



Water Heater



MADE IN SWEDEN



NIBE COMPACT

The Swedish heat record

The Swedish heat record of +38°C was set in 1947. A few years later, in 1952, Nils Bernerup founded the company that was to become Sweden's leading supplier of domestic heating products. Initially the company manufactured water heaters and copper pressure vessels, and in the 1970s these were supplemented by electric boilers, followed by heat pumps. Since the beginning, NIBE has managed to break a number of its own "heat records". Not least of all by continuously leading developments to produce increasingly efficient products for heating homes and water.

A crystal clear winter's night

The Nordic climate is hardly famous for its temperature records. It is better known for cold, crystal clear winter nights. The fact that NIBE is also the leading player in heating solutions in the rest of Europe is partly due to the fact that our heat pumps are developed, tested and manufactured to cope with the very coldest Swedish nights. For example, an air/water heat pump from NIBE works at temperatures as low as -20°C.

NIBE is based in Markaryd, Sweden, and brings a 60-year-old tradition of unyielding care and quality to everything it does. From the outstanding engineering used in constructing our pumps to the software used to control them, we make attention to detail and quality our watchword. Each heat pump is put through stringent operational tests before delivery.

The complete manufacturing process is ISO certified: ISO 9001 for quality and ISO 14001 for environmental standards.

Hygiene factor

For more than fifty years NIBE has manufacturing products to supply hot water. In fact, more than half of the houses in Sweden have a hot water heater from NIBE. Many have had them for several decades.

But a lot has happened in terms of heating economy during these years. Our amazing journey all began with water heaters. And we do not intend to end our mission to develop better, more efficient water heaters, for those chilly mornings in millions of bathrooms all over the world.

At NIBE we hope you enjoy your choice of water heater.

How big should your water heater be?

How much hot water do you actually need in your home? As a rule of thumb you can use the following, with values given for drawing hot water at 40°C:

- Normal shower (3 – 4 mins) = 40 litres
- Bath (standard bath tub) = 140 litres
- Washing up by hand = 15 litres

Of course, the total daily water requirement in a household depends on the size of the family, but normal consumption is as follows:

- Two adults, one child = 400 – 500 litres
- Two adults, two children = 500 – 650 litres

You can see how much hot water our water heaters produce when fully heated under technical data on page 18 on the brochure.

Our water heaters produce anything between 30 – 1,050 litres of hot water that is ready to use. This means we can virtually promise that there is a model that suits your particular requirements.

Anti-corrosion protection

Most water heaters from NIBE are available with corrosion-resistant linings made of either copper, enamel or stainless steel. The choice of corrosion-resistant lining is determined by the water quality where you live.

For example, if you take water from your own source and it has a low pH value, you should choose a corrosion-resistant lining made from enamel or stainless steel. If you have brackish water, you should choose enamel. Enamel corrosion-resistant lining requires regular inspection of the protective anode.

Your NIBE installer will know what kind of corrosion-resistant lining you require. You can also read more at www.nibe.eu.

Lower energy costs

The NIBE EMINENT and COMPACT models are equipped with a factory-fitted mixer valve, which mixes the hot water from the water heater with cold water to produce the correct temperature. The gains are twofold: you save hot water and eliminate the risk of scalding. This is particularly important if there are small children in the house.

Another advantage in all our models is that they are well-insulated with freon-free polyurethane or polystyrene (EPS). This produces low heat losses and consequently lower energy costs.



NIBE NIBETTE

For the small holiday home cottage.

- Volume 15 litres
- Corrosion-resistant lining Copper

In a holiday home or cottage the need for hot water for washing up and personal hygiene is rarely more than the volume provided by the NIBETTE 15. It can also be a good solution if you need hot water somewhere a long way away from the regular water heater.

The convenient format, the simple electricity and water installation, and the fact that it can be installed standing or wall-mounted, means that the NIBETTE is suitable virtually anywhere and in all environments.

The outer casing is made of sheet metal, and the water tank consists of a steel container with internal anti-corrosion protection made of copper. The insulation consists of environment-friendly polystyrene (EPS) for excellent heat insulation.

The water heater is fitted with a cable and plug for easy connection to a 230 V earthed socket (produces 1 kW output). Can also be connected to 400 V 2-phase (produces 3 kW output). Safety valve included.



NIBE EMINENT

For holiday homes and smaller houses.

- Volume 35/55/100 litres
- Corrosion-resistant lining Optional

Available in three sizes, the EMINENT satisfies many hot water needs. The smallest one, the EMINENT 35, lets you take a quick shower and still have water for the washing up. The biggest one, the EMINENT 100, covers most of your hot water needs during the summer months.

The designed sheet metal outer casing has sides made of durable plastic in matching shades. The EMINENT can be installed wall-mounted vertically on the bracket provided with the connections facing downwards, or lying horizontally. The EMINENT-E model, with enamel corrosion-resistant lining, requires free space above it for inspecting the anode.

The water tank consists either of a container made entirely of stainless steel or a steel container with an internal corrosion-resistant lining of copper or enamel. The insulation consists of freon-free, moulded polystyrene (EPS) for excellent heat insulation.

The water heater is fitted with a cable and plug for easy connection to a 230 V earthed socket (produces 1 kW output). Can also be connected to 400 V 2-phase (produces 3 kW output).

Fitted with complete set of valve equipment, consisting of mixer valve, shut-off/non-return valve, safety valve with drain function. The thermostat is adjustable up to 80°C.



NIBE HOT

Electric water heater for weekend cottages and houses

- Volume 40/60/ 80/100/120 litres
- Corrosion-resistant lining Enamel

The water heater consists of an enamelled container. The outer casing is made from powder-coated steel plate with impact resistant plastic top/bottom.

The pressure vessel is designed and manufactured in accordance with current pressure vessel standards (PED 97/23 EC § 3.3), for a maximum working pressure of 8 bar (0.8 MPa).

The water cylinder is insulated with die cast polyurethane foam without seams for good thermal insulation. The insulation is CFC-free and environment-friendly.

The enamel corrosion protection and magnesium anode ensure a long service life.

The water heater is installed wall-mounted vertically with the pipe connections downwards or lying horizontally.

When installing the heater, make sure that there is enough room for inspecting the electrical equipment and anode.

The connecting cable is equipped with a plug for an earthed 1-conductor socket. The socket must be positioned for easy access.

High quality, flanged stainless immersion heater (1.5 kW) in a Ø 76 mm connection opening allows for simple dismantling and internal inspection of the container.

Adjustable thermostatic control to 80°C.



NIBE COMPACT

The water heater for the detached house.

- Volume 90/145/185/275 litres
- Corrosion-resistant lining Optional
- Length of protective anode, enamel 200/300 570/775 mm

Our big seller, the COMPACT, with a choice of corrosion-resistant lining, is the solution for most detached homes. The COMPACT is available in four models: 100, 150, 200 and 300. The two larger models have three different corrosion-resistant linings (enamel, copper, stainless) to choose between. For hard water there is the COMPACT-Cu Steatit heater (in models 200 and 300), which is specially suitable for this.

The COMPACT range is made to blend nicely into a home environment. The smallest model is ideal for placing under the work surface in the kitchen, while the biggest ones fit in perfectly in the utility room or the washroom. The heater has an outer casing made of sheet metal and a well-proportioned base that makes it possible to conceal the pipe installation (from the floor, ceiling and side).

The water tank consists either of a container made entirely of stainless steel or a steel container with an internal corrosion-resistant lining of copper or enamel. The insulation consists of environment-friendly polystyrene (EPS) for maximum heat insulation. The water heater is connected to 400 V 2-phase (produces 3 kW output), or 230 V 1-phase (produces 1 kW output), but is also available in a 3-phase design with 6 kW output*. All COMPACT models are fitted with safety switches.

Fitted with complete set of valve equipment, consisting of mixer valve, shut-off/non-return valve, safety valve with drain function. The thermostat is adjustable up to 80°C.

*6 kW is available by special order. The higher the output, the quicker the recharge.



NIBE COMPACT SOL 300

Copper lined electric water heater that can utilise the heat of the sun.

- Volume 275 litres
- Corrosion-resistant lining Optional

The water tank consists of a steel vessel, with a copper lining to protect against corrosion. Copper finned tube coil for connection to solar panel. The pressure vessel is designed and manufactured for a maximum cut-off pressure of 9 bar. The water tank is insulated with EPS (environmentally friendly cellular plastic), which provides good thermal insulation. The water heater is designed for wall use installation.

A complete set of valves, consisting of a mixer valve, non-return valve, vacuum valve, safety/drain valve and shut-off valve, are factory fitted.

Suitable area for the connected solar panel for COMPACT SOL is up to 6m².



NIBE ES

For detached houses, rented house, industrial premises, leisure facilities.

- Volume 160/210/300/500 litres
- Corrosion-resistant lining Copper

The ES water heater is in a robust design with easily accessible pipes. This means that they are ideal in tough environments such as cellars, cold stores, garages, etc. However, they cannot be located in cold rooms.

As they are available for both vertical (ES model) and horizontal (EL model) installation, they are very easy to locate, for example under a staircase.

The outer casing is made of robust plastic, and the water tank consists of a steel container with internal anti-corrosion protection made of copper. The insulation consists of freon-free, moulded, polyurethane foam with no seams for maximum heat insulation.

Fitted with terminal block for connection of supply cable. The ES is connected to 400 V 2-phase (produces 3 kW output), or 230 V 1-phase (produces 1 kW output), but can also be ordered in 3-phase design with 6 kW output*. In its standard version, the ES 500 is 6 kW, 3-phase.

The thermostat is adjustable up to 80°C.

*6 kW is available by special order. The higher the output, the quicker the recharge. ES 500: 6 kW at 400 V 3-phase.



NIBE EL

For detached houses, rented house, industrial premises, leisure facilities.

- Volume 150/230/300 litres
- Corrosion-resistant lining Stainless

The EL water heater is in a robust design with easily accessible pipes. This means that they are ideal in tough environments such as cellars, cold stores, garages, etc. However, they cannot be located in cold rooms.

As they are available for both vertical (ES model) and horizontal (EL model) installation, they are very easy to locate, for example under a staircase.

The outer casing is made of robust plastic, and the water tank consists of a steel container with an internal stainless steel corrosion-resistant lining. The insulation consists of freon-free, moulded polystyrene foam without seams for excellent heat insulation.

Fitted with terminal block for connection of supply cable.

The EL is connected to 400 V 3-phase (produces 3 kW output), or 230 V 1-phase (produces 2 kW output), but can also be ordered with 6 kW output*. The thermostat is adjustable up to 80°C.

The EL includes a base frame and complete set of valve equipment including mixer valve.

*6 kW is available by special order. The higher the output, the quicker the recharge.



NIBE EKS 500/750

For rented house, industrial premises, leisure facilities.

- Volume 500/740 litres
- Corrosion-resistant lining Copper

The EKS 500/750 consists of a single-jacketed steel container with internal corrosion-resistant copper lining, which provides excellent corrosion protection.

The pressure vessel is designed and manufactured for a maximum cut-off pressure of 9 bar. The maximum permitted temperature is 95°C.

The water tank's insulation consists of 50 mm polyurethane.

The outer shell is grey plastic.

The EKS-500 and 750 can be made less bulky for transport by dismantling the insulation (EKS-500 Ø 670mm and EKS-750 Ø 770mm).

The EKS 500 and 750 can be used as a pure accumulator for hot water, in combination with a heat exchanger or for direct heating using immersion heaters.

In systems where there is a heavy demand over a short period, a storage water heater is often the best solution. This is subject to a relatively long heating-up time being acceptable, and the sufficient space for installation. One advantage is that the installed power can be kept low, which limits the system's total power requirement.

When electric heating is used, the storage water heater is almost always the only option, as circulation heaters require a lot of power.

* Electrical equipment is not included as standard, but is available by special order.

For example, EKS 500: 12 kW including control equipment consisting of:
2 x IU 39 + 2 x K11

For example, EKS 750: 27 kW including control equipment consisting of:
3 x IU 311 + 3 x K11



NIBE EKS 1000

For rented house, industrial premises, leisure facilities.

- Volume 1000 litres
- Corrosion-resistant lining Copper

The EKS 1000 consists of a single jacketed steel vessel, with an internal copper corrosion-resistant lining.

The pressure vessel is designed and manufactured for a maximum working pressure of 9 bar. The maximum permitted temperature is 95°C.

The water tank's insulation is 75 mm and consists of mineral wool.

The outer shell consists of lacquered wood panel with ends and base of lacquered sheet steel.

The water heater is equipped with a lifting eye bolt.

The EKS can be used as a pure accumulator for hot water, in combination with a heat exchanger or for direct heating using immersion heaters.

In systems where there is a heavy demand in a short time, a storage heater is often the best solution. This is subject to a relatively long heating-up time being acceptable and the availability of sufficient space. One advantage is that the installed power can be kept low, which limits the system's total power requirement. When electric heating is used, the storage heater is almost always the only option, as circulation heaters require a lot of power.



NIBE SP

Double-jacketed water heater

- Volume 110/150/200/300 litres
- Corrosion-resistant lining Copper

The water heater consists of a hot water tank and a double-walled sheet metal jacket. The water heater has a copper corrosion-resistant lining. The double-jacketed area, water tank and copper lining are tested for leaks.

The water heaters are designed and manufactured for a maximum cut-off pressure of 9 bar. Maximum working pressure in the outer jacket is 3.0 bar. The maximum permitted temperature is 95°C.

The water tank's insulation is seamless polyurethane, which provides excellent heat insulation.

The outer shell consists of plastic-coated sheet metal.

The water heater can be installed standing or wall-mounted. A special base frame is available as an accessory for horizontal installation.

If the heater is installed standing, immersion heater ELK 213 can be connected directly.



NIBE SPIS

Double-jacketed water heater. Accumulator tank.

- Volume 500/650/800/1000 litres
- Corrosion-resistant lining Copper

The water heater consists of a hot water tank and a double-jacketed area of sheet metal. The water tank has an internal copper corrosion-resistant lining. To achieve an even distribution of primary water over the heat-transferring surfaces, the double-jacketed area is fitted with guide rails.

The water tank's insulation consists of 60 mm mineral wool.

The outer shell of the 500-litre model is made of galvanised, plastic-coated sheet metal. Other sizes are clad in lacquered wood panel.

The pressure vessel is designed and manufactured for a maximum cut-off pressure in the hot water tank of 9 bar and in the double-jacketed area of 3 bar.

The water heater is fitted with compression ring couplings and internally threaded connections, as well as flanged connections for installation of immersion heater model ELK 213.

The water heater is designed for standing.

The heater must be supplied with shut-off, non-return, safety and vacuum valves according to applicable norms. A drain valve should also be installed to facilitate draining.

On the hot water side, the water heater must be fitted with a mixer valve, which limits the temperature to 60°C.

If this valve is not fitted, some other measure must be taken to prevent the risk of scalding.

For volumes above 500 litres, the heater must be fitted with a thermometer and pressure gauge.

The water heater is equipped with a lifting eye.



NIBE VPA/VPAS

Hot water tank for detached houses with heat pump.

- Volume VPA 200/70, 300/200, 450/300 litres
VPAS 300/450 litres
- Corrosion-resistant lining Copper, enamel

NIBE VPA is an accumulator tank that is designed primarily to be connected to a heat pump. The VPA stores hot water and is used together with the heating pump models without water heaters, or when there is a high demand for hot water.

The VPAS gives you the same function, but as it is fitted with a solar loop you can use solar energy for both heating and hot water.

The accumulator tank consists of a hot water tank with anti-corrosion protection made of copper or enamel. The water tank's insulation consists of polyurethane, which provides very good heat insulation.

The VPA 200/70 has a limitation on the heat pump output of max. 12 kW.

The VPAS has a solar loop of 2.3 m².



NIBE PCU-R

For holiday homes and smaller houses. For indirect heating with stainless coil.

- Volume 80/100/120 litres
- Corrosion-resistant lining Stainless

The PCU-R 80/100/120 is used for indirect heating with the coil. By connecting the coil to an existing boiler water system, the PCU-R can be used for gas-, oil- or wood-fired operation when a short heating up time is required. The PCU-R can also be connected to a boiler to replace the inbuilt water heater or the pipe coil, if this fails. The fact that the PCU-R can be installed either standing (connections upward) or wall-mounted (connections downward) means that it is easy to position.

The water heater's container is made of stainless steel and has a stainless steel coil. The outer casing is made from powder-coated sheet metal with sides of durable plastic. The container is designed for a maximum cut-off pressure of 9 bar (0.9 MPa), which is the equivalent to a design pressure in compliance with current standards of 10 bar (1.0 MPa). Maximum pressure in the coil is 16 bar (1.6 MPa).

The water tank is insulated with EPS (environment-friendly cellular plastic), which provides good thermal insulation. Note! The supply temperature to the coil may not exceed 95°C.



NIBE PEL

Water heater for indirect heating with coil circuit and direct heating using an immersion heater

- Volume 100/150 litres
- Corrosion-resistant lining Enamel

The NIBE PEL water heater consists of a container with enamel corrosion protection. The construction is calculated for a working pressure of 10 bar in the water container. The water is heated by an external heating source through a coil circuit. Maximum pressure in the coil circuit is 16 bar. Maximum permitted temperature is 95°C.

Thermal insulation is provided by seamless CFC-free polyurethane, which gives minimum heat loss. The shell consists of powder-coated sheet steel with ends of impact resistant polystyrene.

Electric module consisting of immersion heater, thermostat/thermal cut-out is included.

The water heater is wall-mounted vertically (connections downward) using the bracket supplied, which is screwed into place first. The heater is then mounted on the bracket. Use the adjustable support to align the heater in the correct position. The supplied thermometer is mounted in the pocket tube on the front of the heater.

There must be a free area of 350 mm under the heater for maintenance and services access.

The heater is equipped with external threaded connections.

There is a temperature limiting plate on the thermostat shaft to ensure the temperature is maximised at around 60°C. If this is removed the temperature can be increased to around 80°C.

All equipment is fitted in accordance with applicable standards at the site where the heater is installed. Safety and valve equipment must be installed in accordance with current norms and directives. This equipment is not supplied.

The inlet temperature to the coil circuit must not exceed 95°C.



NIBE PUB

Water heater for indirect heating.

- Volume 160/210/300/500 litres
- Corrosion-resistant lining Copper

The water heater consists of a steel container with an internal copper corrosion-resistant lining. The outer casing is manufactured in robust plastic. The water heater is insulated with freon-free polyurethane foam, which provides excellent heat insulation. The insulation on the PUB 500 is detachable, to facilitate handling in tight spaces (Ø670 mm without insulation).

The heater is designed and manufactured for a maximum cut-off pressure of 9 bar.

Maximum pressure in the coil is 20 bar.

The water heater is installed standing vertical and can be levelled on adjustable feet.

The following measures must be implemented on the cold water side: safety valve, non-return valve, shut-off valve and vacuum valve. The water heater is fitted with a drain valve.

A mixer valve must be fitted on the hot water side so that the outgoing hot water temperature is limited to 60°C. If this valve is not fitted, another method must be used to prevent the risk of scalding.

The water heater's hot and cold water connections and the coil's inlet and outlet are smooth copper pipes. A support bush must always be used when installing the compression ring coupling. There is a pocket tube for the thermostat between the coil's forward and return connections on the jacket.



NIBE QS

Water heaters for indirect heating with an enamelled coil circuit

- Volume 300/500 litres
- Corrosion-resistant lining Enamel

The QS water heater is a high-class product with superior performance. The heater features a purpose-built heating coil to provide efficient heating of industrial water in order to ensure sufficient amounts of hot water. The heater is equipped with a side flange for cleaning purposes. The QS range is completely insulated with CFC-free EPS cups. This minimises the heat loss and the running costs. The water heater is also made from steel, enamelled, and fitted with an anode in order to prevent corrosion and ensure a long service life.

The inside of the QS is covered with a unique enamel which has been annealed to produce a hard and impervious surface at temperatures of up to 860°C. This super-hard surface helps prevent limescale, zoogloal film and other types of scaling – even after several years of operation. This improves hygiene and leads to a long life. Along with the anode, this protects the heater from corrosion.

The large enamelled-steel coils consist of pipes designed to provide maximum cooling of the district or central heating water with a minimum pressure drop. This produces a sound operating economy. The QS is easy to install and maintain. The QS may be used for district heating and solar purposes and in connection with oil and gas-fired boilers.



NIBE QMS

Water heaters for indirect heating with two enamelled coil circuits

- Volume 300/400 litres
- Corrosion-resistant lining Enamel

The QMS water heater is a high-class product with superior performance. The heater features two purpose-built heating coils to provide efficient heating of industrial water in order to ensure sufficient amounts of hot water.

The heater is equipped with a side flange for cleaning purposes. The QMS range is completely insulated with CFC-free EPS cups. This minimises the heat loss and operating costs. The water heater is also enamelled and fitted with an anode in order to prevent corrosion and ensure a long service life. The QMS is easy to install and maintain.

The inside of the QMS is covered with a unique enamel which has been annealed to produce a hard and impervious surface at temperatures of up to 860°C. This super-hard surface restrains limescale, zoogloal film, and other types of scaling – even after several years of operation. This improves the hygiene and leads to a long life. Along with the anode, this protects the heater from corrosion.

The large enamelled steel coils consist of pipes designed to provide maximum cooling of the primary side with minimum pressure drop, altogether ensuring sound running costs. The QMS is designed to heat industrial water by means of solar energy and district/central heating as a supplement. The QMS may be used for district heating purposes and in connection with oil and gas-fired boilers.



NIBE UKV

Surge vessel for detached house with heat pump.

- Volume 40/100/200/300/500 litres
- Max operating pressure 6 bar
- Working temperature 16–95°C

The NIBE UKV is a surge vessel used together with heat pumps to increase the volume of water in the system for a more even operation.

The UKV can be used as a normal buffer upstream or downstream or connected to the heat pump in order to avoid a blockage in circulation.

The UKV 40 is available with or without a spiral for connection to a heating device.

All UKV models are designed for maximum operating conditions of 6 bar and 95°C.

The UKV 40 and 100 are designed for wall hanging. UKV 40 is top, bottom and side connected. The UKV 100 has the connections on the top and bottom. The UKV 200, 300 and 500 are side connected and floor standing.

Accessories



NIBE PLEX

Tap water exchanger.

- Max. operating pressure 3.0 MPa
- Max. operating temperature 185°C
- Min. operating temperature -195°C

The PLEX is a plate heat exchanger with plates manufactured from acid-resistant steel (SS 23 43). PLEX is available in seven different models.

Insulation, consisting of two 30 mm-thick, moulded halves of polyurethane foam, corresponding to approx. 70 mm mineral wool, is included.

The surface is covered by ABS plastic.



NIBE AKIL/ASIL

Accumulator tanks for detached houses, rented homes, industrial premises, leisure facilities.

- Volume 500 litres
- Net weight 122/110 kg
- Working pressure 9/6 bar

The AKIL 500 is a copper-based steel container for hot water storage in large properties with narrow inlet opening and low ceilings.

The ASIL 500 is a steel container for storing heating water or for use as a refrigerant tank, for example in large properties with narrow inlet opening and low ceilings.

The accumulator is designed for horizontal installation and can be stacked vertically (maximum 3 units) as a simple way of achieving a high volume in spaces that are otherwise difficult to make use of. All connections are located at one end, to make it easy to connect in parallel.

Both AKIL and ASIL are supplied with 40 mm insulation made of moulded, freon-free polyurethane on the sides and the connection-free end, while the end with the connections is insulated by means of two cellular plastic halves.

If you want to limit the storage of hot tap water and the boiler output in systems where low water-usage levels are combined with short-term levels of high usage, for example, in apartment blocks, sports halls, schools, etc., you can use the AKIL 500 with a heat exchanger. To make installation flexible, the AKIL 500 and the heat exchanger are supplied as separate units.

Compare our water heaters

Here is a simple table to compare the versions, functions and specifications of the various models.

MODEL		HK 15	NIBETTE 15	EMINENT 35	EMINENT 55	EMINENT 100
Corrosion-resistant lining material		Stainless steel	Copper	Enamel, Copper, Stainless steel	Enamel, Copper, Stainless steel	Enamel, Copper, Stainless steel
Heat content 80°C	kWh	1.2	1.2	2.4	4.5	8.1
Heating-up time to 45°C at 1.0/3.0 kW	hours	0.6/0.2	0.6/0.2	1.4/0.5	2.3/0.8	4.1/1.4
Heating-up time to 80°C at 1.0/3.0 kW	hours	1.2/0.4	1.2/0.4	2.9/1.0	4.5/1.5	8.1/2.7
Volume	litres	15	15	35	55	100
Net weight	kg	15	18	19/21/17	25/28/22	36/40/31
Height	mm	390	390	565	750	1120
Width	mm	390	390	467	467	467
Depth	mm	288	288	455	455	455
Anode length (only Eminent Enamel)	mm			165	280	435
Power	kW	1/3	1/3	1/3	1/3	1/3
Fuses required at 1.0/3.0 kW	A	6/10	6/10	6/10	6/10	6/10
Voltage		400 VAC 2-phase or 230 VAC				
Enclosure class		IP24				

MODEL		HOT 40	HOT 60	HOT 80	HOT 100	HOT 120
Corrosion-resistant lining material		Enamel	Enamel	Enamel	Enamel	Enamel
Heating-up time to 75°C	hours	2.2	3.3	4.5	5.6	6.7
Heat content at 80°C	kWh	3.2	4.8	6.5	8.1	9.7
Volume	litres	40	60	80	100	120
Net weight	kg	18	23	28	33	38
Height	mm	525	685	845	1007	1170
Diameter	mm	450	450	450	450	450
Anode length	mm	200	320	460	460	540
Power	kW	1.6	1.6	1.6	1.6	1.6
Fuses required	A	10	10	10	10	10
Voltage		230 VAC				
Enclosure class		IP24				

MODEL		COMPACT 100	COMPACT 150	COMPACT 200	COMPACT 300	COMPACT SOL 300
Corrosion-resistant lining material		Copper	Stainless steel	Enamel, Copper, stainless steel	Enamel, Copper, stainless steel	Enamel, Copper, stainless steel
Heat content 80°C	kWh	8.1	11.8	15.1	22.4	22.4
Heating-up time to 45°C at 1.0/3.0 kW	hours	4.0/1.5	6.0/2.0	8.0/2.5	11.5/4.0	11.5/4.0
Heating-up time to 80°C at 1.0/3.0 kW	hours	8.0/3.0	12.0/4.0	15.5/5.0	22.5/7.5	22.5/7.5
Volume	litres	90	145	185	275	275
Net weight	kg	62	56	91/95/67	117/122/87	125
Height	mm	820	1120	1310	1710	1710
Width	mm	600	600	600	600	600
Depth	mm	615	615	615	615	615
Anode length (only Compact Enamel)	mm	–	–	570	775	
Power	kW	1/3				
Fuses required at 1.0/3.0 kW	A	6/10				
Voltage		400 VAC 2-phase or 230 VAC				
Enclosure class		IP24				

MODEL	ES 160		ES 210		ES 300		ES 500		EL 150			EL 230			EL 300			
Corrosion-resistant lining material	Copper		Copper		Copper		Copper		Stainless steel			Stainless steel			Stainless steel			
Power	kW	1	3	1	3	1	3	3	6	2	3	6	2	3	6	2	3	6
Fuses required at 1.0/3.0 kW	A	6	10	6	10	6	10	10	10	10	6	10	10	6	10	10	6	10
Heating-up time to 45°C	hours	6.5	2.5	8.5	3.0	11.0	4.0	7.0	3.5	3.0	2.0	1.0	5.0	3.5	2.0	6.0	4.0	2.0
Heating-up time to 80°C	hours	13.0	4.5	16.5	5.5	22.0	7.5	14.0	7.0	6.0	4.0	2.0	10.0	6.5	3.5	12.0	8.0	4.0
Heat content 80°C	kWh	14.8		18.6		25.1		46.5		13.9			21.3			27.9		
Volume	litres	160		200		270		500		150			230			300		
Net weight	kg	55		70		85		140		54			67			76		
Height	mm	980		1210		1380		1700		701			701			701		
Diameter	mm	600		600		600		750										
Length	mm									905			1335			1615		
Voltage		400 VAC 2-phase or 230 VAC						400 VAC 3-phase		400 VAC 3-phase or 230 VAC								
Enclosure class								IP24										

MODEL	EKS 500		EKS 750		EKS 1000		
Corrosion-resistant lining material	Copper		Copper		Copper		
Volume	litres	500		740		1000	
Net weight	kg	150		185		360	
Height	mm	1750		1970		1955	
Diameter	mm	750		850		1050	
Max output	kW	9 + 9		9 + 9 + 9		10,5 + 10,5	

MODEL	SP 110		SP 150		SP 200		SP 300		
Corrosion-resistant lining material	Copper		Copper		Copper		Copper		
Heat transfer rate (80°C)	Mcal/h – kWh	9 – 10		13 – 15		15 – 17		17 – 20	
Thermal capacity (70°C)	Mcal/h – kWh	7.7 – 9.0		11 – 12		14 – 16		21 – 24	
Volume	litres	110		150		200		300	
Volume, outer jacket	litres	12		18		22		22	
Net weight	kg	70		100		120		150	
Length	mm	920		1220		1220		1220	
Diameter	mm	510		510		590		680	

MODEL	SPIS 500		SPIS 650		SPIS 800		SPIS 1000		
Corrosion-resistant lining material	Copper		Copper		Copper		Copper		
Heat transfer rate (80°C)	Mcal/h – kWh	28 – 33		33 – 38		31 – 36		35 – 41	
Thermal capacity (70°C)	Mcal/h – kWh	35 – 40		45 – 52		56 – 65		70 – 81	
Volume	litres	500		650		800		1000	
Volume, outer jacket	litres	36		30		32		37	
Net weight	kg	250		350		360		425	
Height	mm	1845		2025		1915		1955	
Diameter	mm	800		850		950		1050	

MODEL		VPA 200/70	VPA 300/200	VPA 450/300	VPAS 300/450
Corrosion-resistant lining material		Copper	Copper, Enamel	Copper, Enamel	Copper
Heat transfer (55/45 – 10/45°C)	kWh	8.2	10.0	14.5	10.0
Heat content at 50°C	kWh	11.9	16.6	25.8	17.4
Volume, vessel	litres	205	285	444	300
Volume, outer jacket	litres	66	194	283	450
Net weight	kg	150	180	285	315
Height	mm	1520	1700	2000	2000
Width	mm	600	–	–	–
Depth/Diameter	mm	615	750	850	860
Max immersion heater length	mm	540	580	750	750

MODEL		PCU 80	PCU 100	PCU 120
Corrosion-resistant lining material		Stainless steel	Stainless steel	Stainless steel
The coil's pipe length	m	8	10	13
The coil's heating surface	m ²	0,55	0,7	0,9
Performance, 80/10 - 45°C	l/h	470	520	640
Output, 80/10 - 45°C	kW	20	22	27
Heating-up time to 45°C	min	approx. 14		
Net weight	kg	31	36	41
Height	mm	880	1065	1250
Width	mm	470		
Depth	mm	455		

MODEL		PEL 100	PEL 150
Corrosion-resistant lining material		Enamel	Enamel
Max operating pressure	bar	8	8
Steel coil heat exchanger	m ²	0.8	0.8
Height	mm	897	1247
Width/Depth	mm	470/470	470/470
Power	kW	1.6	1.6
Voltage		230 VAC	
Enclosure class		IP24	

MODEL		PUB 160	PUB 210	PUB 300	PUB 500
Corrosion-resistant lining material		Copper	Copper	Copper	Copper
Continuous HW capacity	litres/h 45°C	650	775	1150	1150
Accumulated heat content	Mcal/kWh	9.9/11.3	12.6/14.4	18.9/21.6	31.5/36.0
Heat transfer	kW	28	32	46	46
Coil length/heating surface	m/m ²	10/0.7	12/0.8	17/1.2	17/1.2
Volume	litres	160	200	270	500
Net weight	kg	65	76	94	160
Height	mm	980	1210	1380	1695
Diameter	mm	600	600	600	750

MODEL		QS 300	QS 500	QMS 300	QMS 400
Corrosion-resistant lining material		Enamel	Enamel	Enamel	Enamel
Batter/heating surface	m ²	1.55/–	2.1/–	–/1.55	–/2.1
Continuous tapping 80/10 – 45°C	l/h	1000	1265	1000	1265
Output primary flow 1.500 l/h 80/10 – 45°C	kW	41	52	41	52
Continuous tapping 1.500 l/h 80/10 – 60°C	kW	33	43	33	43
Heating time to 60°C	min	32	40	32	40
Volume	litres	295	495	295	390
Net weight	kg	145	205	145	205
Height	mm	1587	1762	786	786
Diameter	mm	650	750	650	725



Water heater capacities

NIBE NIBETTE	25 litres
NIBE EMINENT 35	60 litres **
NIBE EMINENT 55	100 litres **
NIBE EMINENT 100	200 litres **
NIBE COMPACT 100	200 litres
NIBE COMPACT 150	335 litres
NIBE COMPACT 200	430 litres
NIBE COMPACT 300	580 litres
NIBE COMPACT SOL	580 litres
ES 160	340 litres
ES 210	440 litres
ES 300	580 litres
ES 500	1050 litres
EL 150	265 litres
EL 230	380 litres
EL 300	465 litres

Water consumption* of some common activities in the home

Normal shower lasting 3 – 4 minutes	40 litres
Bath (standard bath tub)	140 litres
Washing-up by hand	15 litres

Total water consumption* in normal householder per day

Two adults and one child	400 - 500 litres
Two adults and two children	500 - 650 litres
Large family	650+ litres

* Valid for incoming cold water temperature of 10°C and outgoing hot water temperature of 40°C, a max. flow of 12 litres per minute and the thermostat set to 80°C.

** Valid for hanging vertical installation.

An easy way to order water heaters

You can contact your local NIBE office at www.nibe.eu. They will help you to locate your local NIBE installer.



NIBE EMINENT

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