes of control not all combinations of temp and humidity are possible.

HUMIDITY CONTROL

The ultrasonic atomiser maintains the desired humidity. On request from the PID humidity controller, de-ionised water in the humidity reservoir is atomised and then blown into the cabinet by a small fan. This continues until the required humidity level is reached. This method has the advantage of being fast to respond, requires no pumps and has no effect on the temperature stability since no heat is required to atomise the water. Condensate water is evaporated away.

All cabinets have an internal de-ionised water reservoir that can be linked to automatically fill when the level gets low. As standard, an indicator lamp gives 24 hours' warning of low water level. If the water is not topped up, a failsafe device shuts the humidifier down.

Applications requiring control at humidity levels below ambient can be catered for by the addition of a dehumidifier system to standard cooled models. Please call with details.

It is also possible to cater for users requiring the temperature and/or humidity to automatically cycle or 'ramp and dwell' between two or more set values.

PERFORMANCE Standard models.

Temp: control of +/-0.1°C, variation typically +/-0.5°C
Humidity: resolution to 1%RH, variation typically +/-2%RH

PRODUCT SECURITY

Both the temperature and humidity controllers can be 'locked' to prevent unauthorised access or tampering with the settings.

A chart recorder can be fitted to keep a permanent record of temperature and humidity. Alternatively, a 4-20mA data output can be provided, or an independent alarm & monitoring system fitted.

MODEL RANGE

All models are also available without cooling. External dimensions (mm):

MER 425/RH	344 litres	2000 x 600 x 740	MER700/RH	700 litres	2080 x 720 x 830
MER600/RH	475 litres	2000 x 695 x 885	MER1020/RH	1020 litres	2000 x 1390 x 885
MER660/RH	530 litres	2150 x 695 x 885	MER1400/RH	1134 litres	2150 x 1390 x 885

Note: Allow approx 230mm at rear for humidifier

Options include automatic water fill & deioniser, door locks, chart recorders & programmers.