

Electric heater

NIBE ELK 213

The NIBE ELK 213 is an electric heater designed for heating detached houses or smaller rental homes, as well as indirect heating of hot water.

The NIBE ELK 213 can be installed together with a boiler, accumulator tank or heat pump.

When installed together with a heat pump, for example, the electric heater automatically switches on to provide supplementary heating when the heating demand is greater than the heat pump's capacity.



- **Efficient electric heater for detached houses and smaller rental homes.**
- **Flexible, electric additional heat, max. 13 kW.**
- **Can be installed with different heat sources.**

Good to know about ELK 213

General

ELK 213 is an electric heater intended for heating buildings and the indirect heating of hot water.

ELK 213 can also be installed together with a boiler, accumulator tank or heat pump. When installing together with e.g. a heat pump, the electric heater is engaged automatically as supplementary heating when the heating demand is greater than the heat pump's capacity.

Design

The insulation consists of 30 mm of polyurethane, surrounded by a durable painted steel jacket.

ELK 213 contains overheating protection and contactors for external control of the four power groups, 7, 9, 11 and 13 kW. Thermostat for the immersion heater and isolator switch is operated by a knob on the control panel.

ELK 213 is equipped with a time relay. The time delay is recommended when the connected power exceeds 6 kW.

The terminal block and miniature circuit breaker for the circulation pump are installed under the cover on ELK 213.

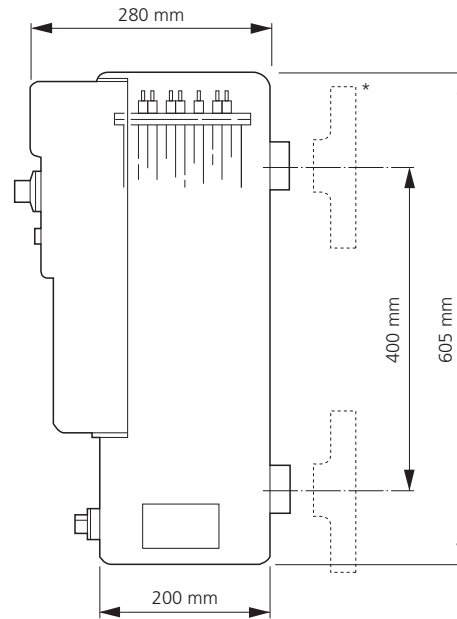
Installation

Pipe installation must be carried out in accordance with current regulations. The electric heater must be installed upright.

A free space of 200 mm in front and 500 mm above the heater is required to carry out servicing. If this is not possible, detachable connections must be used.

The supply and return line connections have an external thread (R50), the drain connection has an internal thread (R20) and is supplied with a plug that can be easily removed if the connection is to be supplied with a drain tap. The drain connection can also be used as a return line connection.

Dimensions



* Counter flanges, R50. Accessory is required.

Accessories

THREAD FLANGE KIT

For installation of electric heater ELK 213 on SP 300.

Part no. 022 077



Technical specifications

Type		
Electrical data		
Rated voltage		400V 3N ~ 50Hz
Max output, electric heater	kW	13 (output on delivery 9 kW)
Max. permitted total current for connected apparatus	A	10
Recommended fuse rating immersion heater	A	20
Enclosure class		IP21
Heating medium circuit		
Max permitted pressure in the boiler	MPa/bar	0.3/3
Min. flow/max. flow	l/h	- / 1800
Dimensions and weight		
Weight	kg	18
Volume	litre	7
Miscellaneous		
Substances according to Directive (EG) no. 1907/2006, article 33 (Reach)		Lead in brass components
Part No.		069 500

Energy labelling

Supplier	NIBE	
Model	ELK 213	
Energy efficiency class for space heating	D	
Rated heat output (P _{designh})	kW	9
Annual energy consumption space heating	kWh	20,310
Seasonal space heating energy efficiency	%	36.6
Sound power level L _{WA} indoors	dB	35

Model		ELK 213					
Condensing boiler	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Low-temperature boiler	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
B11 boiler	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Cogeneration space heater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Combination heater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency	η_s	36.6	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime	P ₄	9	kW	At rated heat output and high-temperature regime	η_4	40	%
At 30 % of rated heat output and low-temperature regime	P ₁		kW	At 30 % of rated heat output and low-temperature regime	η_1		%
Auxiliary electricity consumption				Other items			
At full load	e _{lmax}		kW	Standby heat loss	P _{stby}	0.15	kW
At part load	e _{lmin}		kW	Ignition burner power consumption	P _{ign}		kW
Standby mode	P _{SB}	0.01	kW	Annual energy consumption	Q _{HE}	20,310	kWh
				Sound power level, indoors	L _{WA}	35	dB
For combination heaters							
Declared load profile for water heating				Water heating energy efficiency	η_{wh}		%
Daily energy consumption	Q _{elec}		kWh	Daily fuel consumption	Q _{fuel}		kWh
Annual energy consumption	AEC		kWh	Annual fuel consumption	AFC		GJ

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.



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