NIBE EMINENT

The NIBE EMINENT is a small, practical and efficient water heater for holiday homes and smaller households. The thermostat can be controlled up to 80 °C.

The NIBE EMINENT is available in four different sizes; 35, 55, 100 and 120 litres. The water heater is fitted with a cable and plug for simple single-phase and two-phase connection. The water heater is available in the corrosion-resistant coatings, stainless steel, copper and enamel, to suit different water types.

The NIBE EMINENT has minimal heat loss thanks to its efficient insulation. The water heater can be installed vertically on the mounting brackets provided with the connections downwards, or horizontally.

- **Practical and efficient water heater for smaller households.**
- **Several options for output, corrosion-resistant coating and size.**
- **Can be installed vertically or horizontally.**

Good to know about Eminent

General

Eminent is a series of water heaters that are suitable for large houses and holiday homes.

Eminent is available in four sizes and with three different types of corrosion protection.

Eminent enamel is equipped with a magnesium anode that provides extra corrosion protection. The anode is consumed both because it sacrifices itself for pores in the enamel and because it consumes itself, depending on the chemical composition of the water.

Design

The water tank consists of a steel vessel, with a copper, stainless steel or enamel lining to protect against corrosion. The stainless steel vessel is manufactured in grade EN 1.4521. After the welding process, the vessel undergoes chemical cleaning, known as “pickling”, to ensure a high level of quality. The outer casing is made from powder coated sheet metal with end panels of durable plastic.

The pressure vessel is designed and manufactured for a maximum cut-off pressure of 10 bar.

The water tank is insulated with Neopor (environmentally friendly cellular plastic), which provides good thermal insulation.

The thermostat’s max setting is 70-80°C, depending on whether the immersion heater is switched on or off.

Installation and positioning

The water heater must be installed in a room with existing floor drainage. The water heater can be mounted hanging vertically on a flat wall (with the connections facing down) or horizontally (with the rear facing down). An area of 200 mm free space is required in front of/under the water heater for servicing work.

Pipe installation

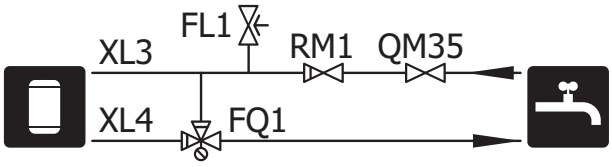
Pipe installation must be carried out in accordance with current norms and directives.

The water heater must be fitted with the required valves, such as a safety valve, shut-off valve and non-return valve. The water heater must be fitted with a mixing valve, which limits the temperature of outgoing hot water to 60 °C. If this valve is not fitted, some other measure must be taken to prevent the risk of scalding. An internal support bush must be fitted when a plastic or annealed copper pipe is used. An overflow pipe must be routed from the safety valve to a suitable drain. The overflow pipe must have the same dimensions as the safety valve. Route the overflow pipe from the safety valve, sloping along its entire length, and ensure that it is frost-proof. The mouth of the overflow pipe must be visible and not placed close to electrical components.

Ensure that incoming water is clean. When using a private well, it may be necessary to supplement with an extra water filter.

If uncertain, contact a plumber alternatively see applicable standards.

SYSTEM DIAGRAM



Electrical installation

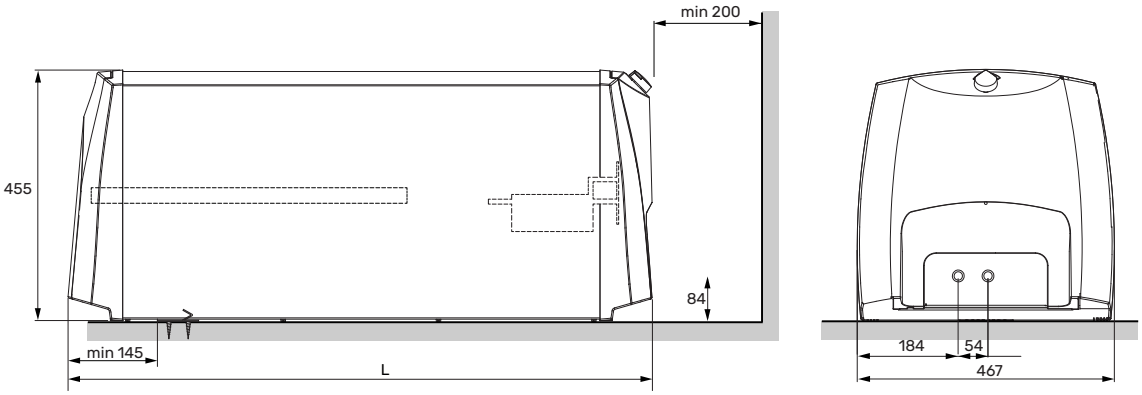
Electrical installation and service must be carried out under the supervision of a qualified electrician, and in accordance with applicable electrical safety regulations.

The water heater is supplied with a power cable with earthed plug for 1 phase installation (1 kW). 1 phase installation provides the best service life for the immersion heater.

The lowest point of the power cable should be below the power socket when you connect the water heater to the socket. This prevents any drops of water from being led into the socket.

If 3 kW is required, the water heater must be connected as a permanent installation (2x400V). For permanent installation, the water heater is preceded by an isolator (preferably with a signal lamp) with at least 3 mm breaker gap. The existing power cable can be used if the plug is cut off.

Technical specifications



Technical specifications

Model		35	55	100	120
Volume	l	35	55	100	120
Rated pressure	MPa/bar	1.0/10			
Max cut-off pressure	MPa/bar	0.9/9			
Voltage		230 VAC + PE / 2 x 400 VAC + PE			
Enclosure class		IP24			
Output	kW	1/3			
Fuses required at 1/3 kW	A	6/10			
Heating time (10 °C to approx. 60 °C 1/3 kW)[1]	h	2.5/1.0	3.0/1.0	6.0/2.0	7.0/2.5
Hot water capacity[2]	l	60	100	185	225
Net weight E/Cu/R	kg	19/21/17	25/28/22	36/40/31	-/-/34
Length	mm	565	750	1,120	1,304
Length sacrificial anode Eminent E	mm	165	280	435	–
Space to replace sacrificial anode Eminent E[3]	mm	180	250	390	–
Hot water connection XL3	Ø mm	15			
Cold water connection XL4	Ø mm	15			
Safety valve connection, hot water XL48	Ø mm	15			
Substances according to Directive (EG) no. 1907/2006, article 33 (Reach)		Lead in brass components			
Part no. Eminent E		072 300	072 330	072 360	–
Part no. Eminent CU		072 310	072 340	072 370	–
Part no. Eminent R		072 320	072 350	072 380	072 384

1 For incoming cold water at 10°C.

2 Applies for suspended installation and for incoming cold water temperature of 10°C, outgoing hot water temperature of 40°C, a drain flow of 12 litres per minute and a thermostat setting of 75°C. For horizontal installation, the hot water capacity is approx. 15% less.

3 When installed hanging vertically, the chain anode, which requires 180 mm above the water heater, can be used.

Energy labelling

Supplier		NIBE AB			
Model		EVH 16 - 35 R	EVH 16 - 55 R	EVH 16 - 100 R	EVH 16 - 120 R
Declared tap profile[1]		**S**	**M**	**L**	**L**
Water heating energy efficiency class[2]		**B**	**C**	**C**	**C**
Water heating energy efficiency, η_{wh}	%	35.6	37.0	38.1	37.8
Annual energy consumption water heating, AEC	kWh	519	1,389	2,689	2,710
Quantity 40-degree hot water, V40	l	43	71	135	167
Thermostat setting	°C	60	60	60	60
Daily electrical consumption, Q_{elec}	kWh	2.44	6.47	12.54	12.54
Sound power level L_{WA}	dB	15	15	15	15
Applied standards		EN 50440			

1 Scale for declared tap profile3XS to 4XL.

2 Scale for efficiency class hot water A+ to F

Sustainable energy solutions since 1952

NIBE has been manufacturing energy-efficient and sustainable climate solutions for your home for 70 years. It all began in Markaryd, in the southern Swedish province of Småland, and we recognise our Nordic heritage by utilising the power of nature. We combine renewable energy with smart technology to offer efficient solutions, allowing us to work together to create a more sustainable future.

Regardless of whether it is a chilly winter's day or a warm afternoon in the summer sun, we need a balanced indoor climate that allows us to enjoy a comfortable life, whatever the weather. Our extensive range of products supply your home with cooling, heating, ventilation and hot water, making it possible for you to create a pleasant indoor climate with little impact on the environment.

NIBE Energy Systems
Box 14, SE-285 21 Markaryd
nibe.se

PBD EN 2209-2 M12802