DANVEX

DEHUMIDIFIERS

HUMIDIFIERS

CLIMATE CONTROL SYSTEMS

HEAT PUMPS

danvex.com

High-Performance Condensing Duct Dehumidifiers

DanVex DD Series / DanVex DD-F Series



The DD series ducted dehumidifiers combine the functions of air dehumidification, ventilation, and air purification in a single compact unit.

Designed with an ultra-slim casing for concealed ceiling or wall installation, these systems are ideal for preserving valuable space and maintaining the aesthetics of the interior. This makes them a perfect solution for environments where visual harmony and compact equipment placement are essential.

All models in the ducted series are equipped with high-performance fans, allowing them to function as part of a central ventilation system or operate independently.

The product line includes units with dehumidification capacities ranging from 36 to 1000 liters per day and airflows of up to 11,000 m³/h, offering tailored solutions for a wide range of applications — from private interiors to large-scale commercial projects.

DD-168 / DD-240 / DD-380 / DD-480 / DD-720 / DD-960



DD-36F / DD-56F / DD-96F / DD-136F



Digital controller





This controller provides comprehensive management of the dehumidifier, including:

- Real-time display of operating states and sensor readings.
- Diagnosis and display of error messages.
- Adjustment of setpoints (humidity, temperature, etc.).
- Wifi connection for convenient remote control and monitoring via a mobile app or web portal.
- An integrated RS485 interface (Modbus RTU) for reliable wired communication, enabling seamless integration into building management systems (BMS), SCADA, or networks of other devices.

DanVex DD Series / DanVex DD-F Series

Key advantages of the series



Automatic Microclimate Regulation

Integrated 5-in-1 sensor (CO2, PM2.5, TVOC, RH, temperature) enables the system to autonomously maintain a stable and comfortable indoor environment, eliminating the need for manual adjustments.



Full inverter

Full inverter technology in industrial HVAC adjusts compressor speed to match exact demand, boosting energy efficiency and temperature stability while enhancing reliability.



Smart Control

Digital controller with Wi-Fi and Modbus protocol support — convenient remote control via mobile app or integration into centralized control systems.



Compact Design

The ultra-slim housing allows installation in tight ceiling spaces while maintaining interior aesthetics. At the same time, the durable housing made of galvanized steel with powder coating permits installation outside the serviced area.



Ultra-Quiet Operation

Thanks to advanced noise reduction technology, DD/DD-F dehumidifiers operate with minimal sound, making them ideal for residential, office, or public buildings where acoustic comfort is essential.



Efficient Air Cleaning

Three-stage filtration system, including a HEPA filter (DD-F version), effectively traps dust, allergens, bacteria, and other pollutants, ensuring clean and safe indoor air.



Automatic Fresh Air Valve with CO_2 sensor (DD-F version)

The unit can automatically introduce outdoor air to maintain optimal oxygen levels and improve indoor air quality.



Improved Microclimate

The air ionizer enriches the room with negative ions, promoting freshness and enhancing overall well-being.



Hot gas Defrost

Ensures fast and efficient evaporator defrosting in just 3 minutes, compared to 30 minutes with natural defrost.



Enhanced Durability

Straight copper tubes with 0.5 mm wall thickness, and bent tubes up to 1 mm — twice the industry standard, significantly extend the service life of equipment.



Hygiene and Freshness with Self-Cleaning Function

UV lamp and antifungal treatment (Antifungus) create a sterile environment inside the unit, preventing mold and bacterial growth.



Easy Maintenance

Automatic timer alerts when filter replacement is needed. Maintenance is performed through a removable side door for quick access to internal components.



E-Coating

The coating resists corrosion from moisture, seawater, mild acids / alkalis, and chlorine, extending service life. Solvent-free electrodeposition makes it suitable for food and pharmaceutical use.

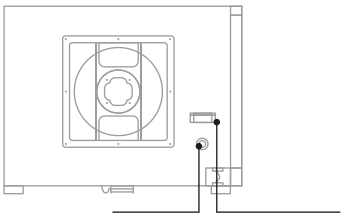


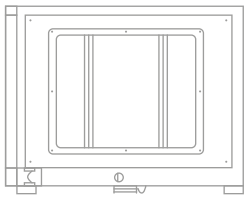
Eco-Friendly Operation

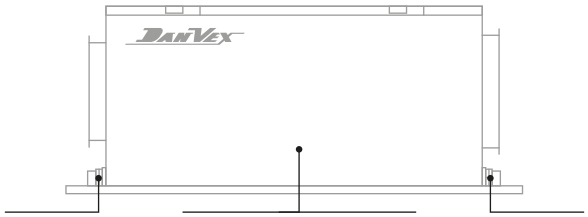
The unit operates on R-32 refrigerant, offering high energy efficiency and minimal environmental impact.

DanVex DD Series

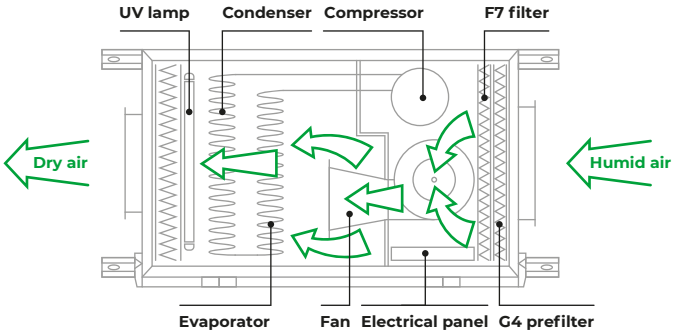
DanVex DD Series – The DD series draws in air from the room, dehumidifies it, and returns it back. These units feature one air intake and one air exhaust port.

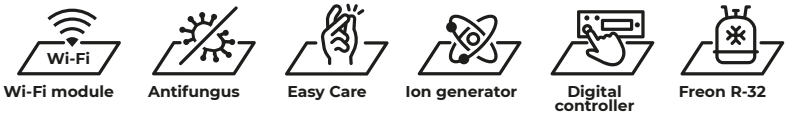








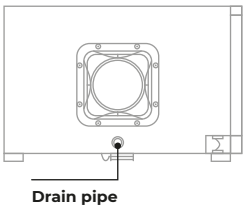


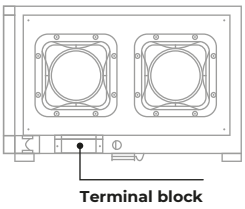


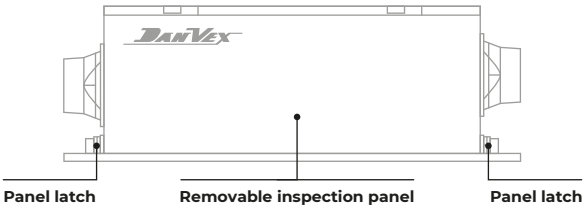
MODEL	DD-168	DD-240	DD-380	DD-480	DD-720	DD-960
Dehumidifier capacity (30°C, 80% RH)	140-210 L/day	220-260 L/day	300-420 L/day	480 L/day	750 L/day	960 L/day
Supply airflow	1700-2200 m³/h	1900-2700 m³/h	3500-3850 m³/h	4800-5300 m³/h	7500-9000 m³/h	9000-12000 m³/h
Return airflow	1700-2200 m³/h	1900-2700 m³/h	3500-3850 m³/h	4800-5300 m³/h	7500-9000 m³/h	9000-12000 m³/h
Static Pressure	200 Pa		250 Pa		400 Pa	
Air cleaning, filter type	G4+F7, UV-lamp, ionization					
Working range	45-100 %RH					
Operating t° range	+5 ...+38 °C					
Power	1830-2520 W	3040-4200 W	4580-6246 W	6080-9224 W	8700-13500 W	11600-18500 W
Current	2.7-3.8 A	4.6-6.4 A	6.9-11.6 A	9.2-14 A	13-20 A	17-28 A
Voltage / Frequency	380-415 V / 50-60 HZ					
Noise level, dB(A) at 1m	< 45 dB	< 48 dB	< 50 dB	< 55 dB		
Full inverter	Yes					
Heat exchanger protect	E-coating			Blue fin		
Refrigerant	R32×1600 g	R32×1800 g	R32×2500 g	R32×2800 g	R32×5000 g	R32×8000 g
Control	Digital controller, Wi-Fi, Modbus					
Air sensor	CO2, PM2.5, TVOC, Temp. & RH					
Return air duct	350×350 mm		750×450 mm		1200×450 mm	
Supply air duct	350×350 mm		818x313 mm		1058×348 mm	
Dimensions (L×W×H)	1250×820×600 mm		1370×1120×720 mm		1700×1650×720 mm	
Package size (L×W×H)	1300×850×730 mm		1400×1150×860 mm		1770×1710×860 mm	
Net weight	108 kg	119 kg	189 kg	200 kg	422 kg	450 kg
Gross weight	132 kg	145 kg	245 kg	256 kg	500 kg	586 kg

DanVex DD-F Series

DanVex DD-F Series – Dehumidifier with automatic fresh air valve. This model is equipped with two air intakes: one for indoor air recirculation and the other for outdoor fresh air intake.

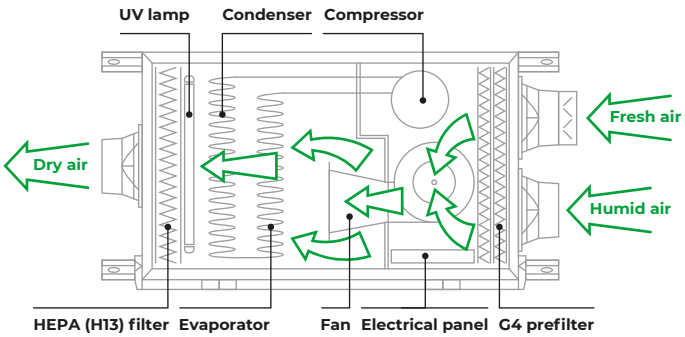


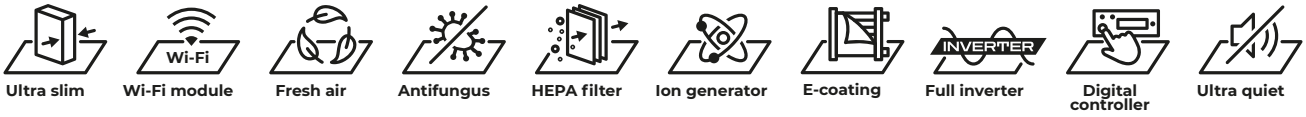




Fresh air is filtered, dehumidified, mixed with recirculated air, and delivered to the room. Flow is regulated manually or automatically.







MODEL	DD-36F	DD-56F	DD-96F	DD-136F
Dehumidifier capacity (30°C, 80% RH)	32-44 L/day	45-75 L/day	98-145 L/day	110-155 L/day
Supply airflow	410-500 m³/h	450-600 m³/h	650-870 m³/h	800-1150 m³/h
Return airflow	410-500 m³/h	450-600 m³/h	570-870 m³/h	770-1150 m³/h
Fresh airflow	0-200 m³/h		0-300 m³/h	0-380 m³/h
Static Pressure	120 Pa		150 Pa	180 Pa
Air cleaning, filter type	G4+H13 (HEPA), UV-lamp, ionization			
Working range	45-100 %RH			
Operating temperature range	+5 ...+38 °C			
Power	460-850 W	550-970 W	920-1260 W	1100-1860 W
Current	2.0-3.8 A	2.5-4.4 A	4.1-5.7 A	5-8.5 A
Voltage / Frequency	220-230 V / 50-60 Hz			
Noise level, dB(A) at 1m	< 32 dB		< 35 dB	
Full inverter	Yes			
Heat exchanger protection	E-coating			
Refrigerant	R32×550 g	R32×600 g	R32×720 g	R32×850 g
Control	Digital controller, Wi-Fi, Modbus			
Return air duct	200 mm		200 mm	
Supply air duct	200 mm		200 mm	
Fresh air duct	150 mm		150 mm	
Dimensions (L×W×H)	1160×590×325 mm		1200×640×370 mm	
Package size (L×W×H)	1220×640×450 mm		1250×690×500 mm	
Net weight	62 kg	67 kg	69 kg	72 kg
Gross weight	67 kg	72 kg	74 kg	77 kg

DanVex DEH-K Series



The DEH-K series consists of professional dehumidifiers designed for operation in large spaces or environments with excessively high humidity levels. These models are built for heavy-duty use in industrial and commercial settings and feature full inverter technology, ensuring optimal energy consumption.

The dehumidifiers are equipped with high-performance fans. Air is drawn in through the front panel, which is fitted with a filter, and discharged vertically through the top of the unit. This configuration is particularly effective in spaces with high ceilings, where natural convection leads to moisture accumulation in the upper zone. The top discharge enhances air circulation, preventing the formation of stagnant areas near the ceiling.

This design also minimizes the risk of reintroducing already dehumidified air into the intake, which is especially critical for high-capacity industrial models to maintain maximum operational efficiency.

The K-series is also designed to integrate with ducts. The top air outlet simplifies connection to ductwork, enabling efficient distribution of dry air across different zones within the facility.

Control and monitoring are handled via an electronic controller with a built-in humidity sensor or through a remote control module — both included as standard with each unit.

2K 3K



5K 10K



DanVex DEH-K Series

Key advantages of the series



Full inverter

Full inverter
Modern models are equipped with inverter compressors that automatically adjust their speed based on indoor humidity. This provides smooth and precise system operation, significantly reduces energy consumption, and enhances overall energy efficiency.



Wi-Fi module

Smart Control
Equipped with a digital controller supporting Wi-Fi and Modbus protocol for convenient remote operation via mobile app or integration into a centralized building management system.


E-coating

E-coated heat exchanger
The coating provides superior resistance to corrosion caused by moisture, seawater, mild acids, alkalis, and chlorine, thereby significantly extending the equipment's service life It is applied using an electrodeposition process without the use of solvents, which is especially important for the food and pharmaceutical industries.


Ion generator

Enhanced Indoor Air Quality
An air ionizer saturates the space with negative ions, contributing to a fresher and more comfortable environment.


Hotgas Defrost

Fast and Efficient Defrost
Hot gas defrost ensures rapid defrosting of the evaporator in just 3 minutes—much faster than the 30-minute natural defrost cycle.


Durable Tubes

Reinforced Durability
Straight copper tubing with 0.5 mm wall thickness and up to 1 mm in bends—twice the industry standard—significantly extends service life.


Antifungus

Hygiene and Freshness
An integrated UV lamp and anti-fungus treatment maintain a sterile internal environment, preventing mold and bacterial growth.


Freon R-32

Eco-Friendly
Uses R-32 refrigerant, known for its high energy efficiency and minimal environmental impact.


Duct-compatible

Duct connection capability
The dehumidifier's structure allows for connection to standard duct systems, ensuring installation flexibility and efficient air distribution.

Digital controller



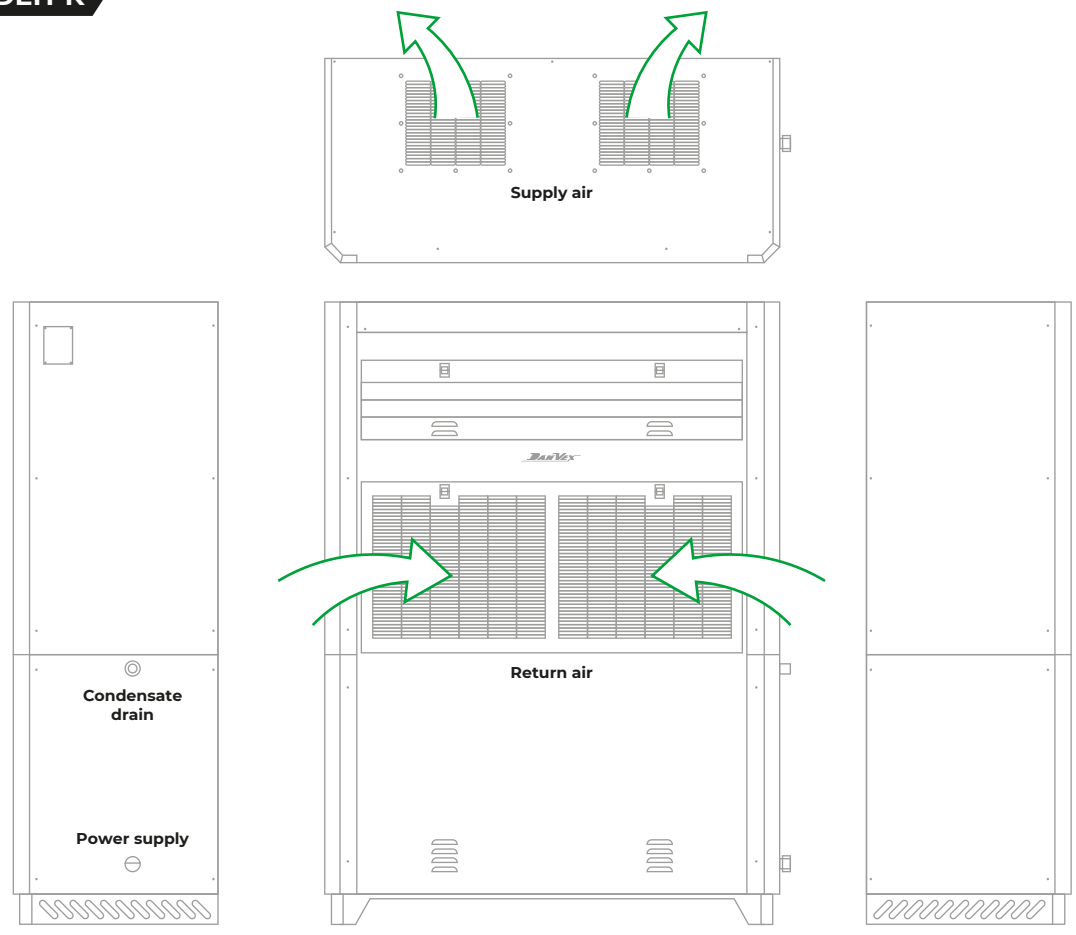
This controller provides comprehensive management of the dehumidifier, including:

- Real-time display of operating states and sensor readings.
- Diagnosis and display of error messages.
- Adjustment of setpoints (humidity, temperature, etc.).
- Wifi connection for convenient remote control and monitoring via a mobile app or web portal.
- An integrated RS485 interface (Modbus RTU) for reliable wired communication, enabling seamless integration into building management systems (BMS), SCADA, or networks of other devices.

DanVex DEH-K Series

MODEL	DEH-2K	DEH-3K	DEH-5K	DEH-10K
Dehumidifier capacity (30°C, 80% RH)	200 L/day	300 L/day	500 L/day	1000 L/day
Supply airflow	2500 m³/h	2800-3500 m³/h	4800-5300 m³/h	9500-12000 m³/h
Operating temperature range	+5 ...+38 °C			
Voltage / Frequency	380-415 V / 50-60 Hz			
Static Pressure	200 Pa		250 Pa	300 Pa
Compressor	R32	Inverter type, R32		
Full inverter	–	Yes		
Sensor	5 in 1 sensor (CO_2, PM2.5, TVOC, RH, Temp)			
Rated power	4000 W	3260-4930 W	6080-9224 W	18500-21130 W
Current	7 A	4.9-7.5 A	5.5-7.6 A	28-32 A
Heat exchanger protection	Blue fin	Electro-coating, corrosion-proof type		
Drain hole size	φ 32 mm			
Filtration	G4			
Purification	UV air sanitizer + Anion generator			
Noise level, dB(A) at 1m	< 55 dB	36-42 dB	38-45 dB	40-47 dB
Refrigerant	R32×1700 g	R32×1800 g	R32×2800 g	R32×5500 g
Water proof protection	IPX3	IPX4		
Dimensions (L×W×H)	800×600×1720 mm	1054×600×1720 mm	1154×600×1850 mm	1522×670×1900 mm
Weight	161 kg	156 kg	207 kg	330 kg

Model: DEH-K



DanVex AD Series

Desiccant technology

DanVex AD Series Desiccant Dehumidifiers are designed to remove moisture from air with relative humidity ranging from 100% down to 1%, operating efficiently in ambient temperatures from -20°C to +40°C with maximum energy efficiency.

These types of dehumidifiers are specifically used in environments where humidity needs to be reduced below 30% and/or where air temperatures fall below +10°C, as condensation-based dehumidifiers become ineffective under such conditions.

The units do not require a drainage system — moisture extracted from the air is expelled via airflow through a duct, outside the dehumidified area.

DanVex AD dehumidifiers can be installed both indoors and outdoors, and are suitable for standalone operation or integration into ventilation and air purification systems.

How the technology works

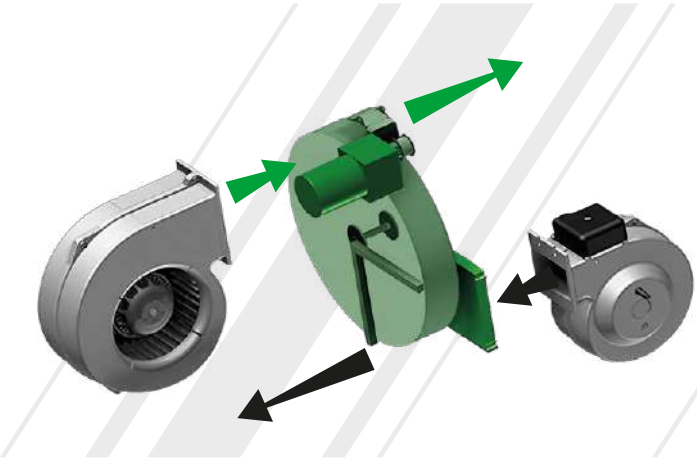
Air is directed into the rotor so that the process (drying) air passes through 75% of the rotor's surface. The remaining 25% is used for regeneration: preheated air flows in the opposite direction, evaporating moisture from the rotor's sorbent material and exhausting it outside the treated space.

A slight vapor pressure differential promotes efficient moisture transfer from the air to the desiccant. The quality of regeneration depends on the temperature of the incoming air. Additionally, the regeneration airflow cleans the rotor's internal surface of dust and other mechanical impurities carried in by the process air.

The continuous rotation of the rotor allows simultaneous sorption and regeneration, enabling uninterrupted operation.

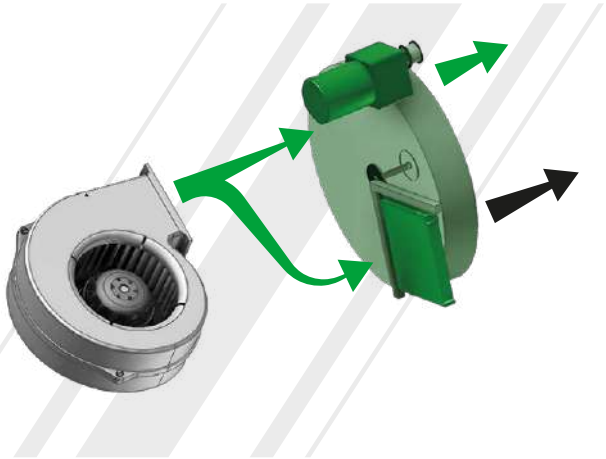
Design variations

DanVex dehumidifiers are equipped with two separate fans — one for process air and one for regeneration — ensuring high overall efficiency with no loss of dried air.



The dew point remains stable, as regeneration is independent of the main airflow. Energy efficiency is particularly high under heavy loads and in low-temperature applications.

Low cost versions of desiccant dehumidifiers includes a single fan for both process and regeneration airflow.



While cost-effective, this setup reduces drying efficiency by around 25%, as a quarter of the airflow is diverted for regeneration. If process air is taken from the treated space and the regeneration air is exhausted outside, the room can become depressurized, drawing in humid outside air and reducing efficiency. This configuration is not suitable for sealed or climate-controlled environments such as cold rooms or freezers.

Desiccant Dehumidifiers

DanVex AD Series



Key features

- Ducted installation.
- Dual-fan design for maximum drying efficiency.
- Quiet operation.
- Electrical power matches performance in real time.
- All-weather continuous operation from -20°C to +40°C.
- Drying down to 2% humidity.
- High efficiency across varying conditions.
- Autonomous operation with auto-restart and settings memory after power failure.
- Compact size for concealed installation.
- Compact stationary dehumidifiers with two separate fans for the drying circuit and the regeneration circuit.
- The housing and internal components are made of AISI304 stainless steel.
- An integrated RS485 interface (Modbus RTU) ensures reliablewired communication and seamless integration with building management systems (BMS), SCADA, or other equipment networks.
- No drainage required.
- Easy service access.
- Built-in air filter.
- Digital controller with temperature and humidity sensor.
- Supports external humidity sensor (included).
- Electrical design compliant with EN60204.
- IP44 protection class.
- Suitable for extremely cold and humid environments.
- Rotor contains high-performance silica gel for efficient vapor absorption.
- For automatic operation, the dehumidifier is equipped with a digital controller and a humidity sensor.
- The dehumidifier can be installed both indoors and outdoors, including in open areas.
- The dehumidifiers design allows it to be used in tandem with a condensation dryer. This combination ensures maximum performance with minimal operating costs.



Desiccant Dehumidifiers

DanVex AD Series

Duct-compatible | Ultra quiet | Easy Care | Ultra slim

MODEL	AD-200	AD-400	AD-550
Nominal capacity (20°C, 60% RH)	0.6 kg/h	2.2 kg/h	3 kg/h
Nominal capacity (20°C, 60% RH)	14.4 kg/day	52.8 kg/day	72 kg/day
Operating temperature range	-20 ...+40 °C		
Working range	2-100 %RH		
Working air / Static pressure	180-200 m³/h / 70 Pa	400 m³/h / 100 Pa	550 m³/h / 100 Pa
Regeneration air / Static pressure	60 m³/h / 50 Pa	130 m³/h / 50 Pa	200 m³/h / 50 Pa
Power consumption / Current	1.2 kW / 6 A	2 kW / 10 A	3.8 kW / 20 A
Voltage / Frequency	220-230 V / 50-60 Hz		
Noise level, dB(A) at 1m	< 45 dB	< 50 dB	< 65 dB
Duct size working / dry air	D 100 mm / D 100 mm	D 125 mm / D 125 mm	
Supply / Exhaust duct size regeneration air	D 80 mm / D 80 mm		
Filters	EU3		
Dimensions (L×W×H)	442×292×678 mm	680×425×400 mm	578×420×867 mm
Package size (L×W×H)	520×370×790 mm	750×510×530 mm	680×500×1045 mm
Net weight	28 kg	35 kg	55 kg
Gross weight	35 kg	45 kg	64 kg

AD-200 / AD-550



Desiccant Dehumidifiers

DanVex AD Series



Key features

- Dual-fan system for superior drying performance.
- Ducted installation.
- No drainage required.
- Power consumption precisely aligned with performance demands.
- Reliable performance from -20°C to +40°C ambient temperature.
- Drying down to 2% humidity.
- Stable operation under varying conditions.
- Fully autonomous function with automatic restart and saved settings after power loss.
- Easy maintenance access.
- Integrated air filter.
- Housing and all internal components made of powder-coated steel or stainless steel.
- Supports external humidity sensor (included).
- Wi-Fi, Modbus.
- Electrical design meets EN60204 standard.
- IP44 enclosure as standard.
- Designed for cold and high-humidity environments.
- High-efficiency silica gel rotor for effective moisture absorption.
- Optimized airflow and belt-driven rotor rotation.
- Advanced sealing solution to minimize air leakage.
- Built-in remote control panel with external monitoring and integrated temperature and humidity sensors.

AD-800 / AD-1000 / AD-1500



Desiccant Dehumidifiers

DanVex AD Series

Duct-compatible | Easy Care | Ultra slim

MODEL	AD-800	AD-1000	AD-1500	AD-3000	AD-5000
Capacity (20°C, 60% RH)	5 kg/h	7 kg/h	11 kg/h	21.6 kg/h	36 kg/h
Capacity (20°C, 60% RH)	120 kg/day	168 kg/day	264 kg/day	518 kg/day	864 kg/day
Operating temperature range	-20 ...+40 °C			-20 ...+60 °C	
Working range	2-100 %RH				
Process airflow	820 m³/h	1100 m³/h	1550 m³/h	3000 m³/h	5000 m³/h
Static pressure, process air	200 Pa			600 Pa	
Regeneration airflow	250 m³/h	400 m³/h	580 m³/h	990 m³/h	1650 m³/h
Static pressure, regen air	150 Pa			400 Pa	
Current	13.6 A	18 A	20 A	52 A	89 A
Power consumption	9 kW	12 kW	13 kW	34 kW	67 kW
Voltage / Frequency	380-415 V / 50-60 HZ				
Noise level, dB(A) at 1m	< 70 dB		< 80 dB		
Proces air IN	D 200 mm		D 250 mm	500×300 mm	630×450 mm
Dry air OUT	D 200 mm		D 250 mm	500×300 mm	630×400 mm
Regenertion air IN	D 150 mm		D 160 mm	300×300 mm	
Regeneration air OUT	D 150 mm		D 160 mm	200×200 mm	
Process air filter	G4			G3	
Regeneration air filter	G4				
Controller	Touch screen + RS-485			Programmable PLC + RS-485	
IP class	IPX3				
Dimensions (L×W×H)	640×877×1232 mm		660×888×1238 mm	2480×1300×1460 mm	
Package size (L×W×H)	750×1010×1310 mm		850×1040×1430 mm	2520×1350×1600 mm	
Weight	165 kg	175 kg	190 kg	350 kg	450 kg

AD-3000 / AD-5000



Industrial Mobile Dehumidifiers

DanVex DEH-i Series



DanVex i-Series Industrial Dehumidifiers:

- Mobility.
- Compactness.
- Efficiency.
- Reliable solutions for effective humidity control in any environment.

High-performance solutions for removal of excess moisture in production facilities, warehouses, and on construction sites, as well as for eliminating the consequences of water leaks or flooding. These units are equipped with fans delivering 500 to 2000 m³/h designed to accelerate drying and stabilize humidity, helping restore working conditions quickly. The i-Series models are include wheels for mobility, so the equipment can be moved between zones and positioned where it is needed.

A key advantage is the hot-gas defrost function, which prevents evaporator icing and maintains airflow, ensuring efficient, continuous operation even at low temperatures.

The e-coating anti-corrosion finish protects the housing from moderately aggressive environments. This protective layer improves durability and extends the service life of the dehumidifiers under operating conditions.

500i



900i 1200i



1900i



DanVex DEH-i Series

MODEL	DEH-500i	DEH-900i	DEH-1200i	DEH-1900i
Dehumid. capacity (30°C, 80% RH)	59 L/day	90 L/day	120 L/day	180 L/day
Operating temperature range	+10 ...+35 °C			
Working range	30-100 %RH			
Supply airflow	500 m³/h	840 m³/h	1400 m³/h	2000 m³/h
Heat exchanger protection	E-coating			
Condensate tank capacity	10 L			–
Direct drainage	Yes			
Power consumption / Current	880 W / 3.8 A	1150 W / 5.3 A	1380 W / 6.8 A	1700 W / 7.2 A
Voltage / Frequency	220-230 V / 50-60 Hz			
Refrigerant	R290×180 g	R290×250 g	R290×300 g	R290×465 g
Noise level, dB(A) at 1m	< 64 dB			< 60 dB
IP protection	IP22			
Air filter class	G1			
Dimensions (L×W×H)	495×434×660 mm	630×453×798 mm		630×430×1075 mm
Package size (L×W×H)	520×520×860 mm	670×550×960 mm		770×570×1300 mm
Weight / Gross weight	39 kg / 51 kg	52 kg / 71 kg	54 kg / 72 kg	69 kg / 87 kg

Key advantages of the series



Professional control components

All dehumidifiers are equipped with a reliable digital controller and integrated sensors for precise monitoring of temperature and humidity levels.



Automatic humidity control

Maintains the set humidity level automatically, ensuring a stable and comfortable indoor climate without the need for constant user intervention.



Hotgas Defrost

Ensures fast and efficient evaporator defrosting in just **3 minutes,** compared to **30 minutes** with natural defrost.



E-coated heat exchanger

The coating provides superior resistance to corrosion caused by moisture, seawater, mild acids, alkalis, and chlorine, thereby significantly extending the equipment's service life. It is applied using an electrodeposition process without the use of solvents, which is especially important for the food and pharmaceutical industries.



Remote control

The RS-485 interface with the Modbus protocol allows remote control of the dehumidifier and its integration into existing automated climate control systems.



Eco-friendly refrigerant R-290

A highly efficient refrigerant with minimal environmental impact.



Easy mobility

Strong wheels and ergonomic design allow effortless movement across the site or between dehumidification zones.



Built-in condensate tank

Automatically shuts off the unit when full to prevent overflow.

Pro/Commercial Dehumidifiers for Pools & Specialty Spaces

DanVex DEH-P Series



This product line includes mobile, and floor standing models designed for precise humidity control in swimming pools, apartments, museums, basements, laundries, pharmacies, laboratories, warehouses, and other areas where it is essential to eliminate condensation, musty odors, and prevent mold and mildew growth. These units are compact, easy to use, and effective under various conditions.

MODEL	1000p	1200p
Supply airflow	450 m³/h	850 m³/h
Dehumidifier capacity (30°C, 80% RH)	80 L/day	108 L/day
Operating t° range	+10 ...+35 °C	
Working range	30-100 %RH	
Voltage / Frequency	220-230 V / 50-60 Hz	
Control	Digital controller	
Condensate tank	7 L	–
Heat exchanger protection	Blue fin	
Noise level, dB(A) at 1m	< 42 dB	< 48 dB
Power / Current	1350 W / 5.3 A	1300 W / 5.8 A
Refrigerant	R290A×200 g	R32×700 g
Dimensions (L×W×H)	480×286×630 mm	530×350×1735 mm
Net weight	21 kg	49 kg

1200p



1000p



DanVex DEH-P Series

Key features

- **Compact Footprint.** Occupies just 40×50 cm; saves floor space.
- **Gentle Wind Louvers.** Even airflow, no harsh drafts near swimmers.
- **Ultra-Quiet Operation.** Low noise for homes, offices, and poolsides.
- **Corrosion Protection.** Blue Fin coating extends service life.
- **Smart Controls.** Electronic panel with automatic, set-and-forget operation.
- **Eco-Friendly Refrigerant.** High efficiency with reduced environmental impact.

Key advantages of the series


Digital controller

Professional Controls

Equipped with a digital controller and precise temperature and humidity sensors, the system ensures accurate monitoring and regulation of operating parameters. This allows users to maintain stable conditions at all times with minimal effort.



Humidity maintenance

Automatic Humidity Maintenance

The unit continuously monitors the surrounding air and automatically keeps humidity at the pre-set level. This function eliminates the need for manual adjustments, providing consistent comfort and reliable protection of the environment.


Built-in condensate tank

Autonomous Operation

Thanks to the integrated condensate tank, the device can be placed flexibly in different locations without the need for immediate drainage. Automatic shut-off is triggered once the tank is full, ensuring safe and uninterrupted operation.


Drainage Port

Drainage Port

The built-in port makes it possible to connect the device directly to a drain system. This enables continuous, long-term operation without the need to empty the tank manually, which is especially useful for demanding conditions.


On/Off timer

On/Off Timer

The programmable timer allows the user to set exact times for switching the device on or off. This makes it easy to tailor operation to specific site requirements, optimizing efficiency and reducing unnecessary energy consumption.


Freon R-290

Eco-Friendly Refrigerant

The unit uses R-290 refrigerant, which combines high cooling and dehumidifying efficiency with safety for the environment. It delivers reliable performance while meeting modern eco-standards and sustainability goals.


Corrosion Protection

Corrosion Protection

The heat exchangers are coated with Blue Fin technology, which significantly increases their resistance to corrosion. This protective layer extends service life and ensures stable operation even in demanding environments.


Inlet air filter

Inlet air filter

The integrated air filter captures dust and airborne particles, improving air quality during operation. It can be quickly removed, cleaned, and reused, ensuring simple maintenance and long-lasting performance.

Pro/Commercial Dehumidifiers for Pools & Specialty Spaces

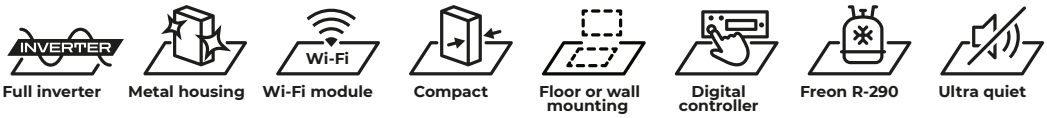
DanVex DEH-WP Series



The WP series dehumidifiers are equipped with an inverter compressor and fans with adjustable airflow control. These features are especially valuable in environments where energy efficiency, precise humidity control, and low noise levels are important.

Key features

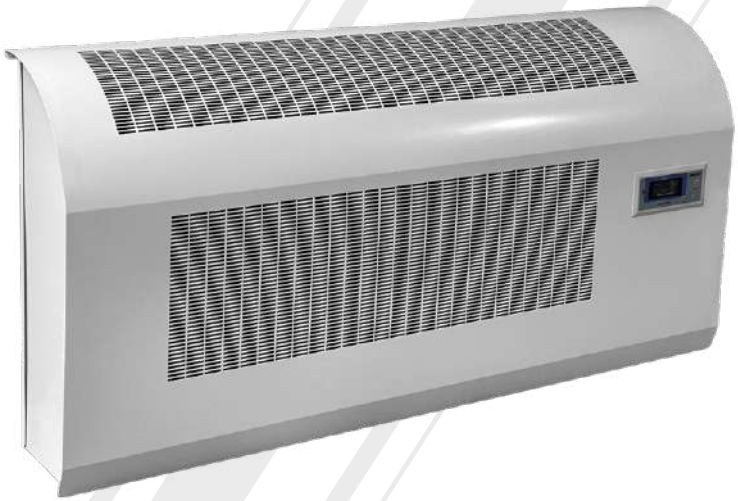
- **Ultra Quiet.** DC variable frequency fan with noise as low as 32–36 dB(A).
- **Compact Design.** Slim body, touch interface, modern look.
- **Delicate Air Streams.** Soft airflow ideal for museums, archives, server rooms, and pools.
- **Corrosion-Proof Coating.** Electroplated heat exchanger with 300% higher corrosion resistance.
- **Energy Saving.** Variable frequency compressor cuts energy use by 50%. Wi-Fi control with real-time monitoring.
- **Wide Application.** Operates at 10–45°C, 40–90% RH. Auto-defrost and professional air filtration ensure stability.



800wp 1200wp



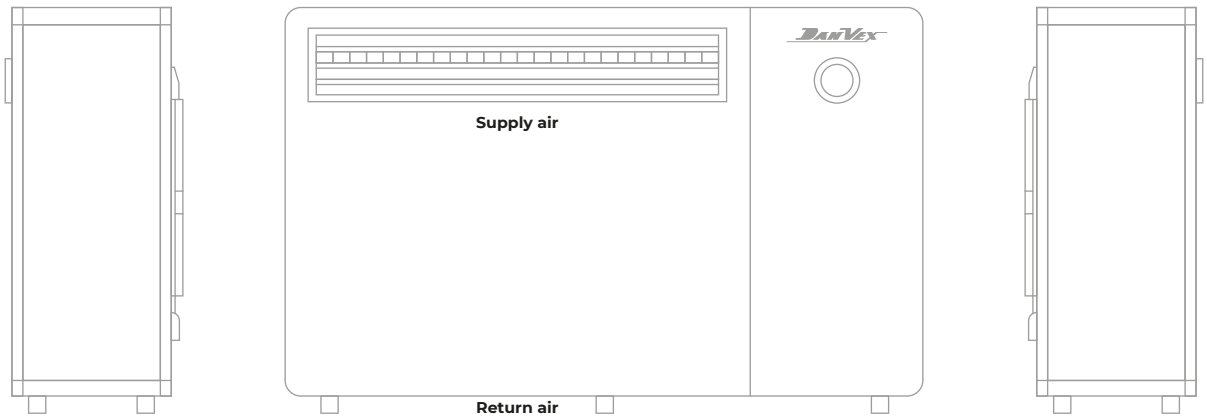
1700wp 2000wp



DanVex DEH-WP Series

MODEL	DEH-800wp	DEH-1200wp	DEH-600wp	DEH-1000wp	DEH-1700wp	DEH-2000wp
Supply airflow	500-800 m³/h	850-1150 m³/h	300 m³/h	500 m³/h	850 m³/h	1100 m³/h
Dehumid. capacity (30°C, 80% RH)	80 L/day	120 L/day	60 L/day	100 L/day	170 L/day	200 L/day
Advised pool surface	≤ 35 m²	≤ 60 m²	≤ 25 m²	≤ 45 m²	≤ 80 m²	≤ 100 m²
Advised room size	80~130 m²	110~240 m²	60~80 m²	80~120 m²	120~160 m²	160~200 m²
Operating temperature range	+5 ...+42 °C		+10 ...+38 °C			
Voltage / Frequency	220-230 V / 50-60 Hz		220-230 V / 50-60 Hz			
Return airflow	820 m³/h	1150 m³/h	300 m³/h	500 m³/h	850 m³/h	1100 m³/h
Fan type	EC Motor, Variable Speed		Low-noise radial fan			
Pressure drop	70 Pa	75 Pa	60 Pa	70 Pa	80 Pa	85 Pa
Rated power	820 - 1260 W	900 - 1720 W	750 W	1250 W	1610 W	2100 W
Current	3.7 - 5.7 A	4.0 - 7.8 A	3.4 A	5.5 A	6.8 A	9.3 A
Drain hole size	φ 15 mm		φ 16 mm			
Filtration	G4		–			
Purification	UV Sterilizer + Anion Gen.		–			
Noise level, dB(A) at 1m	< 36 dB		< 46 dB	< 48 dB		< 50 dB
Sensor	5-in-1:CO2, PM2.5, TVOC, RH, t°		Temperature and humidity sensor			
Refrigerant charge	R32×460 g	R32×650 g	R32×280 g	R32×500 g	R32×780 g	R32×900 g
Water proof protection	IPX4		IPX4			
Electricity proof protection	Class I		Class I			
Dimensions (L×W×H) mm	1170×741×304		270×760×695	270×900×695	270×1410×695	
Net weight	75 kg	80 kg	45 kg	50 kg	75 kg	80 kg
Gross weight	85 kg	95 kg	57 kg	70 kg	100 kg	105 kg

Model: 800wp / 1200wp



Industrial Ultrasonic Humidifiers

DanVex HUM Series



DanVex industrial ultrasonic humidifiers provide precise, stable humidity control in printing houses, workshops, storage rooms, museums, laboratories, greenhouses, and other specialized spaces. They can also be used for vegetable misting in store displays, fog effects in landscape design, or climate control on open-air café terraces and similar venues. Ultrasonic technology ensures quiet operation with low energy use. The units need no extra fog distribution equipment and connect directly to standard water supply systems.

Key features

- **Instant start-up** — no preheating required.
- **Stainless steel housing** — corrosion-resistant, easy to clean, and built for long-term operation.
- **Pre-filtration water filter** — protects the system from contaminants and extends service life.
- **Digital control panel** — user-friendly interface for full operational control.
- **External humidity sensor (hygrostat)** — provides precise humidity control regardless of installation location.
- **Two operating modes:** Auto / Manual.
- **Water supply connection** — ensures continuous operation without the need for manual refilling.
- **Emergency overflow valve** — added protection against overfilling.
- **Flexible installation options** — wall-mounted, floor-standing, or remote-mounted.
- **Safe fog temperature** — controlled by water inlet temperature, preventing burns and protecting nearby equipment.

3S 6S



9S 12S



DanVex HUM Series

Stainless steel body

Safe vapour temperature

Digital controller

MODEL	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 capacity	72 L/day	144 L/day	216 L/day	288 L/day	360 L/day	432 L/day
Supply airflow	180 m³/h		280 m³/h		300 m³/h	400 m³/h
Working range	0-100 %RH					
Static Pressure	20 Pa		40 Pa		50 Pa	
Operating t° range	+5 ...+45 °C					
Mist vent	1×110 mm		2×110 mm		3×110 mm	
Power	300 w	600 w	900 w	1200 w	1500 w	1800 w
Control	Digital control, Remote hygrostat					
Voltage / Frequency	230 v / 50-60 Hz					
Dimensions (L×W×H)	600×300×495 mm		640×420×500 mm		640×640×500 mm	
Package size (L×W×H)	680×440×630 mm		730×520×630 mm		740×750×630 mm	
Net weight	26 kg	27 kg	36 kg	39 kg	50.5 kg	54 kg
Gross weight	27 kg	28 kg	38 kg	40 kg	52 kg	57 kg

15S 18S



DanVex Heat Pumps



The DanVex heat pump is designed for absolute comfort — it is a unique 3-in-1 system that heats, cools and produces domestic hot water, it provides maximum comfort all year round. The inverter compressor adapts to changes in temperature outside the house and continuously adjusts the heating power.

Monoblock concept. All components are combined in one outdoor unit, thus the pump has a simple plumbing connection to the heating and water supply systems of the house.

The installation is accessible to a specialist plumber and does not require the qualification of a refrigeration engineer, as there is no need to install refrigerant piping.

The built-in redundant electric boiler, allows the DanVex heat pump to be efficient even at low ambient temperatures down to -25°C, withstanding the harshest winter climates.

A smart controller with touch screen, built-in Wi-Fi and Modbus functionality is included.

You can easily control your home climate or hot water systems with a smartphone app. It allows you to easily read the status of your heating system and, if necessary, optimize your energy consumption remotely, without costly trips.

AW-9M1



AW-15M **AW-20M3** **AW-25M3**



Heat Pumps

DanVex Heat Pumps



Wi-Fi module | Ultra quiet | Digital controller | Gold fin coating | Full inverter | Freon R-290 | Heating -25 °C

Key features

- Hot water up to +60°C
- Heating + hot water
- Cooling + hot water
- Heating at outside temperature down to - 25°C
- Air cooling at outside temperatures up to + 43°C

MODEL		AW-9M1	AW-15M	AW-20M3	AW-25M3
Heating capacity		4.1~10.8 kW	6.5~19.8 kW	9.0~26 kW	11.3~31 kW
Heating (A7 / W35)	Capacity	9.06 kW	15.06 kW	20.05 kW	25.03 kW
	Power input	2.11 kW	3.57 kW	4.58 kW	5.8 kW
	COP	4.29	4.22	4.36	4.32
Heating (A7 / W55)	Capacity	8.17 kW	13.98 kW	19.66 kW	23.67 kW
	Power input	2.99 kW	5 kW	7.1 kW	8.47 kW
	COP	2.73	2.8	2.77	2.79
Heating (A2 / W35)	Capacity	8.1 kW	13.6 kW	17.6 kW	22 kW
	Power input	2.02 kW	3.39 kW	4.49 kW	5.58 kW
	COP	4.01	4.01	3.92	3.94
Heating (A2 / W55)	Capacity	6.9 kW	11.6 kW	15.4 kW	19.5 kW
	Power input	2.76 kW	4.62 kW	6.12 kW	7.76 kW
	COP	2.5	2.51	2.52	2.51
Heating (A-7 / W35)	Capacity	5.71 kW	11.7 kW	14.5 kW	17.4 kW
	Power input	1.82 kW	3.61 kW	4.51 kW	5.35 kW
	COP	3.14	3.24	3.22	3.25
Heating (A-7 / W55)	Capacity	6.7 kW	10.2 kW	13.5 kW	14.2 kW
	Power input	3.5 kW	5.91 kW	7.42 kW	7.82 kW
	COP	1.91	1.73	1.82	1.82
Cooling (A35 / W7)	Capacity	6.95 kW	12.1 kW	16.8 kW	20.4 kW
	Power input	2.32 kW	4.01 kW	5.56 kW	6.71 kW
	EER	3	3.02	3.02	3.04
Power supply		220-240 V / 1 Ph / 50 Hz	220-240 V / 1 Ph / 50 Hz 380-415 V / 3 Ph / 50 Hz	380-415 V / 3 Ph / 50 Hz	
Water t° max / rated		60 / 55			
Compressor		Mitsubishi, R32			
Components		4-way valve / Flow switch / Built-in energy class A circulation water pump / Electronic expansion valve			
Working mode		Heating / Cooling / Hot water / Heating + Hot water / Cooling + Hot water			
Electrical heater		3000 W		6000 W	
Water flow		1.5 m³/h	2.6 m³/h	3.4 m³/h	4.3 m³/h
Pressure drop		22 kPa	28 kPa	31 kPa	34 kPa
Noise		52 dB(A)	56 dB(A)	58 dB(A)	
Dimensions (L×W×H)		1120×480×712 mm	1120×480×1220 mm	1365×565×1415 mm	
Package size (L×W×H)		1180×540×850 mm	1180×540×1370 mm	1405×575×1555 mm	
Weight / Gross weight		86 kg / 105 kg	122 kg / 152 kg	170 kg / 210 kg	185 kg / 230 kg

Duct Climate Control System

DanVex DD-FX Series



The DanVex professional ducted climate system is designed to provide a comfortable climate in both residential and commercial spaces.

It is a versatile unit that combines the functions of an air dehumidifier, an air conditioner–heat pump with adjustable temperatures from +5 °C to +35 °C, and a ventilation system with humidification, air purification and filtration. It removes dust and odors, prevents mold growth, and ensures a healthy indoor environment without the need for separate systems.

The units are equipped with temperature, humidity, and CO_2 sensors.

The system automatically adjusts its operating mode, maintaining optimal indoor conditions without the need for user intervention.

Key features

- **Full inverter**
- **Split System**
- **Ultra-slim indoor case**
- **Digital controller**
- **Wi-Fi, Modbus**
- **3-stage filtration**
- **Ion generator**
- **UV lamp Antifungus**
- **Blue Fin coating**
- **R-32 refrigerant**



Duct Climate Control System

DanVex DD-FX Series

Key advantages of the series



Automatic Microclimate Regulation

Integrated 5 in 1 sensor (CO2, PM2.5, TVOC, RH, temperature) enables the system to autonomously maintain a stable and comfortable indoor environment, eliminating the need for manual adjustments.



Smart Control

A digital controller with Wi-Fi and Modbus support offers convenient remote control via a mobile app or integration into a centralized building management system. The system features an auto-restart function that restores all previous settings after a power outage.



Advanced Air Purification

A three-stage filtration system, including a HEPA filter, efficiently traps dust, allergens, bacteria, and other pollutants, ensuring clean and safe indoor air. An integrated ionizer saturates the air with negative ions, promoting freshness and overall well-being.



Humidification module

The optional adiabatic humidification module allows you to maintain a stable humidity level all year round. Balanced humidity positively affects people's well-being, prevents furniture, parquet flooring, and artworks from drying out and cracking, and reduces static electricity and dust particles.



Low-Temperature Cooling

The function of reducing the temperature down to +5 °C allows maintaining the proper climate in champagne and wine storage rooms and cellars, flowerstorage facilities, server rooms, laboratories, and other specialized spaces,ensuring stable low air temperature control.



Ultra-Quiet Operation

Thanks to advanced noise reduction technology, DanVex heat pumps operate with minimal sound, making them ideal for residential, office, or public buildings where acoustic comfort is essential.



Compact Design

An ultra-slim housing allows installation in tight ceiling spaces without compromising interior aesthetics. The durable powder-coated steel casing also permits outdoor installation if required.



Hygiene and Freshness with Self-Cleaning

A built-in UV lamp and antifungal treatment (Antifungus) create a sterile environment inside the unit, preventing the development of mold and bacteria.



Full Inverter Technology

Modern models are equipped with inverter compressors that automatically adjust their speed based on indoor temperature. This provides smooth and precise system operation, significantly reduces energy consumption, and enhances overall energy efficiency.



Easy Maintenance

An automatic timer reminds the user when filter replacement is due. Maintenance is carried out through a removable side access panel.



Protection and Durability

The Blue Fin coating on the heat exchanger protects against corrosion and harsh environmental conditions, significantly extending the equipment's lifespan.



Eco-Friendly Operation

The system uses R-32 refrigerant, which offers high energy efficiency and reduced environmental impact.

DanVex DD-FX Series

MODEL	DD-136FX	DD-168FX	DD-240FX
Supply airflow	350 m³/h	550 m³/h	750 m³/h
Fresh air flow	0-175 m³/h	0-225 m³/h	0-250 m³/h
Return air flow	175-350 m³/h	275-500 m³/h	500 / 750 m³/h
Dehumidifier capacity (30°C, 80% RH)	92 L/day	140 L/day	192 L/day
Operating temperature range	+6 ...+48 °C		
Humidification capacity	2 kg/h	3 kg/h	4 kg/h
Rated cooling capacity	5400 W	8200 W	10000 W
Rated heating capacity	5900 W	9800 W	12300 W
Static Pressure	180 Pa	200 Pa	
Return air sensor	CO2, PM2.5, TVOC, Temp. & RH		
Supply air sensor	Temp. & RH		
Indoor unit power / Current	170 W / 0.8 A	260 W / 1.2 A	350 W / 0.5 A
Outdoor unit power / Current	1900 W / 8.6 A	2870 W / 12.9 A	3900 W / 5.9 A
Air cleaning, filter type	G4 / F7 / H13		
Indoor voltage / Frequency	220-230 V / 50-60 Hz		
Compressor / Fans	Inverter type		
Outdoor voltage / Frequency	220-230 V / 50-60 Hz		380-415 V / 50-60 Hz
Waterproof class	IPX4		
Electricity proof protection	Class I		
Heat exchanger protection	Blue Fin		
Refrigerant	R32×2.5 kg	R32×3 kg	R32×3.5 kg
Noise level, dB(A) at 1m	< 35 dB	< 38 dB	< 40 dB
Indoor body size (L×W×H)	1260×799×320 mm		1260×819×440 mm
Outdoor body size (L×W×H)	880×370×655 mm		1014×377×1265 mm
Indoor net weight	60 kg		90 kg
Outdoor net weight	36 kg		95 kg

Digital controller



This controller provides comprehensive management of the dehumidifier, including:

- Real-time display of operating states and sensor readings.
- Diagnosis and display of error messages.
- Adjustment of setpoints (humidity, temperature, etc.).
- Wifi connection for convenient remote control and monitoring via a mobile app or web portal.
- An integrated RS485 interface (Modbus RTU) for reliable wired communication, enabling seamless integration into building management systems (BMS), SCADA, or networks of other devices.

Duct Climate Control System

DanVex DD-FX Series

MODEL	DD-380FX	DD-480FX	DD-720FX	DD-960FX
Supply airflow	950 m³/h	1150 m³/h	1500 m³/h	1800 m³/h
Fresh air flow	0-300 m³/h	0-350 m³/h	0-400 m³/h	0-500 m³/h
Return air flow	650 / 950 m³/h	800 / 1150 m³/h	1100 / 1500 m³/h	1300 / 1800 m³/h
Dehumid. capacity (30°C, 80% RH)	240 L/day	288 L/day	336 L/day	360 L/day
Operating temperature range	+6 ...+48 °C			
Humidification capacity	5 kg/h	6 kg/h	7 kg/h	8 kg/h
Rated cooling capacity	12000 W	15000 W	18000 W	21000 W
Rated heating capacity	13500 W	17500 W	20000 W	24000 W
Static Pressure	200 Pa	250 Pa		300 Pa
Return air sensor	CO2, PM2.5, TVOC, Temp. & RH			
Supply air sensor	Temp. & RH			
Indoor unit power / Current	380 W / 0.5 A	400 W / 0.6 A	420 W / 0.7 A	550 W / 0.9 A
Outdoor unit power / Current	4200 W / 6.3 A	4400 W / 6.6 A	5200 W / 7.9 A	6500 W / 9.8 A
Air cleaning, filter type	G4 / F7 / H13		G4 / F7	
Indoor voltage / Frequency	220-230 V / 50-60 Hz			
Compressor / Fans	Inverter type			
Outdoor voltage / Frequency	380-415 V / 50-60 Hz			
Waterproof class	IPX4			
Electricity proof protection	Class I			
Heat exchanger protection	Blue Fin			
Refrigerant	R32×4.2 kg	R32×5 kg	R32×5.5 kg	R32×6.5 kg
Noise level, dB(A) at 1m	< 40 dB	< 42 dB	< 45 dB	
Indoor body size (L×W×H)	1260×819×440 mm		1247×820×600 mm	
Outdoor body size (L×W×H)	1014×377×1265 mm			
Indoor net weight		60 kg		90 kg
Outdoor net weight		36 kg		95 kg

Humidification module



Experience the power of an intelligent climate.

The DD-FX automatically activates humidification when the air becomes excessively dry in heating mode. It doesn't just add moisture; it precisely maintains your preset healthy humidity level. This is your reliable guarantor of an ideal microclimate, which takes care of your comfort and well-being by operating quietly and efficiently.

danvex.com / cd@danvex.com