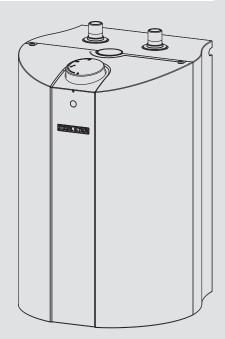
OPERATION AND INSTALLATION UTILISATION ET INSTALLATION GEBRUIK EN INSTALLATIE OBSŁUGA I INSTALACJA ЭКСПЛУАТАЦИЯ И УСТАНОВКА

Sealed unvented (pressurised) small water heater | Petit chauffe-eau ECS (sous pression) | Gesloten (drukvaste), kleine warmwaterboiler | Mały, ciśnieniowy, pojemnościowy ogrzewacz | Малогабаритный накопительный водонагреватель закрытого типа (напорный)

- » SHC 10
- » SHC 10 GB Eltron
- » SHC 15 Stiebel
- » SHC 15 GB Eltron



STIEBEL ELTRON

SPECIAL INFORMATION

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GUARANTEE

ENVIRONMENT AND RECYCLING

SPECIAL INFORMATION

- The appliance may be used by children aged 8 and older and persons with reduced physical, sensory or mental capabilities or a lack of experience and know-how, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the resulting risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.
- When permanently connected to the power supply using a dedicated junction box, the appliance must be able to be isolated from the mains power supply by an isolator that disconnects all poles with at least 3 mm contact separation.
- The power cable may only be replaced (for example if damaged) by a qualified contractor authorised by the manufacturer, using an original spare part.
- Secure the appliance as described in chapter "Installation / Installation".
- Observe the maximum permissible pressure (see chapter "Installation / Specification / Data table").
- Drain the appliance as described in chapter "Installation / Maintenance / Draining the appliance".
- The appliance is pressurised. During the heat-up process, expansion water will drip from the safety valve.

OPERATION General information

- Regularly activate the safety valve to prevent it from becoming blocked, e.g. by limescale deposits.
- Install a type-tested safety valve in the cold water supply line. Depending on the supply pressure, you may also need a pressure reducing valve.
- Size the drain pipe so that water can drain off unimpeded when the safety valve is fully opened.
- Fit the drain pipe of the safety valve with a constant downward slope and in a room free from the risk of frost.
- The safety valve drain must remain open to the atmosphere.

OPERATION

General information 1.

The chapters "Special Information" and "Operation" are intended for both the user and qualified contractors.

The chapter "Installation" is intended for gualified contractors.

Note

Read these instructions carefully before using the appliance and retain them for future reference. Pass on the instructions to a new user if required.

Safety instructions 1.1

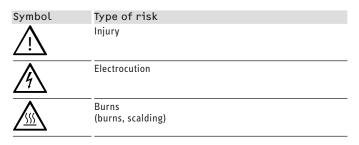
1.1.1 Structure of safety instructions



KEYWORD Type of risk

Here, possible consequences are listed that may result from failure to observe the safety instructions. Steps to prevent the risk are listed.

1.1.2 Symbols, type of risk



1.1.3 Keywords

KEYWORD	Meaning
DANGER	Failure to observe this information will result in serious injury or death.
WARNING	Failure to observe this information may result in serious injury or death.
CAUTION	Failure to observe this information may result in non-seri- ous or minor injury.

Other symbols in this documentation 1.2

Note 1

General information is identified by the adjacent symbol. Read these texts carefully.

Symbol	Meaning
(!)	Material losses (appliance damage, consequential losses and environmen- tal pollution)
	Appliance disposal

This symbol indicates that you have to do something. The action you need to take is described step by step.

1.3 Units of measurement

Note All measurements are given in mm unless stated otherwise.

Safety 2.

Intended use 2.1

This sealed unvented (pressurised) appliance is intended for heating domestic hot water. The appliance can supply one or more draw-off points.

This appliance is intended for domestic use. It can be used safely by untrained persons. The appliance can also be used in a non-domestic environment, e.g. in a small business, as long as it is used in the same way.

Any other use beyond that described shall be deemed inappropriate. Observation of these instructions and of instructions for any accessories used is also part of the correct use of this appliance.

OPERATION Appliance description

2.2 General safety instructions

WARNING Burns

During operation, the tap and safety valve can reach temperatures in excess of 60 °C.

There is a risk of scalding at outlet temperatures in excess of 43 °C.

WARNING Injury

The temperature selector should only be removed by a qualified contractor.



WARNING Injury

The appliance may be used by children aged 8 and older and persons with reduced physical, sensory or mental capabilities or a lack of experience and know-how, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the resulting risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.

Where children or persons with limited physical, sensory or mental abilities are allowed to use this appliance, we recommend a permanent temperature limit. A qualified contractor can set this limit.

(!)

Material losses

The user should protect the appliance, the water pipes, the safety valve and the tap against frost.

Material losses

If the drain pipe of the safety valve is sealed, expanding water can lead to water damage.

Never close the drain pipe.

2.3 Test symbols

See type plate on the appliance.

3. Appliance description

The appliance constantly keeps the water content available at the preselected temperature. The appliance switches on automatically as soon as its temperature falls below the set value.

Subject to season, varying cold water temperatures can result in different maximum mixed water and outlet volumes.

Note

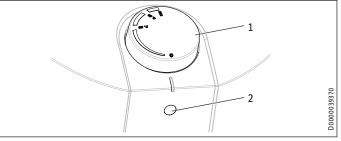
A qualified contractor can set a temperature limit on the appliance (see "Installation / Settings / Setting the temperature limit").

Note 💽

The appliance is under mains water pressure. The water volume increases as the cylinder is being heated up. During this process, expansion water drips through the safety valve. This is a necessary and normal process.

3.1 Settings

You can set any required DHW outlet temperature at the temperature selector. The heat-up indicator illuminates during the heat-up process.



1 Temperature selector

2 Heat-up indicator

Depending on the system, the actual temperatures may vary from the set value.

- Cold. On this setting, the appliance is protected from frost. The tap, water lines and safety valve are not protected.
- MAX = Highest selectable temperature

4. Cleaning, care and maintenance

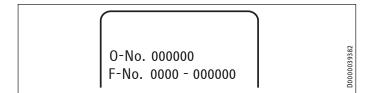
- Never use abrasive or corrosive cleaning agents. A damp cloth is sufficient for cleaning the appliance.
- Check the taps regularly. Limescale deposits at the tap outlets can be removed using commercially available descaling agents.
- Regularly activate the safety valve to prevent it from becoming blocked, e.g. by limescale deposits.
- Have the protective anode checked by a qualified contractor after the first 2 years of operation. The qualified contractor will then determine the intervals at which it must be checked thereafter.

Almost every type of water will deposit limescale at high temperatures. This settles inside the appliance and affects both the performance and service life. The heating elements should therefore be descaled if necessary. A qualified contractor who is aware of the local water quality will tell you when the next descaling is due.

5. Troubleshooting

Problem	Cause	Remedy
The appliance does not supply hot water.	The temperature selector is set to "*".	Switch the appliance ON by turning the temperature selector.
	No power at the appliance.	Check the plug / fuses in the fuse box.
Water can only be drawn at a reduced rate.	The aerator in the tap is scaled up or dirty.	Descale / replace the aerator.
Loud boiling noises in- side the appliance.	The appliance is scaled up.	Have the appliance descaled by a qualified contractor.
Water drips from the safety valve after heat-up.	The safety valve is scaled up or dirty.	Switch the appliance off. Depressur- ise the appliance by disconnecting it from the power and water supply. Have the safety valve checked by a qualified contractor.

If you cannot remedy the fault, notify your qualified contractor. To facilitate and speed up your enquiry, please provide the serial number from the type plate. (000000):



INSTALLATION

ENGLISH

6. Safety

Only a qualified contractor should carry out installation, commissioning, maintenance and repair of the appliance.

6.1 General safety instructions

We guarantee trouble-free function and operational reliability only if original accessories and spare parts intended for the appliance are used.

6.2 Instructions, standards and regulations

Note

Ubserve all applicable national and regional regulations and instructions.

7. Appliance description

The sealed unvented (pressurised) appliance is only suitable for undersink installation. The appliance is intended for heating cold water and to supply one or several draw-off points.

The appliance may only be installed with pressure taps in conjunction with a type-tested safety valve (see chapter "Installation / Appliance description / Standard delivery").

The type-tested safety valve protects the appliance against unacceptable excess pressure.

The enamelled internal steel cylinder is equipped with a protective anode. The protective anode protects the inner cylinder against corrosion.

7.1 Standard delivery

The following are delivered with the appliance:

- Wall mounting bracket

SHC 10 | SHC 15 Stiebel

- Two reducers from G 1/2 to G 3/8

SHC 10 GB Eltron | SHC 15 GB Eltron

- Two locking ring fittings G 1/2 x 15

7.2 Accessories

SHC 10 | SHC 15 Stiebel

- Safety assembly G 1/2 (optional)

Preparations 8.

Water installation

A type-tested safety valve is required.

The appliance is engineered for a design pressure of 0.6 MPa. The safety valve must prevent the water pressure in the cylinder from exceeding the design pressure by more than 0.1 MPa.

Taps

Only install pressure taps in conjunction with the safety valve.

Installation site 8.1

Material losses

Install the appliance in a room free from the risk of frost.

Material losses

Mount the appliance on the wall. The wall must have a sufficient load-bearing capacity.

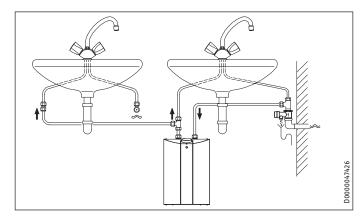
Material losses

The appliance is only suitable for undersink installation. The water connections of the appliance point upwards.

Note i

Ensure that the appliance is freely accessible for maintenance work.

Always install the appliance vertically and near the draw-off point.



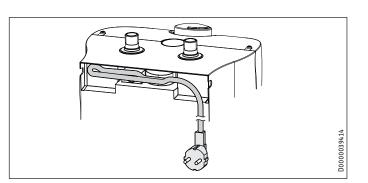
Installation 9.

9.1 **Appliance installation**

- Mark out the holes to be drilled on the wall (see chapter "Installation / Specification / Dimensions and connections").
- Drill the holes and insert suitable rawl plugs.
- Secure the wall mounting bracket using suitable screws.
- Hang the appliance on the wall mounting bracket.

Note

June Surplus cable can be stored in the cable compartment.



9.2 Safety valve installation

- ▶ Install the safety valve in the cold water supply line of the appliance.
- Size the drain pipe so that water can drain off unimpeded when the safety valve is fully opened.
- ▶ Fit the drain pipe of the safety valve with a constant downward slope and in a room free from the risk of frost.
- The safety valve drain must remain open to the atmosphere.
- ▶ Fit a pressure reducing valve upstream of the safety valve in the cold water supply line if the supply pressure is > 0.48 MPa.

Water connection 9.3

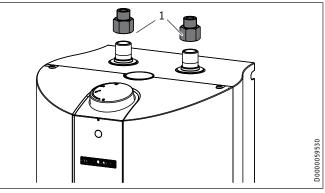
Material losses ļ

Carry out all water connection and installation work in accordance with regulations.

Material losses

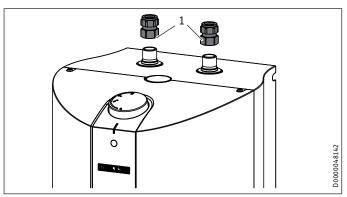
- The appliance may lose its function.
 - Never interchange the water connections.
 - ▶ Set the flow rate (see tap instructions). Observe the maximum permissible flow rate with a fully opened tap (see chapter "Installation / Specification / Data table").
 - Only install pressure taps in conjunction with the safety valve.
- Observe the maximum permissible pressure (see chapter "Installation / Specification / Data table").
- ▶ If necessary, fit the reducers/locking ring fittings (part of the standard delivery) to the appliance connectors:

SHC 10 | SHC 15 Stiebel



Reducers from G 1/2 to G 3/8 1

SHC 10 GB Eltron | SHC 15 GB Eltron



- 2 Locking ring fittings G 1/2 x 15
- Match up the colour coding on the water connections of the tap and the appliance:
- R.h. side blue = "Cold water inlet"
- L.h. side red = "DHW outlet"
- ► Secure the water connections from the tap to the appliance.

Note

Ensure that the water connections are not kinked during installation. Prevent any tensioning during installation.

9.4 Power supply

WARNING ELECTROCUTION

Carry out all electrical connection and installation work in accordance with relevant regulations.

WARNING ELECTROCUTION

When permanently connected to the power supply using a dedicated junction box, the appliance must be able to be isolated from the mains power supply by an isolator that disconnects all poles with at least 3 mm contact separation.



WARNING ELECTROCUTION

Ensure that the appliance is earthed.

Material losses

The voltage specified on the type plate must match the mains voltage.

Observe the type plate.

The following electrical connections are permissible:

	SHC 10	SHC 10 GB Eltron		SHC 15 GB Eltron
Connection to a freely acces- sible standard socket with matching plug	Х	-	Х	-
Permanent connection to an appliance junction box with earth conductor	X	X	Х	X

10. Commissioning



WARNING ELECTROCUTION Commissioning may only be carried out by a qualified contractor in accordance with safety regulations.

10.1 Initial start-up



- Either open the DHW valve of the tap or set the mono lever mixer tap to "hot" until the water that flows out is free of air bubbles.
- ► Turn the temperature selector to maximum.
- Insert the plug into the standard socket or set the fuse/MCB in the fuse box.
- Check the function of the appliance. Ensure that the temperature controller switches off.
- Check that the safety valve is working correctly.
- Check the entire hydraulic installation for tightness.

Note

- If you fail to follow the correct sequence (first water, then power), the high limit safety cut-out will trip. Proceed as follows:
 - Make the high limit safety cut-out operational by pressing the reset button (see chapter "Installation / Troubleshooting / Activating the high limit safety cut-out").

10.1.1 Appliance handover

- Explain the functions of the appliance to the user. Show the user how to operate the appliance.
- Make the user aware of potential dangers, especially the risk of scalding.
- Hand over these instructions and, if applicable, the instructions for any accessories.

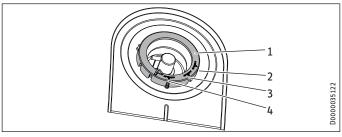
10.2 Recommissioning

See chapter "Installation / Commissioning / Initial start-up".

INSTALLATION Settings

11. Settings

11.1 Setting the temperature limit



1 Limiting ring

Temperature settings:

- 2 38 °C
- 3 49 °C
- 4 65 °C

Placing the limiting ring behind the temperature selector allows you to limit the setting range of the temperature selector to a specific maximum temperature.

- ► Turn the temperature selector to zero (fully to "*").
- ▶ Pull off the temperature selector and the limiting ring.
- Push the limiting ring with the required maximum setting onto the appliance cover.
- Install the temperature selector set to zero ("*").

12. Shutdown

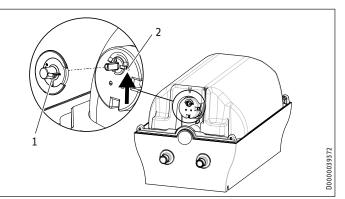
- Isolate the appliance from the power supply by removing the plug or by tripping the MCB in the fuse box.
- Drain the appliance (see chapter "Installation / Maintenance / Draining the appliance").

13. Troubleshooting

Fault	Cause	Remedy
The appliance does not supply hot water.	0 ,	Remedy the cause of the fault. If necessary, replace the com- bined temperature controller / high limit safety cut-out. Make the high limit safety cut-out operational by pressing the reset button on the high limit safety cut-out (see chapter "Installation / Troubleshooting / Activating the high limit safety cut-out").
	The controller is faulty.	Replace the combined tem- perature controller / high limit safety cut-out.
	The flanged immersion heater is faulty.	Replace the flanged immersion heater.
Loud boiling noises inside the appliance.	The appliance is scaled up.	Descale the appliance.
Water drips from the safety valve after heat-up.	The safety valve is scaled up or dirty.	Clean / descale the valve seat.

13.1 Activate high limit safety cut-out

- Open the appliance (see chapter "Installation / Maintenance / Opening the appliance").
- ▶ Pull off the adaptor.
- Press the reset button on the high limit safety cut-out.
- ► Fit the adaptor.
- ► Close the appliance cover.
- ► Fit the limiting ring and temperature selector.



- 1 Adaptor
- 2 Reset button, high limit safety cut-out

14. Maintenance

WARNING ELECTROCUTION

Before any work on the appliance, disconnect all poles of the appliance from the power supply.

► Dismantle the appliance for maintenance work.

14.1 Checking the safety valve

• Check the function of the safety valve regularly.

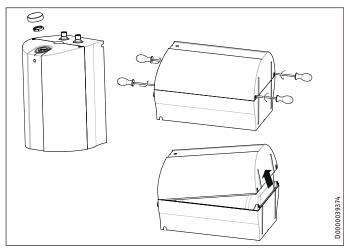
14.2 Draining the appliance

WARNING Burns

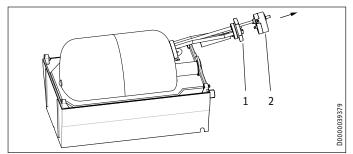
 $\frac{M}{M}$ Hot water may escape during the draining process.

Drain the appliance via its connectors.

14.3 Opening the appliance

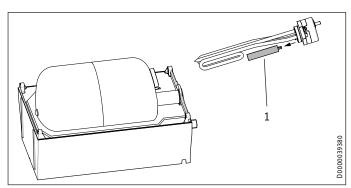


- ▶ Pull off the temperature selector and the limiting ring.
- ▶ Remove the 4 screws from the casing.
- Open the appliance cover by pivoting the cover upwards and then removing it.
- ▶ Remove the upper insulation semi-shell if required.
- 14.4 Removing the flanged immersion heater and temperature controller / high limit safety cutout



- 1 Flanged immersion heater
- 2 Combined temperature controller / high limit safety cut-out
- Remove the combined temperature controller / high limit safety cut-out from the flanged immersion heater.
- ▶ Remove the flanged immersion heater.

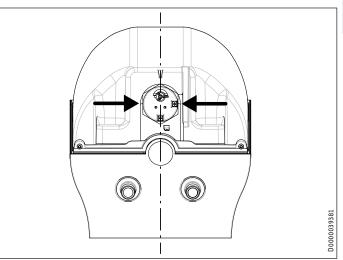
14.5 Removing the protective anode



1 Protective anode

► Remove the protective anode.

14.6 Fitting the flanged immersion heater and temperature controller / high limit safety cutout



- Insert the flanged immersion heater into the cylinder aperture well as far as it will go.
- Push the combined temperature controller / high limit safety cut-out into the flanged immersion heater as far as it will go.
- Align the flanged immersion heater and the combined temperature controller / high limit safety cut-out in accordance with the diagram.

14.7 Descaling the appliance

Material losses

) Never treat the protective anode with descaling agents.

- Remove the flanged immersion heater (see chapter "Installation / Maintenance / Flanged immersion heater and temperature controller / Removing the high limit safety cut-out").
- Remove the protective anode (see chapter "Installation / Maintenance / Removing the protective anode").
- Carefully tap the heating element to remove coarse limescale deposits.
- Immerse the heating element up to the flange plate in descaling agent.

14.8 Checking the protective anode

- Check the protective anode for the first time 2 years after installation. This requires removal of the flanged immersion heater. Replace the protective anode if consumed.
- Decide the intervals in which further checks should be carried out.

14.9 Replacing the power cable

The power cable must only be replaced by a qualified contractor with an original spare part.

14.10 Checking the earth conductor

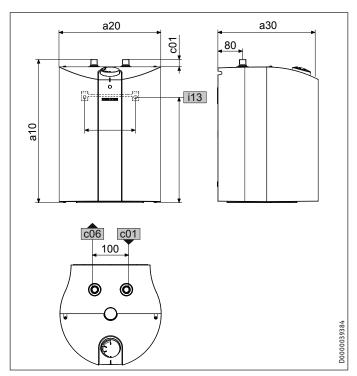
Check the earth conductor (in Germany BGV A3 for example) across a water connector and the earth conductor contact of the power cable.

INSTALLATION Specification

15. Specification

15.1 Dimensions and connections

SHC 10 | SHC 15 Stiebel

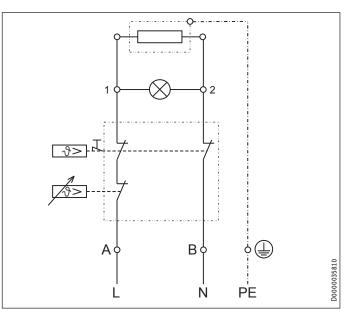


				SHC 10	SHC 10 GB Eltron
a10	Appliance	Height	mm	430	430
a20	Appliance	Width	mm	280	280
a30	Appliance	Depth	mm	270	270
c01	Cold water inlet	Male thread		G 1/2 A	G 1/2 A
		Top clearance	mm	26,5	26,5
c06	DHW outlet	Male thread		G 1/2 A	G 1/2 A
i13	Wall mounting bracket	Height	mm	320	320
		Hole spacing horizontal	mm	140	140

				SHC 15	SHC 15 GB Eltron
a10	Appliance	Height	mm	452	452
a20	Appliance	Width	mm	320	320
a30	Appliance	Depth	mm	318	318
c01	Cold water inlet	Male thread		G 1/2 A	G 1/2 A
		Top clearance	mm	23	23
c06	DHW outlet	Male thread		G 1/2 A	G 1/2 A
i13	Wall mounting bracket	Height	mm	342	342
		Hole spacing horizontal	mm	200	200

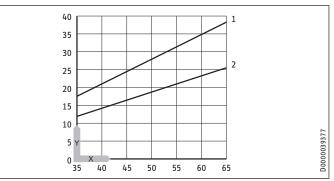
15.2 Wiring diagram

1/N/PE ~ 220-240 V



15.3 Heat-up diagram

The heat-up period depends on the degree of scaling and residual heat. For the heat-up time for a cold water supply at 10 °C and a maximum temperature setting, see the diagram.



- x Temperature in °C
- y Duration in min
- 1 15 | appliance
- 2 10 l appliance

15.4 Country-specific approvals and certifications

The test symbols can be seen on the type plate.

15.5 Extreme operating and fault conditions

In the case of faults, a peak temperature of up to 99 $^{\rm o}{\rm C}$ may briefly occur in the system.

15.6 Details on energy consumption

Product data complies with EU regulations relating to the Directive on the ecodesign of energy related products (ErP).

		SHC 10	SHC 10 GB Eltron	SHC 15	SHC 15 GB Eltron
		233747	235232	234337	234407
Manufacturer		STIEBEL ELTRON	STIEBEL ELTRON	STIEBEL ELTRON	STIEBEL ELTRON
Load profile		XXS	XXS	XXS	XXS
Energy efficiency class		A	А	A	A
Energy conversion efficiency	%	36	36	36	36
Annual power consumption	kWh	515	515	516	516
Default temperature setting	°C	55	55	55	55
Sound power level	dB(A)	15	15	15	15
Daily power consumption	kWh	2,419	2,419	2,421	2,421

15.7 Data table

		SHC 10 SHC 10 GB Eltron					Eltron	SHC 15			SHC 15 GB Eltron		
				233747			235232			234337		2	34407
Hydraulic data													
Nominal capacity	I			10	10		15		15			15	
Mixed water volume at 40 °C	<u> </u>	15.3				15.3			23			23	
Electrical data													
Rated voltage	V	220	230	240	220	230	240	220	230	240	220	230	240
Rated output	kW	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	1.6
Rated current	A	6.2	6.5	6.8	6.2	6.5	6.8	6.2	6.5	6.8	6.2	6.5	6.8
MCB/fuse rating	A	10	10	10	10	10	10	10	10	10	10	10	10
Phases				1/N/PE			1/N/PE			1/N/PE		1	/N/PE
Frequency	Hz			50/60			50/60			50/60			50/60
Application limits													
Temperature setting range	°C			30-65			30-65			30-65			30-65
Max. permissible pressure	MPa			0.6			0.6			0.6			0.6
Min. water inlet pressure	MPa			0.1			0.1			0.1			0.1
Max. water inlet pressure	MPa			0.6			0.6	0.6		0.6			0.6
Max. flow rate	l/min			10	10		10	10		10	10		10
Energy data													
Standby energy consumption/ 24 h at 65 °C	kWh			0.48			0.48			0.49			0.49
Energy efficiency class				A	A		A		A			A	
Versions													
IP rating				IP24 D			IP24 D			IP24 D		I	IP24 D
Type of installation			Un	dersink	Undersink		Undersink		dersink	Undersink			
Туре			Sealed ur	vented	Sealed unvented		Sealed unvented		nvented	Sealed unvented			
Internal cylinder material			Steel, ena	melled	Steel, enamelled		Steel, enamelled		amelled	Steel, enamelled		nelled	
Thermal insulation material				EPS			EPS	EPS		EPS	EPS		EPS
Casing material				PS			PS	PS		PS			PS
Colour				White			White			White			White
Connections													
Water connection				G 1/2 A			G 1/2 A			G 1/2 A		G	1/2 A
Dimensions													
Depth	mm			270			270			318			318
Height	mm			430			430			452			452
Width	mm			280			280	320		320	320		320
Weights													
Weight	kg			7.2			7.2			9.0			9.0

Guarantee

The guarantee conditions of our German companies do not apply to appliances acquired outside of Germany. In countries where our subsidiaries sell our products a guarantee can only be issued by those subsidiaries. Such guarantee is only granted if the subsidiary has issued its own terms of guarantee. No other guarantee will be granted.

We shall not provide any guarantee for appliances acquired in countries where we have no subsidiary to sell our products. This will not affect warranties issued by any importers.

Environment and recycling

We would ask you to help protect the environment. After use, dispose of the various materials in accordance with national regulations.

Deutschland

STIEBEL ELTRON GmbH & Co. KG Dr.-Stiebel-Straße 33 | 37603 Holzminden Tel. 05531 702-0 | Fax 05531 702-480 info@stiebel-eltron.de www.stiebel-eltron.de
 Verkauf
 Tel. 05531 702-110 | Fax 05531 702-95108 | info-center@stiebel-eltron.de

 Kundendienst
 Tel. 05531 702-111 | Fax 05531 702-95890 | kundendienst@stiebel-eltron.de

 Ersatzteilverkauf
 Tel. 05531 702-120 | Fax 05531 702-95335 | ersatzteile@stiebel-eltron.de

Australia

STIEBEL ELTRON Australia Pty. Ltd. 6 Prohasky Street | Port Melbourne VIC 3207 Tel. 03 9645-1833 | Fax 03 9645-4366 info@stiebel.com.au www.stiebel.com.au

Austria

STIEBEL ELTRON Ges.m.b.H. Eferdinger Str. 73 | 4600 Wels Tel. 07242 47367-0 | Fax 07242 47367-42 info@stiebel-eltron.at www.stiebel-eltron.at

Belgium

STIEBEL ELTRON bvba/sprl 't Hofveld 6 - D1 | 1702 Groot-Bijgaarden Tel. 02 42322-22 | Fax 02 42322-12 info@stiebel-eltron.be www.stiebel-eltron.be

China

STIEBEL ELTRON (Guangzhou) Electric Appliance Co., Ltd. Rm 102, F1, Yingbin-Yihao Mansion, No. 1 Yingbin Road Panyu District | 511431 Guangzhou Tel. 020 39162209 | Fax 020 39162203 info@stiebeleltron.cn www.stiebeleltron.cn

Czech Republic

STIEBEL ELTRON spol. s r.o. K Hájům 946 | 155 00 Praha 5 - Stodůlky Tel. 251116-111 | Fax 235512-122 info@stiebel-eltron.cz www.stiebel-eltron.cz

Finland

STIEBEL ELTRON OY Kapinakuja 1 | 04600 Mäntsälä Tel. 020 720-9988 info@stiebel-eltron.fi www.stiebel-eltron.fi

France

STIEBEL ELTRON SAS 7-9, rue des Selliers B.P 85107 | 57073 Metz-Cédex 3 Tel. 0387 7438-88 | Fax 0387 7468-26 info@stiebel-eltron.fr www.stiebel-eltron.fr

Hungary

STIEBEL ELTRON Kft. Gyár u. 2 | 2040 Budaörs Tel. 01 250-6055 | Fax 01 368-8097 info@stiebel-eltron.hu www.stiebel-eltron.hu

Japan

NIHON STIEBEL Co. Ltd. Kowa Kawasaki Nishiguchi Building 8F 66-2 Horikawa-Cho Saiwai-Ku | 212-0013 Kawasaki Tel. 044 540-3200 | Fax 044 540-3210 info@nihonstiebel.co.jp www.nihonstiebel.co.jp

Netherlands

STIEBEL ELTRON Nederland B.V. Daviottenweg 36 | 5222 BH 's-Hertogenbosch Tel. 073 623-0000 | Fax 073 623-1141 info@stiebel-eltron.nl www.stiebel-eltron.nl

Poland

STIEBEL ELTRON Polska Sp. z 0.0. ul. Działkowa 2 | 02-234 Warszawa Tel. 022 60920-30 | Fax 022 60920-29 biuro@stiebel-eltron.pl www.stiebel-eltron.pl

Russia

STIEBEL ELTRON LLC RUSSIA Urzhumskaya street 4, building 2 | 129343 Moscow Tel. 0495 7753889 | Fax 0495 7753887 info@stiebel-eltron.ru www.stiebel-eltron.ru

Slovakia

TATRAMAT - ohrievače vody s.r.o. Hlavná 1 | 058 01 Poprad Tel. 052 7127-125 | Fax 052 7127-148 info@stiebel-eltron.sk www.stiebel-eltron.sk

Switzerland

STIEBEL ELTRON AG Industrie West Gass 8 | 5242 Lupfig Tel. 056 4640-500 | Fax 056 4640-501 info@stiebel-eltron.ch www.stiebel-eltron.ch

Thailand

STIEBEL ELTRON Asia Ltd. 469 Moo 2 Tambol Klong-Jik Amphur Bangpa-In | 13160 Ayutthaya Tel. 035 220088 | Fax 035 221188 info@stiebeleltronasia.com www.stiebeleltronasia.com

United Kingdom and Ireland

STIEBEL ELTRON UK Ltd. Unit 12 Stadium Court Stadium Road | CH62 3RP Bromborough Tel. 0151 346-2300 | Fax 0151 334-2913 info@stiebel-eltron.co.uk www.stiebel-eltron.co.uk

United States of America

STIEBEL ELTRON, Inc. 17 West Street | 01088 West Hatfield MA Tel. 0413 247-3380 | Fax 0413 247-3369 info@stiebel-eltron-usa.com www.stiebel-eltron-usa.com

STIEBEL ELTRON

A 313444-39213-9129 B 317668-39213-9129



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