

Vanvex Lite

Description

Vanvex Lite is a price attractive domestic hot water heat pump. The Vanvex Lite dehumidifies basements and it uses the warm air from ex. boiler room, freezer etc. to supply the house or apartment with hot domestic water, independent of the existing heating system. With a boiler size of 285 l. Vanvex Lite is able to meet the demand of a family's need for hot water.



Suitability

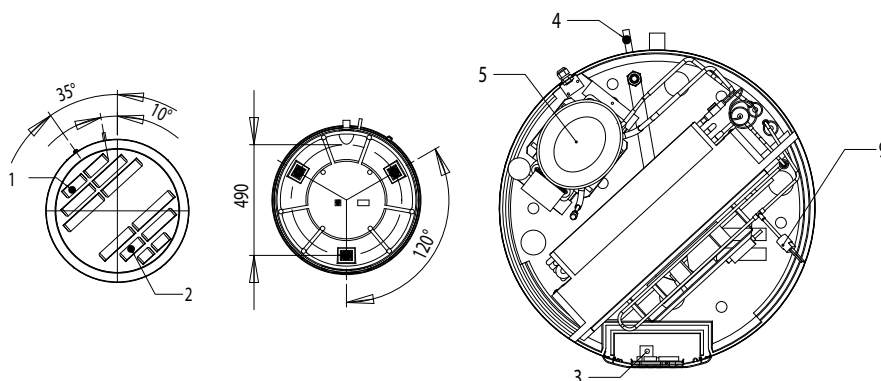
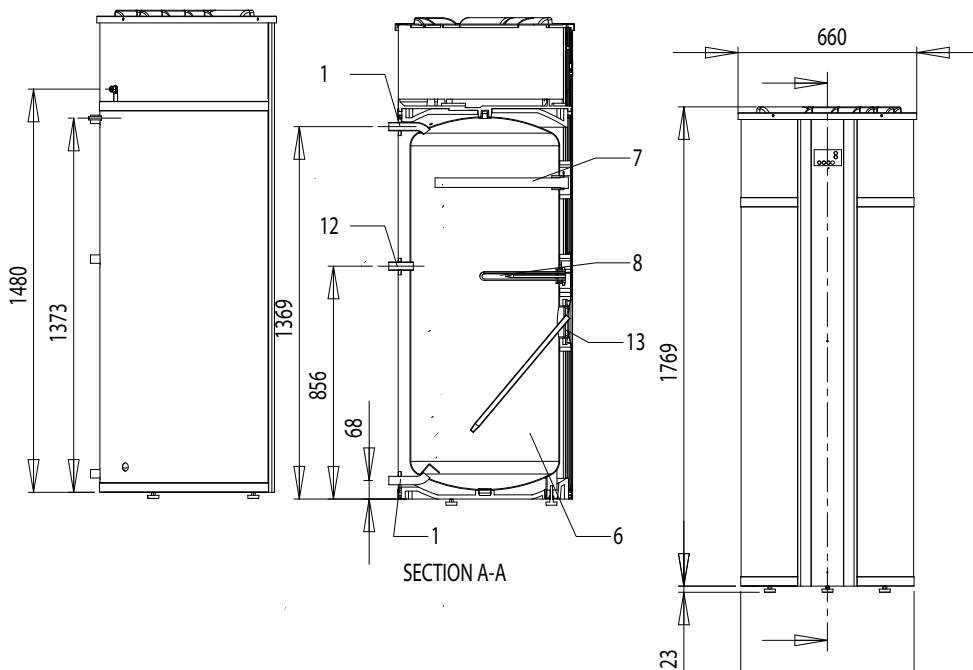
The hot water is produced in a very energy efficient way with an efficiency (COP) of 3,2 at an ambient temperature of 15°C to 45°C and a circulated air volume of appr. 200 m³/h.

Max. hot water temp. with heat pump: 55°C.

Max. hot water temp. with heat pump and electrical heating element: 65°C.

Dimensions

Dimensions in mm



1. Grills for supply air
2. Grills for exhaust air
3. Circuit board with control panel
4. Condensation drain
5. Compressor
6. 285 liter cylinder
7. Anode
8. 1,5 kW electric heating element
9. High pressure switch with manual reset
10. Cold water connection 3/4" RG pipe thread
11. Hot water connecting 3/4" RG pipe thread
12. Hot water circulation 3/4" RG pipe thread
13. Cleaning flange for cylinder



Technical data

Electrical connection:

1 x 230V + N + PE, 10 A, 50 Hz

Fans:

R2E 190

Condenser:

2.0 µF

Motor

AC

Isolation class

B

Protection class

IP21

Motor data

Rpm: 2500

Collection max.

58W

Power consumption

0.26A

Ambient temperature limits

8°C to 35°C air temperatures

Compressor

NE6210Z

Effect collection

0.52 kW at an air temperature of 15°C(Water 15°C-45°C)

Heating performance

1.66 kW at an air temperature of 15°C(Water 15°C-45°C)

COP

3.2 at an air temperature of 15°C(Water 15°C-45°C)

Cooling medier:

R134a

Filling

1000g

Electrical heating element

1.5 kW

Cylinder capacity

285 liter

Standby loss

2.3 W/K

Max. operating pressure

10 Bar

Construction

Main dimensions

Ø660 x 1792 mm, ex. connecting pieces

Cabinet construction

Enamelled steel casing with 45 mm Isolation

Duct connection

None, louvre formed air admission hole and yield

Protection of the tank:

Enamelled inside and magnesium anode.

Condenser:

D-pipe condenser coiled at the outside of the cylinder. This structure prevents calcification.

Top plate

Cast en bloc with Louvre

Condensation drain

Ø12.5 mm (1/2") connection

Weight without/with water

105/390 kg

Sound data

Sound level (DS/EN 9614-2:1997) 1 m in front of unit.

Measuring point	1 m in front of unit
Air flow (L _W)	
	Lo dB
63 Hz	58
125 Hz	59
250 Hz	60
500 Hz	56
1000 Hz	51
2000 Hz	53
4000 Hz	45
8000 Hz	34
Avarage	Lo dB(A) 59



Automatics

Optima 150 is delivered with factory settings, which enables an immediate start of the unit. The factory settings are basic and must be adjusted to the operational requirements and demands of the individual home in order to obtain the optimum operating benefit from the unit.



P1: Heat Pump ON/OFF

On this button it is possible to change the function between: standby and automatic operation after setpoint P3. (Step 0, Step 1).

Step 0: The heat pump is now off and only the control is active.

Step 1: The heat pump is in operation mode and drives after setpoint thermostat P3.



P2: Operation for the electrical cartridge

The heat pump comes with an extra electrical cartridge for heating of the sanitary hot water. On this button it is possible to turn on the electrical cartridge if required. By adjusting the setpoint to 1 the electrical cartridge will turn on after setpoint P5 (operating thermostat for the electrical cartridge). The electrical cartridge is not on if this setpoint is set to 0.

Note! When the ambient temperature is under 8°C or over 35°C the electrical cartridge will turn on even if P2 = 0.



P3: Operating thermostat for heatpump

The required sanitary water temperature may be set between 0 - 55 °C, which is heated up by the heat pump.

Factory setting: 52°C

Max.. water temperature: 55°C



P5: Operating thermostat for the electrical cartridge



The sanitary water temperature may be adjusted between 0 - 65 °C. The electric cartridge solely heats the top half of the container, while the heat pump still heats the lower half of the container.

Factory setting: 50°C