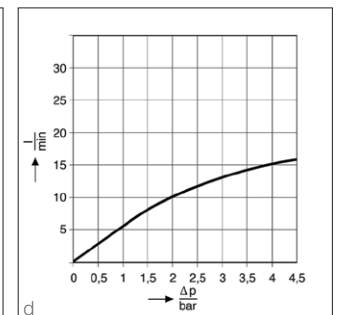
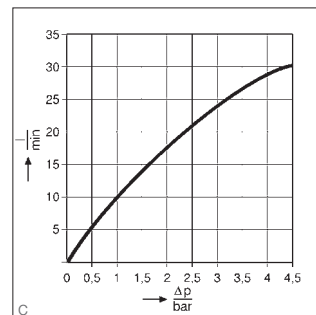
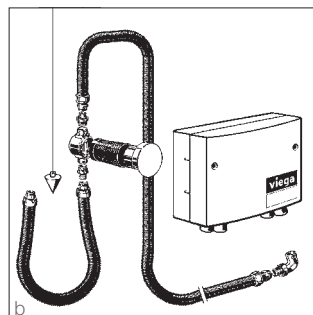
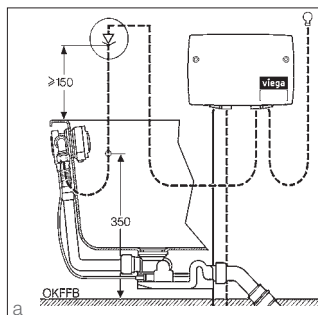
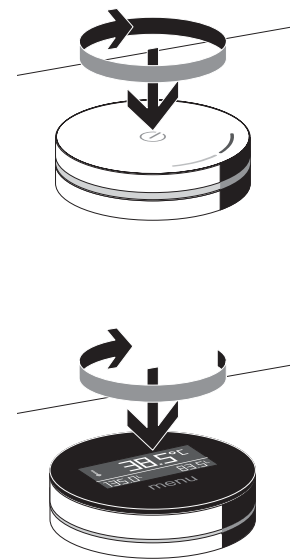
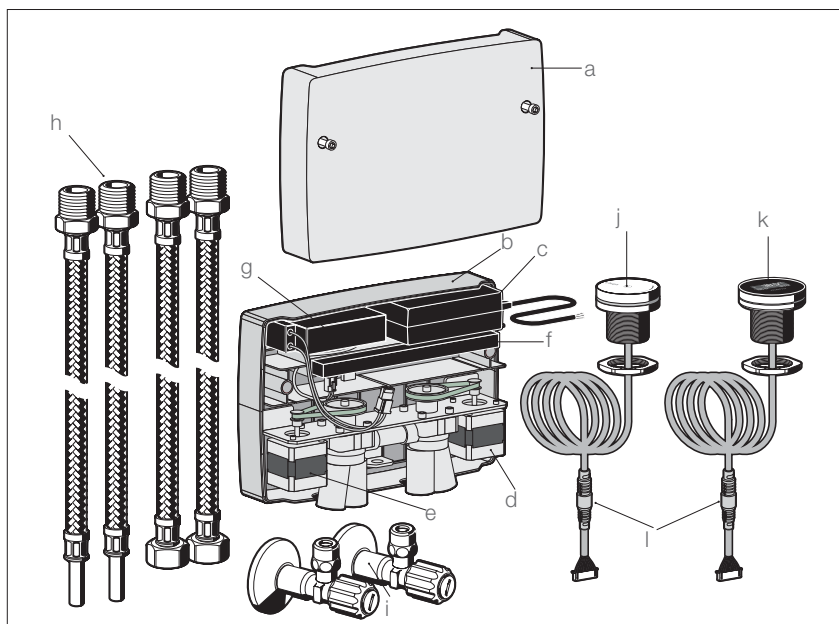
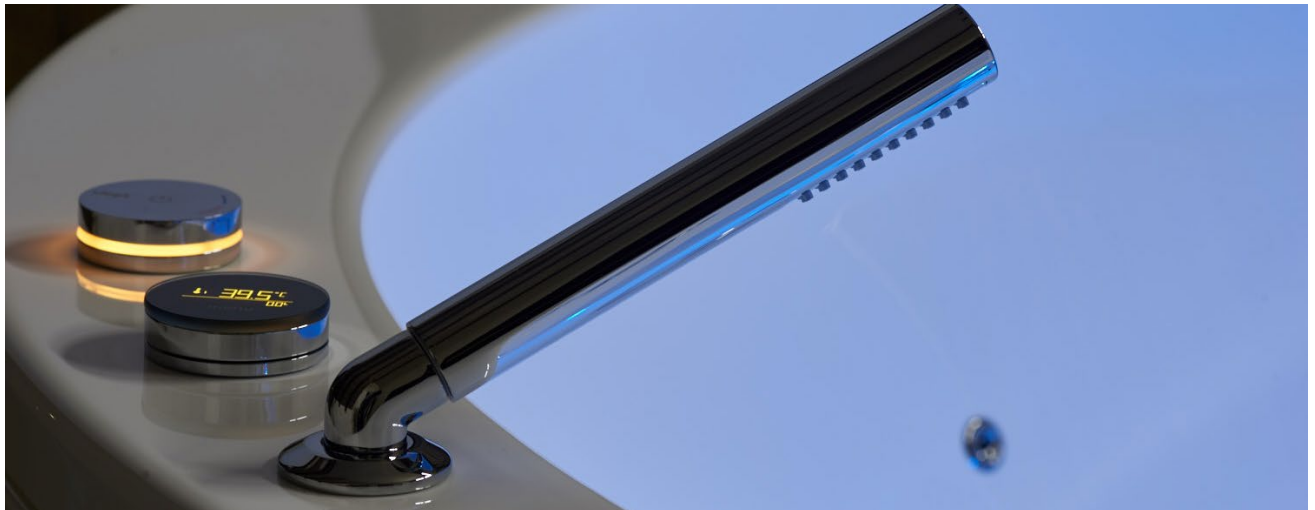


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Operating instructions – Multiplex Trio E3

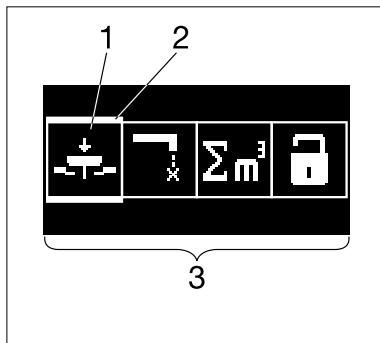
The Multiplex Trio E3 has two operating conditions

- Operation condition with water switched off (OFF)
- Operation condition with water switched on (ON)

Control Element Multiplex Trio E3

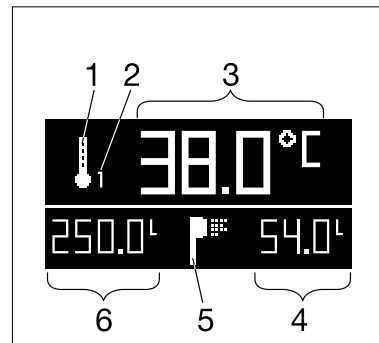
1. Display Element

a. Menu display (water flow switched off)



1. Menu icon
2. Focus
3. Menu list

b. Live display (water flow switch on)



1. Symbol
2. Quick Access
3. Counter value
4. Actual value
5. Confirmation / Report / Status symbol
6. Target value (optional)

With status symbol  additional battery operation is shown (when necessary)

2. Control Element

Turning Knob

- with switch function

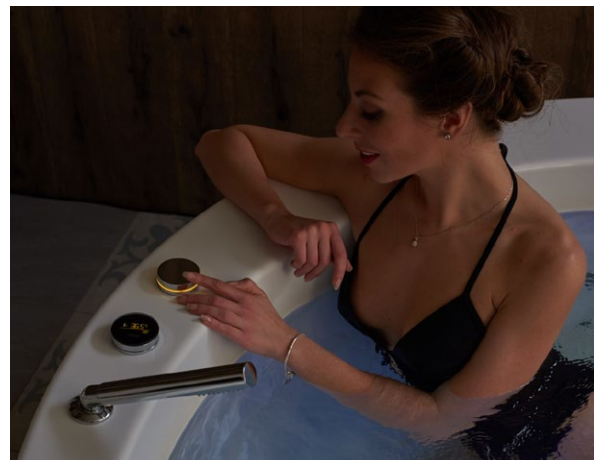
Coloured Ring

- Display menu: colour turquoise
- Display live: Colour according to water target temperature (flashing until target temperature is reached).

3. Menu Key

Turning knob

- Key for the activation of the menu display



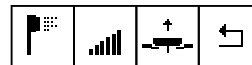
Operating instructions – Multiplex Trio E3

Control and display element

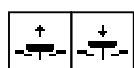
Menu structure displays, operation condition: ON (water switched on)

The displays are split into two menu sections

Reduced menu in acc. with  in operating condition: **OFF** menu

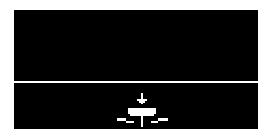
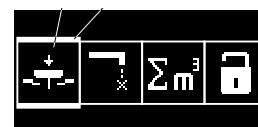


Extended menu in acc. with  in operating condition: **OFF** menu





Opening and closing the drain fitting automatically.

There must be a corresponding motorized drain fitting set fitted and wired in (not included in the scope of delivery). The corresponding motorized drain fitting set can be opened and closed electronically via the MULTiplex Trio E3 control and menu element.



Condition	The system is off
Action	Press display element, briefly. Menu is displayed, turn control element, set focus to drain valve. Confirmation by pressing the control or display element.
Result	Drain fitting closes or opens.

Water inlet start/stop.

Condition	The system is off.
Action	Press control element once, briefly.
Result	Water begins to flow (automatic stop after max. 45 mins.)
Action	Press control element once, briefly.
Result	Water stops flowing. See for "save" function:  



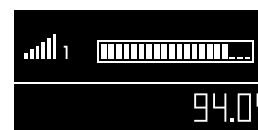
Set water temperature.

Condition	Water is running.
Action	Turn control element (do not press).
Result	Turn clockwise = warmer. Turn anti-clockwise = colder. (see display element display).
Note	At a target temperature of $\geq 40^{\circ}\text{C}$ 1:10 reduced turning movement (anti-scalding mechanism). Anti-scalding mechanism: Only use this function when there is no risk of injury – pay particular attention to the welfare of children!



Set water flow rate.

Condition	Water is flowing.
Action	Turn control element whilst pressed.
Result	Turn clockwise = stronger. Turn anti-clockwise = weaker. (see display element display).
Note	If the control element remains inactive for 10 seconds, the display will return to the temperature function.



Multiplex Trio Electronic Bath Filler with thermostatic valve and hand-shower

Operating instructions – Multiplex Trio E3



Switching between hand shower use and bathtub.


Condition Water is flowing.

Action Press the display element, briefly, menu is shown turn control element, set focus to hand shower/bathtub filling confirm by pressing the control or display element.

Result Switching to hand shower / bathtub filling.



Saving personal data


Up to three people can save their individual settings for an optimal bath and recall it directly next time. The temperature of the water, the flow rate and the water depth of the bathtub can be saved. The saved settings can only be set or changed in the extended menu  (see extended menu display).



Example Setting 1.


Condition System is off.

Action Press control element once briefly – the water is flowing. The water temperature can be changed at will during filling.

The maximum temperature is limited in accordance with .

The live display shows the water volume that has passed through the fitting.

Press the display element once – change to menu display.

Using , the filling volume (bottom right) as well as the average temperature and the last set flow rate are saved. The saved temperature corresponds with the effective temperature and may differ considerably from the last target temperature.

Result The data for setting 1 have been saved – the water flow stops. The saving process for settings 2 and 3 is carried out in the same way. (Start: For setting 2: press briefly twice, for setting 3: press briefly 3 times).

Notes A saved setting can be overwritten at any time, on condition that the new water volume is smaller than the one stored.


The saved setting can be deleted in advance using .


The minimum volume that can be saved is 10 litres.

Recalling the personal settings.

Condition System is off – the data are available – the data has been previously saved as described in "saving personal data."

Action Press the control element once, briefly.

Result saved setting .

(press control element twice = Setting .

Press control element three times = Setting .


The bathtub fills itself with the pre-set watertemperature and water flow rate and stops at the filling depth (250 l).



Operating instructions – Multiplex Trio E3

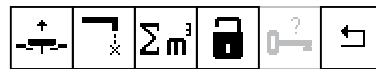


Deleting the saved settings (re-setting to factory settings).

- Condition** The system is off
- Action** Choose personal setting 1, 2 or 3 using the control element
Press display element once – change to the menu display.
- Result** Using , the setting is deleted.
Result The personal setting is deleted and re-set to factory settings – the water in-flow is stopped.

Menu structure displays, operating condition: OFF (water switched on).

The display is split into two menus



Reduced menu.

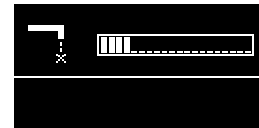



Extended menu.



Cleaning mode.

Using the cleaning mode, the control element can be deactivated for 45 seconds for e.g. for cleaning work.



- Condition** The system is off.
- Action** Press the display element, briefly. The menu is displayed.
Turn the control element, set focus to cleaning mode by pressing the display element.
Confirm by pressing the display element.
- Result** Control element is deactivated, LED coloured ring flashes green.
- Action** Cancel by briefly pressing the display element, turning the control element to the menu point  selecting and presses again to confirm.



Display water consumption.

- Condition** System is off.
- Action** Briefly press the display element, the menu is displayed.
Turn control element, set focus to water consumption.
Confirm by pressing the control or display element.
- Result** Water consumption is shown in cubic metres and the last extraction is shown in litres.



Multiplex Trio Electronic Bath Filler with thermostatic valve and hand-shower

Operating instructions – Multiplex Trio E3



Display extended menu.

- Condition** System is off.
- Action** Briefly press the display element, the menu is displayed.
Turn control element, set focus to key code.
Confirm by pressing the control or display element.
- Result** Pre-set delivery code = 000.



Set new key code.

- Condition** See "Display extended menu".
Pre-set delivery code = 000.
- Action** Create new code by turning control element.
Confirm by pressing the control or display element.
- Notes** When called-up, the code 000 is always shown.
For safety reasons, the previous code is not shown.
This menu point is only shown for one hour after commissioning (mains connection) for safety reasons.



Close menu bar.

If the control element is inactive for five seconds, the menu bar is closed automatically.

Icons from the extended menu in the "OFF" operating condition.



Set max water flow time

- Condition** System is off.
- Action** Briefly press the display element, the menu is displayed.
Turn control element, set focus to water flow time.
Confirm by pressing the control or display element.
Set by turning the input range from 1 – 99 minutes and confirm.
- Result** Water inlet time is changed.


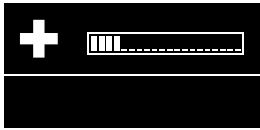













Set new water flow temperature?


- Condition** System is off.
- Action** Briefly press the display element, menu is shown.
Turn control element, set focus to restrict water flow temperature.
Confirm by pressing the control or display element.
Set by turning the input range from 4 to 80 °C and confirm.
- Result** Water flow temperature is changed.
- Notes** Factory setting is 80 °C.
All other pre-set values will be set to this value, if necessary.


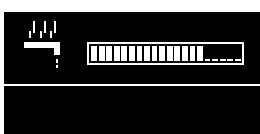


Operating instructions – Multiplex Trio E3

	Diagnosis: Control and water flow are checked.	
Condition	The system is off.	
Action	Briefly press the display element, menu is shown. If necessary, turn control element, set focus to check water flow. Confirm by pressing the control or display element.	
Result (coloured ring control element)	The MT E3 carries out an automatic testing programme. Cartridge position is checked and calibrated. INACTIVE Hot water ON: RED Cold water OFF: GREEN Cold water ON: BLUE Temperature sensors and water meter are checked. When  appears, the diagnosis is complete. Report display: If  is shown, the function is in working order.	
	In the case of malfunction, a report icon is shown 1  2  1) Temperature sensor 2) Volume flow meter.	

	Display statistics.
Condition	The system is off.
Action	Briefly press the display element, menu is shown. Turn control element, set focus to statistics. Confirm by pressing the control or display element.
Display	Operating hour meter  (*1) Number of pre-set water inlets    (*2) Number of pre-set hot water disinfections  Number of minutes of battery operation  (*3)
Note	For legal reasons, the statistics cannot be deleted In the case of mains and battery power failure, the maximum deviation in the statistical value (*1 ≤ 10 hours, (*2 ≤ 10, (*3 ≤ 10 minutes

	Temperature display in the unit °C / °F.
Condition	The system is off.
Action	Briefly press the display element, menu is shown. Turn control element, set focus to temperature display. Confirm by pressing the control or display element.
Result	The display element switches to the required temperature unit.

	Hot water disinfection.	
Condition	The system is off.	
Action	Briefly press the display element, menu is shown. Turn control element, set focus to hot water disinfection. Confirm by pressing the control or display element.	
Result	The Multiplex E3 carries out an automatic disinfection programme. Maximum duration is 5 minutes at maximum supply temperature and low volume. Afterwards, flush cold for 5 seconds. Caution: danger of scalding! The TLI ring is flashing red in this condition. Cancellation of hot water disinfection; press TLI button briefly	

Multiplex Trio Electronic Bath Filler with thermostatic valve and hand-shower

Operating instructions – Multiplex Trio E3



Re-set the controls to factors settings.

Condition	System is off.
Action	Briefly press the display element, menu is shown. Turn control element, set focus to factory settings. Confirm by pressing the control or display element.
Result	The Multiplex Trio E3 is re-set to the factory settings.

Maintenance

This product is made of high quality materials and require only minimal maintenance.

The following maintenance tips help to preserve the surface and prevent damage through incorrect cleaning.

- Fittings and control parts should be wiped dry after used.
- Only use mild cleaning products that contain soap.
- **The following must not be used:** Scourers, abrasive sponges, hydrochloric acid, lime, plaster or cement removers, solutions or cleaning agents containing acid ($\text{pH} \leq 4$), lime scale remover or vinegar-based cleaner – and cleaning agents where the chemical solution is not known which may be sold as “special cleaner for fittings”.



Troubleshooting

ERROR	CAUSE	SOLUTION
The device shows no active function.	The device is not connected to the mains	Connect 230/115 V network connection
	Mains power failure	Check fuse box
	The mains supply is not connected to the control electronics	Connect 2-poled plug (15 V) with control electronics
	Control or display element is not connected	Check connections
The water connection required is not right	Hot and cold water connections mixed-up	Change connections
	Hot or cold water corner valve closed or only half opened	Fully open both corner valves
	Kink in the connecting hose	Check connection hoses
	Connecting pipe blocked	Flush pipes and clean filter
	Tank empty or flow-through heater not connected	Check tank and connections
	Temperature sensor not connected or defect	Carry out function "Diagnosis mode" (see operating instructions)
	Motor for temperature regulation not connected or defect	Carry out function "Diagnosis mode" (see operating instructions)
	Cog wheel belt defect or dislodged	Check
	Difference in supply volume between hot and cold water too large ($\Delta > 1$ bar)	Balance pressure to eliminate difference
No water flow	Corner valves closed	Fully open corner valves
	No water supply	No water pressure, main fitting blocked
	Kink in supply hose	Check
	Dirt filter contaminated	Clean
	The device is not connected to the mains	Connect 230/115 V network connection
	Mains power failure	Check power supply
	The mains supply is not connected to the control electronics	Connect 2-poled plug (15 V) with control electronics
	Control and display elements are not connected	Connect control or display elements
The required water flow is not achieved	Hot or cold water corner valve closed or only half opened	Fully open both corner valves
	Kink in the connecting hose or blocked	Flush pipes and clean filter
	Motor for temperature regulation not connected or defect	Carry out function "Diagnosis mode"
	Cog wheel belt defect or dislodged	Check
	Stored flow rate is too low	Carry out "factory settings" option (see operating instructions)
Constant flow of water	Motors not calibrated	Carry out function "Diagnosis mode" (see operating instructions)
	Valves will not close	See diagnosis mode
The water is simply shut off after a period of time	The maximum running time has been reached	see operating instructions
	Individually stored filling volume has been reached	Function "delete the saved settings"

Multiplex Trio Electronic Bath Filler

with thermostatic valve and hand-shower

Troubleshooting

ERROR	CAUSE	SOLUTION
The saved filling volume is not correct	Flow through sensor is dirty	Clean flow through sensor
	Flow through sensor is defective or not connected	Carry out function "diagnosis mode" (see operating instructions)
Control unit flashes green	Active cleaning mode	Wait 45 seconds or deactivate via menu
Operation not possible during power failure	Battery not in place or not connected	Connect battery with controller (ACCU)
	Battery flat	Charge (at least 24 hours)
	Battery defective	Replace (replace every 3 to 5 years)
The casing is damp or wet	Non-permitted installation situation	See the label on the lid
	Inlet and outlet of the valves are not properly sealed	Check and, if necessary, re-seal
	Condensation on the valve bodies is possible	No action
The control elements (with cable connection) does not respond	The control elements are connected incorrectly	Must be connected at control- (TLI A) and display elements
	The control unit is defective	Replace control unit
	The rotating knob is difficult to use	Remove and clean rotating knob
Only cold water flowing from hand shower	Preset is set to factory setting "cold"	Change pre-set temperature





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