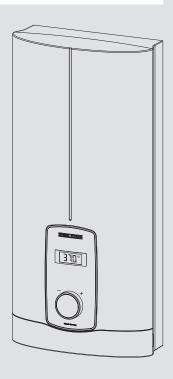
OPERATION AND INSTALLATION

Electronically controlled comfort instantaneous water heater

- » DHB-E 18/21/24 LCD SI
- » DHB-E 27 LCD SI



STIEBEL ELTRON

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GUARANTEE

ENVIRONMENT AND RECYCLING

SOFTWARE COPYRIGHT

SPECIAL INFORMATION

- The appliance may be used by children aged 3 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 potential risks. Children must never play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.
- During operation, the tap can reach temperatures up to 70 °C. There is a risk of scalding at outlet temperatures in excess of 43 °C.
- The appliance is suitable for supplying a shower (shower operation). If the appliance is also or exclusively used for shower operation, the qualified contractor must adjust the temperature setting range to 55 °C or less using the internal anti-scalding protection on the appliance. When using preheated water, it must be ensured that the inlet temperature does not exceed 55 °C.
- Ensure the appliance can be separated from the power supply by an isolator that disconnects all poles with at least 3 mm contact separation.
- The specified voltage must match the power supply.
- The appliance must be connected to earth.
- The appliance must be permanently connected to fixed wiring.
- Secure the appliance as described in chapter "Installation / Installation".
- Observe the maximum permissible pressure (see chapter "Installation / Specification / Data table").

- The specific water resistivity of the mains water supply must not be undershot (see chapter "Installation / Specification / Data table").
- Drain the appliance as described in chapter "Installation / Maintenance / Draining the appliance".

General information

OPERATION

1. General information

The chapters "Special information" and "Operation" are intended for appliance users and qualified contractors.

The chapter "Installation" is intended for qualified contractors.



Read these instructions carefully before using the appliance and retain them for future reference.

Pass on these instructions to a new user if required.

1.1 Safety instructions

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

Symbol	Type of risk
	Injury
A	Electrocution
	Burns (burns, scalding)

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-serious or minor injury.

1.2 Other symbols in this documentation



Note

General information is identified by the adjacent symbol.

Read these texts carefully.

Symbol	Meaning
(!)	Material losses (appliance damage, consequential losses and environmental 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



7 Note

All measurements are given in mm unless stated otherwise.

2. Safety

2.1 Intended use

This appliance is suitable for heating domestic hot water or for reheating preheated water. The appliance can supply one or more draw-off points.

Water will not be reheated if the maximum inlet temperature for reheating is exceeded.

The appliance is intended for domestic use. It can be used safely by untrained persons. The appliance can also be used in non-domestic environments, e.g. in small businesses, 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 the instructions for any accessories used is also part of the correct use of this appliance.

2.2 General safety instructions



CAUTION Burns

During operation, the tap can reach temperatures up to 70 °C.

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



CAUTION Burns

If children or persons with limited physical, sensory or mental capabilities use the appliance, a permanent and unchangeable temperature limit is necessary. Ask a qualified contractor to set the internal anti-scalding protection.

OPERATION

Appliance description



CAUTION Burns

If operating with preheated water, e.g. if using a solar thermal system, observe the following:

The DHW temperature may exceed the set temperature or a set temperature limit.

► In this case, limit the temperature with an upstream central thermostatic valve.



WARNING Injury

The appliance may be used by children aged 3 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 potential risks. Children must never play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.



Material losses

The user should protect the appliance and its tap against frost.

2.3 Test symbols

See type plate on the appliance.

3. Appliance description

The appliance switches on automatically as soon as you open the hot water valve on the tap. When you close the tap, the appliance switches off again automatically.

The appliance heats water as it flows through it. The set temperature is adjustable. Upwards of a certain flow rate, the control unit selects the required heating output, subject to the temperature selected and the cold water temperature.

The electronically controlled instantaneous water heater with automatic output matching maintains a consistent outlet temperature. It does so irrespective of the inlet temperature, up to the maximum output of the appliance.

If the appliance is operated with preheated water and the inlet temperature exceeds the set temperature, the water is not heated further.

Heating system

The bare wire heating system is enclosed within a pressure-tested plastic jacket. The heating system with its stainless steel heater spiral is suitable for hard and soft water areas and is largely insusceptible to scale build-up. The heating system ensures rapid and efficient DHW provision.



Note

The appliance is equipped with an air detector that largely prevents damage to the heating system. If, during operation, air is drawn into the appliance, the appliance shuts down heating output for one minute to protect the heating system.

Following an interruption to the water supply



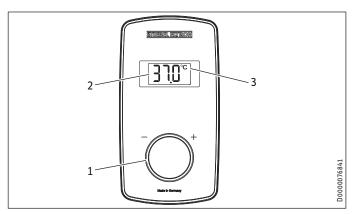
Material losses

To ensure that the bare wire heating system is not damaged following an interruption to the water supply, the appliance must be recommissioned by taking the following steps.

- ▶ Disconnect the appliance from the power supply by removing the fuses/tripping the MCBs.
- ▶ Open the tap for one minute until the appliance and its upstream cold water inlet line are free of air.
- ► Switch on the power supply again.

4. Settings and displays

4.1 Selecting the set temperature



- 1 Temperature selector for adjusting set temperature (no endstop): OFF, 20 - 60 °C
- 2 Display
- 3 Temperature unit [°C/°F]

Temperature settings in steps				
Temperature range	Step	Temperature range	Step	
20 °C 60 °C	1 °C	68 °F 140 °F	1 °F	

Selecting the temperature indicator

You can choose to display the temperature in °C or °F, as required.

► Turn the temperature selector anti-clockwise, past the OFF indicator and another five complete turns, until you find yourself in temperature unit selection mode. Then select the temperature unit using the temperature selector. After 30 s, the appliance exits selection mode automatically and the selected temperature unit is retained.



Note

If the outlet temperature is not high enough when the draw-off valve is fully open and the temperature selector is set to maximum, then more water is flowing through the appliance than can be heated by the heating system (appliance working at maximum output).

Reduce the water volume until the preferred temperature delivery is achieved.

OPERATION | INSTALLATION

Cleaning, care and maintenance

Temperature limit via internal anti-scalding 4.2 protection (qualified contractor)

If required, the qualified contractor can set a permanent temperature limit, for example in nurseries, hospitals, etc.

When supplying a shower, the appliance temperature setting range must be adjusted by the qualified contractor to 55 °C or less.

Limiting it in this way prevents water from flowing out of the appliance at temperatures which could cause injury.

Cleaning, care and maintenance 5.

- ► Never use abrasive or corrosive cleaning agents. A damp cloth is sufficient for cleaning the unit.
- ► Check the taps regularly. Limescale deposits at the tap outlets can be removed using commercially available descaling agents.

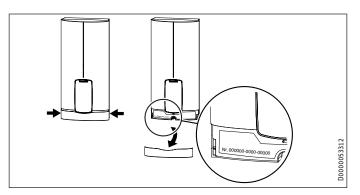
Troubleshooting 6.

Problem	Cause	Remedy
The appliance will not start despite the DHW valve being fully open.	There is no power.	Check the fuses / MCBs in your fuse box / distribution board.
	The aerator in the tap or the shower head is scaled up or dirty.	
	The water supply has been interrupted.	Vent the appliance and the cold water inlet line.
When hot water is being drawn off, cold water flows for a short period.	The air sensor is detect- ing air in the water. It briefly switches off the heating output.	The appliance restarts automatically after 1 minute.
The required temperature cannot be set.	Internal anti-scalding protection is activated.	The internal anti-scalding protection can only be adjusted by qualified contractors.



Note
Programming unit displays and selected settings are retained following a power failure.

If you cannot remedy the fault, contact your qualified contractor. To facilitate and speed up your enquiry, please provide the serial number from the type plate (000000-0000-000000).



INSTALLATION

7. Safety

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

General safety instructions 7.1

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



Material losses

Observe the maximum inlet temperature. Higher temperatures may damage the appliance. You can limit the maximum inlet temperature by installing a central thermostatic valve.



WARNING Electrocution

This appliance contains capacitors which are discharged when disconnected from the power supply. The capacitor discharge voltage may briefly exceed 60 V DC.

7.2 Shower operation



CAUTION Burns

When supplying a shower, set the internal anti-scalding protection to 55 °C or less; see chapter "Commissioning / Preparations".



CAUTION Burns

If operating with preheated water, e.g. if using a solar thermal system, observe the following:

The DHW temperature may exceed the set temperature or a set temperature limit.

► In this case, limit the temperature with an upstream central thermostatic valve.

7.3 Instructions, standards and regulations



Observe all applicable national and regional regulations and instructions.

- The IP 25 (hoseproof) rating can only be ensured with a correctly fitted cable grommet.
- The specific electrical resistance of the water used must not fall below that stated on the type plate. In a linked water network, take into consideration the lowest electrical resistivity of the water. Your water supply utility will advise you of the electrical resistivity or conductivity of the water in your area.

Appliance description

Appliance description 8.

Standard delivery 8.1

The following are delivered with the appliance:

- Jumper for internal anti-scalding protection
- Jumper for output changeover (only with DHB-E 18/21/24 LCD SI)

Preparation

Installation site



Material losses

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

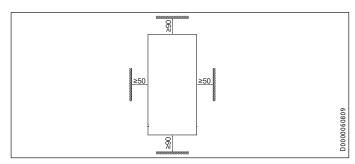
► Always install the appliance vertically and near the draw-off



Note

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

9.2 Minimum clearances



► Maintain the minimum clearances to ensure trouble-free operation of the appliance and facilitate maintenance work.

Water installation

Flush the water line thoroughly.

Taps/valves

Use appropriate pressure taps. Open vented taps are not permissible.

Permissible water line materials

- Cold water inlet line: Pipes made from galvanised steel, stainless steel, copper or plastic
- DHW outlet line: Stainless steel pipe, copper pipe or plastic pipe



Material losses

If plastic pipework systems are used, take into account the maximum inlet temperature and the maximum permissible pressure.

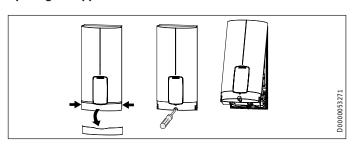
Flow rate

- ▶ Ensure that the flow rate for switching on the appliance is achieved.
- ▶ If the required flow rate is not achieved when the drawoff valve is fully open, increase the water line pressure. If the flow rate is still not achieved, remove the flow limiter (see chapter "Installation / Installation / Removing the flow limiter").

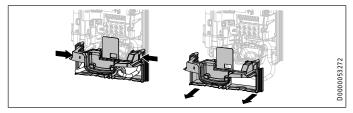
10. Installation

Factory settings		DHB-E 18/21/24 LCD SI	DHB-E 27 LCD SI
Internal anti-scalding pro- tection	°C	60	60
Connected load	kW	24	27
Adjustable connected load		X	-

Opening the appliance

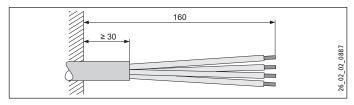


Open the appliance by holding the fascia at the side and pulling forwards away from the appliance cover. Undo the screw. Pivot open the appliance cover.



► Remove the back panel by pressing the two locking tabs and pulling the lower back panel section forwards.

Preparing the power cable



► Prepare the power cable.

Removing the flow limiter

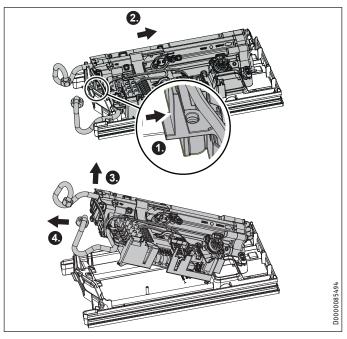


Note

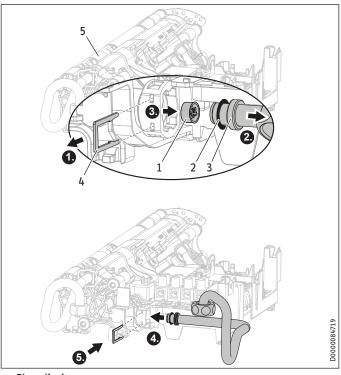
If you are using a thermostatic valve, you must not remove the flow limiter.

If the flow rate is too low, remove the flow limiter. To do this, remove the function module from the appliance back panel.

Installation



- ► Release the locking hook.
- Push the function module on the back panel gently backwards.
- ► Remove the function module from the appliance back panel by pulling it slightly forwards and lifting it off.



- 1 Flow limiter
- 2 O-ring
- 3 Cold water pipe bend with recess for spring clip
- 4 Spring clip
- 5 Heater
- Remove the cold water pipe bend and the 0-ring.
- ► Remove the flow limiter from the cold water inlet of the heater using a pointed object or suitable pliers.
- Fit the cold water pipe bend with the 0-ring.



Material losses

The O-ring must be fitted to prevent the appliance from leaking.

- ► As part of installation, check that the O-ring is in place.
- ► Secure the cold water pipe bend with the spring clip.



Material losses

Ensure that the spring clip is located behind the recess in the pipe bend and that it is securely holding the pipe bend in place.

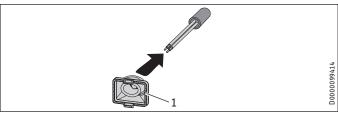
► Fit the function module on the appliance back panel in reverse order until it clicks into place.

Installing the appliance

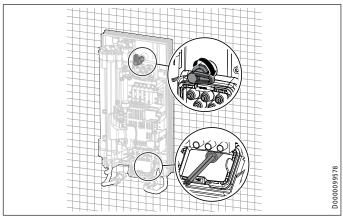


Note

If you are installing the appliance with flexible pipe connections, also secure the back panel with a screw.



- 1 Cable grommet
- ▶ Remove the cable grommet from the back panel.
- ▶ Pull the cable grommet over the cable sheath of the power cable. For large cable cross-sections, enlarge the hole in the cable grommet if necessary.



- ► Remove the transport protection plugs from the appliance pipe connections.
- ► Bend the power cable 45° upwards.
- ► Route the power cable and cable grommet through the back panel from the rear.
- ► Mount the appliance on the threaded stud.
- ▶ Press the back panel firmly into place, aligning it correctly.
- ► Lock the fixing toggle by turning it 90° clockwise.

Commissioning

- Pull the cable grommets into the back panel until both locking tabs engage.
- ► Connect the appliance to the water supply. Ensure that a shut-off valve is installed in the cold water supply line.
- ► Open the shut-off valve in the cold water inlet line.

Making the electrical connection



WARNING Electrocution

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



WARNING Electrocution

The connection to the power supply must be in the form of a permanent connection in conjunction with the removable cable grommet. Ensure the appliance can be separated from the power supply by an isolator that disconnects all poles with at least 3 mm contact separation.



WARNING Electrocution

Ensure that the appliance is connected to the earth conductor.

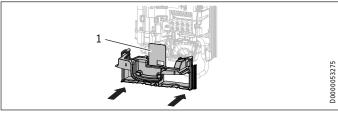


Material losses

Observe the type plate. The specified rated voltage must match the power supply.

► Connect the power cable to the mains terminal.

Fitting the lower back panel section



- 1 Diffuser on lower back panel
- ► Fit the lower back panel section into the back panel. Check that both locking tabs are engaged.
- ▶ Align the mounted appliance by undoing the fixing toggle, aligning the power supply and back panel, and then re-tightening the fixing toggle. If the back panel does not sit flush against the wall, you can secure the appliance at the bottom with an additional screw.



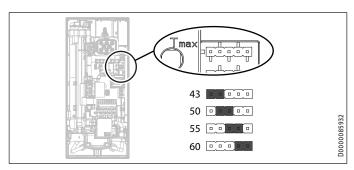
Material losses

The cover plate of the lower back panel section must not bend when installed.

11. Commissioning

11.1 Preparation

Internal anti-scalding protection via jumper slot



► Install the anti-scalding protection setting jumper in the required position (= temperature in °C) on the pin strip.

Jumper position	Description
43	For example in nurseries, hospitals, etc.
50	
55	Max. for shower operation
60	Factory setting
No jumper	Limited to 43 °C



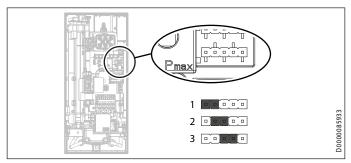
CAUTION Burns

If operating with preheated water, e.g. if using a solar thermal system, the internal anti-scalding protection can be overridden.

► In this case, limit the temperature with an upstream central thermostatic valve.

Changing the connected load via jumper slot; only with DHB-E 18/21/24 LCD SI

If you select a connected load other than the 24 kW factory setting for appliances with selectable connected load, you will need to reposition the jumper.



► Install the jumper in the required position on the pin strip.

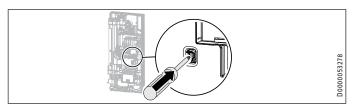
Jumper position	Connected load DHB-E 18/21/24 LCD SI
1	18 kW
2	21 kW
3	24 kW
No jumper	18 kW

Shutting down the system

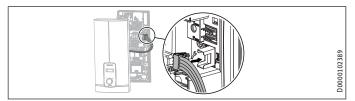
11.2 Initial start-up



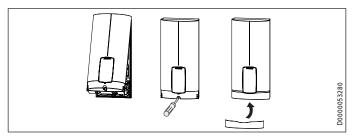
- Open and close all connected draw-off valves several times, until all air has been purged from the pipework and the appliance.
- ► Carry out a tightness check.



Activate the safety switch by firmly pressing the reset button (the appliance is delivered with the safety switch disabled).



► Connect the programming unit connecting cable to the PCB.



- ► Hook the appliance cover at the top rear into the back panel. Pivot the appliance cover downwards. Check that the appliance cover is securely seated both top and bottom.
- ► Tick the selected connected load and rated voltage on the appliance cover type plate (on both sides). Use a ballpoint pen to do this.
- ► Secure the appliance cover with the screw.
- ► Fit the fascia to the appliance cover.
- ▶ Remove the protective film from the user interface.



Switch on the power supply.

11.2.1 Appliance handover

- ► Explain the appliance function to users and familiarise them with how it works.
- Make users aware of potential dangers, especially the risk of scalding.
- ► Hand over the instructions.

11.3 Recommissioning



Material losses

To ensure that the bare wire heating system is not damaged following an interruption to the water supply, the appliance must be recommissioned by taking the following steps.

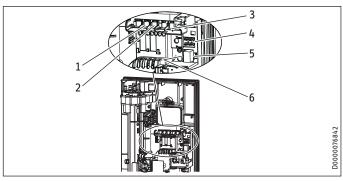
- ▶ Disconnect the appliance from the power supply by removing the fuses/tripping the MCBs.
- Open the tap for at least one minute until the appliance and its upstream cold water inlet line are free of air.
- ► Switch on the power supply again.

12. Shutting down the system

- ▶ Isolate all poles of the appliance from the power supply.
- ► Drain the appliance (see chapter "Maintenance / Draining the appliance").

13. Service information

Overview of connections



- 1 Flow sensor
- 2 High limit safety cut-out, automatic reset
- 3 NTC sensor
- 4 Pin strips for connected load and anti-scalding protection
- 5 Programming unit plug-in position
- 6 Diagnostic traffic lights

Troubleshooting

14. Troubleshooting



WARNING Electrocution To test the appliance, it must be connected to the power supply.



Note
When testing the appliance using the diagnostic traffic lights, water must be flowing.

Indicator options for diagnostic traffic light (LED)			
•00	••• Red lights up if there is a fault		
000	Yellow	Illuminates in heating mode/flashes when output limit reached	
000	Green	Flashing: Appliance connected to power supply	

Diagnostic traffic lights (draw-off mode)	Fault	Cause	Remedy
No LED illuminates	Appliance does not heat up	One or more power supply phases are missing	Check the fuses in the distribution board
		PCB faulty	Replace the function module
Green flashing, yellow off, red off	No DHW	Appliance starting flow rate not reached; shower head/aerator scaled up	Descale/replace the shower head/aerator
		Appliance starting flow rate not reached; strainer in cold water inlet dirty	Clean strainer
		Flow meter not plugged in	Check plug-in connection; correct if necessary
		Flow meter faulty or dirty	Replace flow meter
		PCB faulty	Replace the function module
Green flashing, yellow on, red off	No display	Loose connecting cable between PCB and programming unit	Check plug-in connections; correct if necessary
		Faulty connecting cable between PCB and programming unit	Check connecting cable; replace if necessary
		Programming unit faulty	Replacing the programming unit
		PCB faulty	Replace the function module
Green flashing, yellow on, red off	No DHW; outlet temperature does not match set value	Tap faulty	Replace tap
		Outlet sensor faulty	Replace outlet sensor
		Heating system faulty	Replace the function module
		PCB faulty	Replace the function module
Green flashes, yellow flashes, red off	No DHW; outlet temperature does not match set value	Appliance is operating at its output limit	Reduce flow rate; install flow limiter
		Appliance is operating at its output limit	Check jumper position for connected load
		Heating system faulty	Replace the function module
Green flashing, yellow off, red on	No DHW; outlet temperature does not match set value	One or more power supply phases are missing	Check the fuses in the distribution board
		Air detection has responded	Continue draw-off for >1 min
		Safety switch not activated during "Commissioning"	Activate the safety switch by firmly pressing the reset button
		Safety switch was triggered by high limit safety cut- out	Check high limit safety cut-out (plug-in connection, connecting cable); activate safety switch
		Safety switch responds again after high limit safety cut-out has been checked; high limit safety cut-out faulty	Replace high limit safety cut-out; activate safety switch and draw-off with maximum set value >1 min
		Safety switch responds again; PCB faulty	Replace the function module
		Short circuit in outlet sensor	Check outlet sensor; replace if necessary
		PCB faulty	Replace the function module

Maintenance

15. Maintenance



WARNING Electrocution

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

This appliance contains capacitors which are discharged when disconnected from the power supply. The capacitor discharge voltage may briefly exceed 60 V DC.

Draining the appliance

The appliance can be drained for maintenance work.



WARNING Burns

Hot water may escape when you drain the appliance.

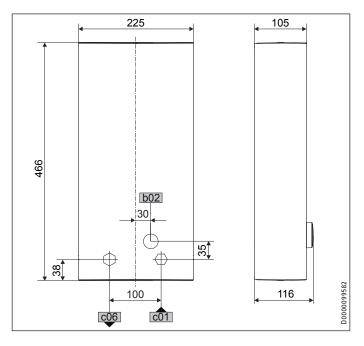
- ► Close the shut-off valve in the cold water inlet line.
- ► Open all draw-off valves.
- ▶ Undo the pipe connections from the appliance.
- Store the dismantled appliance free from the risk of frost, as water residues remaining inside the appliance can freeze and cause damage.

Clean strainer

If the strainer in the threaded cold water fitting is dirty, clean it. Close the shut-off valve in the cold water inlet line before removing, cleaning and refitting the strainer.

16. Specification

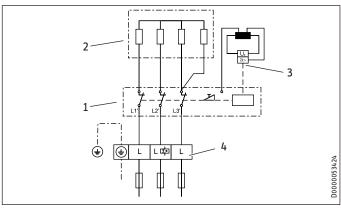
16.1 Dimensions and connections



			DHB-E LCD SI
b02	Entry electrical cables I	Unfinished walls	
c01	Cold water inlet	Male thread	G 1/2 A
c06	DHW outlet	Male thread	G 1/2 A

16.2 Wiring diagram

3/PE ~ 380-415 V



- 1 Power PCB with integral safety switch
- 2 Bare wire heating system
- 3 High limit safety cut-out
- 4 Mains terminal

16.3 Application areas / conversion table

Electrical resistivity and electrical conductivity

Standa tion at			20 °C			25 °C		
tivity	Conductiv	,	tivity	Conducti	,	tivity	Conducti	vity σ ≤
ρ≥			ρ≥			ρ≥		
Ωcm	mS/m	μS/cm	Ωcm	mS/m	μS/cm	Ωcm	mS/m	μS/cm
900	111	1111	800	125	1250	735	136	1361

16.4 Fault conditions

In the event of a fault, loads up to 80 $^{\circ}$ C at a pressure of 1.0 MPa can occur briefly in the installation.

Specification

16.5 Data table

	DHB-E 18/21/24 LCD SI		DHB-E 27 LCD SI	
		203939	203940	
Electrical data				
Rated voltage	V	400	400	
Rated output	kW	18/21/24	27	
Rated current	A	29/31/35	39	
Fuse protection	Α	32/32/35	40	
Frequency	Hz	50/60	50/-	
Phases		3/PE	3/PE	
Specific resistance p15 ≥	<u>Ω cm</u>	900	900	
Specific conductivity σ 15 ≤	μS/cm	1111	1111	
Max. mains impedance at 50 Hz	Ω	0.236	0.210	
Versions				
Heating system heat generator		Bare wire	Bare wire	
Insulating block		Plastic	Plastic	
Adjustable connected load		Х	-	
Temperature settings	°C	Off, 20-60	Off, 20-60	
Protection class		1	1	
Cover and back panel	· · · · · · · · · · · · · · · · · · ·	Plastic	Plastic	
IP rating		IP 25	IP 25	
Colour	· · · · · · · · · · · · · · · · · · ·	White	White	
Connections				
Water connection		G 1/2 A	G 1/2 A	
Application limits				
Max. permissible pressure	MPa_	1_	1	
Max. inlet temperature for reheating	°C	55	55	
Values				
Max. inlet temperature (e.g. pasteurisation)	°C	70	70	
On	l/min	>2.5	>2.5	
Flow rate limit at	I/min	8.0	9.0	
Flow rate at 28 K	I/min	9.2/10.7/12.3	13.8	
Flow rate at 50 K	I/min	5.2/6.0/6.9	7.7	
Pressure drop for flow rate at 50 K (without flow limiter)	MPa	0.06/0.08/0.1	0.13	
Pressure drop for flow rate at 50 K (with flow limiter)	MPa	0.1/0.13/0.17	0.2	
Hydraulic data				
Nominal capacity	<u>_</u>	0.4	0.4	
Dimensions				
Height		466	466	
Width	mm	225	225	
Depth	mm	116	116	
Weights				
Weight	kg	2.9	2.9	

Note
The appliance conforms to IEC 61000-3-12.

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.

Information on the appliance software

Stiebel Eltron appliances may contain software of external suppliers (third party suppliers) which may be partly also be subject to an Open Source license. Some Open Source licenses are subject to the obligation to state the software, its authors as well as the licenses that apply to the software and to additionally provide the software as a source code or to offer to provide the source code. Stiebel Eltron therefore provides further information regarding third supplier software that it uses under the link https://www.stiebel-eltron.com/en/info/Licenses.html and also offers the source code there, if applicable. The software is provided only for compliance with the obligations under the Open Source licenses.

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