

Units - Technical Documentation

FEATURES

- High rate of heat recovery (up to 90 %) through high efficient, extensive counterflow plate heat exchanger, made of seawater resistant aluminium.
- economical mode of operation through stepless, independent adjustable DC-fans with Constant Flow
- High Air capacity with lowest space requirement as a result of compact design
- Comfortable usage in summer through integrated automatic 100% bypass with simultaneous covering of the heat exchanger. The bypass allows feeding of cooler Air in summertime
- Casing is optimal free of heat bridges, nonflammable, powder coated sheet steel, color RAL 9010
- made for easy maintenance, easy accessibility of all components
- Filter can be easily pulled out for cleaning/maintenance
- Flexible, quick mounting, horizontal oder vertical mountable
- Right- and left-options easy changeable on the spot
- Duct-connectors house side above, outside below
- Fully prewired at terminal block
- Comfortable operation by 3-Step-Switch, or remote control
- Easy programming through communication modul or PC-Software with USB-connection
- Clearly representation of all operation conditions

MODELS

- **Bambino 170:**
Heat recovery unit with supply-/waste air duct connectors DN125 above, exhaust-/fresh air duct connectors DN125 below.
Controlable over 3-Step-Switch or remote control.
With integrated, temperature controlled 100% bypass.
Suitable for most flats and small residential buildings up to about 100m².
- **David 330:**
Heat recovery unit with supply-/waste air duct connectors DN160 above, exhaust-/fresh air duct connectors DN160 below.
Controlable over 3-Step-Switch or remote control.
With integrated, temperature controlled 100% bypass.
Suitable for most middle sized residential buildings up to about 180m².
- Accessories:
Special-ball-syphon, remote control or 3-step-switch.
Cords are not included.



CONTROL UNIT

- The DC-fans can be controlled over the 3-Step-Switch. The air flow of each fan can be chosen separately and according to the step. Constant flow through special fans from the latest generation.
- Through separate switchable revolutions per minute it is possible to generate overpressure or depressure as the requirements are.

REMOTE CONTROL

- different functions programmable through remote control, such as weekly program, push buttons, free cooling, different sensors, etc.
- setting of fan control
- display of actual temperatures
- display bypass function
- display for frost control, filter control
- Switch depending on fireplace directive (impact ventilation, smoke control), dehumidification, temperature control, control by air quality, etc.
- gating signal for geothermal heat exchanger, heating coils, etc.
- fan monitoring

BYPASS (of heat exchanger)

On active bypass the wasted air passes the heat exchanger with 100%. This allows to take cooler air inside the building, because the heat exchanger will not be heated up with the wasted air.

Special on using a geothermal heat exchanger this system will work on highest efficiency. On the unit the bypass function will automatically be activated. At the same time the way through the heat exchanger will be closed mechanically with a grille.

ELECTRICAL CONNECTION

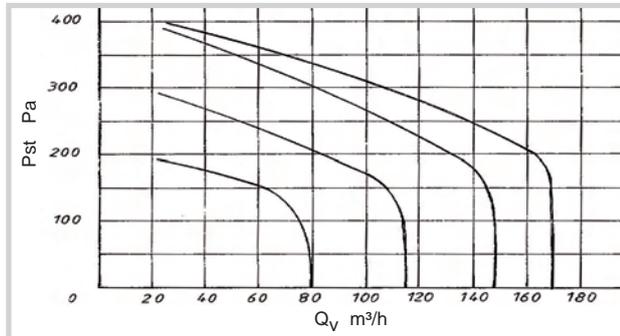
A 230 VAC connection has to be installed.

Electrical wiring has to be made by an specialist.

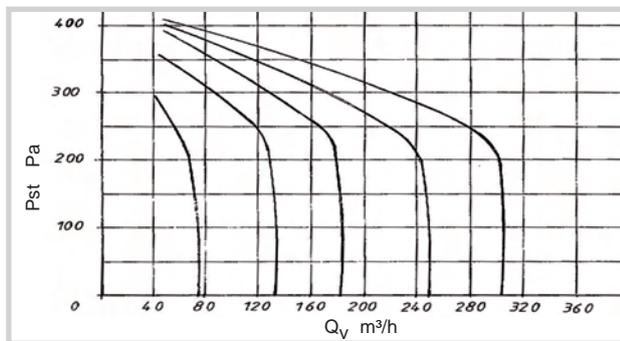
On using remote control take a look on the hints of the separate manual.

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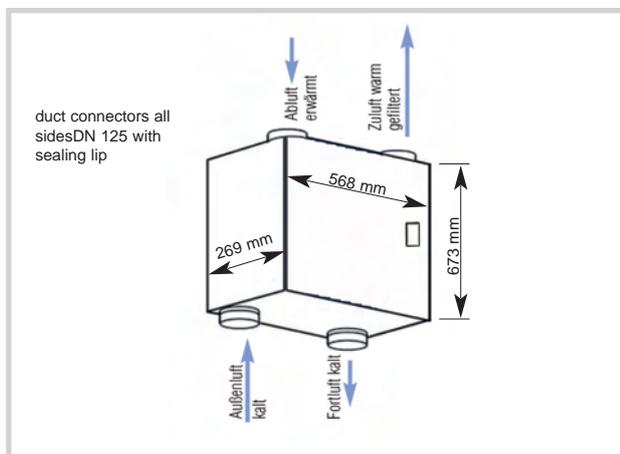
CHARACTERISTIC CURVE BAMBINO 170



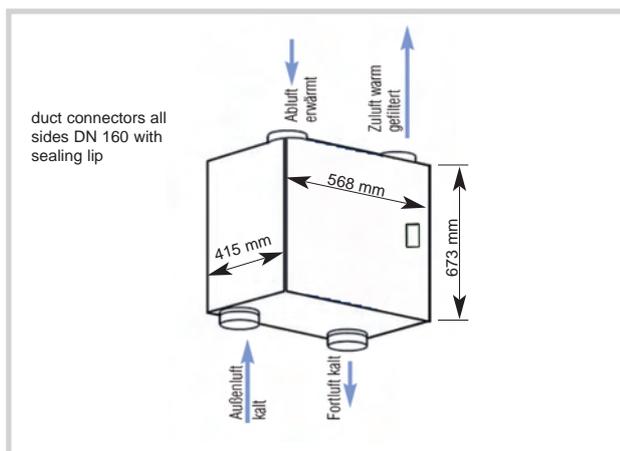
CHARACTERISTIC CURVE DAVID 330



MEASUREMENTS BAMBINO 170



MEASUREMENTS DAVID 330



TECHNICAL DATA BAMBINO 170

Air capacity at 140 Pa:	max. 170 m³/h
Heat recovery:	up to 90%
Connection Voltage:	230 Volt
Frequency:	50 Hz
Filter class (fresh / waste air):	F5 / G4
Heat exchanger:	Aluminium
Protection:	IP 20
Fuse protection:	1,6 A
Weight:	27 kg
Duct connectors:	DN 125
Insulation:	EPP 20 mm
Frost protect:	electronic, programable
Consumption max.	65 Watt

TECHNICAL DATA DAVID 330

Air capacity at 200 Pa:	max. 300 m³/h
Heat recovery:	up to 90%
Connection Voltage:	230 Volt
Frequency:	50 Hz
Filter class (fresh / waste air):	F5 / G4
Heat exchanger:	Aluminium
Protection:	IP 20
Fuse protection:	1,6 A
Weight:	31 kg
Duct connectors:	DN 160
Insulation:	EPP 20 mm
Frost protection:	electronic, programable
Consumption max.	122 Watt

ORDER DETAILS

Description	Typ	Order-Nr.
Bambino 170	B170	4.470
David 330	D330	4.471
Set-Top-Box 170 (all above)	AB170	4.472
Set-Top-Box 330 (all above)	AE330	4.473

ACCESSORIES

Description	Typ	Order-Nr.
3-Step-Switch	DSS-BD	4.474
Remote control	FB-BD	4.475
Communication modul	FB-KOM	4.476
Special - ball - syphon DN 32	SKS32	4.477
Filter Bambino fresh air F5	EF-BAF5	4.478
Filter Bambino waste air G4	EF-BAG4	4.479
Filter David fresh air F5	EF-DAF5	4.480
Filter David waste air G4	EF-DAG4	4.481

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