

Product description

Vanvex domestic water-heat pump, is a complete unit containing a 185/290 litres hot water tank, extract fan, heat pump and electric equipment. The S-model is also equipped with a heating coil, prepared for the connection of a solar collector/central-heating etc.

Utilization

Vanvex domestic water-heat pump, can utilize the energy of both indoor and outdoor air, when heating domestic water. Furthermore it is capable of supplying hot water, covering the needs of a family, throughout the year.

Performance

The heating pump produces app. 380 litres of hot water every 24 hours with a temperature of 55 degrees Celsius. The capacity is dependent on the outdoor temperature, the temperature of the cold water supplied and the pattern of use.

In case the tank is drained of hot water, a 1kW electric element can be connected in order to re-heat the water as quickly as possible. When reaching the desired temperature, the electric element may be disconnected.

The energy consumption is primarily 30% of the consumption of an electricity heater.



Construction

Main dimensions:

(h x l x d) ex. connecting pieces
 Vanvex 185 /S: 1415 x 600 x 664 mm
 Vanvex 290 /S: 1865 x 600 x 664 mm

Cabinet construction:

Full closed with hot galvanised plate. Tank insulated with PU foam. Exterior white powder coating RAL 9010, gloss 72

Duct connection:

Ø160 mm (nipple size) with rubber ring seal

Tank protection:

Inside enamel and magnesium anode

Condenser:

D-tube condenser is wound on the external side of the tank. A lime scale of the condenser is hereby avoided.

Protection of the heating coil (S-model only):

External enamel

Door:

Door with 6 mm screws

Condensation tray:

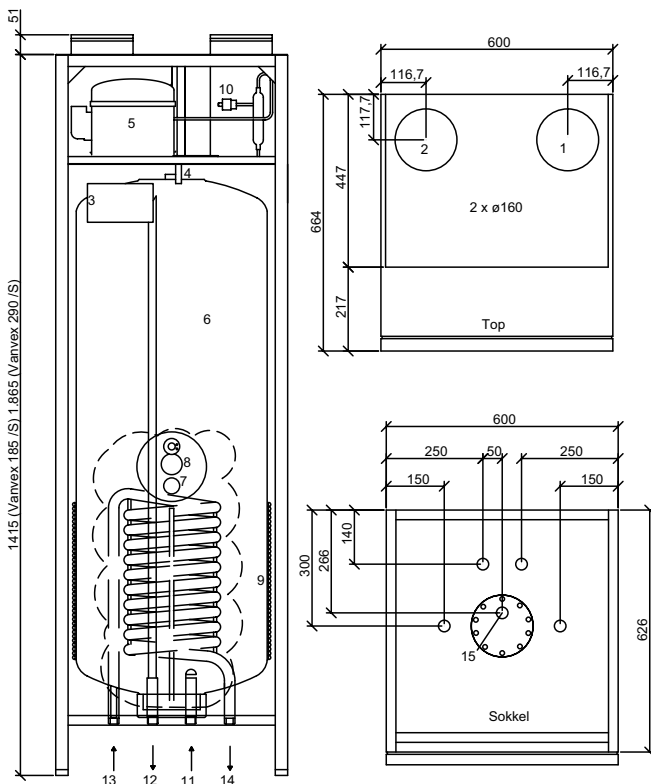
Stainless steel

Condensation drain:

Plastic hose Ø15 mm (internal)

Weight +/- water:

Vanvex 185:	190/375 kg
Vanvex 185S:	195-380 kg
Vanvex 290:	205/495 kg
Vanvex 290S:	210-500 kg



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|----------------------------|--|
| 1: Fresh air (outside air) | 9: Condenser coil |
| 2: Exhaust | 10: High pressure switch with a manual reset |
| 3: Electrical connection/ | 11: Cold water connection 3/4" pipe thread |
| 4: Condensation drain | 12: Hot water connection 3/4" pipe thread |
| 5: Compressor | 13: Connection to heating coil 3/4" pipe thread (S-model only) |
| 6: 185/290 litres tank | 14: Connection to heating coil 3/4" pipe thread (S-model only) |
| 7: 3/4" anode | 15: Warm water circulation 3/4" pipe thread |
| 8: 1 kW heating element | |

Technical data

Power supply

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

Fan with direct drive engine

R2E 190

Condenser

2,0 µF

Motor 230 V AC:

Standard motor

IEC 38

Insulation class

B

Tightness class

IP 44

RPM

2500

Power input (max.)

58 W

Current draw (max.)

0,26 A

Air flow

50% of max speed at

25 Pa external pressure loss - 135 m³/h

100% of max speed at

100 Pa external pressure loss - 280 m³/h

Compressor

NE 6210Z

Power input (max.) 585 W

Current draw (max.) 3,0 A

Average performance 1500 W

Average consumption 560 W

Refrigerant

R134A

Quantity

1100 gr.

Electric heating element

Power consumption 1,0 kW

Current drain 4,3 A

Tank capacity

185/ 290 litres

No load loss

50 W/70 W

Max. working pressure

10 Bar

Heating coil - heat surface (S-model only)

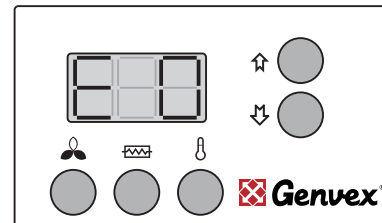
0,8 m²

Sound data

Measuring point	1 m in front of unit		Extract duct	
	50%	100%	50%	100%
	Lo dB		Lwu dB	
63 Hz	44	46	77	86
125 Hz	45	47	79	87
250 Hz	39	43	66	83
500 Hz	37	41	63	76
1000 Hz	29	31	50	67
2000 Hz	26	28	47	64
4000 Hz	21	24	42	59
8000 Hz	-	-	35	41
Average	Lo dB(A)		Lwu dB(A)	
	38	42	69	82

Control system

The device is equipped with an electronic control panel. The control panel is placed on the frontdoor.



The domestic water temperature can be set to max 55 degrees Celsius. The cooling surface is defrosted automatically.