



triplered  
WATER TECHNOLOGY

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**Pico**

Clear  
Combined  
Compact

Pure Water  
for your Laboratory

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## About Us



Triplered has a long and accomplished history in pure water. Whatever your specific requirements we have the experience and technical expertise to support you.

We offer a complete range of UK designed and built products, which seamlessly integrate into your laboratory, serving your pure water requirements with the lowest production costs and the highest quality guaranteed.

We are proud to be certified to ISO 9001:2015 and accredited by UKAS to ISO 17025:2005 as well as having **Safe Contractor** status to reflect our commitment to the quality and service we provide to our customers.



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## Pico Pure Water Systems



The Pico is the latest addition to the Triple Red range of high quality water systems which are manufactured in the UK to ISO9001:2015 certification.

The Pico is a complete, "all in one" water system which provides general laboratory water with many unique features. It has low energy consumption, minimal water wastage and maximises the use of your laboratory space. It is the most environmentally friendly product on the market.

### FEATURES

- Tap to Type 2 or 3
- Low cost, one box solution
- Small footprint
- Suits all general applications
- Energy consumption <60w
- Unique disposable RO maintains peak efficiency
- Consumables changed in seconds
- Built-in 35 litre reservoir
- Ideal replacement of Stills
- Easy to install, low maintenance
- Minimal water wastage
- Mercury free UV



## Product Guide

Model	Water Quality	Typical Applications	Dimensions and Weight
<b>Pico T3</b>	<b>TYPE 3</b> Primary grade water Type 3 RO water	<b>Supply for:</b> Higher purity water systems Glass washer and autoclave feed Steam/humidity generators Growth/stability chambers	(H x W x D) 500 x 485 x 330 mm 20kg (empty)
<b>Pico T2</b>	<b>TYPE 2</b> General laboratory grade water Type 2 DI water 1-15MΩ-cm	Many general laboratory applications requiring higher ionic purity Buffer make up Media production Sample dilution and reagent preparation General chemistry Teaching applications	(H x W x D) 500 x 485 x 330 mm 20kg (empty)

## Technical Specification

Model	RO Make-up Rate (@ 15°C)	Inorganics Rejection Rate	Organics Rejection Rate	Bacteria Rejection Rate	PH	Daily Usage (Max)
PICO10T3	10 lph	98%	>99%	99%	Effectively neutral	60lpd
PICO20T3	20 lph	98%	>99%	99%	Effectively neutral	120lpd
PICO10T2	10 lph	1-15MΩ-cm	>99%	99%	Effectively neutral	60lpd
PICO20T2	20 lph	1-15MΩ-cm	>99%	99%	Effectively neutral	120lpd

The above specification is only achieved when the feed water requirements are met.

## Manufactured in the UK

Designed and manufactured in the UK for users worldwide, the Pico benefits from the highest quality component selection and assembly, in an ISO 9001:2015 certified environment.

Our design and development team have combined experience of over 100 years in the purification of water, providing us with expertise in the most thoroughly tested technologies.



## Technology

The Pico utilises well established water purification technologies which you can trust to provide you with the quality of water you require, on request.

Call for water from the dispense tap on the front of the machine to obtain the concise water quality you need; when you need it.

The unique Reverse Osmosis (RO) cartridges have in-built pre-treatment which only requires changing once per year. It means the water is always in optimum condition as there is no deterioration of quality from an RO which is several years old. The high recovery rate of 50% means the cost of waste water is also kept to a minimum.

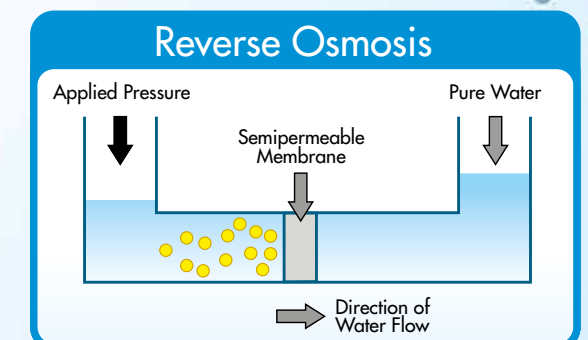
Both models take potable water to Type 3 or 2 at a rate of 10 or 20 litres per hour which can be dispensed from the 35 litre reservoir. The UV photo-oxidation cell provides bacterial control for more sensitive applications.



## Reverse Osmosis (RO)

This is the most economical method of removing up to 99% of feed water contaminants.

During natural osmosis, water flows from a less concentrated solution through a semipermeable membrane to a more concentrated solution until concentration and pressure on both sides of the membrane are equal.



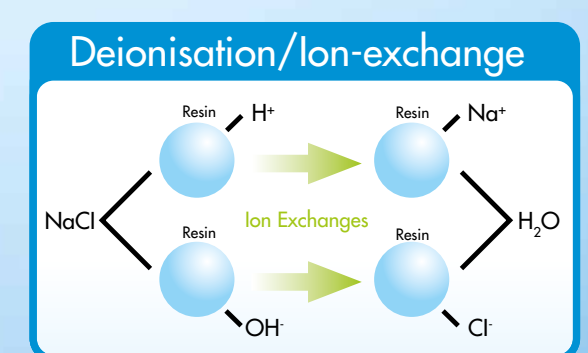
In water purification, external pressure is applied to the more concentrated side of the membrane to reverse the natural osmotic flow. This forces the feed water through the semipermeable membrane. The impurities are deposited on the membrane surface and flushed to drain. The pure water passing the membrane is referred to as the permeate.

Most RO systems will need a tank to store the purified water as the production rate is usually less than the peak demand.

## Deionisation (DI)/Ion exchange

This process removes ions from water, usually RO water, with the use of synthetic resins. The ions are removed from the water through a series of chemical reactions. These reactions occur as the water passes through the ion exchange resin beads. Gradually, all unwanted ions are replaced by hydrogen and hydroxyl ions which combine to form pure water.

Deionisation is the only process which can produce the quality required for Type 2 water.



## Additional Information

All models in the range are supplied with the first set of consumables, meaning they are ready to plug-and-go.

Each model features a touch-screen display for the best user experience available, showing you the water quality and volume details you need to know.



## Maintenance

The economic benefits of the Pico range continue throughout the life of the product. Replacement of the modules has been designed with ease in mind, meaning that the user can carry out basic and essential maintenance tasks themselves.

*It is recommended that a full mechanical service is completed by a Triple Red trained Service Partner on an annual basis to maintain the integrity of components.*

### Feed Water Requirements

Pressure	Bar	0.1 - 5
Conductivity	μS-cm	<1400
Colloid Index	SDI	<3
Free Chlorine and Iron	mg/l	0.1

Item	Product Code	Typical Frequency
Pre-treatment Module (RO) 10lph	TC021	Annual
Pre-treatment Module (RO) 20lph	TC022	Annual
DI Module	TC023	Bi-Annual*
Air Vent Filter (Tank)	TC024	Annual
UV Lamp	TC025	Annual

*\*Change frequency of DI Module dependent upon usage.*

## Options

Keep the integrity of your stored water and choose our mercury-free UV option.

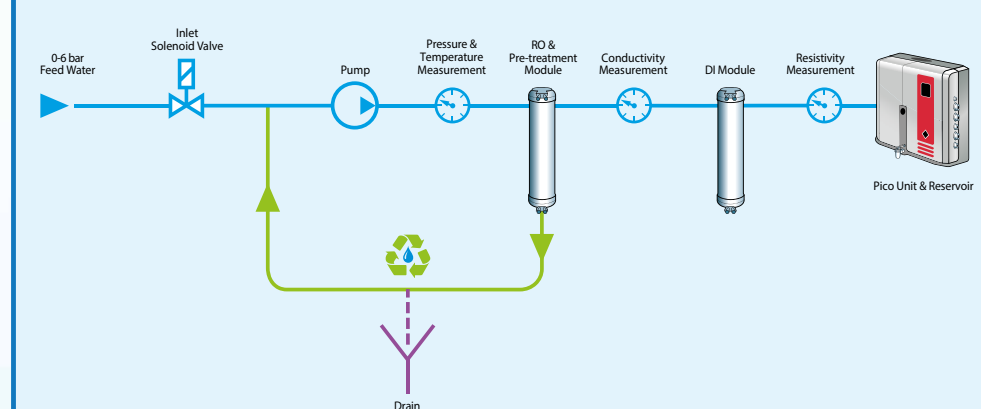
For complete flexibility when installing the Pico system, opt for a wall mounting bracket. This simplistic design allows the user to easily and quickly mount the system onto any suitable wall to maximise the laboratory space.

Option (Product Code)	Description
PICOUV	Tank UV Kit
PICOWB	Wall Mounting Bracket
PRESPUMP	Automatic Distribution Pump
PREFILTER	Pre-filter for high fouling water

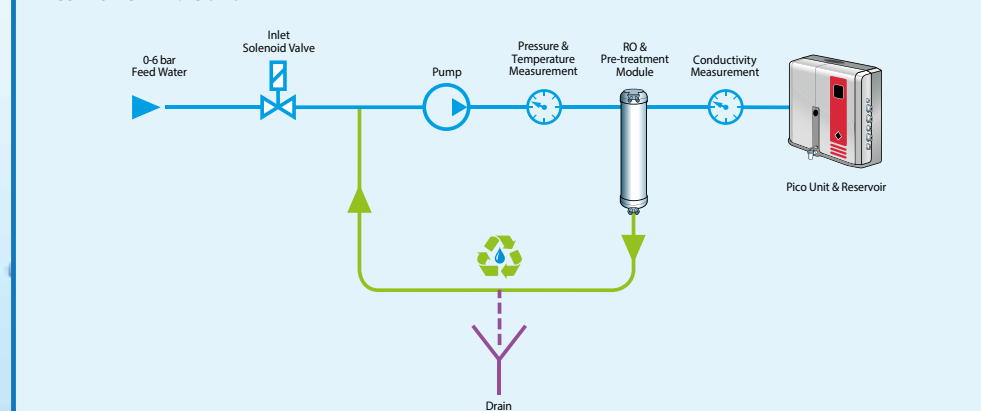


## Schematics

PICO FLOWCHART: T2 unit



PICO FLOWCHART: T3 unit





For more information on any of our product ranges, you can contact us directly for a brochure or download copies from our website.

*Here are some examples of other products in our range:*



**Geno and Puro**

Type2 or Type3 Water



**Alto**

Ultrapure Type 1 Water



**Duo**

Dual Quality Type 2 AND Type 1 Water



## Contact Details

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