

Water & Energy
Hot Water Energy Storage
GB & NI

Product Guide

Range Tribune Xe

Unvented Hot Water Cylinders with Internal Thermal Expansion

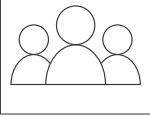


kingspancylinders.com


Kingspan®

Kingspan Range Tribune Hot Water Solutions

The Hot Water People



For over 85 years, Kingspan Range Tribune has been a leading manufacturer of premium quality hot water and heating products for the housing sector. We have a proven track record of bringing innovative, high performance products to the market that stand the test of time.

Our commitment to achieving ever higher standards, through a programme of continued testing and product improvement, is recognised by our BS EN ISO 9001:2015 accreditation. This results in Kingspan products being at the forefront in terms of performance.

At Kingspan we pride ourselves on a deep understanding of the challenges faced by builders, developers and contractors.

We have specifically developed the Range Tribune product portfolio and support services such as Kingspan Service and Coates Design to meet all of their requirements. That's why we are the hot water people they turn to time after time for solutions to their hot water and heating needs.

As one of Kingspan Water & Energy's premier brands, Range Tribune benefits from the substantial backing of Kingspan Group, a global leader in high performance building products for the construction industry. The Kingspan Range brand fits within an overall philosophy of helping to deliver high efficiency, low cost and low carbon buildings for the future.

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Why use Kingspan Hot Water Cylinders?

Performance



Premium Quality



Expertise



With so many different products and skills involved in a building project, housebuilders and specifiers need to work with experts in every category. As part of the Kingspan worldwide building products group, Kingspan Water & Energy offers unrivalled experience and resources to support the UK housebuilder with the best solutions for hot water storage in terms of legislation compliance, quality standards and ease of installation.

As the world leader in insulation technology, we are designing high efficiency hot water cylinders with more insulation coverage and lower heat loss rates that not only deliver an improved SAP rating but also remain easier to fit in smaller spaces.

Importantly, Kingspan Water & Energy is perfectly tuned into contemporary lifestyle priorities when it comes to domestic hot water – comfort, energy efficiency and reliability. Our products ensure plentiful and constant hot water supply to suit family homes with baths

and showers, innovative solutions to allow more spacious and flexible accommodation, lower energy usage with associated cost savings, and less to worry about in terms of repair and maintenance.

The Range Tribune Xe hot water cylinder is the latest model in a bestselling series that is already acknowledged for a quality assurance in which customers will have complete confidence. Kingspan Water & Energy continues to push the boundaries in new product development that meets the needs of new buildings and the environment, backed up by experienced design and technical support teams.

Across the UK, Kingspan Water & Energy works in partnership with housebuilders, specifiers and contractors to provide the very best project support, including product advice, technical guidance and training when required. We allocate a centralised contract management team to coordinate with our field based specification managers to collate project information and ensure unparalleled production and supply chain capability. By working closely with key contractor and merchant contacts, we can anticipate all project requirements to meticulously plan our production and delivery schedules that guarantee all products arrive on site in full and on time.

Kingspan Water & Energy also provides a comprehensive aftercare service from our nationwide team of engineers for the full peace of mind of the homeowner, contractor, and housing developer.

Performance

When it comes to delivering what our customers want, the top priority is performance - it's key to providing maximum operating efficiencies and fast hassle-free installation.

Premium Quality

Range Tribune unvented hot water cylinders only feature the highest quality components that are rigorously tested to ensure they provide safe, efficient storage of hot water.

Expertise

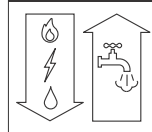
Our team of technical experts contains a broad spectrum of skilled professionals, including engineers with experience in the construction industry, accredited system designers, SAP assessors and people with practical plumbing experience.



FM 611051

A different approach to energy efficiency

Improved Efficiency



Energy efficiency is the issue that nobody - specifiers, installers and homeowners alike - can afford to ignore. Ever tighter legislation on emissions, BREEAM ratings, the energy-related products directive (ErP) and reduced carbon emissions construction targets have driven the building industry to seek more and more energy efficient solutions, while concerns for the environment and rising fuel costs mean it's one of the most important factors for buyers considering a new property.

With this in mind, we went back to the drawing board to reconsider every aspect of hot water cylinder design and see where we could make improvements. The result, after many years of development, is the all new Range Tribune Xe cylinder.

By going right back to the basics, we managed to make over 50 improvements

to individual components and production processes. Each one contributes to an improvement in energy efficiency or installation efficiency. Together, they add up to our most energy efficient cylinder, ever.

For example, moving the hot water outlet from the top of the cylinder to the side looks, on the face of it, a relatively small change. Yet, it was one that took considerable re-engineering.

The reason? A traditional top mounted outlet - while easier to manufacture - means having a pipe penetration through the insulation at the hottest part of the cylinder. By switching to a side outlet, the top of the cylinder can be fully insulated with foam, making for better heat retention and a more energy efficient performance.

Internal Expansion

As the water heats up it expands and compresses the air pocket at the top of the cylinder; a floating baffle separates the air from the water.



30% More Insulation*

Built-in Thermal Expansion

Expansion control is a key part of any unvented hot water system; it helps protect the system from excessive pressure by providing a space for the water to expand into as it is heated.

The new Xe design features a built-in thermal expansion space made possible by moving the hot water outlet to the side wall.

This 'air bubble' at the top of the cylinder provides additional insulation for extra thermal efficiency. It also makes

installation quicker and easier by eliminating the need for an external expansion vessel, freeing up valuable space in the airing cupboard.

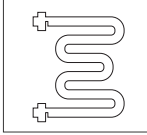
In addition, cylinders with an internal expansion provide up to 10%[#] more usable hot water - that's water at 40°C - than a standard unvented cylinder. This is because the expanded hot water is held within the cylinder at 60°C while external vessels take the expanded water from the cold feed.

* Average insulation shot weight increase measured across the 6 cylinder sizes

[#] Average increase in hot water output at 40°C compared to the equivalent standard unvented cylinder using the V40 testing in accordance with BS EN 12897:2016 standard, based on 210L model

Coates Design Partnership

Design



Expertise

- Heating System Design
- Hot and Cold Water Services
- SAP Calculations
- Solar Thermal & Photovoltaic
- Air Source Heat Pumps
- District Heating Systems
- MVHR & Air Conditioning
- Underfloor Heating
- Rainwater Harvesting

Expert Design Service

Coates Design is a specialist building services consultancy, within the Kingspan Group. Through Coates we are proud to offer developers and housebuilders expert help and advice to ensure that their systems are designed with the lowest carbon footprint, whilst helping them optimise their build costs and achieve the SAP scores they require.

As a key partner to many leading industry brands such as: Ideal Boilers, Vaillant Boilers, Glow-Worm Boilers, Stelrad Radiators, Quinn Radiators, Danfoss, Honeywell, Pegler Yorkshire and many others, Coates are often able to offer their design services at a reduced rate or even free, depending on the design specification deal.

FREE
DESIGN
AVAILABLE*

Setting the Standards for Hot Water Storage

OUTSTANDING
SAP
PERFORMANCE

HELPING YOU DELIVER
COST EFFECTIVE BUILDING
SOLUTIONS



Introducing Range Tribune Xe



Range Tribune Xe is a new generation of unvented hot water cylinders that sets the best performance standards to date for hot water energy storage through better design, components and materials. Strongly focused on energy efficiency and heat loss reduction, over 50 new features make the Range Tribune Xe a significantly improved offer in terms of both energy rating and SAP assessment.

The new casing specification and thicker insulation dramatically improve thermal efficiency. The cylinder benefits from 30% additional insulation* with a minimal increase in size and weight.

Equally significant engineering changes include a side mounted hot water outlet, new inlet set and swivel connection T&P relief valve. In fact, every potential heat loss factor has been improved.

Range Tribune Xe cylinders are fully approved with the latest accreditation. The new cylinder design also makes handling, installation and commissioning quicker and easier.

A premium feature of the new cylinder is internal expansion control using an air pocket device to maintain pressure when water is drawn off. This further improves heat retention characteristics but also means no external expansion vessel is needed, resulting in a quicker and more flexible, space saving installation.

A bestselling cylinder brand since its launch in 2001, the proven product quality backed by our customer service commitment and in-house design consultancy make Kingspan Range Tribune Xe a genuinely added value offer for energy efficient, pressurised domestic hot water storage.

Key Features:

- Our most efficient cylinder for energy efficiency with outstanding SAP performance
- Wide range of capacities from 120 to 300 litres
- Self-contained expansion space that acts as an additional insulator
- Gives up to 10%# more usable hot water
- High flow-rate controls – ideal for multiple bathrooms and powerful showers
- Low reheat times for fast availability of hot water
- 65mm** of high performance environmentally-friendly insulation
- Titanium immersion heaters
- Duplex stainless steel basic vessel with superior corrosion resistance
- Fully transferable 25-year guarantee on the basic vessel and 2 years on components†
- Aesthetically pleasing outer case
- The complete package – just add pipework

Technical information

Model	Heat Loss (kW/24h)	DER
Tribune HE	1.41	14.70
Tribune Xe	1.16	14.62

* Average insulation shot weight increase measured across the 6 cylinder sizes

Average increase in hot water output at 40°C compared to the equivalent standard unvented cylinder using the V40 testing in accordance with BS EN 12897:2016 standard, based on 210L cylinder

** Nominal thickness

† See installation instructions for full terms and conditions

Technical Data

Range Tribune Xe

Direct

Designed to be heated directly by the built-in high quality 3kW electric immersion heater, these cylinders heat up quickly and retain the temperature for a long period. Each direct cylinder features a secondary backup 3kW electric immersion heater that can also act as a boost when the primary heater is not on.

Capacity	Reheat Time (Minutes)	Immersion Heaters (3kW)
120	56	2
150	79	2
180	93	2
210	107	2
250	125	2
300	152	2

Indirect

Designed to heat up rapidly using the heating coil connected to a gas or oil boiler, the cylinder will retain its heat for long periods so you can be assured of the most economical system choice. These cylinders also feature a backup immersion heater as a secondary heat source that can act as a boost when the primary heat source is not available.

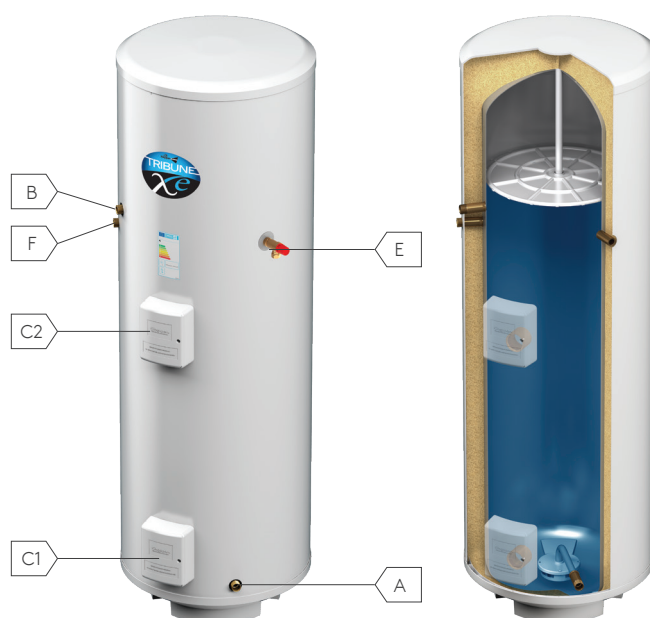
Capacity	Reheat Time (Minutes)	Coil Rating (kW)	Immersion Heaters (3kW)
120	22	19.9	1
150	25	21.9	1
180	28	23.9	1
210	30	23.8	1
250	34	24.1	2
300	44	23.8	2

Solar Indirect

Designed with two indirect heating coils, the primary coil connects to a solar thermal system and the secondary coil is connected to a gas or oil boiler, providing heat when there is insufficient input from the solar heat source. In addition each cylinder features a 3kW electric immersion heater as a secondary backup and to offer a boost to the primary heat source.

Capacity	Dedicated Solar Volume (L)	Fossil Fuel Volume (L)	Immersion Heaters (3kW)	Surface Area Solar Coil (m ²)	Fluid Content Solar Coil (L)
180	55	125	1	0.77	4.20
210	65	145	1	0.86	4.75
250	90	160	1	0.86	4.75
300	100	200	1	0.96	5.28

Direct Cylinders



Connections

- A 22mm Cold feed with dip pipe to diffuser in bottom of cylinder
- B 22mm Hot water outlet
- C1 Immersion heater with integrated thermostat
- C2 Secondary immersion heater with integrated thermostat - Direct cylinders and 250 and 300 litre Indirect cylinders only
- D1 22mm Boiler coil connections
- D2 22mm Solar coil connections
- E 1/2" Temperature relief valve connection (valve factory-fitted to cylinder)
- F 22mm Secondary return - for cylinders with a capacity of 210 litres and above only
- G1 Dry stat pocket - solar control
- G2 Dry stat pocket - high limit

* Not to be used as the primary heat source on indirect or solar indirect cylinders
 # Factory fitted to a cylinder

Supplied with



Inlet control set with
balanced cold
22mm x 15mm



Acetal
tundish
22mm x 15mm



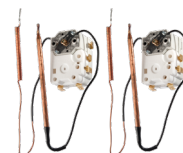
Temperature &
pressure relief valve*
¾" BSP union nut x 15mm
(10 bar / 90°C)



Two port
valves
22mm



Integrated titanium
immersion heater#
3kW - 14"



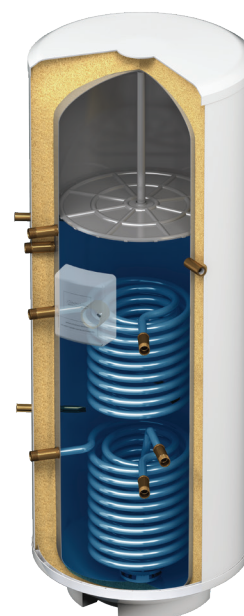
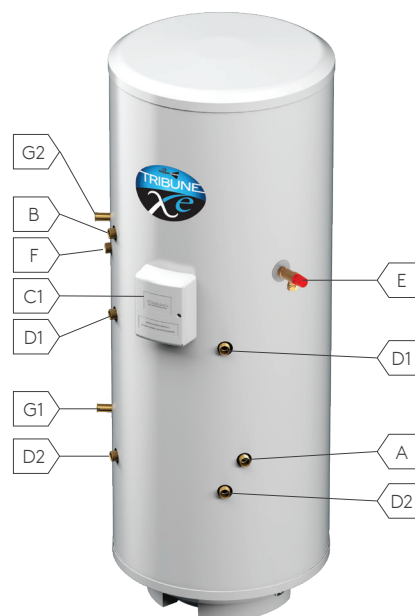
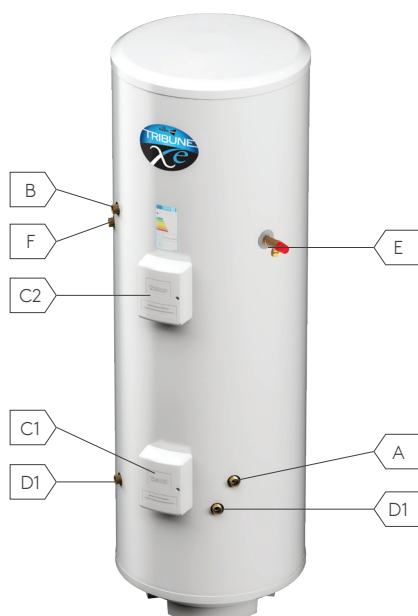
Integrated dual
thermostat#
(Boiler & Immersion)



High limit thermostat

Indirect Cylinders

Solar Indirect Cylinders



Cylinder Type and Code		Capacity (Litres)	Height (mm)	Dia. (mm)	Weight full (kg)	Boss Centre from floor										Rating	ErP				
						A (mm)	B (mm)	C1 (mm)	C2 (mm)	D1 (mm)	D2 (mm)	E (mm)	F (mm)	G1 (mm)	G2 (mm)		Standing Loss, (W)	Load Profile	Noise Level (dB)	Efficiency (%)	kWh/year
DIRECT	TXD120ERP	120	1000	580	155	179	646	239	527	n/a	n/a	614	NF	n/a	n/a	C	45	L	15	39.3	2604
	TXD150ERP	150	1186	580	188	179	832	239	627	n/a	n/a	800	NF	n/a	n/a	C	48	M	15	39.0	1315
	TXD180ERP	180	1368	580	220	179	1016	239	727	n/a	n/a	984	NF	n/a	n/a	C	53	L	15	37.7	2716
	TXD210ERP	210	1558	580	252	179	1082	239	827	n/a	n/a	1050	1017	n/a	n/a	C	58	L	15	37.4	2735
	TXD250ERP	250	1805	580	293	179	1327	239	967	n/a	n/a	1295	1262	n/a	n/a	C	68	L	15	37.0	2766
	TXD300ERP	300	2075	580	352	179	1579	239	1118	n/a	n/a	1547	1514	n/a	n/a	C	72	L	15	39.0	2622
INDIRECT	TXN120ERP	120	1000	580	154	446	642	346*	NF	306	n/a	610	NF	n/a	n/a	B	45	n/a	n/a	n/a	n/a
	TXN150ERP	150	1186	580	189	446	828	376*	NF	336	n/a	796	NF	n/a	n/a	B	48	n/a	n/a	n/a	n/a
	TXN180ERP	180	1368	580	223	481	1012	406*	NF	366	n/a	980	NF	n/a	n/a	B	53	n/a	n/a	n/a	n/a
	TXN210ERP	210	1558	580	255	481	1078	406*	NF	366	n/a	1046	988	n/a	n/a	B	58	n/a	n/a	n/a	n/a
	TXN250ERP	250	1805	580	297	521	1323	441*	1096*	401	n/a	1291	1233	n/a	n/a	C	68	n/a	n/a	n/a	n/a
	TXN300ERP	300	2075	580	346	521	1575	441*	1246*	401	n/a	1543	1485	n/a	n/a	C	72	n/a	n/a	n/a	n/a
SOLAR INDIRECT	TXSN180ERP	180	1368	580	225	522	1013	887*	NF	847	337	981	NF	392	1013	B	53	n/a	n/a	n/a	n/a
	TXSN210ERP	210	1558	580	256	522	1079	937*	NF	897	367	1047	1014	422	1079	B	58	n/a	n/a	n/a	n/a
	TXSN250ERP	250	1805	580	303	522	1324	1007*	NF	967	367	1292	1259	422	1324	C	68	n/a	n/a	n/a	n/a
	TXSN300ERP	300	2075	580	350	522	1576	1037*	NF	997	402	1544	1511	457	1576	C	72	n/a	n/a	n/a	n/a

NF = Not Fitted

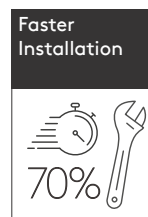
Easy Maintenance and Installation

REDUCED
INSTALLATION
TIME

PRODUCTS THAT HELP YOU
SAVE YOUR VALUABLE TIME



Range Tribune Xe Pre-Plumb Cylinder Options



We have optimised the layout of the pre-plumb pipework making it easier and faster to install the cylinder; the new configuration is much cleaner with improved access for the installer.

Tribune Xe pre-plumb cylinders come with all pipework, inlets and components pre-fitted, allowing 'plug and play' installation, straight out of the box. And with our new straight line configuration, it's now even easier to align and connect

all essential inlet and outlet feeds and power supplies.

You also get the added protection of our full guarantee, as the factory fitted plumbing is covered as part of the cylinder. Plus, each unit is pre-plumbed and pre-wired using high grade components to deliver exceptional performance, easy maintenance and reliability.

Improved installation efficiency x2.5 faster

Than installing a regular non pre-plumbed cylinder
with external expansion

See for yourself how simple and quick it is to install and plumb the Tribune Xe by viewing our time trial video. Simply scan the QR Code here or watch via YouTube at:

Kingspan Range Tribune Xe Time Trial



Key Features:

- 2.5 times faster to install than a regular non pre-plumbed
- Pre-plumb Indirect models: 120, 150, 180, 210, 250 & 300 litre capacity
- Pre-plumb Indirect solar models: 180, 210, 250 & 300 litre capacity
- Designed with the installer in mind for a quicker, easier installation and setup
- Seven day programmable room thermostat with timed domestic hot water (DHW) control
- Separate central heating and hot water zones
- 'A' Rated EuP-compliant variable speed circulating pump
- Automatic bypass valve for system efficiency
- Connections for vented and unvented heating primaries
- Central heating expansion vessel pack
- Brazed pipework fabrication
- Simplified on-site installation
- Factory assembled for reliability; reduces costly call-backs and delays
- Consistent electrical and plumbing layout - neat, professional finish
- Greater customer satisfaction

Technical Data

Pre-Plumb Cylinders

Pre-Plumb System-Fit Indirect

These cylinders have been optimised for use with system boilers with no circulating pump, robokit or programmer. As with the standard Xe indirect, it heats up rapidly using the heating coil connected to a gas or oil system boiler. The cylinder will retain its heat for long periods and features a backup 3kW immersion heater as a secondary heat source that can act as a boost when the primary heat source is not available.

Capacity	Reheat Time (Minutes)	Coil Rating (kW)	Immersion Heaters (3kW)
120	22	19.9	1
150	25	21.9	1
180	28	23.9	1
210	30	23.8	1
250	34	24.1	2
300	44	23.8	2

Pre-Plumb Indirect

Designed to heat up rapidly using the heating coil connected to a gas or oil boiler, the cylinder will retain its heat for long periods. The cylinder also features a backup immersion heater as a secondary heat source that can act as a boost when the primary heat source is not available.

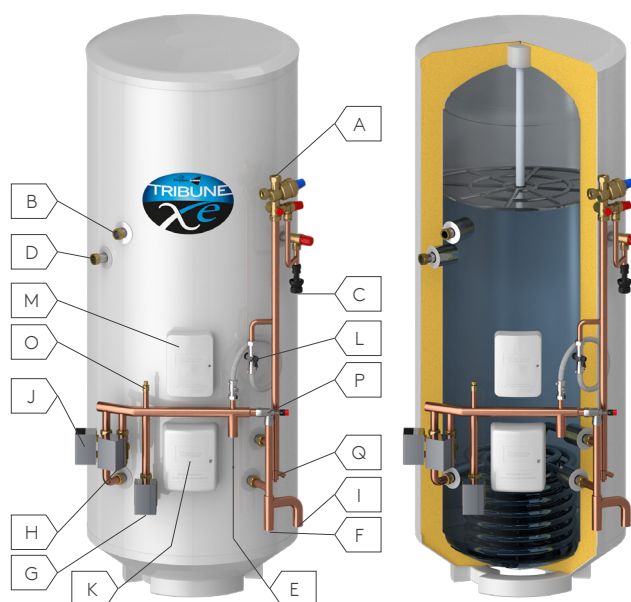
Capacity	Reheat Time (Minutes)	Coil Rating (kW)	Immersion Heaters (3kW)
120	22	19.9	1
150	25	21.9	1
180	28	23.9	1
210	30	23.8	1
250	34	24.1	2
300	44	23.8	2

Pre-Plumb Solar Indirect

Designed with two indirect heating coils, the primary coil connects to a solar thermal system and the secondary coil is connected to a gas or oil boiler, providing heat when there is insufficient input from the solar coil. In addition each cylinder features a 3kW electric immersion heater as a secondary backup.

Capacity	Dedicated Solar Volume (L)	Fossil Fuel Volume (L)	Immersion Heaters (3kW)	Surface Area Solar Coil (m ²)	Fluid Content Solar Coil (L)
180	55	125	1	0.77	4.20
210	65	145	1	0.86	4.75
250	90	160	1	0.86	4.75
300	100	200	1	0.96	5.28

Pre-Plumb System-Fit Indirect



Connections

- | | |
|--|---|
| A 22mm Inlet control set – cold feed | K Immersion heater & dual thermostats (not to be used as the primary heat source) |
| B 22mm Hot water draw-off | L Filling loop flexible hose |
| C 22mm Tundish drain off | M Wiring centre |
| D 22mm Secondary return (210L, 250L & 300L only) | N Circulating pump (excluding system-fit models) |
| E 28mm Flow from boiler | O Manual bottle air eliminator |
| F 28mm Return to boiler | P Auto bypass valve |
| G 22mm Central heating flow - two port valve (Single zone) | Q Cold feed drain |
| H 22mm Central heating flow - two port valve (Twin zone) | R1 Dry Stat pocket – Solar |
| I 28mm Central heating return | R2 Dry Stat pocket – High limit |
| J DHW two port valve | S 22mm Solar coil connections |

* Factory fitted to a cylinder

Supplied with



Inlet control set with
balanced cold*
22mm x 15mm



Acetal
tundish*
22mm x 15mm



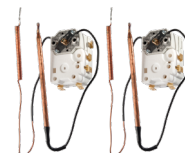
Temperature &
pressure relief valve*
3/4" BSP union nut x 15mm
(10 bar / 90°C)



Two port
valves*
22mm



Integrated titanium
immersion heater*
3kW - 14"



Integrated dual
thermostat*
(Boiler & Immersion)



External expansion
vessel (Heating)



Filling
loop*



TPOne M - Two channel
programmable room
thermostat with DHW



Circulating
pump*



Auto by-pass
valve*

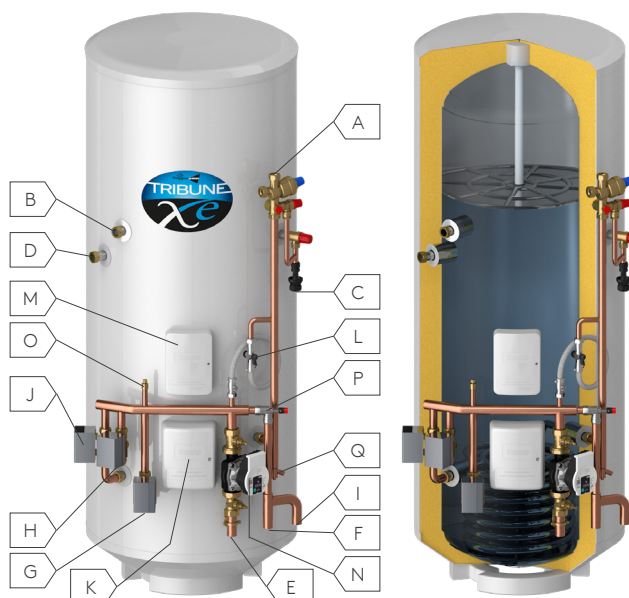


High limit
thermostat*

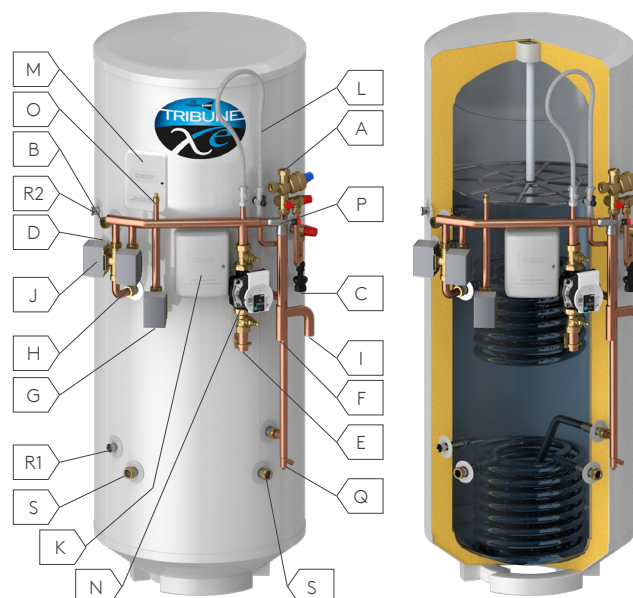


TPOne B - Programmable
room thermostat
(twin zone only)

Pre-Plumb Indirect



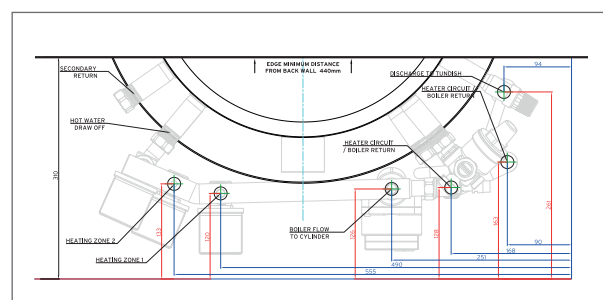
Pre-Plumb Solar Indirect



						ErP	
Cylinder Type and Code						Rating	Standing Loss, (W)
SYSTEM FIT	TXN120PSBERP	120	1000	580	164	B	45
	TXN150PSBERP	50	1186	580	199	B	48
	TXN180PSBERP	180	1368	580	233	B	53
	TXN210PSBERP	210	1558	580	265	B	58
	TXN250PSBERP	250	1805	580	307	C	68
	TXN300PSBERP	300	2075	580	356	C	72
INDIRECT	TXN120PERP	120	1000	580	164	B	45
	TXN150PERP	150	1186	580	199	B	48
	TXN180PERP	180	1368	580	233	B	53
	TXN210PERP	210	1558	580	265	B	58
	TXN250PERP	250	1805	580	307	C	68
	TXN300PERP	300	2075	580	356	C	72
SOLAR INDIRECT	TXSN180PERP	180	1368	580	235	B	53
	TXSN210PERP	210	1558	580	266	B	58
	TXSN250PERP	250	1805	580	313	C	68
	TXSN300PERP	300	2075	580	360	C	72

Download our Tribune Xe Pre-plumb layout showing components position and angles, that'll help you prepare the pipework for the installation.

Simply scan the QR Code here to download:



Choosing the Right Cylinder

Domestic Selection Guide

Recommendations are based on the guidelines in BS 6700. Guidance should be sought for unusual applications, e.g. high flow rate showers, large baths etc.

Hot water demand	Bedrooms	Indirect cylinder capacity (litres)	Direct cylinder capacity (litres)
1 standard bath or shower	Bedsit / 1 bed	120	150
	2-3 bed	120	180
	3-4 bed	150	210
1 standard bath	2-3 bed	120	180
	3-4 bed	150	210
1 bath and en-suite	2-3 bed	150	210
	3-4 bed	150	210
	4-5 bed	180	250
2 standard baths	2-3 bed	180	210
	3-4 bed	180	210
	4-5 bed	210	250
3 bathrooms	3-4 bed	250	300
	4-5 bed	250	300
	5-6 bed	300	300

Commercial Selection Guide

Recommendations based on the guidelines in BS 6700. Guidance should be sought for unusual applications, e.g. high flow rate showers, large baths etc.

Typical commercial application	Indirect units
Large House - 6 bed / 4 bathrooms	2 x 210
Guest House - 8 bed / 4 bathrooms	2 x 300
Small Hotel - 8 bed / 8 bathrooms	3 x 210
Sports Pavilion (25 people / 4 showers)	2 x 300
Sports Pavilion (25 people / 6 showers)	3 x 210
Student House (25 people / 3 bathrooms)	3 x 300
Old People's Home (60 beds / 10 bathrooms)	5 x 300 each

Example illustration

A swimming pool has 5 showers in each of 2 changing rooms. The shower heads are flow-restricted to 9 ltrs per minute ($\frac{2}{3}$ rds of this will be hot water). There are up to 8 lessons per day, usually 45 minutes each. Assuming a class size of 30 children.

Maximum demand = 10 shower heads x 6 litres / min. = 60 litres / min, up to 3bar. This is more than one Tribune Xe can supply (see flow rate graph).

At least 3 Tribune Xe's will be needed to provide this:

Total demand = 30 children x 6 litres / minute x 5-minute shower each = 900 litres

Therefore, 3 x 300 litre units will be required.

Reheat time has to be a maximum of 45 minutes so it is reheated in time for the next lesson. A TXN300 can reheat its entire content in 44 minutes with a boiler power of 20kW. So total boiler power required = 60 kW.

Guidance for Linking Cylinders

Using cylinders in parallel

For applications where very high flow rates or larger amounts of storage are required, two or more Tribune Xe units can be linked in parallel.

When linking two cylinders, a separate cold feed is taken to each one and the outlets are joined together. The flow rate available doubles (subject to the cold mains).

The demand for hot water will vary considerably between types of buildings and the activities taking place there.



For Example:

An office building will require small quantities frequently to many outlets during normal and overtime office hours.

A factory production line will have a peak demand at the breaks in the shift or at the end when the workforce may all want to wash their hands simultaneously.

A sports pavilion will need to be able to provide large quantities of hot water for the teams' showering needs over a short period of time after the game.

So your selection must take into account a number of things:

- The maximum simultaneous hot water demand
- The total hot water demand required
- The required system reheat time

IMPORTANT NOTE:

It is a requirement of building regulations that any heat sources connected to an unvented cylinder are under full thermostatic control and are able to turn themselves COMPLETELY off.

Standards and Specifications

Materials

Inner shell - Duplex Stainless Steel
Coil - 22m Diameter Stainless Steel
Bosses - Stainless Steel
Every Tribune Xe is water tested to a pressure of 15 bar.

Casework

Toughened case coating to protect and provide pleasing aesthetics.

Insulation

Polyurethane foam, nominal thickness 65mm. The foam is CFC-free & HCFC-free. It has an Ozone Depletion Potential of Zero and a Global Warming Potential of 3.1.

Control Settings

Pressure Reducing Valve	3.0 Bar
Expansion Relief Valve	8 Bar
Pressure and Temperature Relief Valve	10 Bar/90°C
High Limit Cut-Out in Dual Thermostat	85°C

Immersion Heater

1 1/4" BSP Parallel Threaded Head
Long Life Titanium Sheathed Low Noise Element 14" Long
Brazed Construction
Element Rating 3kW at 240V A/C

Approvals

KIWA Approved to Building Regulations G3 & L.
UKCA & CE Compliant.

Fittings as Standard

	Direct	Indirect	Solar Indirect
Inlet Control Set	✓	✓	✓
Temperature & Pressure Relief Valve 1/2" BSP 10 Bar/90°	✓	✓	✓
15mm/22mm Tundish	✓	✓	✓
Primary 3kW Immersion Heater	✓	✓	✓
Secondary 3kW Immersion Heater	✓	250L & 300L Units	
1x Two-Port Valve	✓	✓	✓
1x Dual Thermostat Integrated into Immersion Heater	✓	✓	✓
1x Single High Limit Stat			✓
2x Sensor Pocket Retaining Bungs			✓
Installation & Maintenance Manual Including Benchmark Log	✓	✓	✓

Installation Overview

Regulations

All unvented units with a capacity over 15 litres must be installed by a competent installer in accordance with the following Regulations: England and Wales – Building Regulations G3, Scotland – Technical Standard P3, N. Ireland – Building Regulations P5.

Siting

With no header tanks to consider, Tribune Xe units can be sited almost anywhere in the house. The side mounted hot water outlet enables the cylinder to be installed under shelving or other equipment.

Tribune Xe can supply outlets both above and below its location.

Tribune Xe must be fixed VERTICALLY on a flat surface capable of holding its (full) weight.

Water Supply

An adequate mains water supply is vital to ensure Tribune Xe delivers the high performance of which it is capable. We recommend a minimum supply of 1.5 bar with a flow rate of 25 litres/min.

Compatible Boilers

Gas, electric or oil fired boilers fitted with an integral control thermostat and cut-out.

Any heat source that lacks full thermostatic control such as most solid fuel boilers, Agas, Rayburns and Stanleys cannot normally be connected to any unvented system.

The primary circuit may be open vented or sealed (operating at up to 7 bar). The primary circuit must be pumped.

Secondary Return

A dedicated 22mm secondary return connection is fitted to 210, 250 and 300 litre sizes. A swept tee (not supplied) may be used to provide a secondary return on the smaller sizes.

Electrical Wiring

Controls should be wired to the boiler / programmer etc. in accordance with the control scheme being used.

Although compatible with Y, W or S Plan layouts, Tribune Xe units are best suited to installation as an S Plan since we already supply one of the two port valves necessary, so reducing installation costs compared to other plans.

Each immersion heater must have a permanent connection via a double-pole linked isolating switch with a minimum rating of 13 amps.

All electrical wiring must comply with the latest IEE wiring regulations.

As a Charter member of the
Hot Water Association (HWA),
Kingspan Water & Energy is
committed to uphold the principles
and objective of the 'HWA' Charter:



- To supply fit for purpose products clearly and honestly described.
- To supply products that meet, or exceed, appropriate standards and building and water regulations.
- To provide pre and post sales technical support.
- To provide clear and concise warranty details to customers.

'HWA' members are independently audited to ensure independent governance supports the Charter principle of being clear and honest; not only do members have to comply with the Charter standards, they also have to show an external accreditor how they do it.

For more information visit www.hotwater.org.uk

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