DEH-K SERIES · INDUSTRIAL STATIONARY DEHUMIDIFIERS

DanVex DEH-2K 380 V

Stationary industrial dehumidifier · 200 L/day · 3-phase · R-32



Stationary industrial dehumidifiers for permanent installation where humidity control is part of the building or process specification — manufacturing sites, large warehouses and logistics hubs, food and pharmaceutical production, and indoor cultivation.

Vertical top-discharge airflow distributes dry air evenly throughout the room volume and reaches the upper layers where moisture collects, for uniform conditions and efficient drying across large industrial spaces.

Manufacturing · Large warehouses · Food production · Pharmaceutical · Logistics & distribution · Indoor cultivation

KEY FEATURES

- **Top-discharge airflow** — vertical discharge reaches the upper room volume and connects straight to overhead ducting
- **Blue Fin heat exchanger** — hydrophilic anti-corrosion coating for demanding industrial atmospheres
- **5-in-1 air quality sensor** — CO_2 · PM2.5 · TVOC · RH · T° monitored continuously
- **Three-phase 380–415 V** — high-capacity dehumidification for sites already wired for three-phase
- **Step-Control AC blower** — heavy-duty multi-speed centrifugal fan, 200 Pa static pressure for ducting
- **Wi-Fi + Modbus RTU RS-485** — app control and BMS/SCADA integration active simultaneously

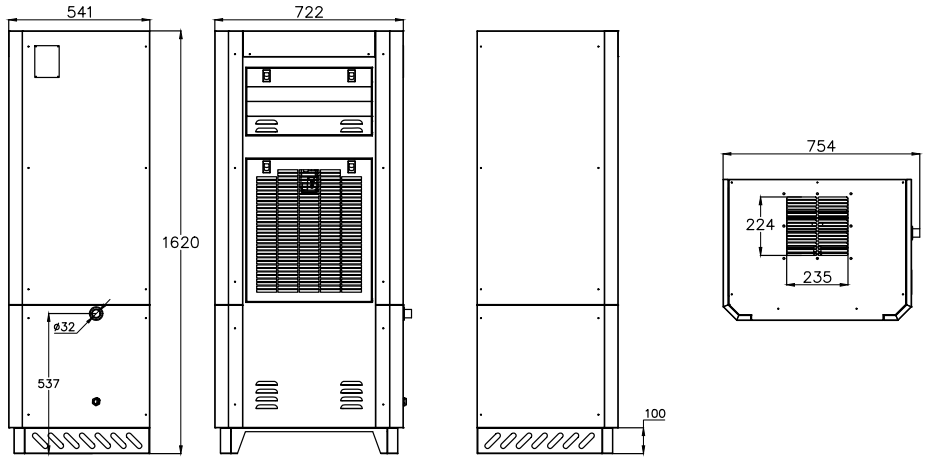
SPECIFICATIONS

Dehumidification	**200 L/day**
Supply airflow	**2500 m³/h**
External static pressure	**200 Pa**
Operating temperature	**+5 … +38 °C**
Working humidity range	**30–100% RH**
Voltage / Frequency	**380–415 V 3-phase / 50–60 Hz**
Compressor	**R-32**
Fan system	**Step-Control AC (multi-speed)**
Heat exchanger protection	**Blue Fin**
Defrost system	**Hot Gas Defrost**
Air quality sensor	**5-in-1 (CO_2/PM2.5/TVOC/RH/T°)**
Air purification	**UV Steriliser + Anion**

Filtration	**G4**
Rated power (variable)	**4000 W**
Current	**7 A**
Refrigerant	**R-32 × 1700 g**
Noise level at 1 m	**< 55 dB(A)**
Water protection	**IPX4**
Dimensions (L×W×H)	**754 × 540 × 1620 mm**
Package size (L×W×H)	**900 × 650 × 1850 mm**
Net weight	**161 kg**
Gross weight	**190 kg**
Condensate drain connection	**Ø 32 mm**
Connectivity / BMS	**Wi-Fi + Modbus RTU RS-485**

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DIMENSIONS & VIEWS



Dimensions in mm. Views: side panel with Ø32 condensate drain, front view with return-air intake, side view, plan view with top supply-air outlet.

UNIT L×W×H	PACKAGE L×W×H	NET / GROSS WEIGHT	CONDENSATE DRAIN
754 × 540 × 1620 mm	**900 × 650 × 1850 mm**	**161 kg / 190 kg**	**Ø 32 mm**

SCOPE OF SUPPLY

- Stationary dehumidifier unit — G4 filter fitted; UV steriliser, anion generator, 5-in-1 sensor, Wi-Fi and Modbus RTU RS-485 integrated; factory refrigerant charge (R-32)
- Electronic controller with built-in humidity sensor
- Remote control module

INSTALLATION & CONNECTIONS

Mounting	Floor-standing unit for permanent installation in production halls, warehouses and process areas; place on a level floor with free space in front of the intake grille and above the top outlet.
Air distribution	Top vertical discharge distributes dry air through the upper zone of high rooms and avoids short-circuiting to the intake. The top outlet can be connected to ductwork for distribution to several zones.
Condensate drain	Ø 32 mm drain connection on the side panel; connect to a drain line with continuous fall.
Electrical supply	380–415 V, 3-phase, 50–60 Hz. Dedicated circuit with circuit breaker sized per model current and local code; connection by a certified electrician.
Control & BMS	Electronic controller with built-in humidity sensor or remote control module (both included). Modbus RTU RS-485 for BMS/SCADA; Wi-Fi for app control.
Service	Filter access through the front panel; G4 filter cleaned or replaced per the manual.

DEH-K SERIES — MODEL RANGE

Parameter	DEH-2K 380 V	DEH-2K 220 V	DEH-3K	DEH-5K	DEH-10K
Dehumidification	**200 L/day**	240 L/day	300 L/day	500 L/day	1000 L/day
Supply airflow	**2500 m³/h**	2800–3200 m³/h	2800–3500 m³/h	4800–5300 m³/h	9500–12000 m³/h
External static pressure	**200 Pa**	200 Pa	200 Pa	250 Pa	300 Pa
Voltage / Frequency	**380–415 V 3-phase / 50–60 Hz**	220–230 V 1-phase / 50–60 Hz	380–415 V 3-phase / 50–60 Hz	380–415 V 3-phase / 50–60 Hz	380–415 V 3-phase / 50–60 Hz
Compressor	**R-32**	Inverter, R-32	Inverter, R-32	Inverter, R-32	Inverter, R-32
Fan system	**Step-Control AC (multi-speed)**	Smart-Inverter EC (0–100%)	Smart-Inverter EC (0–100%)	Smart-Inverter EC (0–100%)	Smart-Inverter EC (0–100%)
Heat exchanger protection	**Blue Fin**	E-Coating	E-Coating	E-Coating	E-Coating
Rated power (variable)	**4000 W**	3040–4200 W	3260–4930 W	6080–9224 W	18500–21130 W

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. Dehumidification capacity measured at 30 °C / 80% RH.