



VentR and VentC Plug-and-play air handling units

Optimizing the working environment

Productivity is closely linked to the well-being of people, so a comfortable working environment makes all the difference. With a Vent unit you are certain to get an air handling solution that will ensure excellent indoor comfort in office buildings – or anywhere else where an easily manageable plug-and-play unit is an obvious choice, e.g. hotels, schools and institutions.

Uncomfortable temperatures, high humidity and poor air quality can reduce productivity in workplaces – and at the same time damage the buildings. But such unfortunate scenarios can easily be avoided by installing an efficient air handling unit. The compact Vent units are part of Dantherm Air Handling's plug-and-play programme and the ideal solutions in smaller projects where demand management and efficient heat recovery are important priorities.

Efficient heat recovery

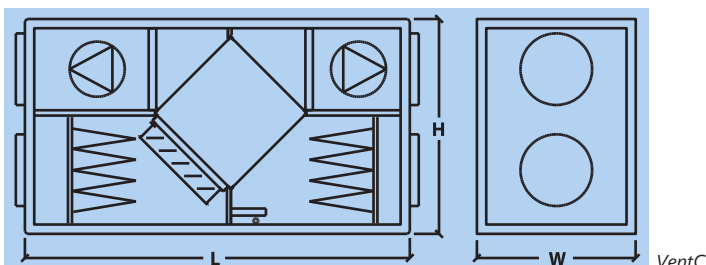
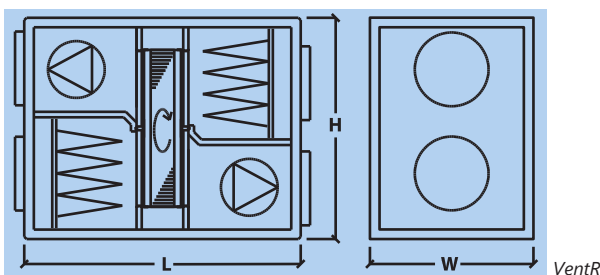
Vent features two types of compact units: VentC and VentR. The VentC unit features a cross flow heat exchanger, offering the advantage of separating

exhaust air and supply air. The VentR is designed for comfort ventilation with a rotary heat exchanger that provides high energy recovery with up to 85% efficiency. Each type of Vent unit is available in three sizes and can be supplied with a number of accessories, e.g. supply air/exhaust air dampers for duct mounting, a roof for outdoor installation and a cooling coil for chilled water or direct expansion. This allows you to choose the solution that matches your specific requirements.

Energy saving operation

The VentC and the VentR offer significant energy savings thanks to the direct-driven plug fans with frequency

converters. The integrated control system, standard on all Vent units, is another important, energy-saving factor. These factors – along with efficient heat recovery systems and low operational costs – ensure a relatively quick return on investment. Also, durable components such as hot-galvanised cabinets with 50 mm insulation add to the cost-effectiveness of the units by ensuring long life and a minimum of maintenance. A further advantage of our compact plug-and-play air handling solutions is the fact that they can be used as decentralized ventilation. Decentralized units offer you the possibility of adapting the temperature and air volumes to specific requirements in different rooms.





Vent is constructed from robust, galvanized materials and is equipped with high-efficient components.



User-friendly control system

The Vent units are fitted with a unique integrated control system, making them perfect for projects where demand management is a priority. Providing automatic supervision and control of temperature, humidity, air quality and energy consumption, the control system takes demand control to a new level. It guarantees a balanced and comfortable indoor climate around the clock – adapted to your specific requirements. For example, temperature and air flow volumes can be individually set for each day of the week.

All the important functions are factory-set and tested, just as individual adjustments are easily made and tested. The control system comes with a simple and easy to operate display from which user-defined optimization of the system

can be carried out to meet the exact demands of the building.

Selection program

Designing an air handling unit can be a rather complex task, but at Dantherm Air Handling we have put every effort into making it as easy as possible for you with the selection program. It can be downloaded from www.dantherm-air-handling.com. Naturally, you can also draw on the know-how and expertise of our engineers and sales team who are more than happy to help you customize an air handling solution that meets your exact requirements.

Features of VentR and VentC

- Hot-galvanized cabinet with 50 mm insulation
- Filters: Fresh air F7/exhaust F5

- Energy-saving plug fan
- Motors with built-in frequency converters
- Heat wheel with up to 85% efficiency
- Diagonal flow heat exchanger with up to 65% efficiency
- By-pass for free cooling and defrosting
- Bottom frame
- Integrated control with micro processor technique
- Control unit for wall mounting

Accessories for VentR and VentC

- Fresh air/exhaust air dampers for duct mounting
- Roof for outdoor installation
- Re-heat coil for water or electricity for duct mounting
- Cooling coil for chilled water or direct expansion

Air flow rates

	Vent 2	Vent 4	Vent 6
Min. m ³ /h	400	600	800
Max. m ³ /h	2.200	3.500	5.200

Dimensions

	H _i	L	W	Duct connection Ø	Weight in kg
VentC 2	1.252	2.150	650	315	280
VentC 4	1.252	2.150	890	400	330
VentC 6	1.420	2.365 ²	1.400	500 ³	550
VentR 2	1.252	1.500	890	315	260
VentR 4	1.252	1.500	950	400	280
VentR 6	1.420	1.790 ₂	1.400	500 ₃	490

All dimensions in mm.

¹Height inclusive bottom frame. These units can be separated in three parts, allowing them to be moved through a standard door.

³VentC 6 and VentR6 are with rectangular duct connection on the filter side (400x1.000 mm)



Our unique control system which takes demand management to a new level and guarantees a balanced and comfortable indoor climate around the clock. Linking to LonWorks Communications is one of the system's many options.



Comfortable surroundings in any climate



Since 1958 Dantherm Air Handling has developed and produced climate control and air handling solutions that ensure optimum conditions for people and sensitive equipment alike. No climate is too extreme for us to handle – from the bitter cold at the North and South Poles to the searing heat of the Sahara.

Our core business areas are dehumidification, heating, air conditioning, heat recovery and electronics cooling. Innovative, durable and cost-efficient products have secured us a position as a leading global manufacturer of stationary and mobile climate control units. And we are forever pursuing new techniques that will improve our solutions and ultimately your projects.

Dantherm Air Handling's headquarters are situated in Denmark with subsidiaries in Norway, Sweden, the United Kingdom, the United States and China – and an extensive European dealer network.

Dantherm Air Handling is a wholly-owned subsidiary of Dantherm A/S.

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