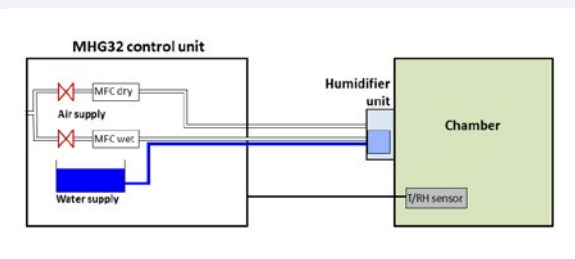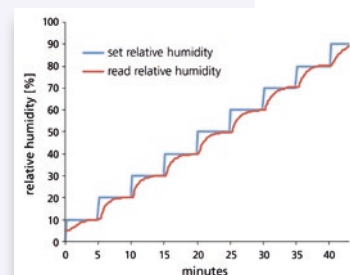# Modular Humidity Generator MHG32

Fast and precise humidity control in small volumina and sample chambers of analytical equipment. The innovative design with the external humidifier unit directly connected to the chamber to be humidified enables a fast control response even at small flow rates.

Technical data

Selectable flow rate	0 … 500 ml/min (optional 1000 ml/min) controlled flow
Selectable humidity range	2 % RH to 98 % RH*
Humidity sensor accuracy	±0.8 % RH (0 … 98 % RH), ±0.1 K, at 10 … 30 °C
	long term stability: better than 1 % per year
Temperature range humidifier	with option TC:
	temperature control from ambient to 80 °C
	without option TC:
	no active temperature control**
Water supply	removable tank, 700 ml
Gas supply	compressed air/ N_2***
	2 bar to 10 bar
	dry, clean, oil-free (class 1, ISO 8573-1:2010)
Dimensions & weight	mixer unit for direct connection to humidified chamber:
	width 32 mm, depth 23.5 mm, height 32 mm, 0.2 kg
	control unit:
	width 450 mm, depth 320 mm, height 140 mm, 6.5 kg
	(dimensions not including connections)
Supply line, sensor cable	2 m length
Environmental conditions	+15 °C to +35 °C, max 75 % RH
Power supply	voltage: 100-120 VAC and 200-240 VAC, 50-60 Hz
	consumption: 180 W
Interfaces	graphical user interface at the device
	remote control via RS232 (optional Ethernet)
Software	MHG Control (Windows 7/Windows 10)

* The minimum achievable humidity depends on the water content of the carrier gas. Sensor data based on Rotronic HC2S-A.
** External heating/cooling can be adapted by the customer. Temperature range: Min. 2 °C to Max. 95 °C.
*** Other gases on request. By default, flow controllers are calibrated to air as carrier gas.