

V250 MVHR

Bringing
Comfort
to life



COMPACT UNIT **V250**

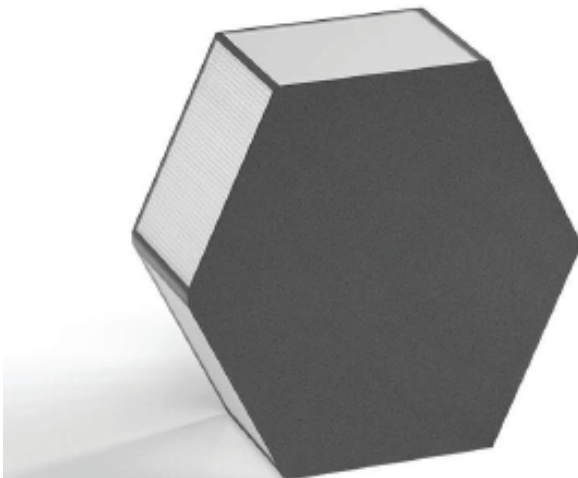


FEATURES

With a width of 582mm and a depth of 375mm the V250 can fit in a standard kitchen or utility cupboard. Some of the features include modbus RS485 connectivity, remote speed adjustment controls.



HIGH EFFICNECY HEAT RECOVERY CORE



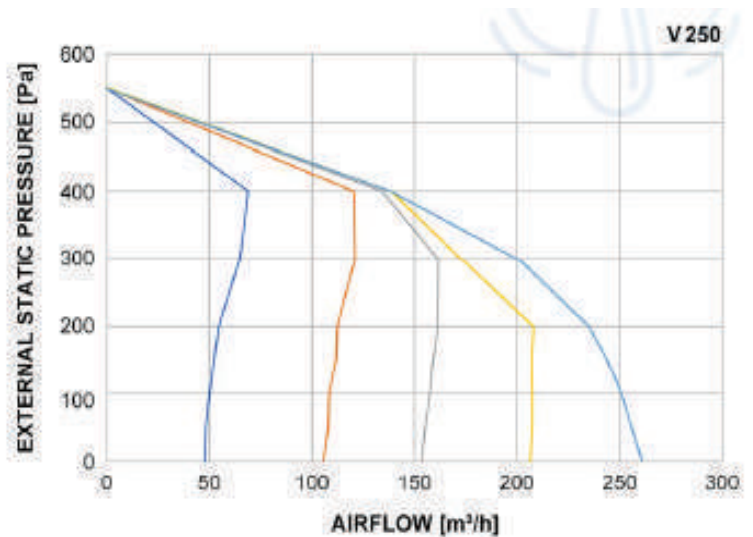
FEATURES AND PERFORMANCE

SPIGOT OPTIONS



PERFORMANCE

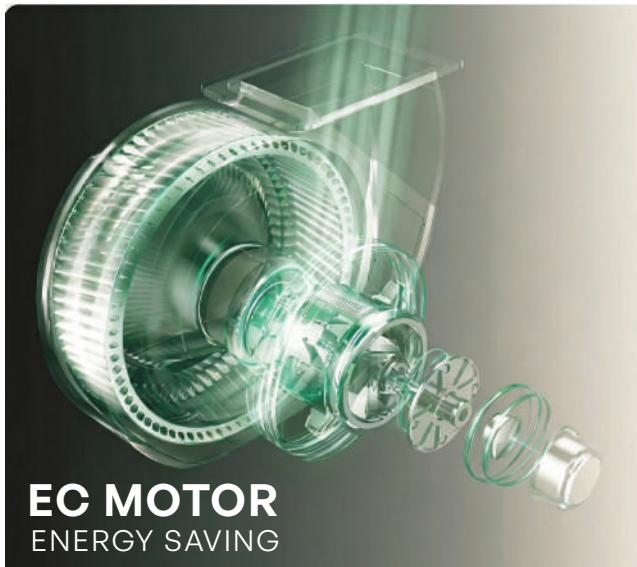
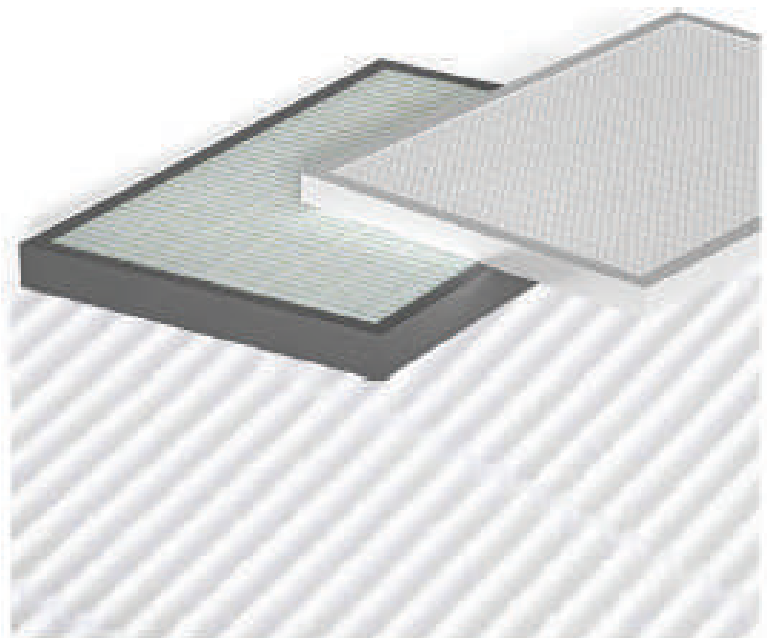
Constant Flow



FILTER

Multiple Options

G4 extract filter and G4 supply filter are fitted as standard. F8 supply filter is optional. H11 supply filter is available upon request (H11 filtering efficiency of PM2.5 is >99.9%).

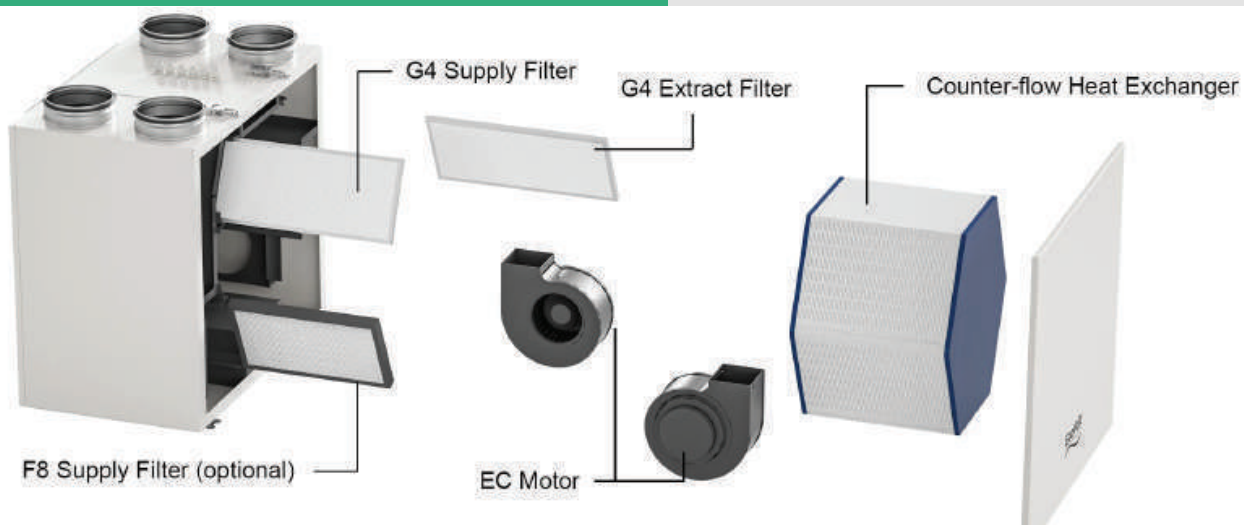


EC MOTOR
ENERGY SAVING

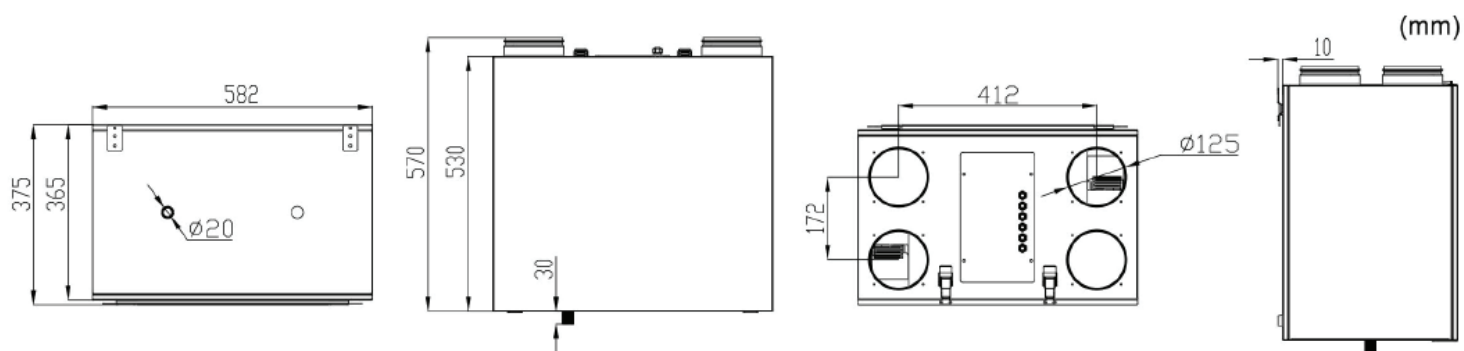
High performance Variable Speed Drive (VSD) EC motor has the features of low power consumption, quiet and high static pressure.

TECHNICAL SPECIFICATION

Name	EcoVolt
Model	V250
Fan Motor Type	EC
Max Airflow [m3/h]	250@ 100Pa
Rated Max Power [230V~50Hz]	189W, 1.2A
Weight [kg]	34
Dimensions	w582 x h570 d375
Extract Filters	G4
Supply Filters	F8 (Optional)
Max. Static Pressure [Pa]	550
Heat I Energy Recovery Core Type	Counter-flow Core
Connected Air Duct Diameter [mm]	125
Power Input Range	200-240V~, 50/60Hz
Internal Insulation Material	Polyethylene Foam
Case Material	Coated Sheet Steel
Transferred Air Temperature [0C]	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80



DIMENSIONS



SMART CONTROL FEATURES



COLOR 7" CONTROL PANEL

Comprehensive Settings

  DESIGN FOR COMFORT
HD TOUCHSCREEN CONTROL

BLACK & WHITE 3.5" CONTROL PANEL

Variable Speed Local
Demand Control



External Sensor
Option Available



Real Time Monitoring
of Air Quality

AUTOMATION OPTION AVAILABLE



EXTERNAL WIFI BOX

WIRELESS CONNECTION

Connect the Smart Phone App &
Wireless External Sensors



SMART PHONE
APP



EXTERNAL
SENSORS



WIFI
CONNECTION



SYSTEM ACCESSORIES



EXTERNAL BOOST SWITCH

When the boost switch is installed, user can press on the boost switch for maximum speed operation for a set period of time



EXTERNAL BOOST SWITCH

The purpose of the External WiFi Box is to connect the smart phone APP and wireless External Sensors. User can choose to install the External WiFi Box only without the control panel and control the ventilation system via the smart phone APP



EXTERNAL RH & TEMP SENSOR

Wireless External Relative Humidity/ Temperature Sensor can be connected with an External WiFi Box. Up to 8 external sensors can be connected to the control system. With a Color 7" Control Panel or smart phone APP, user can see all the sensor data. The external sensors will collect real-time data for automation of the ventilation system



BLACK & WHITE 3.5" CONTROL PANEL

This control panel has the displays of sensor data, the control of 5 level fan speeds, the modes of manual / auto I timer/ away, the automation of bypass / defrost, the boost function/ the control of heaters, and the alerts of filter/ fault. Either Black & White 3.5" Control Panel or Colar 7" Control Panel is allowed to be connected



CO/OR 7" CONTROL PANEL

This control panel has the displays of sensor data, the control of 5 level fan speeds, the modes of manual / auto I timer/ away, the automation of bypass / defrost, the boost function/ the control of heaters, and the alerts of filter/ fault. The Color 7" Control Panel has the settings of sensor parameters/ bypass temperature / defrost temperature / boost duration / timer/ away mode. Either Black & White 3.5" Control Panel or Colar 7" Control Panel is allowed to be connected



EXTERNAL RELAY BOARD

External Electrical Heater/ External Electrical Air Damper can be connected to the control system via the External Relay Board. Up to 2 external heaters and 2 external dampers can be connected. User can control the ON/OFF of the heaters on the Black & White 3.5" Control Panel / Colar 7" Control Panel or the smart phone APP, while the air dampers will be in automation when connected

EXTERNAL RELAY BOARD

Internal CO₂/ PM2.5 / VOCs Sensor can be connected inside the ventilation unit at the extract air side for automation of the ventilation system. User can see the sensor data on the Black & White 3.5" Control Panel/ Colar 7" Control Panel or the smart phone APP



EXTERNAL BOOST CONNECTION BOX

The connection box can connect up to 10 External Boost Switch to the control system, user can install several boost switches for the rooms



EXTERNAL WALL SWITCH

The 3-position wall switch has the basic functions of ventilation system ON/OFF, High/Low fan speed and bypass ON/OFF. When External Wall Switch is connected, other accessories is not allowed to be connected



EXTERNAL PM I RH & TEMP SENSOR

Wireless External PM2.5 / Relative Humidity/ Temperature Sensor can be connected with an External WiFi Box. Up to 8 external sensors can be connected to the control system. With a Color 7" Control Panel or smart phone APP, user can see all the sensor data. The external sensors will collect real-time data for automation of the ventilation system

PRODUCT FICHE

Supplier name or trademark	
Model Identifier	V250
Specific energy consumption (cold zone)	-77.6 kWh (m2 x a)
Specific energy consumption class (average zone) A	A
Specific energy consumption (average zone)	-39.1
Specific energy consumption (warm zone)	-14.4
Typology	Bidirectional Ventilation Unit (BVU)
Type of Drive	Variable Speed
Type of heat recovery system	Recuperative
Thermal efficiency of heat recovery	85.0 %
Maximum flow rate	250 m3/h
Electric power input of the fan drive	194 W
Sound power level	48 dB
Reference flow rate	175.000 m3/s
Reference pressure difference	50 Pa
Specific Power Input	0.48 W/(m3/h)
Control factor	0.65
Control typology	Local Demand
Max. internal leakage rates	5 %
Max. external leakage rates	5 %
Position of visual filter warning	Control Panel
Description of visual filter warning	Filter change information contained in the user manual
Annual Electricity Consumption	3.0 kWh electricity/annum
Annual Heating Saved at cold climate	89.8 kWh primary energy/annum
Annual Heating Saved at average climate	45.9 kWh primary energy/annum
Annual Heating Saved at warm climate	20.8 kWh primary energy/annum

Product Characteristics Database (PCDB)

*Pending *

THE ECOVOLT

ALL ELECTRIC SOLUTION

| Designed for compliance with
modern new-build apartments

EVRAD

Ceramic Electric
Radiators



ECOLINE⁺

Heat Pump
Water Heater



info@ecovolt.ie

☎ 01 524 0387

www.ecovolt.ie