

# DVCompact

Setting a new standard



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DVCompact is a high energy efficient unit equipped with the latest technology resulting in the best performance. 12 models ensure optimal sizing up to 40 000 m<sup>3</sup>/h. All units are supplied in 3-pieces for easy handling and transportation.

### PM motor

PM motors are motors with permanent magnets, based on EC technology. This technology ensures high efficiency over 90%, and remains high even when the speed is reduced. This results in optimizing the unit's motor efficiency at the operating point. This type of motor must always have an EC module to control the speed. The EC module is a frequency converter with special software. If DVCompact unit is ordered without control an EC module will be supplied.



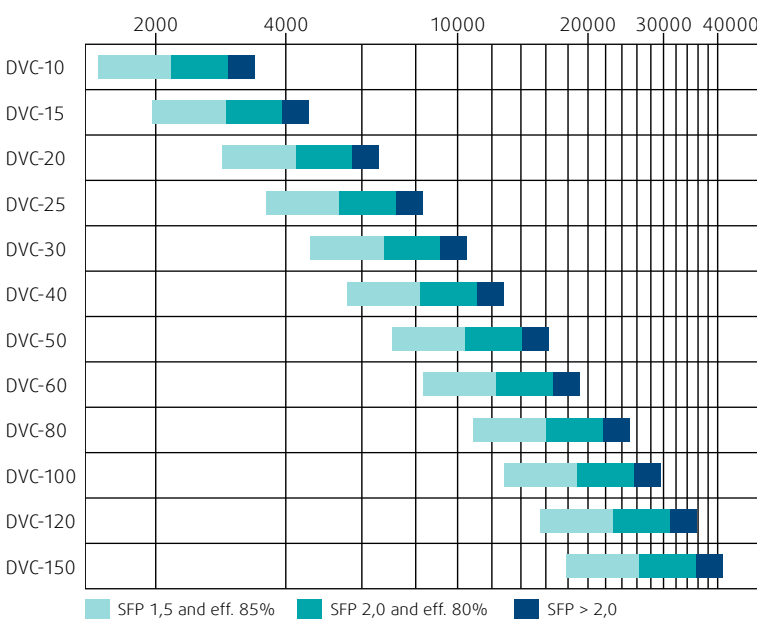
### CPRO impeller

CPRO impeller is manufactured from a moulded composite, which allows it to be formed with optimal aerodynamic design. Impeller blades are partly different in thickness inside the hub and the periphery. This results in higher efficiency and lower noise levels. This also results in improved balancing which reduces vibration.



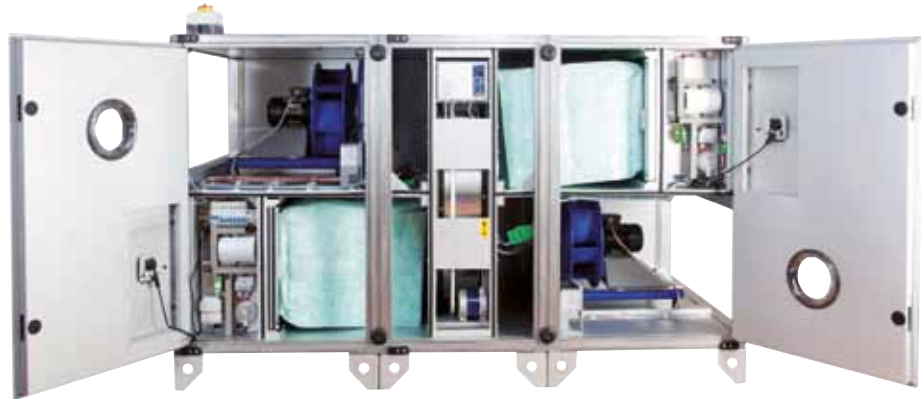
### Optimized, rotary heat exchanger

High efficiency rotating heat exchanger DVCompact is optimized with maximum wheel diameter and lower coil wave height. This combination makes it possible to select units adapted to the different energy efficient demands: 80% efficiency and SFP <2.0. For example by increasing the size of the unit performance of 85% efficiency and SFP <1.5 can be achieved. All these measures allow getting high efficiency performance of the unit that is marked with the label "Green Ventilation".



B x H	L	L1	L2	Weight
970	2310	820	670	415
1120	2310	820	670	470
1270	2310	820	670	560
1420	2310	820	670	660
1570	2310	820	670	750
1720	2610	970	670	910
2020	2760	970	820	1175
2170	3060	1120	820	1420
2470	3510	1270	970	1900
2770	3660	1270	1120	2640
2920*	3360	1120	1120	3060
3070**	3360	1120	1120	3200

Measurements in mm, weight in kg.



**Integrated control**

The DVCompact comes standard with integrated controls. Components of the control system are marked by a cross marking system. The control system comes pre-configured and tested from the factory.

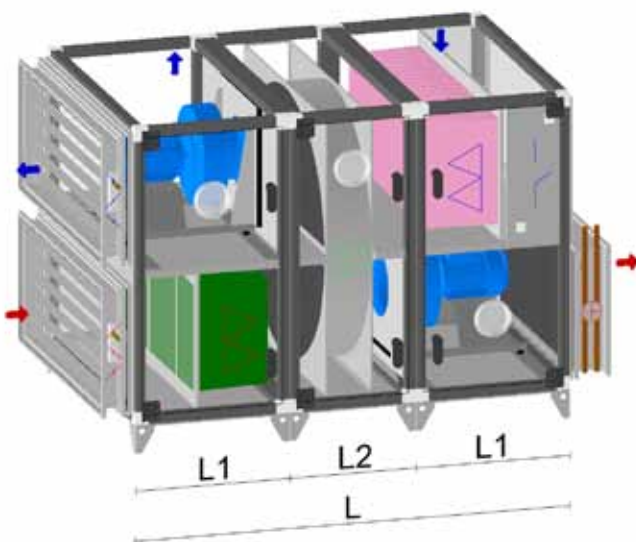
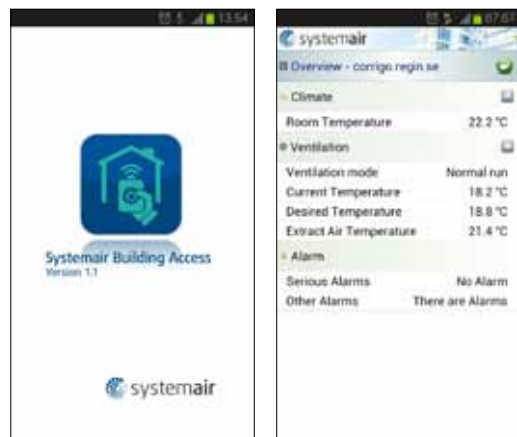
Each unit has 2 control cabinets with easy access and a total of 56 inputs and outputs available for use. Between each unit section there are quick connectors, and a control panel for the frequency converter which is placed on the front panel of the unit for easier control. Bus communication via BMS is prepared via open protocols.

**Add-ins for Revit**

Using proprietary Add-ins a unit can be selected by using SystemairCAD and transferred directly into Revit. It will be transmitted when a 3D model is enabled. Connection spigot, dimensions and calculated sound data is supplied. This way you are assured that adequate space is provided for the ventilation unit, and that the correct sound data can be calculated for the plant.

**App for Android Phones**

Status of the unit can be checked via phones with Android operating systems. You can acknowledge alarms and adjust settings such as start and stop times, temperature set point and air flow. The Android App can be downloaded from the Android Market at no charge.



**Size 20 – 30:**  
are delivered on 150 mm tall feet

**Size 40 – 80:**  
are delivered on pallets and to be mounted on 150 mm high base frame.

**Size 100 – 150:**  
are delivered on 150 mm high base frame.

- \* the rotor section is 80 mm higher
- \*\* the rotor section is 230 mm higher

