HUM SERIES · INDUSTRIAL ULTRASONIC HUMIDIFIERS

DanVex HUM-12S

Industrial ultrasonic humidifier · 12 L/h



Industrial ultrasonic humidifiers for permanent installation where stable humidity is part of the process — printing and paper, manufacturing sites, storage of moisture-sensitive goods, museums, laboratories and indoor cultivation.

Ultrasonic transducers produce a fine cold mist at low energy cost; a digital panel with external hygrostat and Modbus RTU RS-485 holds humidity to setpoint and integrates with building management.

Printing & paper · Manufacturing · Greenhouses · Museums & archives · Laboratories · Storage & warehouses

KEY FEATURES

- **Ultrasonic atomisation** — high-frequency transducers produce fine cold mist; low energy vs steam humidifiers
- **Digital control + external hygrostat** — Auto / Manual modes, remote humidity sensor, Modbus RTU RS-485 for BMS
- **Instant start-up** — no preheating required — full output from the moment it switches on
- **Stainless steel housing** — corrosion-resistant cabinet for long service life
- **Direct water supply** — G ½″ inlet/drain with float sensor, auto-drain and emergency overflow valves
- **Safe fog temperature** — controlled by the water inlet temperature, preventing burns and protecting nearby equipment

SPECIFICATIONS

Maximum capacity	**12 L/h**
Maximum daily output	**288 L/day**
Working RH range	**0–100% RH**
Supply airflow	**280 m³/h**
External static pressure	**40 Pa**
Mist vent	**2×110 mm**
Operating temperature	**+5 … +45 °C**
Power	**1200 W**
Voltage	**230 V 1-ph / 50–60 Hz**

Control	**Digital, Auto/Manual, ext. hygrostat**
Connectivity	**Modbus RTU RS-485**
Water inlet / drain	**G ½″ / G ½″**
Ingress protection	**IPX0 (dry indoor)**
Dimensions (L×W×H)	**640×420×500 mm**
Package size (L×W×H)	**730 × 520 × 630 mm**
Net weight	**39 kg**
Gross weight	**40 kg**

DIMENSIONS

UNIT L×W×H	PACKAGE L×W×H	NET / GROSS WEIGHT	MIST OUTLETS
640×420×500 mm	**730 × 520 × 630 mm**	**39 kg / 40 kg**	**2×110 mm**

SCOPE OF SUPPLY

- Ultrasonic humidifier, stainless steel housing
- External humidity sensor (hygrostat)
- Pre-filtration water filter
- Digital control panel with Modbus RTU RS-485

INSTALLATION & CONNECTIONS

Mounting — Floor-standing (castors), wall-mounted or remote-mounted; mist outlets Ø 110 mm can be connected to distribution hoses or ducts. Position so that the mist does not settle on equipment or surfaces before it evaporates.

Water connection — Direct water supply G ½″ with float sensor and pre-filtration water filter; drain G ½″ with self-draining valves and safety overflow. High-purity water — reverse-osmosis or distilled — is recommended to avoid mineral deposits.

Electrical supply — 230 V, 1-phase, 50–60 Hz, plug-in connection to a socket protected per local code.

Control & BMS — Digital control panel, Auto / Manual modes, external humidity sensor (hygrostat) included; Modbus RTU RS-485 for BMS/SCADA.

HUM SERIES — MODEL RANGE

Parameter	HUM-3S	HUM-6S	HUM-9S	HUM-12S	HUM-15S	HUM-18S
Maximum capacity	3 L/h	6 L/h	9 L/h	**12 L/h**	15 L/h	18 L/h
Maximum daily output	72 L/day	144 L/day	216 L/day	**288 L/day**	360 L/day	432 L/day
Supply airflow	180 m³/h	180 m³/h	280 m³/h	**280 m³/h**	300 m³/h	400 m³/h
External static pressure	20 Pa	20 Pa	40 Pa	**40 Pa**	50 Pa	50 Pa
Mist vent	1×110 mm	1×110 mm	2×110 mm	**2×110 mm**	3×110 mm	3×110 mm
Power	300 W	600 W	900 W	**1200 W**	1500 W	1800 W
Dimensions (L×W×H)	600×300×495 mm	600×300×495 mm	640×420×500 mm	**640×420×500 mm**	640×640×500 mm	640×640×500 mm
Net weight	26 kg	27 kg	36 kg	**39 kg**	50.5 kg	54 kg

Specifications, dimensions and drawings are subject to change without notice and may differ from the delivered unit; verify critical dimensions against the installation manual before design work. Humidification capacity is the maximum output at nominal water and air conditions.

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