DEH-I SERIES · INDUSTRIAL MOBILE DEHUMIDIFIERS

DanVex DEH-1900i

Mobile industrial dehumidifier · 180 L/day · R-290



The DanVex DEH-1900i is a professional mobile industrial dehumidifier rated at 180 L/day, built specifically for demanding sites and industrial applications. It uses R-290 refrigerant, an E-Coating heat exchanger, Hot Gas Defrost and a high-pressure centrifugal fan.

Mounted on a rolling cabinet, it moves between rooms and floors, and integrates with building management systems over Modbus RTU RS-485.

Construction & drying · Warehouses · Food & pharma production · Flood restoration · Drying chambers · Indoor cultivation

KEY FEATURES

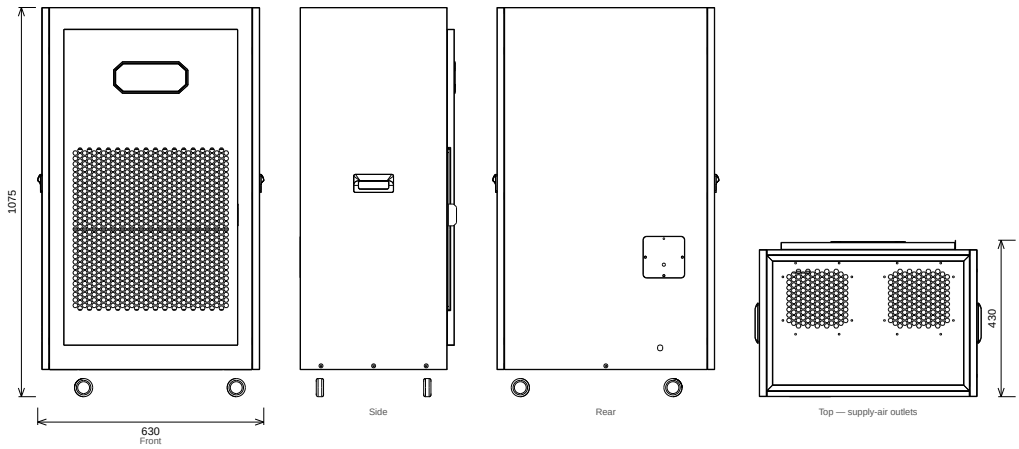
- **E-Coating heat exchanger** — electrochemical anti-corrosion coating, standard across the series
- **High-pressure centrifugal fan** — moves air across large volumes, with optional duct connection
- **Modbus RTU RS-485** — BMS integration on every model
- **Hot Gas Defrost** — 3-minute defrost cycle — dehumidification continues, no 20–30 min stop
- **R-290 refrigerant** — low-GWP, hermetically sealed circuit
- **Mobile chassis** — trolley / rolling cabinet for repositioning on site

SPECIFICATIONS

Dehumidification (30 °C / 80% RH)	**180 L/day**
Process airflow	**2000 m³/h**
Form factor	**Rolling cabinet**
Power consumption	**1700 W**
Voltage / Frequency	**220–230 V / 50–60 Hz**
Operating temperature range	**+10 … +35 °C**
Working humidity range	**30–100% RH**
Current	**7.2 A**
Refrigerant	**R-290 × 465 g**
Defrost system	**Hot Gas Defrost**
Heat exchanger coating	**E-Coating**

Fan	**High-pressure centrifugal**
Noise level at 1 m	**< 60 dB(A)**
Condensate tank	**— (direct drain only)**
Control	**Digital + Wi-Fi + Modbus RTU RS-485**
Dimensions (L×W×H)	**630 × 430 × 1075 mm**
Package size (L×W×H)	**770 × 570 × 1300 mm**
Net weight	**69 kg**
Gross weight	**87 kg**
Duct connection	**2 ports**
Ingress protection	**IP22**
Air filter	**G1 (washable)**

DIMENSIONS & VIEWS



Dimensions in mm. Views: front with return-air grille and display, side with handle, rear with connection box, top with supply-air outlets (duct connections).

UNIT L×W×H	PACKAGE L×W×H	NET / GROSS WEIGHT
630 × 430 × 1075 mm	**770 × 570 × 1300 mm**	**69 kg / 87 kg**

SCOPE OF SUPPLY

- Mobile unit with wheels / handle
- G1 washable air filter
- Digital controller with integrated temperature and humidity sensors
- Modbus RTU RS-485 interface
- Factory refrigerant charge (R-290)

INSTALLATION & CONNECTIONS

Placement	Mobile cabinet on castors for construction drying, warehouses, production areas and water-damage restoration; position in the zone to be dried with free space around the intake and the top outlets.
Condensate	Direct drain connection only; connect to a drain line with continuous fall.
Duct connection	Two duct connections on the top outlets for distribution to adjacent rooms or drying chambers.
Electrical supply	220–230 V, 1-phase, 50–60 Hz, plug-in connection to a socket protected per local code.
Control & BMS	Digital controller with humidity setpoint; Modbus RTU RS-485 and Wi-Fi for integration into automated climate control systems and app control.
Service	Washable G1 air filter; rinse and refit per the manual.

DEH-I SERIES — MODEL RANGE

Parameter	DEH-500i	DEH-900i	DEH-1200i	DEH-1900i
Dehumidification (30 °C / 80% RH)	59 L/day	90 L/day	120 L/day	**180 L/day**
Process airflow	500 m³/h	840 m³/h	1400 m³/h	**2000 m³/h**
Form factor	Wheeled trolley	Wheeled trolley	Wheeled trolley	**Rolling cabinet**
Power consumption	880 W	1150 W	1380 W	**1700 W**
Current	3.8 A	5.3 A	6.8 A	**7.2 A**
Refrigerant	R-290 × 180 g	R-290 × 250 g	R-290 × 300 g	**R-290 × 465 g**
Noise level at 1 m	< 64 dB(A)	< 64 dB(A)	< 64 dB(A)	**< 60 dB(A)**
Condensate tank	10 L	10 L	10 L	**— (direct drain only)**

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.