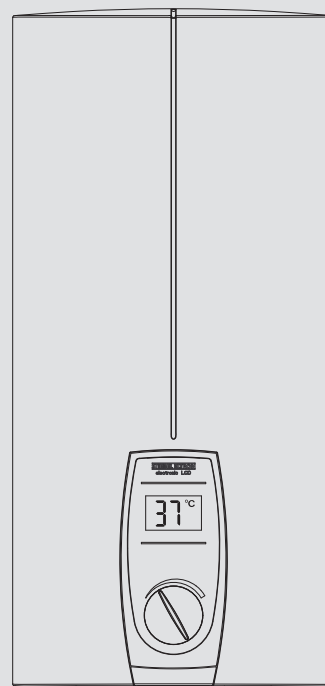


GEBRAUCHS- UND MONTAGEANLEITUNG
OPERATING AND INSTALLATION INSTRUCTIONS
GEBRUIKS- EN INSTALLATIEVOORSCHRIFTEN
INSTRUCCIONES DE USO Y MONTAJE
INSTRUKCJA OBSŁUGI I MONTAŻU
ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ И МОНТАЖУ
INSTRUCȚIUNI DE MONTAJ ȘI UTILIZARE

ELEKTRONISCH GEREGLTER DURCHLAUFERHITZER | ELECTRONICALLY CONTROLLED
INSTANTANEOUS WATER HEATER | ELEKTRONISCH GEREGLDE ELEKTRISCHE DOORSTROMER
| CALENTADOR INSTANTÁNEO CON REGULACIÓN ELECTRÓNICA | ELEKTRONICZNIE
REGULOWANY PRZEPŁYWOWY OGRZEWACZ WODY | ПРОТОЧНЫЙ ВОДОНАГРЕВАТЕЛЬ С
ЭЛЕКТРОННОЙ РЕГУЛИРОВКОЙ | ÎNCĂLZITOR INSTANT CONTROLAT ELECTRONIC

- » DEL 18 SLi 25A electronic LCD
- » DEL 18/21/24 SLi electronic LCD
- » DEL 27 SLi electronic LCD
- » DEL 18 A
- » DEL 27 A

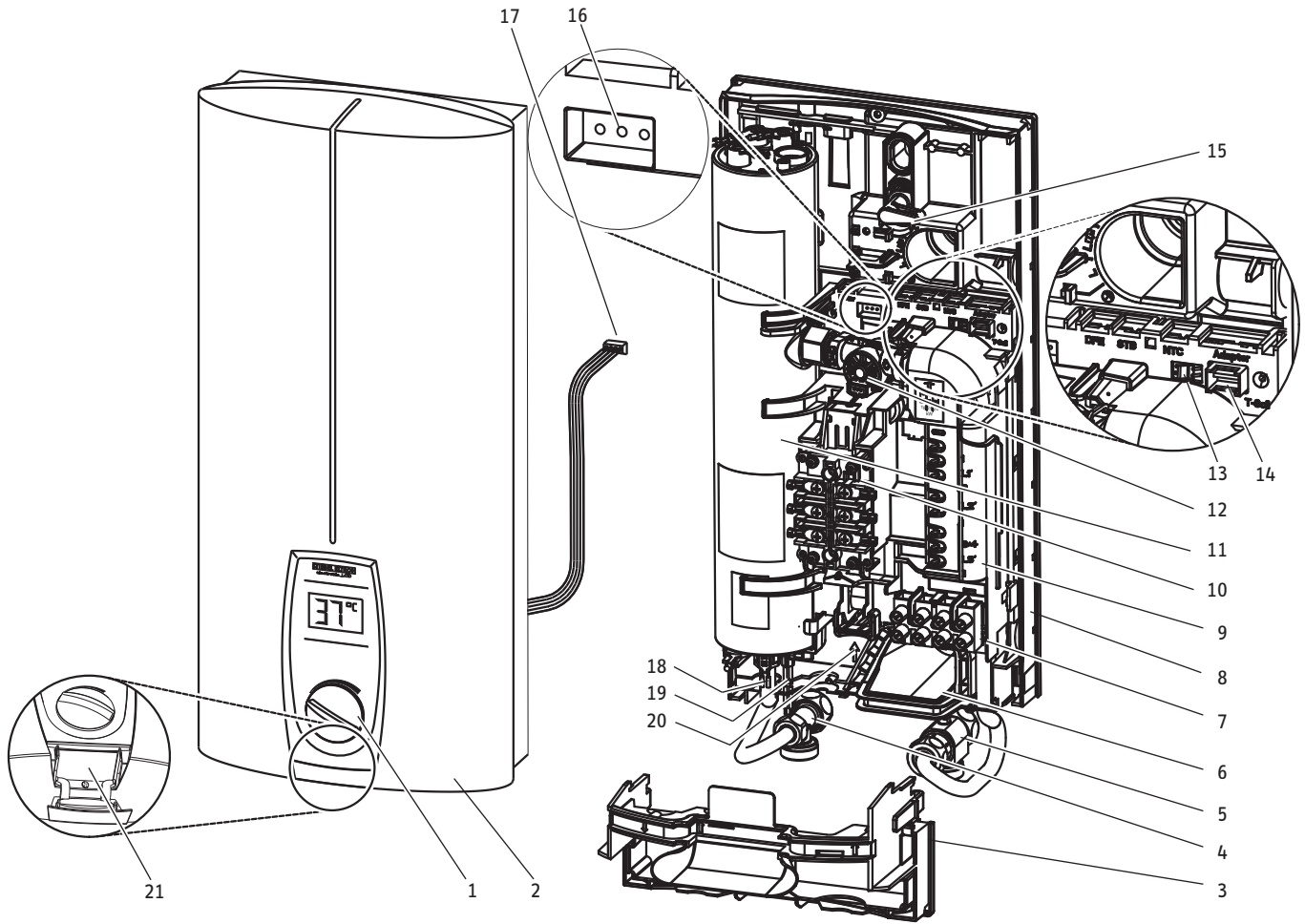


STIEBEL ELTRON

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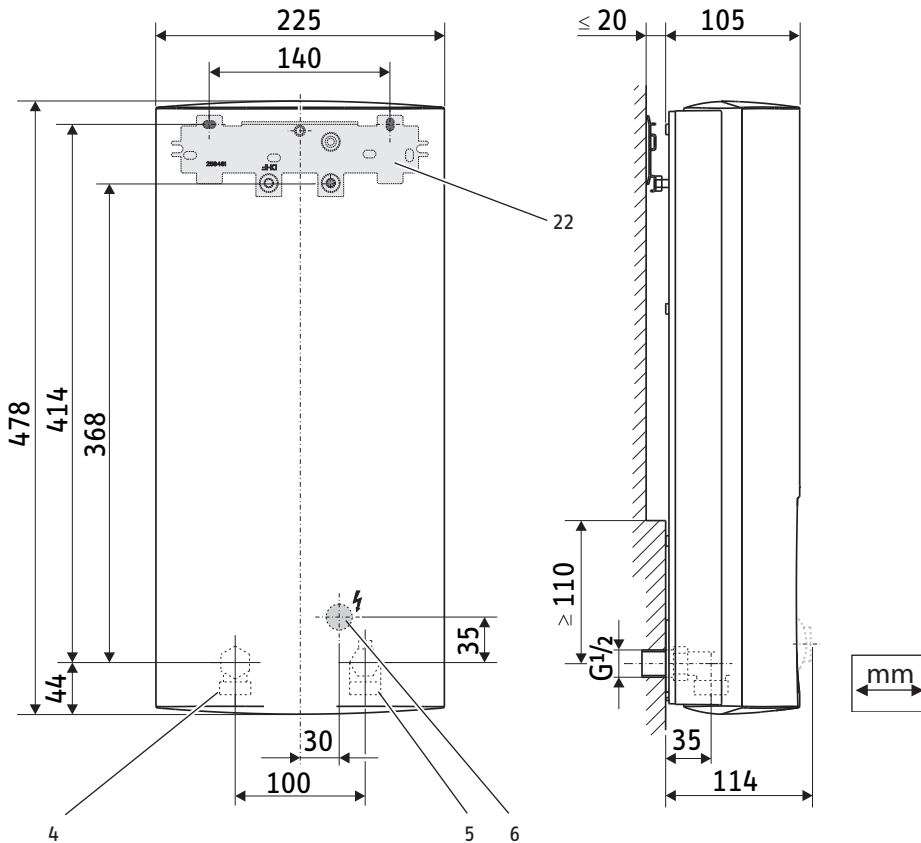
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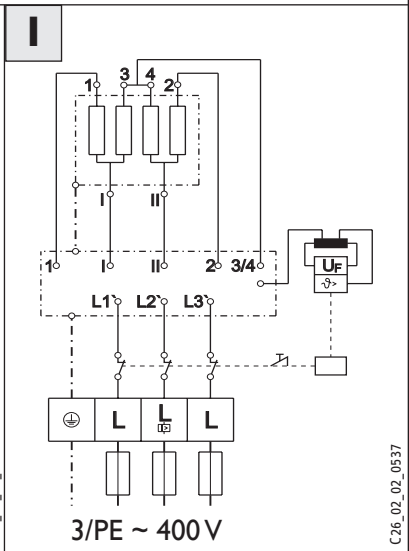
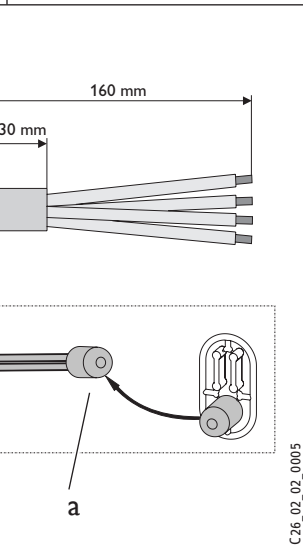
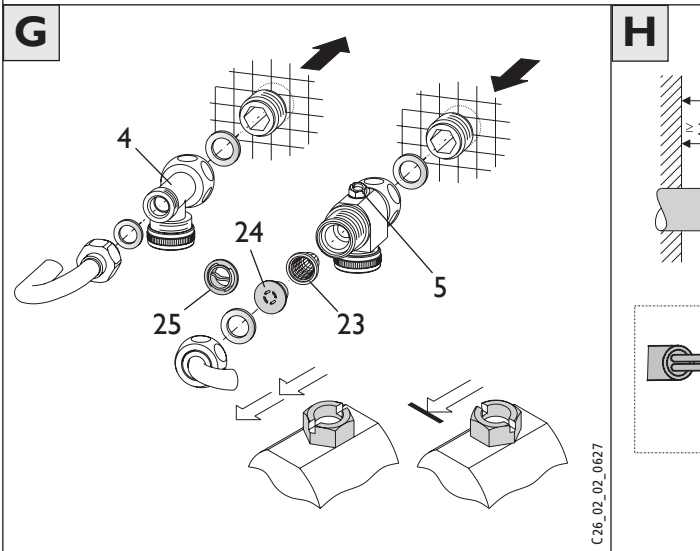
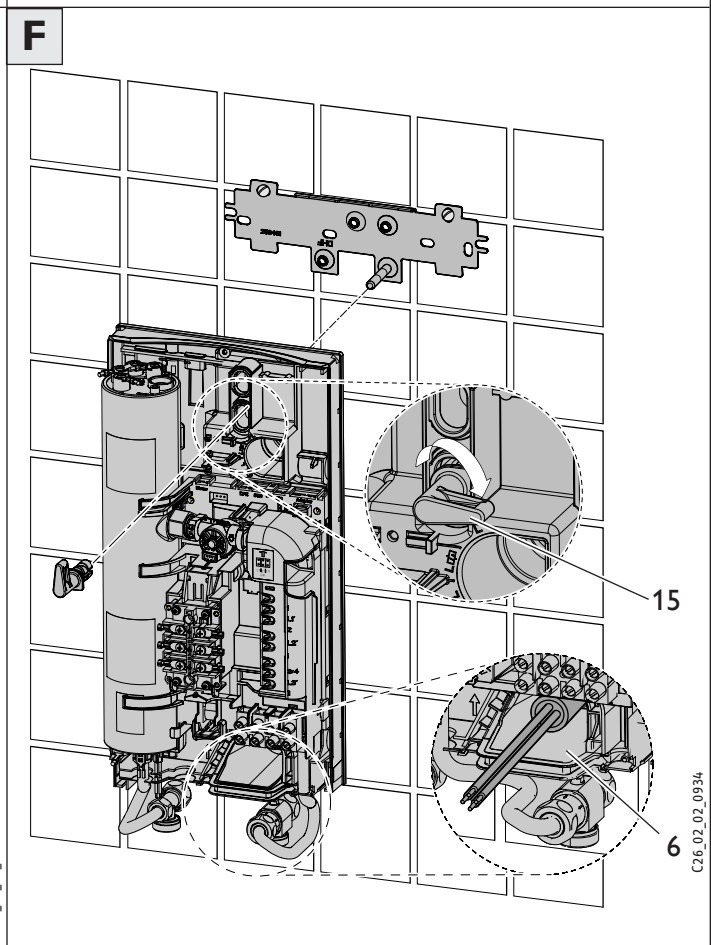
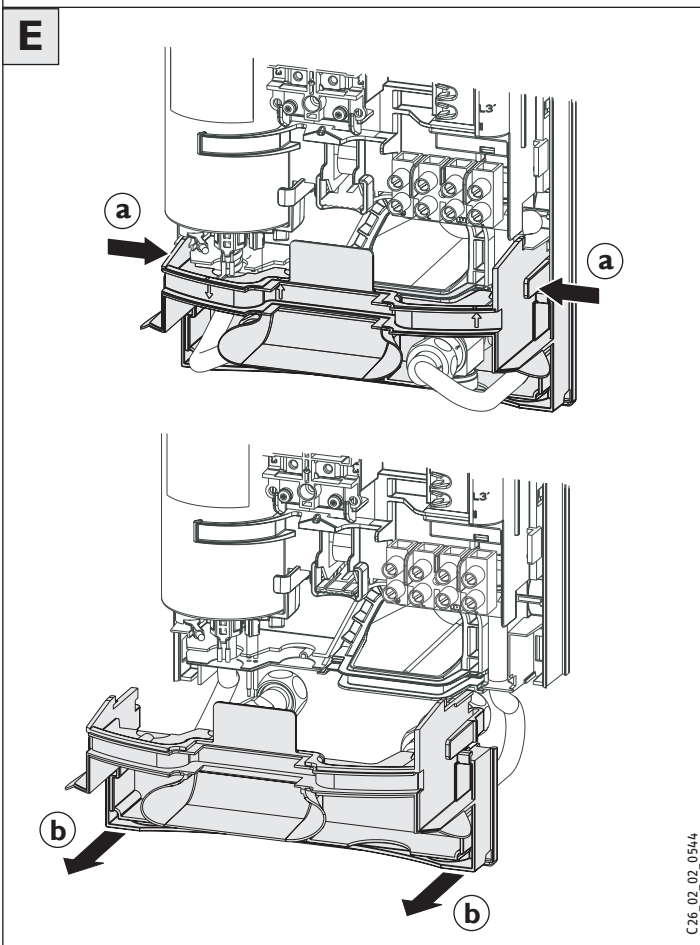
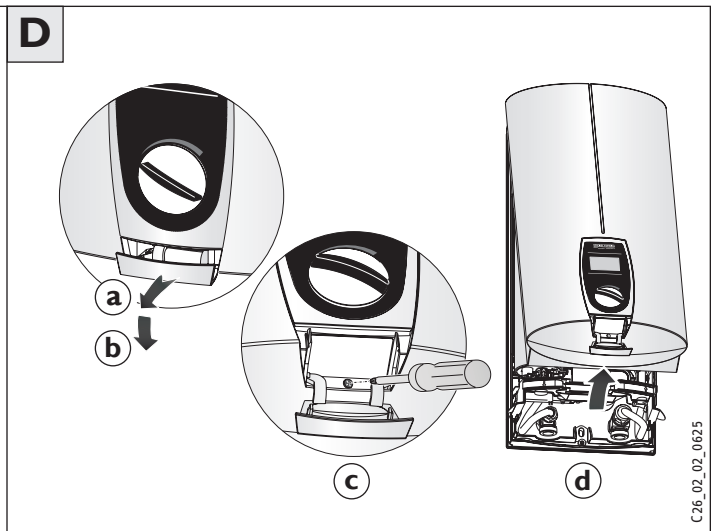
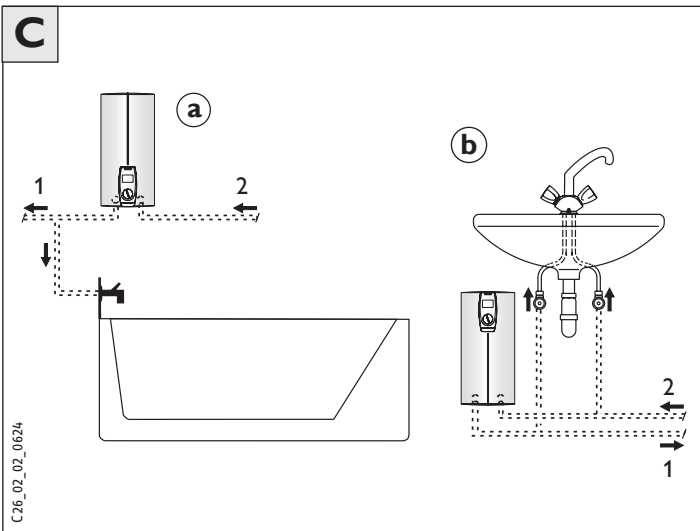


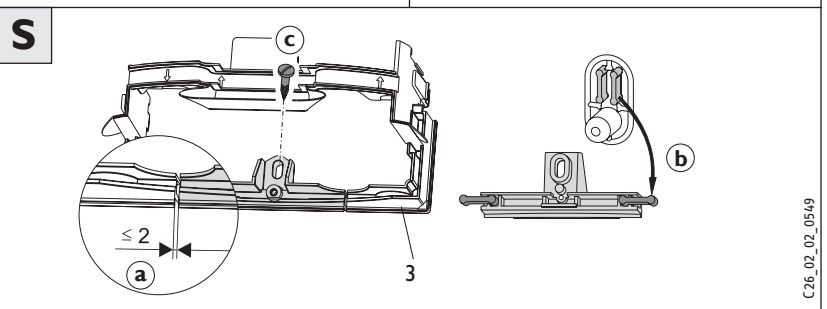
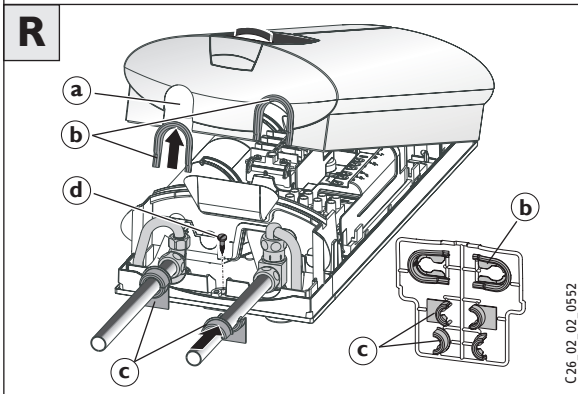
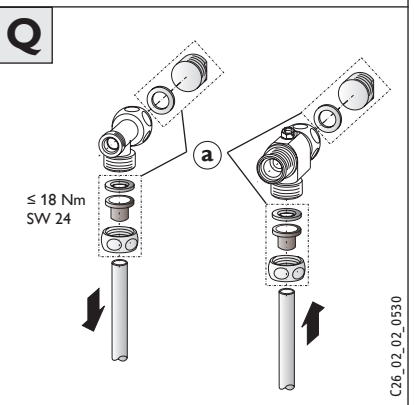
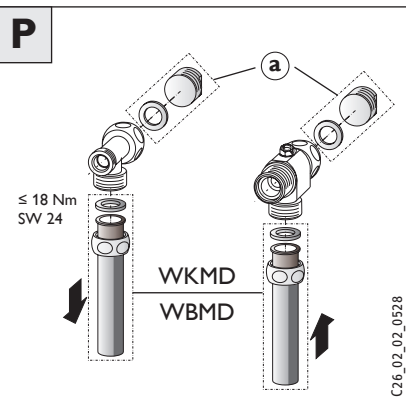
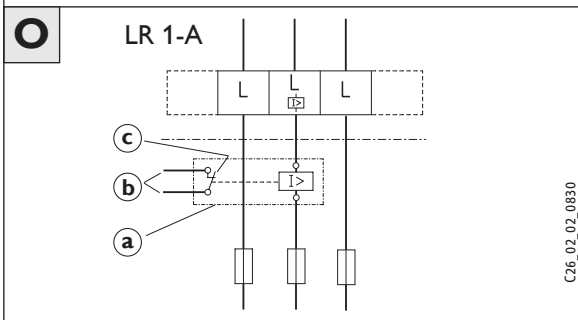
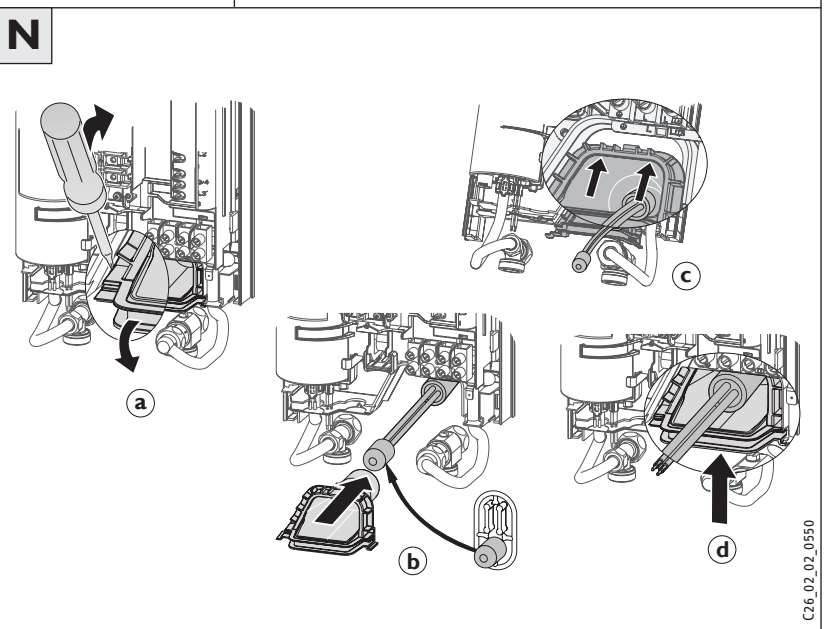
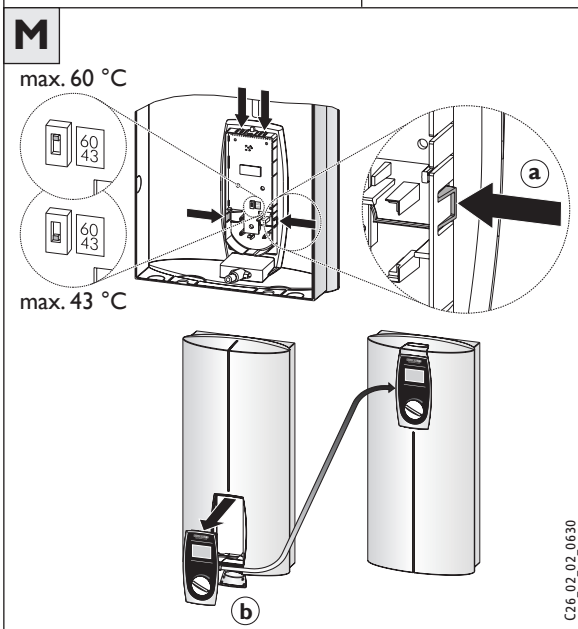
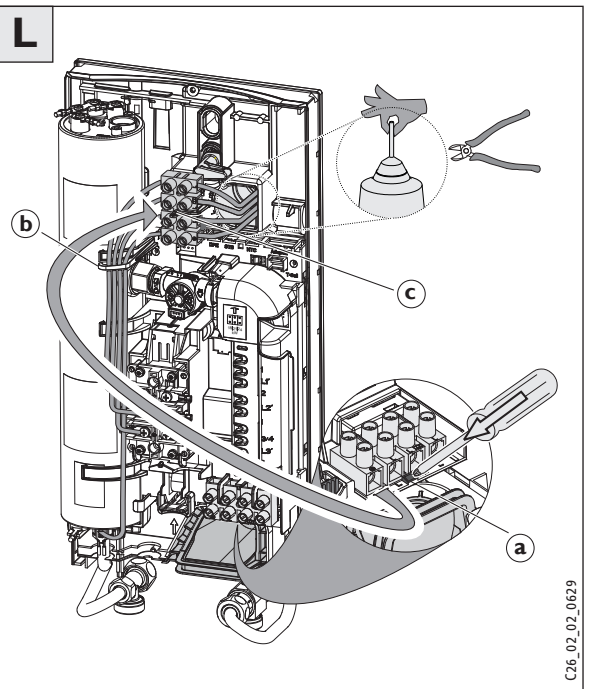
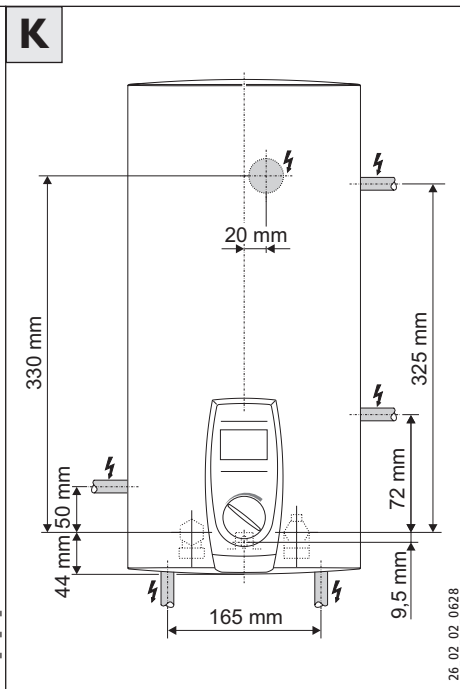
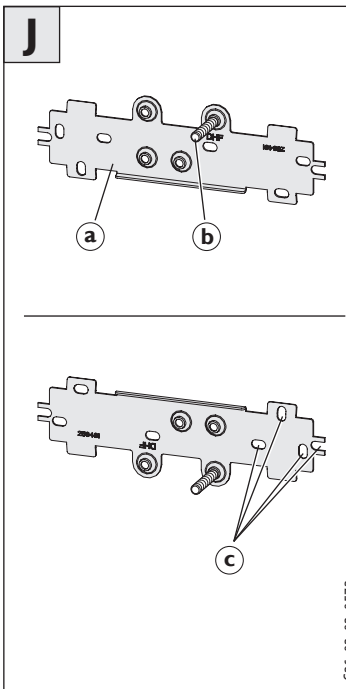
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1. Operating instructions for the user and the qualified installer

1.1 Unit description

Description:

The instantaneous water heater heats water as it flows through the appliance. The hot water outlet temperature can be regulated infinitely. The set temperature appears on the display.

Above a flow rate of 2.5 l/min the control switches on the right heating power depending on the temperature setting and the cold water temperature.

1.2 The main features in brief



Display with temperature indication

Temperatur-Einstellknopf

By turning the adjustment button the required temperature can be infinitely adjusted and read off on the display. If with the tap fully open and maximum temperature setting a sufficient outlet temperature is not reached, more water is flowing through the unit than the heating element can heat. In this case the water quantity must be reduced accordingly at the tap.

1.3 Safety instruction

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

Where children or persons with limited physical, sensory or mental capabilities are to be allowed to control this equipment, ensure that this will only happen under supervision or after appropriate instructions by a person responsible for their safety. Children should be supervised to ensure that they never play with the equipment. **Risk of scalding!**

If this is unavoidable, we recommend a permanent temperature limit (see „Temperature cut-out“).

1.4 Important information



If the water supply to the appliance is interrupted, e.g. because of a risk

of frost, or work on the water pipe, the following measures must be taken prior to bringing the appliance back into use:

1. Remove the fuses and/or trip the MCBs, or switch off the appliance by means of the temperature selector (“OFF” position).
2. Open a draw-off valve downstream of the equipment until all air has been purged from the cold water supply line and the equipment.
3. Replace the fuses and/or reset the MCBs or switch the appliance back on.

1.5 Hot water output

Cold water temperatures vary depending on the time of year. The following maximum output volumes, or mixed water volumes, can be achieved with these different cold water inlet temperatures (see Table 1):

ϑ_1 = Cold water inlet temperature

ϑ_2 = Mixing water temperature

ϑ_3 = Output temperature.

• Useful temperature:

– approx. 38 °C: For example, for showers, hand basins, filling baths, etc.

– approx. 60 °C: For dishwashers and when using thermostatic fittings.

$\vartheta_2 = 38\text{ °C}$ (Mixing water temperature)		18 kW	21 kW	24 kW	27 kW
ϑ_1	l/min *				
6 °C		8.0	9.4	10.7	12.1
10 °C		9.2	10.7	12.3	13.8
14 °C		10.7	12.5	14.5	16.1

$\vartheta_3 = 60\text{ °C}$ (Output temperature)		18 kW	21 kW	24 kW	27 kW
ϑ_1	l/min *				
6 °C		4.8	5.6	6.4	7.2
10 °C		5.2	6.0	6.9	7.7
14 °C		5.6	6.5	7.5	8.4

$\vartheta_3 = 50\text{ °C}$ (Output temperature)		18 kW	27 kW
ϑ_1	l/min *		
6 °C		5.9	8.8
10 °C		6.4	9.7
14 °C		7.2	10.7

Table 1

* The values in this table relate to a supply voltage of 400 V. The actual outlet volume is subject to the available supply pressure and mains voltage.

1.6 Thermal cut-out

A thermal cut-out at 43 °C can be set by the qualified installer.

1.7 External remote operation (not for DEL ... A)

The temperature can be set externally via the radio remote control FFB 1 and FFB 2 (see “7. Special fittings”).

1.8 Recommended setting

Operation with thermostatic fitting

The temperature must be set on the device to the maximum value.

1.9 First Aid in the event of faults

- Check the fuses
- Check that the fittings and shower controls are free of limescale or dirt contamination, see also “6. Fault finding”.

If a qualified installer is called in for a current problem, he must be given a few details from the unit rating plate (A 20) so that he can provide better and faster help:

DEL .. SLi	Nr.:	-	-
------------	------------	--------	---------

1.10 Care and maintenance



Maintenance work, such as checking electrical safety, may only be carried out by a qualified installer.

All that is needed to clean the housing is a damp cloth. Do not use any abrasive or caustic cleaning substances.

1.11 Instructions for Installation and Use



Follow these instructions carefully, and, in the event of change of ownership, pass them on to the new user. If any maintenance or repair work is necessary, give them to the qualified installer for him to read.



2. Installation instructions for the qualified installer

2.1 Brief description

The electronically controlled instantaneous water heater is a pressurised unit suitable for heating cold water or for further heating water pre-heated up to 55 °C. The maximum permissible inlet temperature is 65 °C. At higher temperatures the unit may be damaged.

With the special fitting "Central thermostat" (see "7. Special fittings") the max. inlet temperature can be limited to 60 °C.

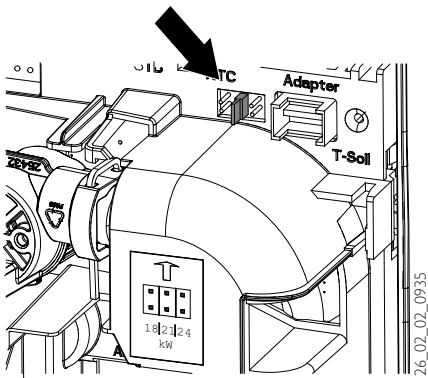
One or more taps can be supplied with the unit.

The bare-wire heating system is enclosed with pressurised copper cladding. The heating system is suitable for low-lime and lime-containing water (see "5.2 Areas of use").

Appliance with output options

For the DEL 18/21/24 SLi instantaneous water heater, the output is adjustable in three stages. In its delivered condition the appliance is set to 21 kW. If the appliance is installed with a different output, take the following steps:

- Replug coding card on the appliance PCB above the information label, according to the output selected. For rated current and fuse, see Specification.
- Mark the selected output on the type plate with a permanent marker.



2.2 Important information

! Air trapped in the cold water supply can damage the bare wire heating system inside the equipment, or trip the safety system (see "1.4 Important information"). **The DEL is equipped with an air detector which, to a great extent, prevents damage to the heating system:** If, during operation, air is drawn into the DEL, the equipment shuts down the power for a few seconds, thereby protecting the heating system.

- **Valves:**
- Stiebel Eltron pressure valves for instantaneous water heaters, for installation on finished walls (see "7. Special accessories")
- Installation may be carried out using commercially available pressure valves.
- Thermostatic pressure valves (see note "1.8 Recommended adjustment").
- All information in these operating and installation instructions must be followed carefully. They contain important details regarding safety, operation, installation and maintenance of the equipment.

2.3 Instructions and regulations

- The installation (water and electrical work) and commissioning, as well as the maintenance of this equipment, must only be carried out by a qualified contractor in accordance with these instructions.
- Perfect function and safe operation can only be guaranteed when using original accessories and spare parts intended for this equipment.
- Observe all locally applicable instructions and regulations regarding water and electrical connections.
- Observe all local water and electricity supply company regulations.
- Install the lower area of the equipment flush with the wall (observe dimension ≥ 110 mm **B**).
- The type plate (open the hinged flap on the equipment cap).
- See also "5. Specification".

! The specific electrical resistance of the water may not be below the value written on the rating plate.

If the water is coming from a water-network the lowest value of the water resistance must be considered, (see „5.2 area of application“).

The specific electrical resistance of the water is generally known by the water provider.

- Install the equipment only in an enclosed, frost-free room. Store dismantled equipment in frost-free conditions, since there is always a little water left inside the equipment.
- The protection level IP 25 (hose-proof) is only guaranteed if a correctly installed cable grommet is used.

Water installation:

- Cold water pipe material: Steel, copper or plastic pipe systems.
- DHW pipe material: Copper or plastic pipe systems*
Operating temperatures up to a max. 60 °C can be reached with the DEL...SLi instantaneous water heater (max. 50 °C with DEL ...A). Maximum loads of 80 °C / 1.0 MPa may occur briefly in the installation in the event of a fault. The plastic pipe system used must be designed for such conditions.
- A safety valve is not required.
- Never use valves for open systems!

Electrical installation:

- Electrical connection only to permanently wired mains power cables
- The equipment must be able to be disconnected from the mains power supply, for example by fuses that disconnect all poles with at least 3 mm contact separation.



3. Standard installation for the qualified installer

Electro: UP – bottom; Water: UP

Legend Diagram **A** - **G**

- 1 User interface
- 2 Equipment cap
- 3 Base, back wall
- 4 DHW compression fitting
- 5 Cold water compression fitting (three-way shut-off valve)
- 6 Cable grommet (electrical supply cable from below)
- 7 Mains terminal
- 8 Top, back wall
- 9 Electronics
- 10 Safety pressure limiter (AE 3) with reset button
- 11 Heating system
- 12 Flow sensor (DFE)
- 13 Plug position of thermostat fly lead cable
- 14 LED for operating and fault display
- 15 Fixing bar
- 16 Plug of thermostat fly lead cable
- 17 Safety thermal cut-out (STB)
- 18 Outlet sensor (NTC)
- 19 Locating hook for mounting rack (Service)
- 20 Unit rating plate
- 21 Hanging bracket
- 22 Filter in cold water screw connection
- 23 Flow rate limiter (DMB)
- 24 Form disc

3.1 General installation information

The equipment is prepared at the factory for standard installation (see figs. **C** - **I**):

- Installation above a worktop **C** (a).
- Water connection, unfinished walls, compression fitting **G** (4 and 5).
- Electrical connection, unfinished walls, in the lower equipment area **F** (6).
- Output 21 kW for the beam DEL 18/21/24 SLi.

3.2 Place of installation

Install the DEL... SLi vertically in accordance with **C** (a – above or b – below worktop) in a room free from the risk of frost.

3.3 Equipment preparation for installation

- Open the equipment **D**:
 - a Pull the flap forward.
 - b Open the flap downwards.
 - c Release the fixing screws.
 - d Remove the equipment cap.
- Remove the back wall base **E**:
 - a Press down both snap-in tabs.
 - b Remove the back wall base by pulling forwards.
- Remove the fixing toggle **F** (15).

3.4 Securing the mounting bracket **F**

- Mark out the fixing holes for the mounting bracket using the installation template supplied.
- Secure the mounting bracket with 2 screws and rawl plugs (not supplied; selection subject to the material of the relevant wall).

3.5 Trimming the power cable to size

Trim the power cable to size in accordance with **H**.

Note: Cap (a) should be used as an aid for installing the power cable.

3.6 Equipment installation **F**

- Route the power cable through the cable grommet (6) and press the back wall over the threaded studs of the mounting bracket.
- Fit the equipment, secure the fixing toggle (15).

3.7 Water connection **G**

Important instructions:

Thoroughly flush cold water supply line!

The filter supplied (22) must always be fitted with the flow rate limiter (23, DMB) or the form disc (24) (parts in the bag on the CW connection and in the accompanying pack) in the CW screw connection. Generally the DMB - 12 l/min (brown) is to be installed.

Exception:

- DMB - 7.5 l/min (blue) for use with a thermostatic fitting.
 - Form disc for low water pipe pressure.
- Upon replacement installation the presence of the filter must be checked.

Never use the three-way shut-off valve (5) to reduce the flow rate.

3.8 Electrical connection

Connect the electrical supply cable to the terminal strip (see Wiring diagram **I**).

Important information:

The protection level IP 25 (hose-proof) can only be ensured with a correctly fitted cable grommet **A** (6) and seal on the cable bush.
Connect the equipment to earth.

3.9 Completing the installation

1. Open the three-way shut-off valve **G** (5).
2. Fit the back wall base **E**.

3.10 Initial start-up

(only by a qualified contractor)

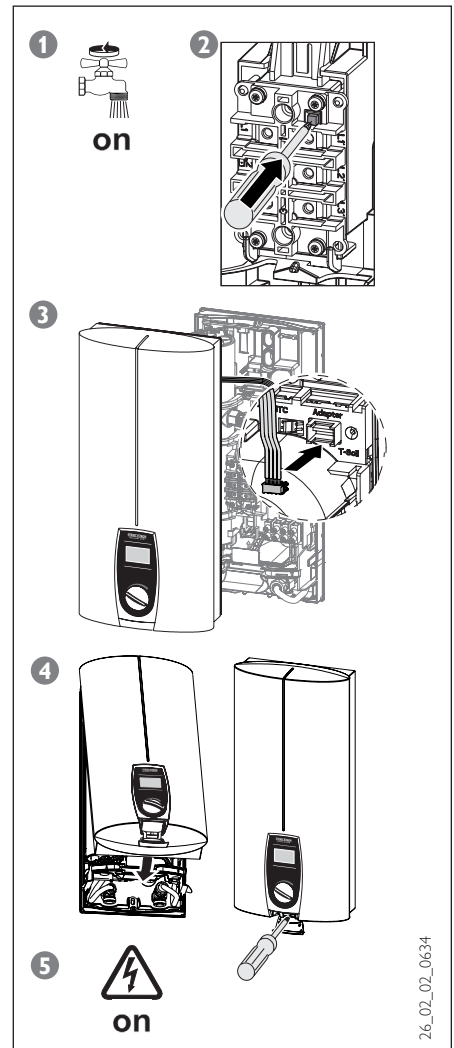
- 1 **Fill and vent the equipment. Please note: risk of running dry!**
Open and close all connected draw-off valves several times, until the air has been purged from the pipework and the equipment, see “2.2 Important information”.
- 2 **Activate the safety pressure limiter.** The DEL...SLi electronic LCD is supplied with the safety pressure limiter (AE 3) in a tripped state (press the reset button).
- 3 **Push set value transducer cable plug onto the PCB.**
- 4 **Fit the equipment cap and secure with the screw.**
- 5 **Switch on the mains power.**
- 6 **Check the instantaneous water heater function.**
- 7 **Remove the protective film from the user interface.**

Equipment handover

Explain the equipment function to the user and familiarise the user with its operation.

Important information:

- Make the user aware of possible dangers (scalding).
- Hand over these instructions to the user for safekeeping.





4. Installation alternatives for the qualified installer

Electro: UP – top, AP – bottom/top, Load-shedding relay; Water: AP; Turned device cover; Tile offset

Alternative installations are shown in figures **J** - **S**.

4.1 Mounting bracket when equipment is replaced **J**

- The existing mounting bracket can be used when replacing Stiebel Eltron equipment (except "DHF"). Use a suitable grommet in the back wall.
- When replacing "DHF", turn the mounting bracket (a) 180° (logo "DHF" turned towards the reader) and move the threaded stud (b) to the upper r.h. corner.
- When replacing third party equipment, use suitable holes for rawl plugs (c) to secure the mounting bracket supplied.

4.2 Electrical connection – finished walls

- Cut or make an opening for the power cable in the back wall and equipment cap (see **K** for possible locations for openings).
- The protection level changes to IP 24 (splash-proof) for electrical connection on finished walls.

Attention:

The equipment type plate must be marked as follows in ballpoint pen:
Cross through IP 25 and put a cross in the box IP 24.

4.3 Electrical connection – from above **L**

- Cut a hole for the power cable in the cable grommet.
- Push the terminal strip upwards from below, for this press in the snap-in tab (a) and isolate the terminal strip.

Attention:

Install flexible wires under the cable guide (b).
Snap the terminal strip into place at the top (c).

4.4 Rotated equipment cap

The equipment cap can be rotated for under-worktop installation **M**:

- Press in the snap-in tab to remove the user interface (a) from the equipment cap.
- Rotate the equipment cap (b) (not the equipment). Insert the user interface and lock all snap-in tabs into place.

Attention:

Do not install a user interface with damaged snap-in tabs.

- Push set value transducer cable plug onto the PCB (see **3** "3.10 Initial start-up").
- Hang the equipment cap (b) at the bottom and swing up into position on the back wall. Push the cap forwards and backwards to ensure correct seating of the surrounding back-wall gasket.
- Screw down the equipment cap.

4.5 Installation of cable grommet

The equipment may be installed with a retro-fitted cable grommet **N**.

- Press out the cable grommet using a screwdriver (a).
- Secure the equipment on the mounting bracket.
When using a 10 or 16 mm² power cable, enlarge the hole in the cable grommet.
- Push the cable grommet over the power cable (b, installation aid), fit to the back wall (c) and snap in place (d).

4.6 Priority control **O**

When used in conjunction with other electrical equipment, e.g. electric storage heaters, use the load circuit breaker:

- Load circuit breaker (see "7. Special accessories").
- Control cable to the contactor of the other equipment (e.g. electric storage heater),
- Control contact – opens when switching the DEL ... SLi on.
The load breaker trips as soon as the DEL ... SLi starts.

Only connect the load circuit breaker to the centre phase of the equipment terminals (mains power).

4.7 Compression fittings – finished walls

Stiebel Eltron pressure valve (finished walls)

WKMD or WBMD **P**

(part no. see "7. Special accessories")

- Fit the water plug G ½ with gaskets (a) (part of the standard delivery of Stiebel Eltron pressure valves for finished walls). Two water plugs (special accessory set) (see "7. Special accessories") are required for third party pressure valves.
- Fit the valves.
- Push the back-wall base below the valve connection pipes and snap it into the back-wall top.
- Screw the connection pipes to the equipment.

Prepare the equipment cap for this installation **R**:

- Break out the bush knock-outs (a) in the equipment cap cleanly, if necessary use a file.
- Knock out the lips from the cap guides supplied (b). If the valve connection pipes are slightly offset, the cap guides (b) can be used without knocking out the lips. In this case, the back-wall guides (c) are not used).
- Snap the cap guides into the bush knock-outs in the equipment cap.

- Fit the back-wall guides supplied (c) onto the pipes (press top and base onto pipe and push together).
- Push back-wall guides (c) onto back wall of the equipment until it stops.

Securing equipment

When connected to flexible water pipe systems, the back wall must be secured at the bottom by means of an additional screw (d). Hang the equipment cap (b) at the top and swing down onto the back wall. The webs of the cap guides must grip into the back-wall guides and lock into them.

4.8 Soldered fitting – finished walls

Using the special accessory **Q** (a), part no. see "7. Special accessories", it is possible to provide a screw connection with the customer's 12 mm copper pipes.

- Install parts of the special accessory.
- Solder the insert to the copper pipes.
- Push the back-wall base underneath the valve connection pipes and snap into the top of the back wall.
- Screw the connection pipes to the equipment.

Attention:

Note the information in "4.7 Compression fittings – finished walls":

- Equipment cap, equipment back wall and equipment fixing must be prepared for this installation method.
- Equipment fixing.
- Cap installation.

4.9 Installation of back-wall base

With connection fittings for finished walls, the back-wall base can also be fitted after the valves have been fitted **S**:

- Cut the back-wall base (3) as shown in the diagram (a).
- Insert the links (b from the extra item ordered) from the back into the centre part.
- Guide the centre part underneath the pipes, push up and fit with the back-wall base.
- Fit the back-wall base to the back wall. The back-wall base must be secured with an additional screw (c).
- Fit the valve connection pipes to the equipment fittings.

4.10 Offset installation for tiled surfaces

When the equipment is fitted onto a tiled surface (**B** max. 20 mm), the toggle (**F** 15) initially adjusts the wall clearance and then secures the equipment.



4. Installation alternatives for the qualified installer

Operation with pre-heated water; Temperature cut-out

4.11 Operation with pre-heated water

The DEL ... SLi electronic LCD permits further heating of the inlet water up to max. 60 °C (50 °C by DEL ...A).

! With inlet temperatures above 55 °C the water is not heated.
A maximum inlet temperature of 60 °C is ensured by the installation of a central thermostat fitting (see "7. Special fittings").

4.12 Temperature cut-out **M**

A cut-out on the outlet temperature at 43 °C can be set by the following steps:

1. Unscrew cover fixing screw and remove unit cover.
2. Push slide switch into position "43".
3. Fit unit cover and tighten screw.

5. Technical data and areas for the qualified installer

5.1 Technical Data

(The data on the unit rating plate apply)

Typ		DEL 18 SLi 25 A electronic LCD	DEL 18/21/24 SLi electronic LCD				DEL 27 SLi electronic LCD	DEL 18 A	DEL 27 A
Part number		227498	227499				227500	230136	230137
Rated output	400 V kW	18	18	21	24	27	18	27	
	380 V kW	16,2	16,2	19	21,7	24,4	-	-	
Rated current	400 V A	26	29	33	35	39	26	39	
	380 V A	24,7	27,6	31,4	33,3	37,1	-	-	
Fuse protection	A	25	32	32	35	40	25	40	
Output can be selected		nein	ja	ja	ja	nein	nein	nein	
Pressure drop *	With DMB (brown) MPa / l/min	0,075 / 5,2	0,075 / 5,2	0,095 / 6,0	0,125 / 6,9	0,155 / 7,7	0,075 / 5,2	0,155 / 7,7	
	Without DMB MPa / l/min	0,05 / 5,2	0,05 / 5,2	0,065 / 6,0	0,085 / 6,9	0,105 / 7,7	0,05 / 5,2	0,105 / 7,7	
Flow rate limiter (DMB)	l/min	12,0 / 7,5	12,0 / 7,5	12,0 / 7,5	12,0 / 7,5	12,0 / 7,5	12,0 / 7,5	12,0 / 7,5	
	color	brown / blue	brown / blue	brown / blue	brown / blue	brown / blue	brown / blue	brown / blue	
Temperature setting		30 - 60 °C				30 - 50 °C			
Rated content		0,4 l							
Design		Closed							
Rated pressure		1 MPa (10 bar)							
Weight		4,5 kg							
Protection class to EN 60335		1							
Protection class to EN 60529		IP 25 (IP 24 at electrical connection- finished walls)							
Test mark		See chapter on application areas							
Water connection (external thread)		G ½ A							
Electrical connection		3/PE ~ 380 - 400V 50 Hz				3/PE ~ 400V 50 Hz			
VDEW approval		vorhanden							
Bare wire heating system		See chapter on application areas							
Cold water inlet temperature		max. 65 °C							
Area of use		Low-lime and lime-containing water							
Flow rate "in"		≥ 2,5 l/min							

Table 2

* *Values for 400V. The values for pressure drop also apply to minimum flow pressure to DIN 44851/ flow rate for heating from 10 °C to 60 °C (Δθ 50 K). With reference to DIN 1988 part 3, table 4, a pressure drop of 0.1 MPa is recommended for sizing the pipework.

5.2 Area of application

Specific electrical resistance and specific electrical conductivity.

Details as		Ranges of use for different references temperatures		
		Normes details at 15 °C	bei 20 °C	bei 25 °C
Resistance	Ωcm	≥ 900	≥ 800	≥ 735
Conductivity	mS/m	≤ 111	≤ 125	≤ 136
Conductivity	μS/cm	≤ 1110	≤ 1250	≤ 1360

Table 3

6. Troubleshooting by the user and the qualified installer

Fault	Cause	Display diagnosis LED	Further diagnosis with service monitor *	Elimination
No hot water / Outlet temperature not correct	No mains voltage	No LED on		User: Check fuse in the house installation
	AE3 has tripped			Qualified installer: Clarify cause. Rinse heating-system of unit, in order to avoid over-heating. Switch AE3 on again (check correct connection STB).
	Electronic fault			Qualified installer: Check electronics and if necessary replace
	Failure of a phase	Green LED flashing	Power bar 100 %	User: Check fuse in the house installation
	Unit at power limit	Yellow LED off		User: Reduce flow Qualified installer: If necessary install DMB
	Inlet temperature > 55 °C	Green LED flashing Red LED on	Display C1 (inlet)	Qualified installer: Limit inlet temperature
	DFE faulty or not plugged in	Green LED flashing Yellow LED of	Check flow	Qualified installer: Check or replace DFE connection
	Heating system faulty	Green LED flashing Yellow LED on		Qualified installer: Check heating system and replace if necessary
	Inlet sensor faulty	Green LED flashing	Error E1 (ELEC)	Qualified installer: Replace electronics
	Outlet sensor faulty	Red LED permanently on	Error E2 (NTC)	Qualified installer: Check connection if necessary replace outlet sensor
Error in the safety electronics	Green LED flashing Red LED on in tap operation	Error E3 (AE3)	Qualified installer: Attach AE3 connection cable and check AE3	
Flow too small	Showerhead/perlatators scaled		(Check flow)	User: Check fuse in the house installation
	Fouling			Qualified installer: Clean filter
LCD display completely off	Loose connecting cable to control unit	Green LED flashing		Qualified installer: Attach/check connecting cable
	Control unit electronics faulty			Qualified installer: Check control unit if necessary replace
Set value cannot be set above 43 °C	Temperature cut-out is activated	Green LED flashing		Qualified installer: Deactivate temperature cut-out
Short term cold water	No flow break in < 2.5 l/min			Unit goes automatically back into operation if sufficient flow present > 2.5 l/min
	Air recognition trips (cold water for approx. 1 min)			Unit goes automatically back into operation with delay

Table 4



LED display options

red yellow green

* The service monitor **Order No 22 13 32** offers further diagnosis option (see "7. Special fittings").

7. Special accessories

Remote controls for DEL...SLi

The radio remote controls are operated by means of wireless user interfaces. Perfect communication is guaranteed up to 25 m in buildings. The instantaneous water heater can be operated with a maximum of 6 radio remote controls (not for DEL ...A)

The control unit on the equipment only shows the temperature set in the remote control, it can not adjust the temperature!

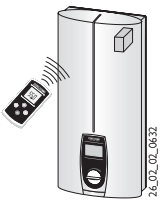
• FFB 1 – Radio remote control

Part no. 16 94 78

Operation from two locations:

Equipment and radio remote control.

Accessory: radio remote control (transmitter), connection module (receiver) and wall mount.

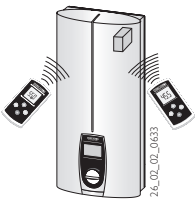


• FFB 2 – Radio remote control

Part no. 16 94 82

Radio remote control as an extension of FFB 1

Accessory: radio remote control (transmitter) and wall mount.



Two-handle pressure valves

• Kitchen valve WKMD

Part no. 22 24 37

• Bath valve WBMD

Part no. 22 24 38

Installation accessories

• Under-worktop set – unfinished walls

Part no. 07 05 65

Connections for finished walls, G 3/8", top

• Set 2x water plugs G 1/2

Part no. 07 43 26

Required with third party pressure valves (P a).

Note:

Not required for Stiebel Eltron valves WKMD and WBMD.

• Installation set for finished walls

Solder fitting – copper pipe:

Part no. 07 40 19 (Q a)

comprising:

- 2 x water plug G 1/2"
- 2 x union nut 1/2" with insert for solder fitting Ø 12 mm.

Compression fitting – copper pipe:

Part no. 22 23 80

- 2 x water plug G 1/2"
- 2 x compression fitting 1/2" x 15 mm, plus gaskets.

Compression fitting – plastic pipe:

Part no. 22 23 81

- 2 x water plug G 1/2"
- 2 x compression fittings 1/2" x 16 mm (Viega: Sanfix-Plus or Sanfix-Fosta), plus gaskets.

• Universal mounting frame

Part no. 22 02 91

consisting of:

- mounting frame with
 - electrical wiring
- This set creates a gap of 30 mm between the equipment back wall and the installation wall.
- This enables the electrical connection to be routed over unfinished walls at any point behind the equipment. It increases the equipment depth by 30 mm and reduces the protection level to IP 24 (splash-proof).

• Offset installation – unfinished walls

Part no. 22 02 90

consisting of:

- universal mounting frame (see part no. 22 02 91 for specification).
- pipe bends for vertical displacement of the equipment by 90 mm downwards compared to the water connection.

• Gas water-heater replacement set

Part no. 22 05 10

consisting of:

- universal mounting frame (see part no. 22 02 91 for specification).
- pipe bends for installation at existing gas water-heater connections (cold water left and hot water right).

• Load circuit breaker LR 1-A

Part no. 00 17 86

Priority control of the DEL...SLi electronic comfort for simultaneous operation of e.g. electric storage heaters. For connection of the LR 11-A, see Q.

• Accessories for operation of a DEL ... SLi with pre-heated water ZTA 3/4 – central thermostatic valve

Part no. 07 38 64

By adding cold water via a bypass pipe, the central thermostatic valve installed immediately above the storage water cylinder guarantees that the outlet temperature of 60 °C is not exceeded.

• Service monitor

Part no. 22 13 32

Diagnostic unit for fault recognition in the DEL ... SLi / DEL ... A..



8. Guarantee

For guarantees please refer to the respective terms and conditions of supply for your country.



The installation, electrical connection and first operation of this appliance should be carried out by a qualified installer.

The company does not accept liability for failure of any goods supplied which accordance with the manufacturer's instructions.



9. Environment and Recycling

Recycling of obsolete appliances

Appliances with this label must not be disposed off with the general waste. They must be collected separately and disposed off according to local regulations.

