

Aquila

Instantaneous Inline
Water Heater
Thermostatic, 9.6 kW



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Usage

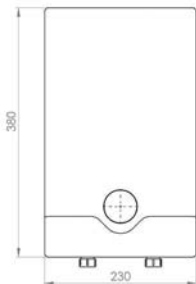
Suitable for hand washing at up to 2 basins or light dishwashing at a single sink. Confirm that the flow rate and temperature performance is adequate for your application using the chart and tables provided.

Features and Benefits

- Supplies hot water to one or two outlets depending on application
- Bare wire heating system gives fast heat up time
- Heats the water instantly as it flows through the unit
- Energy efficient – no standing heat losses
- Energy saving – only uses the power required to deliver the chosen temperature
- External electronic thermostatic control accurate to the nearest degree
- 9.6kW power rating
- Slimline design
- Heating power adjusted electronically to compensate for temperature, flow rate and water pressure variations
- LED temperature display
- Temperature factory set at 38°C and can be adjusted by the user between 30°C and 60°C
- One programmable memory setting
- After power off/on the unit will recall the last usage outlet temperature
- Suitable for use with spray head taps with removable M22/M24 nozzles – taps available separately

Product Code	Power (kW)	Thermostatic	Max Flow Rate (l/m)*	Standing Loss (kWh/day)
IN96T	9.6	Yes	Handwash 5.2	0.0
			Dishwash 3.6	

*Flow rates based on incoming water supply temperature of 12°C, hand wash at 38°C, dish wash at 50°C

**Outer Casing**

Easy clean high impact ABS

Heating Element

Bare-wire heating system
(2 nickel chrome heating elements)

Control Screen (from left to right)

Temperature display °C
Actual flow rate display l/min
Heating power display %

Memory – save selected temperature

Touch screen arrow keys allow the user to set the required temperature.

Touch screen power on/off control

The temperature display will flash if the set temperature cannot be reached.

Flow Dial

Increase/decrease maximum water flow rate.

Safety

Overheat temperature protection 75°C (manual reset).

Water temperature electronically controlled to maintain user selected temperature between 30°C and 60°C as water pressure conditions vary.

IP Rating

IPX4

Approvals

CE

Installation

This appliance must be installed in a frost free environment.

The heater should be located as close as practical to the hot water outlet to avoid unnecessary heat losses through the pipework.

Plumbing

Must be installed by a suitably qualified person.

Intended for connection to the mains water supply.

Minimum flow rate 2.5 l/minute
Minimum water pressure 1 bar
Maximum rated pressure 7.5 bar
Required water resistivity $\geq 1300 \Omega\text{cm}$
Water connections $\frac{1}{2}$ " BSP

Suitable for use with pre-heated water e.g. solar heating systems subject to maximum inlet water temperature 60°C

Electrical Connection

Installation must comply with current IEE regulations.

Single phase, fuse rating guide 42 amps. The appliance must be permanently connected to the electrical supply through an isolating switch with a contact separation of no less than 3mm in all poles.

Standard Warranty

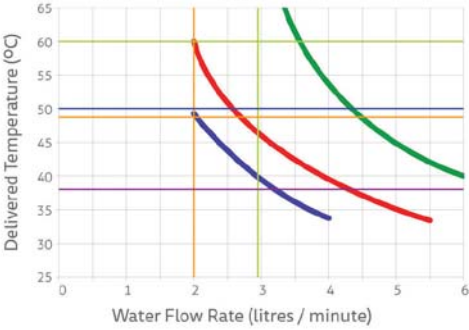
1 year parts or replacement warranty

Product Code	Height (mm)	Width (mm)	Depth (mm)	Weight (kg) Empty
IN96T	380	230	90	2.02

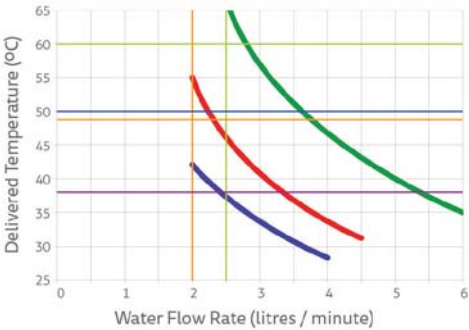
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Temperature Performance Charts

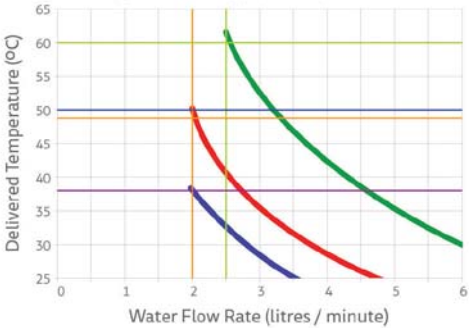
Incoming Water Supply Temperature 17°C



Incoming Water Supply Temperature 12°C



Incoming Water Supply Temperature 7°C



- IN44T
- IN60T
- IN96T
- Handwash at 38°C
- Kitchen sink at 50°C
- Max Temp 48°C Min flow rate 2.0 l/m (IN44T and IN60T)
- Max Temp 60°C Min flow rate 2.5 l/m (IN96T)

Selection Guide

Check the flow rate and water temperature will be adequate for your application using the chart and tables provided.

Take into account that the incoming water supply temperature will be lower in winter than summer.

Temperature Rise

Temperature rise from ambient for an instantaneous water heater (TR)

$$TR = \text{kW rating} \times 14.3 / \text{flow rate l/m}$$

Temperature / Flow Rate

Maximum temperature increase from ambient incoming water supply temperature at a flow rate of:

Flow Rate (litres/minute)	IN44T	IN60T	IN96T
2.0	31°C	43°C	
2.5	25°C	34°C	
3.0	21°C	28.5°C	45°C
4.0			34°C
5.0			27°C

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Application

Recommended temperature for hand washing 38°C.

Recommended temperature for a kitchen sink 50°C.

Rho and Aquila Instantaneous water heaters are intended for use with spray head taps with removable M22/M24 nozzles. A tap spray nozzle must be fitted in the tap to control the water flow rate and to provide best performance and energy and water efficiency.

Product Code	Power (kW)	Application	Water Flow Rate for best performance (l/m)
IN44T	4.4	Handwashing at a single sink	2.0
IN60T	6.0	Handwashing at a single sink	2.5
IN96T	9.6	Handwashing at up to 2 basins or Light dishwashing at a single sink	2.0 per basin 3.0 per sink