VR 400 DCV/B L

Description

- High efficiency heat recovery unit without need for defrosting will give the highest average efficiency over the year
- Energy efficient fan motors with modern EC technology
- Operation from user friendly control panel(s), type CD with LCD-display
- Separate setting of supply and extract airflow
- Constant airflow and balance between extract and supply air
- Changes automatically to summer operation with no heat recovery
- Bypass for connection to duct from cookerhood
- Flexible installation. No need for condensation drain

White painted model with EC fans, flexible control functions and modern control panel, designed for installation on the wall in dwellings with ventilated area up to apx. 200 m2. The unit is equipped with bypass for connection to duct from cookerhood and can therefore be installed for ventilation in smaller houses as well as apartments.

The VR 400 DCV/B is designed for installation in laundry room, storeroom or cupboard. The unit is double skinned, fully insulated and with complete control functions, high efficiency rotating heat exchanger, thermostat operated re-heater battery and filters. Energy efficient fans with EC motors will reduce energy consumption for transportation of ventilation air by apx. 50 % compared to traditional AC motors. Modern technology gives low SFP factor (Specific Fan Power) as well as constant airflow and balance between extract and supply air.

The VR 400 DCV/B is especially well suited for installation in apartments where duct runs, smells and pollution from the kitchen often is a challenge. Separate duct from the cookerhood can be connected to lead extract from the cookerhood directly to the extract fan, without leading smells and pollution through the unit.

The unit will automatically alternate between normal operation with heat recovery and summer operation without heat recovery. This solution will also automatically recover chilled indoor air (from cooling).

Airflow and supply air temperature can be set from one or more CD control panels. Symbol and text in the display will indicate chosen settings; re-heater operating,
summer operation and need for filter change. Commissioning of airflow on supply and extract, on each step, is set from the control panel. Timer-function for automatic change between day and night operation (installations in commercial buildings) is integrated. Alarm signal will indicate possible malfunctions.

The CD panel also has a user level for authorized installers and service personnel. The CD panel is connected to the unit by means of cable with quick connectors (modular plugs), alternatively via 4-pole terminal block.

The VR 400 DCV/B is provided with outlet for control of external hot water battery and inlets prepared for demand controlled ventilation from external sensors, f. inst. CO2, presence or humidity sensor (potential free contact).

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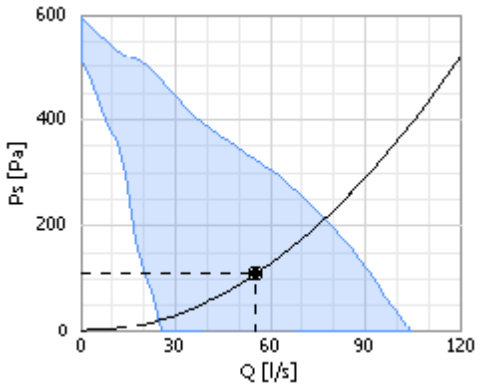
Technical parameters

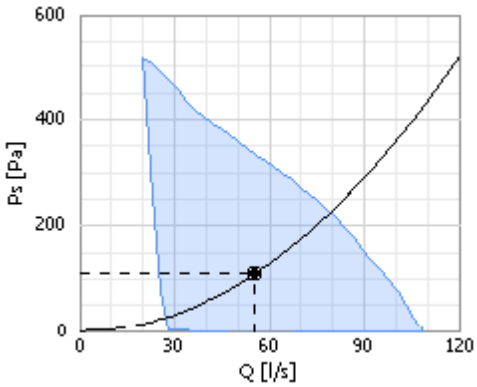
Parameter	Value	Unit
Voltage	230	V
Frequency	50	Hz
Phase	1	~
Input power, fan motors	2x114	W
Input power, electrical heating battery	1 670	kW
Fuse	10	A
Weight	57	Kg
Filter, supply air	EU7	
Filter, extract air	EU3	

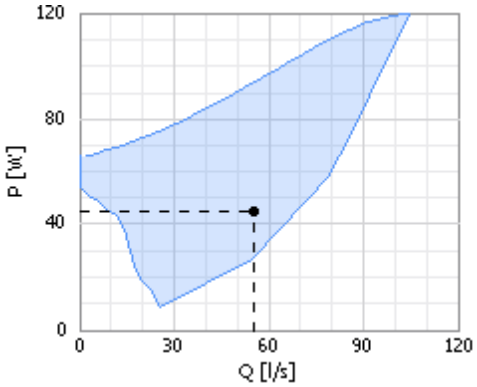
Diagrams

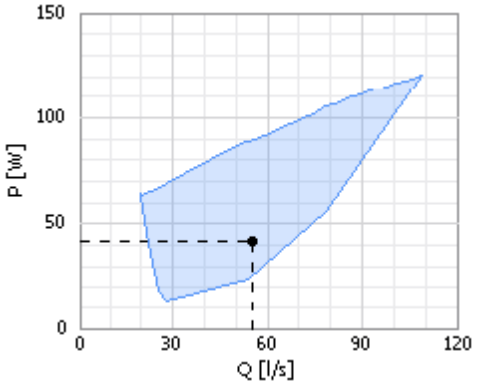
Supply



Extract







User selected data

Selected Point		Working Point						
		Q [m³/h]		Ps [Pa]		P [W]		SFP
Q [m³/h]	Ps [Pa]	Supply	Extract	Supply	Extract	Supply	Extract	[kW/m³/s]
200	111	200	200	111	111	44,7	41,8	1,56

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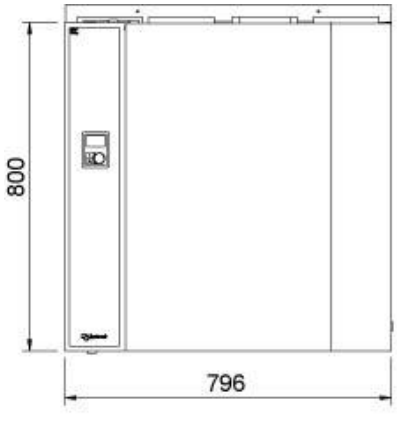
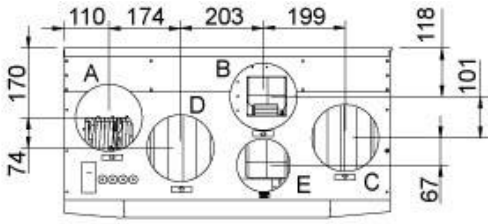
	Mid frequency band								
	63	125	250	500	1k	2k	4k	8k	Tot
Supply dB(A)	48	51	50	53	58	53	45	38	61
Extract dB(A)	42	42	45	47	41	32	21	12	51
Surrounding Lw dB(A)	25	30	31	37	37	34	28	21	42

Dimensions





A Supply air ø160 mm
B Exhaust air ø160 mm
C Fresh air ø160 mm
D Extract air sanitary room/kitchen ø160 mm
E Extract air cooker hood ø125 mm

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