Air handling unit

11023475
InspirAIR® Top 450 Classic

The heat recovery ventilation solution that efficiently filters out the smallest pollutants and adapts to your needs.



PRODUCT BENEFITS

• for air quality: high performance filtration and customised filter recommendations,
• for performance: a complete system offering with thermal and electrical performance benchmarks in the market,

Principles of operation

General and permanent ventilation of dwelling with heat recovery on exhaust air to pre-heat incoming air.
This air is purified by custom filters that ensure healthy air in the dwelling.

Product description

Heat recovery ventilation solution for efficient elimination of the smallest pollutants, adapts to user requirements. Connectivity available using AldesConnect® Box modem sold as an accessory.

Fields of application

Multi-occupancy residential housing, Individual residential housing, New, Refurbishment

Installation

- Attached using 2 wall bars provided or using feet sold as accessories,
- easy to invert airflows when installing the unit,
- mandatory condensate connections using the drain kit sold as an accessory (except for kit references)
- start-up and adjustment using the InspirAIR wired remote control supplied (except for kit references)
- compact dimensions for easy integration in a standard cupboard.

Reference arguments

Connected heat recovery ventilation and air purification solution for efficient elimination of the smallest pollutants, adapts to user requirements.

Main characteristics:
- material:
- PPE body, metal plates.
- configuration:
- 4 x Ø 160 mm connections on top of machine.
- airflow:
- 450 m³/h.
- compact dimensions:
- 560 x 560 x 1088 mm.
- custom filter recommendations (modem accessory extra),
- exclusive radon mode.

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Main characteristics

• Materials:
- PPE body and metal panels,
• Connection:
- 4 x Ø 160 mm connections on top of machine.
• Airflow range:
- 60 to 300 m³/h,
- 90 to 450 m³/h.
• Compact dimensions:
- 560 x 560 x 1088 mm
• Recommendations for custom filters (with modem as accessory)
• Exclusive radon mode
• Connectivity:
- AldesConnect® Box modem available as an accessory to control the unit from the AldesConnect® smartphone app
- Commissioning and maintenance with Aldes Configurator
• Control:
- 4 speeds available (Holidays, Auto, Push-button, Boost)
- Automatic 100% bypass

Accessories

Description	Variants
InspirAIR® Top remote control	11023479
Remote control for VEX40T CO2	11023480
VEX40T internal preheating coil*	11023225
Duct-mounted heating coil– 0.3 kW	11023487
WAP communication module	11023486
Syphon/water trap for VEX40T/Kit	11023483
Mounting base for VEX40T/Kit	11023484
Pressure board kit InspirAIR® Top	11023498
Ceiling penet InspirAIR® Top	11023485
USB-RS-485 cable	11023320
	11091560

Filters

Description	Variants
Dust filter InspirAIR® Top	11023490
Pollen filter InspirAIR® Top	11023491
Particle filter InspirAIR® Top	11023492
Fine particle filter InspirAIR® Top	11023493
Bacteria filter InspirAIR® Top	11023494
Particle + VOC filter InspirAIR® Top	11023495
Filter kit InspirAIR® Top 300 Classic	11027100
Filter kit InspirAIR® Top 300 premium	11027101
Filter kit InspirAIR® Top 450 Classic	11027102
Filter kit InspirAIR® Top 450 premium	11027103

General data

Variants	Available filters	Type of exchanger
11023475	> pollen: - Coarse 65%, > particles: - ePM10 50%, > fine particles: - ePM1 0 85%, - ePM2.5 65%. > bacteria: - ePM2.5 95%, - ePM1 80%. > VOC: - ePM10 85%, - ePM2.5 65%.	Counterflow

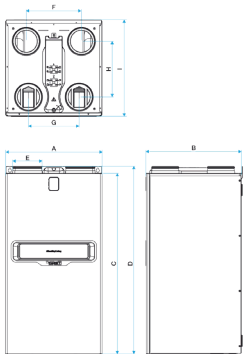
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Dimensional data

Variants	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Weight (kg)
11023475	560	560	1045	1088	160	320	294	323	560	28



Airflow data

Variants	Airflow at max. speed (m³/h)
11023475	450

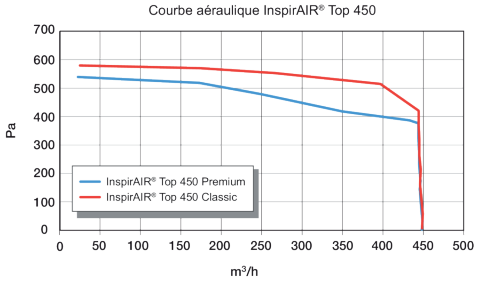
Electrical datas

Variants	Voltage (V)	Frequency (Hz)	Max. power	Protection rating	Max. current (A)
11023475	230	50/60	350	IP22	2,5

Regulatory data

Variants	Ventilation energy class – Average climate
11023475	A

Curve



> Test conditions:
- Indoor air = dry air at 5 °C, HR < 20 %.
- Indoor air = dry air at 25°C, HR <20%. (EN13141-7 and EN308)