

Heat recovery unit

VX-400 EV/B



- **Touch pad controls for user friendly operation from integrated or remote control panel(s)**
- **Prepared for connection to cookerhood**
- **Simpler duct system**
- **Automatic change to summer operation without heat recovery**
- **Favourable outer measurements**

VX-400 EV/B is a complete unit for ventilation of homes and smaller areas in commercial buildings. The unit is painted white and designed for installation on the wall in laundry room, storeroom or closet. VX-400 EV/B is especially designed for installation in flats where duct runs, smells and pollution from the cooker often creates a problem. An automatic damper solution (bypass) allows for cookerhood to be connected to the unit. Extract from the cooker is led directly to the extract fan, bypassing the exchanger block. Duct runs are simpler, as separate shaft and outlet for extract duct from the cooker to roof unit is no longer necessary. The unit will automatically alternate between winter operation with heat recovery and summer operation without heat recovery. A high temperature efficiency is obtained by leading the inlet and extract air streams in counter flow through 2 cross flow exchanger blocks, built together to one unit. Thermostat operated heater batteries are integrated in the unit to ensure constant supply air temperature under different operation conditions, and an electrical pre-heater battery will melt ice or defrost the unit as necessary.

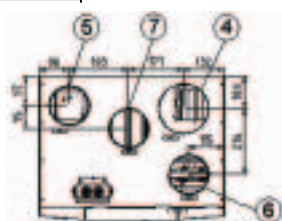
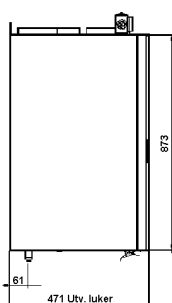
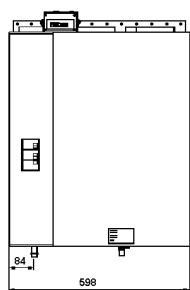
Electrical connections

- Connection to mains supply via 1 m cable and plug for earthed connection
- 2-lead for potential free signal from cookerhood, when installed
- 4-lead (12V) for signal from remote control panel, if installed
- 2-lead for potential free signal from separate timer, if installed

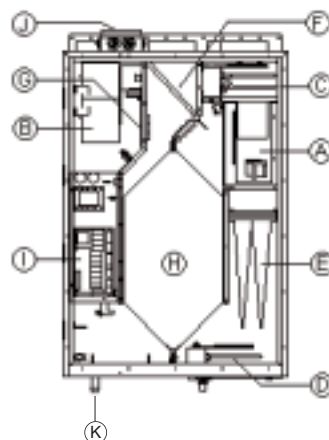
Airflow and supply air temperature are set from a user friendly control panel, integrated on the unit front panel, alternatively from one or more remote control panels. Discreet lamp indicators show chosen settings; electrical heater battery in operation, summer operation and time for filter change. Commissioning of airflow on normal ventilation, choice of operation time between filter changes and override of separate timer, if installed, can also be made from the control panel.

VX-400 EV/B

Voltage/frequency	V/Hz	230–240 / 50
Phases	~	1
Motors	W	2 x 138
Pre-heater	W	1000
Re-heater	W	1000
Fuse	A	10
Net weight / incl. packing	kg	67/73
Filter, inlet	bag	EU7
Filter, extract		Aluminium



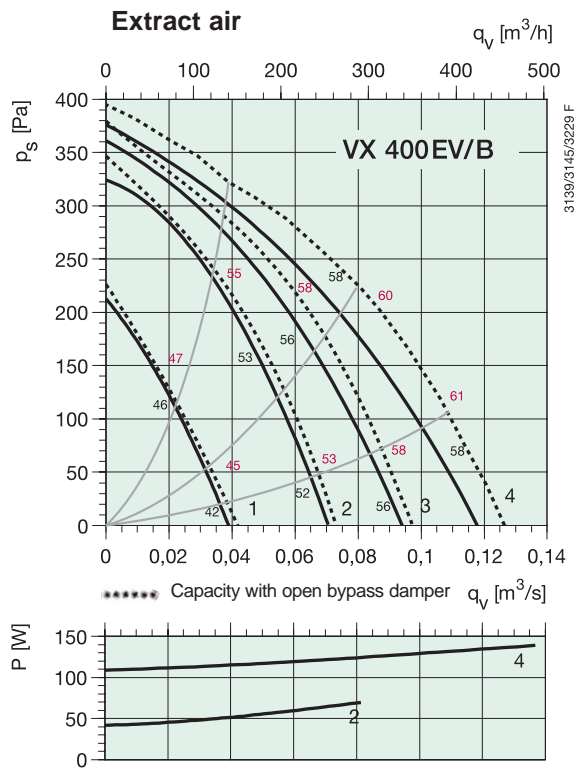
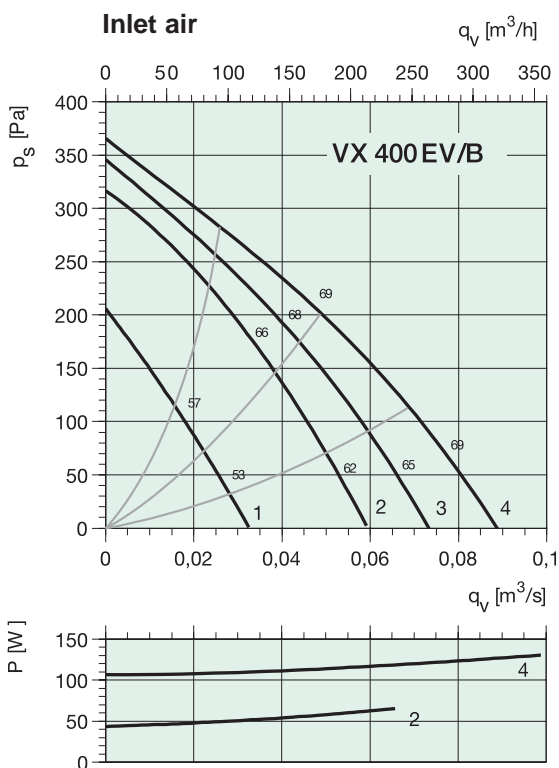
4. Fresh air intake, Ø160 mm
5. Discharge of polluted air, Ø125 mm
6. Supply air, Ø125 mm
7. Extract, Ø125 mm



- A Inlet fan
- B Extract fan
- C Re-heater battery
- D Pre-heater battery
- E Fresh air filter
- F Extract filter
- G Bypass damper
- H Cross flow heat exchanger block (2 pcs. built together)
- I Control functions
- J Junction box for signal cable from cookerhood, separate control panel or week timer, if installed
- K Condensation drain, Ø17,5 mm

Capacity diagram

The diagram shows available pressure to duct



VX-400 EV/B

Inlet

L _{WA} outlet, dB(A)	Tot	Octave band, Hz							
		63	125	250	500	1k	2k	4k	8k
4 Max. 230V	69	63	62	64	58	59	56	52	46
3 Norm. high 160V	68	63	60	62	56	58	54	50	44
2 Norm. low 130V	66	60	60	60	55	57	52	48	40
1 Min. 90V	57	51	50	50	48	49	42	38	28

Extract*

L _{WA} inlet, dB(A)	Tot	Octave band, Hz							
		63	125	250	500	1k	2k	4k	8k
4 Max. 230V	58	51	45	56	48	43	44	38	31
3 Norm. high 160V	56	47	43	54	47	42	43	36	29
2 Norm. low 130V	53	42	41	50	44	40	40	32	21
1 Min. 90V	46	35	33	42	40	36	34	23	12

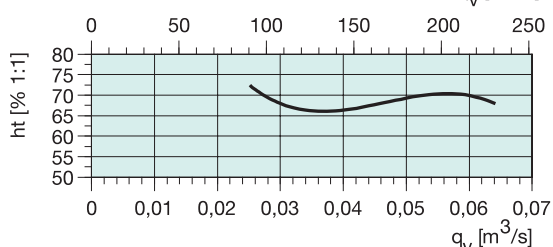
*With open bypass damper, the sound power level (Tot) will be ~2 dB(A) higher

Surroundings

L _{WA} , dB(A)	Tot	Octave band, Hz							
		63	125	250	500	1k	2k	4k	8k
4 Max. 230V	43	25	27	39	34	38	33	25	17
3 Norm. high 160V	41	25	26	37	33	36	32	23	16
2 Norm. low 130V	39	18	23	34	30	34	29	19	8
1 Min. 90V	34	11	16	26	27	31	24	11	-1

Temperature efficiency exchanger block

At air ratio 1:1 and air humidity 50%



Sound level exhaust ~ supply air, outlet
Sound level fresh air ~ extract air, inlet

NOTE!

The tables show sound power level L_{WA}, not to be confused with sound pressure level L_{PA}

Additional equipment

Specifications may be changed without notice



Control panel



Week timer



Duct cover



Condensation tray



Roof unit



Wall grill



Cookerhood