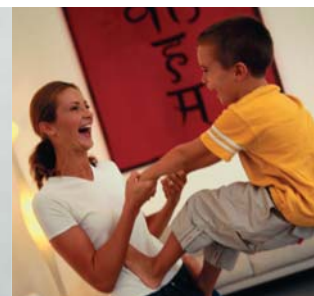




MARKET LEADING COMMERCIAL AND DOMESTIC VENTILATION WITH HEAT RECOVERY



... high
performance
for private
homes

Nilan VGU 250

**Active heat recovery
(air-to-water)**



Nilan VGU 250

Domestic ventilation with heat recovery for domestic water heating (air-to-water)

VGU 250 is a heat recovery unit designed for use in homes of up to 230 m².

Function

Nilan VGU 250 is an active heat recovery ventilator for extracting hot, humid air from kitchens, bathrooms, utility rooms, etc. Dust particles, moisture and smells are thus removed from the dwelling, ensuring a comfortable indoor climate.

The energy of the exhaust air is recovered and transferred to the hot water tank by means of a heat pump. The heat pump is capable of extracting energy direct from the exhaust air. As a result, the amount of energy used for domestic water heating can be reduced to 1/3 of that used by a conventional water heater.

Nilan VGU 250 consists of a 230 litre hot water tank and a four-speed fan capable of providing 325 m³/h (at 100 Pa). The unit is operated via a control panel located behind the inspection hatch (lower front cover).

The inside of the hot water tank has a two-layer enamel coating and is equipped with a sacrificial anode to provide optimum corrosion protection and maximize tank service life. The unit is supplied with a built-in water trap on the condensation outlet.

For households with high hot water consumption, a VGU version is available with a supplementary heating coil for connection to solar panels, oil or gas fired central heating, district heating or any other type of heating system.

Benefits

Nilan VGU 250 is a compact unit requiring no more space than a standard tall cupboard. VGU 250 helps establish a comfortable and healthy indoor climate by preventing dampness, removing undesirable smells, reducing allergy problems, etc.

VGU 250 are renowned for their low energy consumption, long service life, and low installation costs. The units have been tested by the Danish Technological Institute and approved by the Danish authorities.



Clear the air and recover the heat



Models

• VGU 250 Sun

For households with high hot water requirements (e.g. those with spas), this unit is available with an additional heating coil for connection to the primary heating system, solar panels or underfloor heating circuits in small bathrooms.

• VGU 250 Combi

Complete solution for heat recovery ventilation, domestic water heating and central heating via a water based heating system. The electronic CTS 600 control monitors the various temperatures within the system, e.g. the central heating flow temperature, irrespective of whether underfloor heating or radiators are used. The system contains weather compensated controls which regulate flow temperature in response to outside temperature in accordance with a factory-set curve.



Facts

- Heat recovery and domestic water heating
- Dwellings of up to 230 m²
- Capable of extracting up to 325 m³ air per hour (at 100 Pa)
- Exhaust
- 230 litre hot water tank with two-layer enamel coating and sacrificial anode
- Duct connections: Ø160 mm
- Dimensions: W60 x D60 x H180 (H200 VGU 250 Combi)

Benefits

- No problems with moisture or smells
- Stale air extraction
- High heat recovery rates
- Relief of allergy problems
- Cheap hot water
- Usually installed in utility room or similar

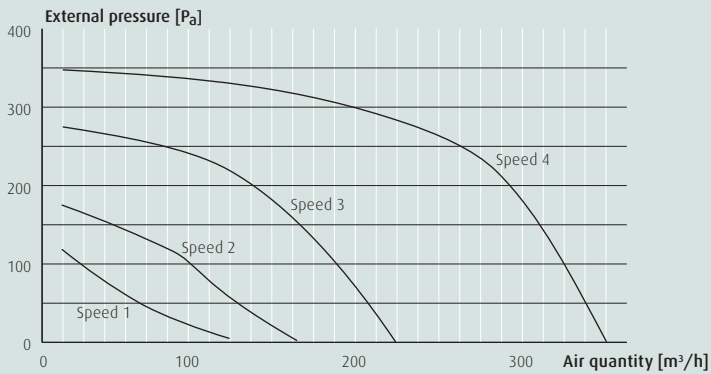


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Technical data

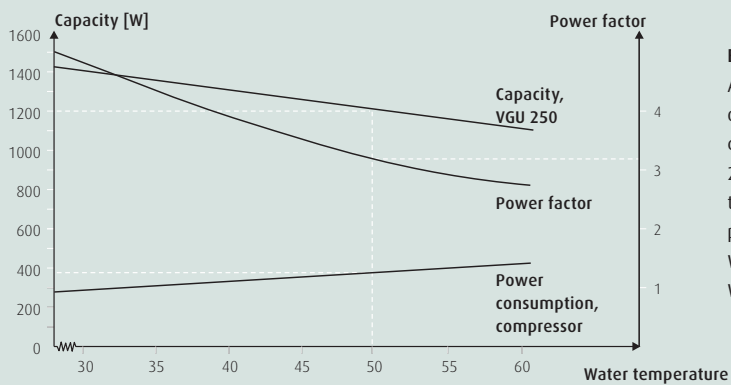
Type	m ³ /h	W	D	H	Weight	Heat	Water tank	Volt	amp.
VGU 250	330	600	600	1800	140	1,2	230	230	10
VGU 250 Sun	330	600	600	1800	144	1,2	230	230	10
VGU 250 Combi	330	600	600	2000	164	2,1/9	230	400	16

Capacity diagram



Heating capacity and power consumption (compressor)

VGU 250 at 300 m³/h, outgoing air: 20°C, 50% RH



Example:

A water temperature of 50°C is required. The diagram shows that VGU 250 provides 1200 W at this temperature. Compressor power consumption is 380 W. A power factor of 3.16 W/W is thus achieved.

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**Nilan creates well-being
for your family!**