

Product info Truma AquaGo instant water heater

July 2019



heating | cooling | controlling



More comfort on the move

Truma AquaGo comfort

– the revolutionary instant water heater

Constant hot water availability in recreational vehicles.

SAI Global approved

Customers whose vehicles are equipped with the Truma AquaGo comfort will have a comfortable water temperature, while enjoying an unlimited supply of hot water without the risk of scalding.



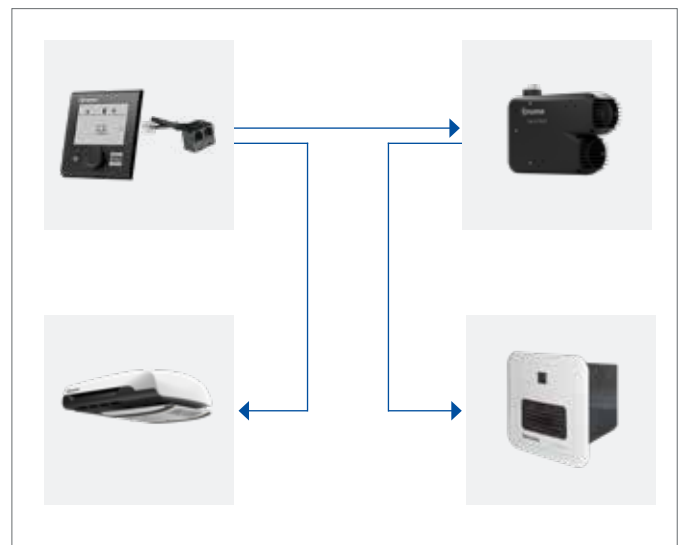
Love your hot water

- Powerful and efficient instant hot water system
 - the instant water heater utilises hybrid technology with a temperature stabilizer
- Constant water temperature – no scalding
 - electronic control delivers a constant water temperature at the tap, even with varying inlet water temperature, at high or low flow rates
 - microprocessor controlled stepless burner management between 5.9 - 17.6 kW
- Endless hot water even at high flow rates
- Simple maintenance with “Easy Drain Lever”
 - reusable filter cartridge reduces scale particulates
- Can also be operated with the digital control panel Truma CP plus VarioHeat (optional)

System compatibility *

One control panel (Truma CP plus VarioHeat), multiple functions. The system was designed to also allow for the connection of a Truma air conditioning system and the Truma VarioHeat heating system. Enjoy the comfort of a heater, instant hot water and air conditioning system all operated from one convenient panel.

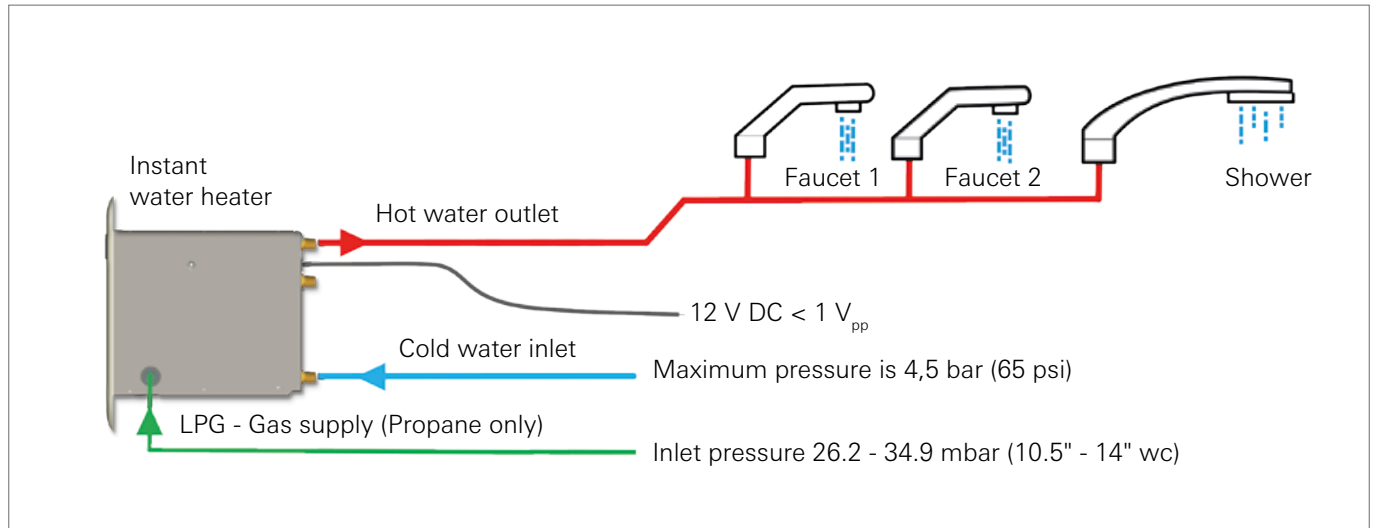
Example



* Aventa compact plus AU
Aventa comfort AU from serial no. 24084022, year of construction 2013/04.
Truma VarioHeat eco AU with Truma CP plus VarioHeat control panel from software version 5.xx.
AquaGo all models
additionally required: TIN distributor (36120-01) and TIN cables

Connection diagram

Water and Gas - Application



Functional description

The Truma AquaGo comfort instant water heater is connected between the vehicle's fresh water supply and its hot water plumbing system. When the appliance is switched on, the burner starts automatically as soon as the hot water tap is opened and the flow of the water is greater than approximately 1.5 L per minute. The stepless burner control adjusts heater output based on flow and inlet water temperature, maintaining an outlet temperature of approximately 49 °C.

A temperature stabilizer minimizes outlet temperature fluctuations. A comfortable water temperature at the tap or shower is achieved by mixing with cold water. The burner switches off automatically when the tap is closed to conserve LPG.

The Truma AquaGo comfort permits operation without risk of freezing down to a temperature of -20 °C. A standard feature is the "ECO" mode that saves gas and electricity. With the switch in the "COMFORT ON" position, the temperature in the appliance is held at approximately 49 °C for maximum convenience.

Safety features

- Three thermal cut-off switches protect the appliance from excessive temperatures.
- A flame monitoring device switches off the gas supply to the burner if the flame is extinguished.
- If voltage drops, the gas supply to the burner will be switched off.
- In the event of a short circuit (>10 A), the fuse will switch off the appliance.
- If the flue fan fails, the gas supply to the burner will be switched off.
- A water thermal cut-off switch avoids excessive water temperatures, i.e. above 85 °C inside the heat exchanger.
- An exhaust-gas over temperature switch avoids excessive exhaust-gas temperatures, i.e. above 160 °C.



Truma AquaGo comfort control panel

Truma AquaGo comfort control panel

- Advanced TIN bus communication between the device and control panel
 - No additional 12 V power source is required, the controller runs of the devices power supply
- Familiar operating modes
 - “Comfort On”, “Eco On”, and “Off” (Standby)
 - can be selected conveniently from inside the vehicle using the control panel
- Status display / error messages via LED
- Semi-automatic decalcification function “Clean”
 - An LED indicates when it is advisable to decalcify the device
 - LED signals guide you through the semi-automatic decalcification process



Truma CP plus VarioHeat control panel

Retrofitting

Truma AquaGo comfort's manufactured after 2015 come standard with a rotary dial control panel. This can be retrofitted with a digital CP Plus in order to integrate with other Truma appliances.

Truma CP plus VarioHeat control panel

The ergonomic design and intuitive operation that simplifies usage.

- **Easy operation:** With a rotary push button selection
- **Large display:** With background lighting for easy readability at night
- **Power saving mode:** Lighting can be switched off or dimmed depending on your preference
- **Status:** Warning/fault function



Truma AquaGo comfort decalcification tablets

Truma decalcification tablets have been specially developed and optimized for material compatibility and effectiveness.

Decalcification via "Easy Drain Lever"

The Truma AquaGo comfort is simple to decalcify via the standard "Easy Drain Lever" maintenance and accessory interface.

Due to the design of instant water heaters, their narrow pipe cross-section tends to calcify relatively quickly, depending on the water hardness and the flow rate of the water. However if you decalcify when needed, your units water flow and efficiency will remain at Truma's high operating standards.

Semi-automatic decalcification drain

- The standard control panel shows when it is advisable to decalcify the device (depending on water consumption).
- The specially developed Truma decalcification tablet, have been optimised for material compatibility and effectiveness. The tablets are to be placed in the filter sieve of the "Easy Drain Lever".
- The control panel guides you through the decalcification process.



Draining water is easy

Truma developed a valve mechanism "Easy Drain Lever", that simplifies the process of fully draining the Truma AquaGo comfort instant water heater before winter or other extended periods of non-use.

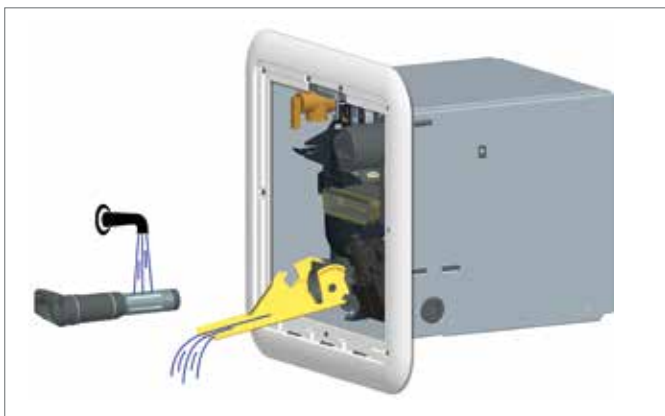
With the water system in a depressurised state, simply release the yellow "Easy Drain Lever" on the front side of the appliance with your thumb and move it downward to its fully open position.

The "Easy Drain Lever" serves as a drainage chute that guides the water away from the vehicle.

The "Easy Drain Lever" opens the water lines in the appliance and simultaneously ejects the filter cartridge.

The water in the appliance can now drain completely.

There is no need to flush the appliance with compressed air in order to remove residual water. The filter cartridge should be removed after ejection, as it allows for better water flow during the drainage process.

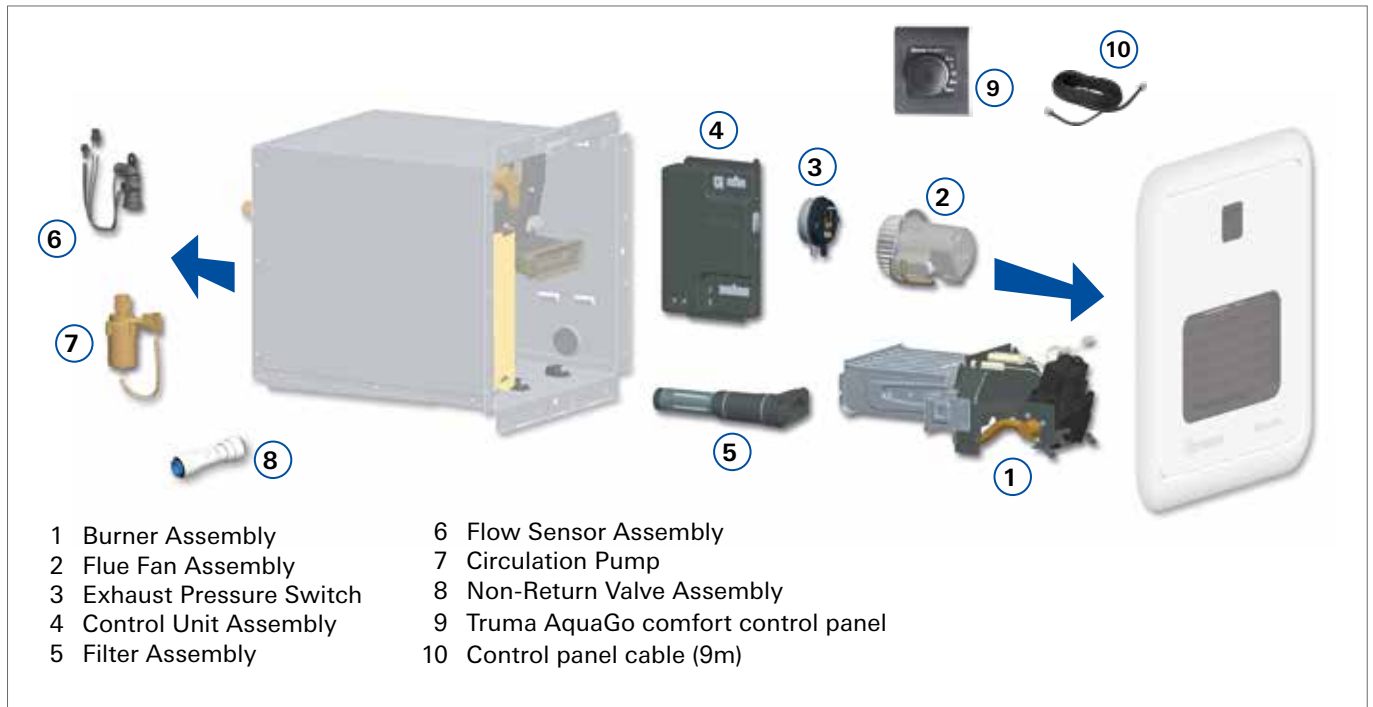


Cleaning the filter is easy

After draining the water from the Truma AquaGo comfort instant water heater (see preceding description), the filter cartridge can be easily pulled out and the filter cleaned if necessary. The filter protects the appliance from dirt particles in the water circuit.

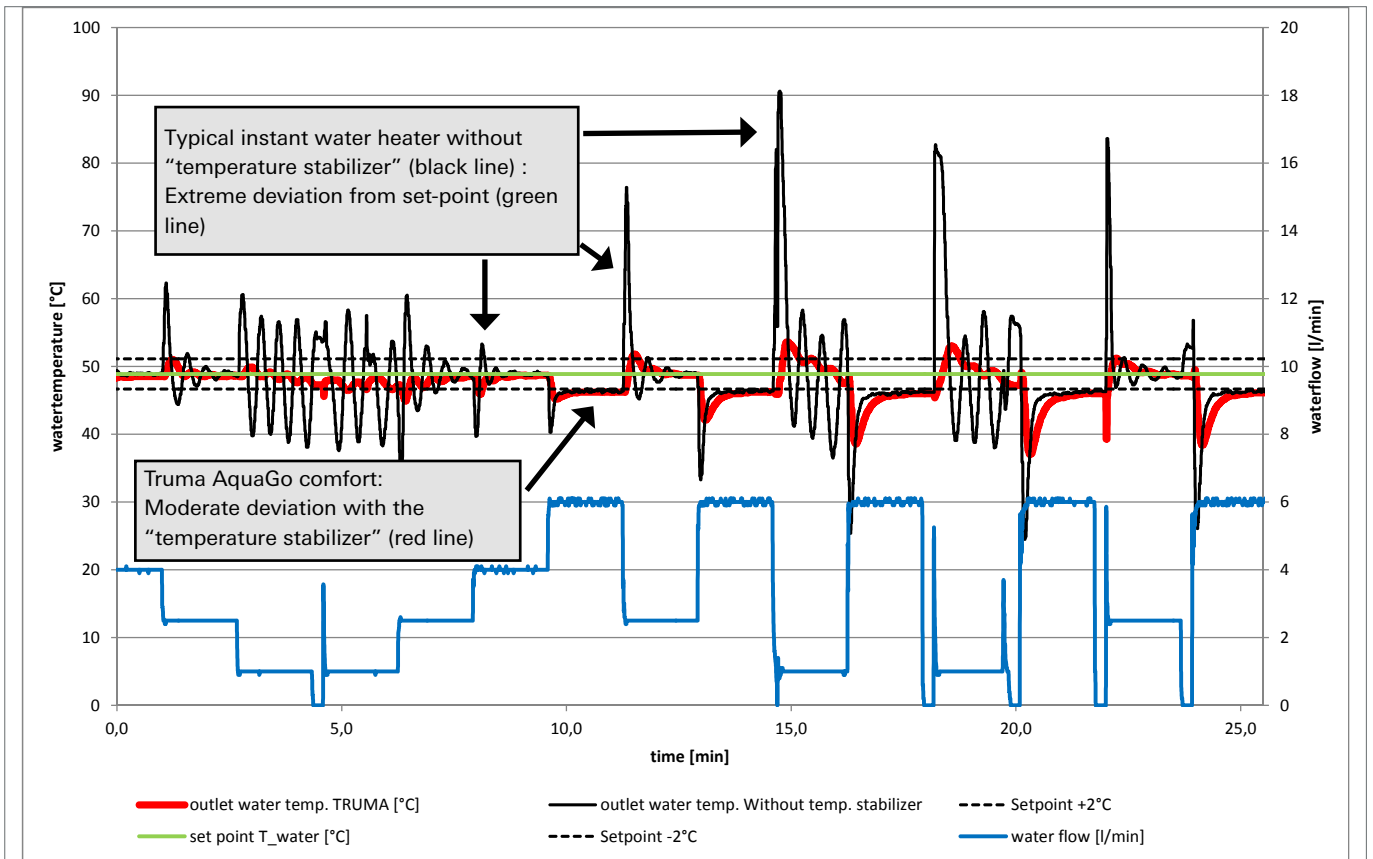
To re-install the filter cartridge, simply slide it into the appliance until it contacts the "Easy Drain Lever"; then re-close.

Easy service

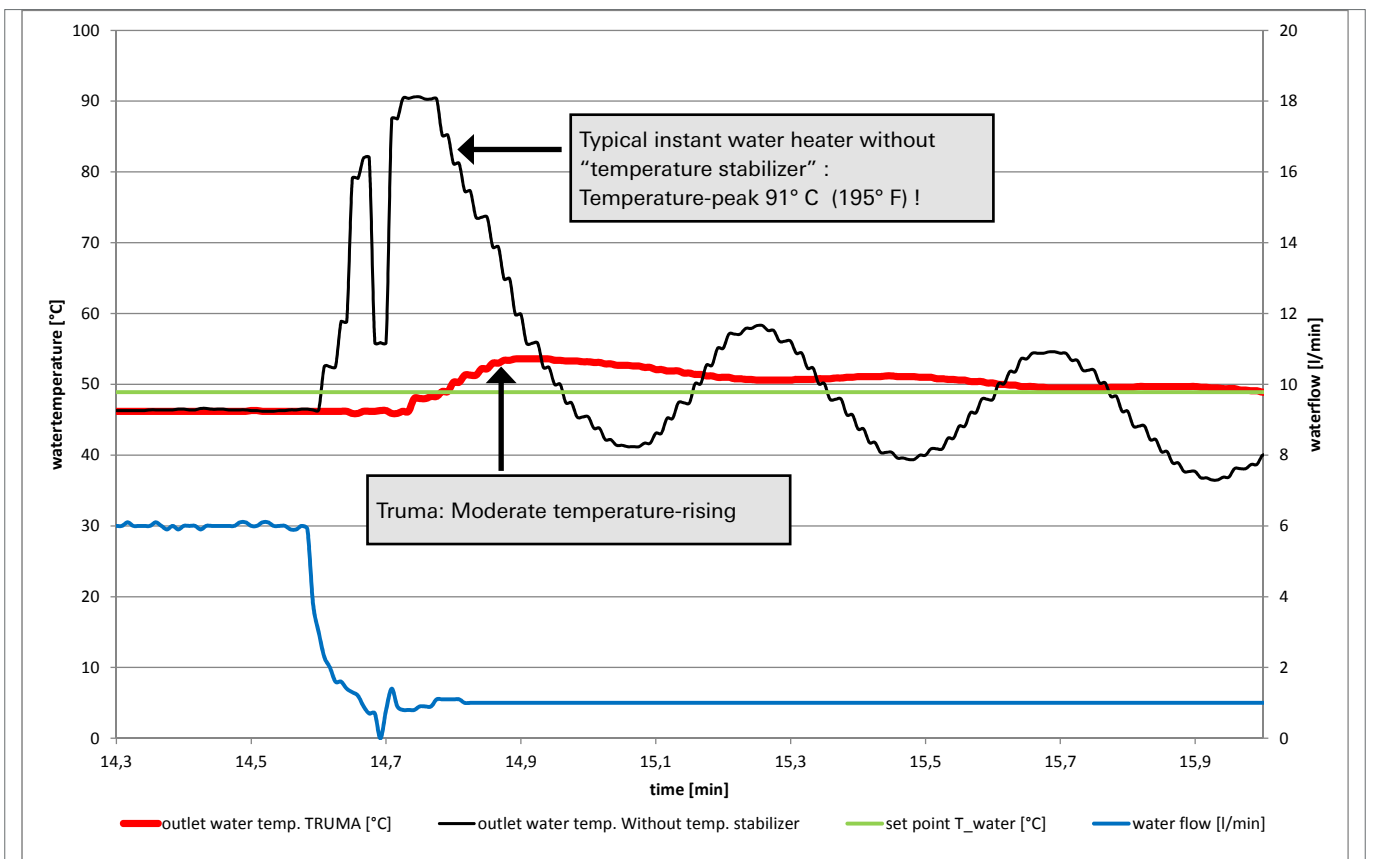


Robustness, a long service life, and simplicity of service were very high priorities during development of the Truma AquaGo comfort instant water heater. Should service or replacement of components be necessary, this can be completed without removing the entire appliance, unlike many other products of this type. Appliance components (1 - 5) can be easily maintained or replaced from the front side of the Truma AquaGo comfort instant water heater.

Benchmark measurements



Comparison of warm water outlet temperatures from typical instant water heaters versus the Truma AquaGo comfort instant water heater.

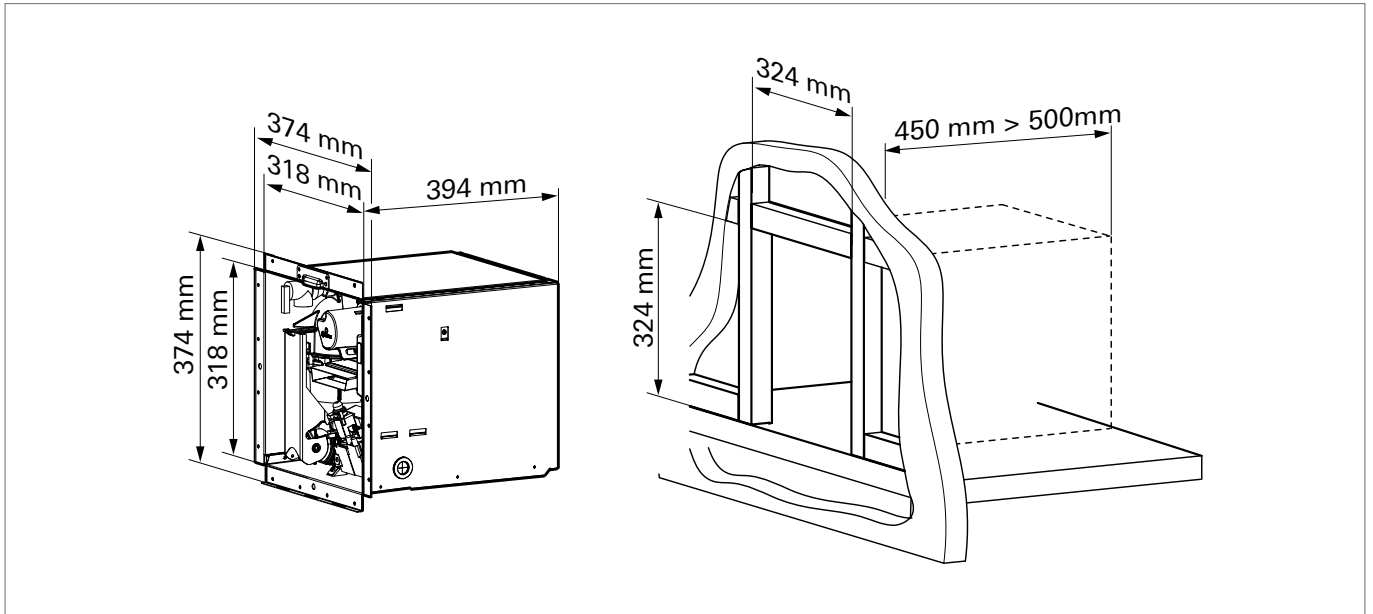


Detailed view of temperature curve when changing the water flow rate from approximately 6 l/min. to approximately 1 l/min.

Technical data

Truma AquaGo comfort	
Nominal input rate	5.9 - 17.6 kW (20,000 - 60,000 BTU/h)
Fuel	LP Gas (Propane only)
Fuel inlet pressure	26.2 - 34.9 mbar (10.5" - 14" wc)
Fuel manifold pressure	3.2 - 24.9 mbar (1.3" - 10" wc)
Nominal voltage	12 V DC
Power input	< 2.5 A
Standby current	< 0.045 A
Water operating data	
Water operating pressure	4.5 bar (65 psi maximum)
Standard water outlet temperature	49 °C (120 °F)
Water volume	1.3 liter (0.35 gallons)
Shipping weight (approximately)	18.6 kg (41.0 lbs.)
Weight (approximately)	15.5 kg (34.2 lbs.)
Access door standard	
Width	450 mm (17.7 in.)
Height	450 mm (17.7 in.)
Depth	20.2 mm (0.8 in.)
Shipping weight (approximately)	2.0 kg (4.4 lbs.)
Weight (approximately)	1.3 kg (2.9 lbs.)

Dimensions



Appliance dimensions

(without flange and mounting frame)

Width 318 mm (12.5 in.)

Height 318 mm (12.5 in.)

Depth 394 mm (15.5 in.)

Appliance dimensions

(including flange)

Width 374 mm (14.72 in.)

Height 374 mm (14.72 in.)

Installation cutout

Width 324 mm (12.75 in.)







Height 324 mm (12.75 in.)












Installation depth

Minimum 450 mm (17.7 in.)

Recommended > 500 mm (19.7 in.)

depends on application

Product overview	Part No.	Description
	78102-01	Truma AquaGo comfort
	77001-01	Access door standard, white
	77001-02	Access door standard, black
	77000-37500	Gasconnector kit elbow
	39050-00563	Truma CP plus VarioHeat digital control panel
	34030-39300	CP plus surface-mounted frame, black
	77000-00091	Truma AquaGo decalcification tablets

Spare Parts	Part No.	Description
	77000-00089	Truma AquaGo comfort control panel (Spare Part)
	36110-03	Control panel cable (9m)
	77000-00113	Control unit assembly compatible with the control panel
	77000-90100	Exhaust pressure switch
	77000-00208	Flue fan assembly
	77000-90400	Burner assembly
	77000-91300	Electrodes
	77000-90500	Flow sensor assembly
	77000-90600	Circulation pump
	77020-03500	Non-Return valve assembly
	77000-00251	Filter assembly

All data is accurate at the time of publishing and is subject to change without notice.

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