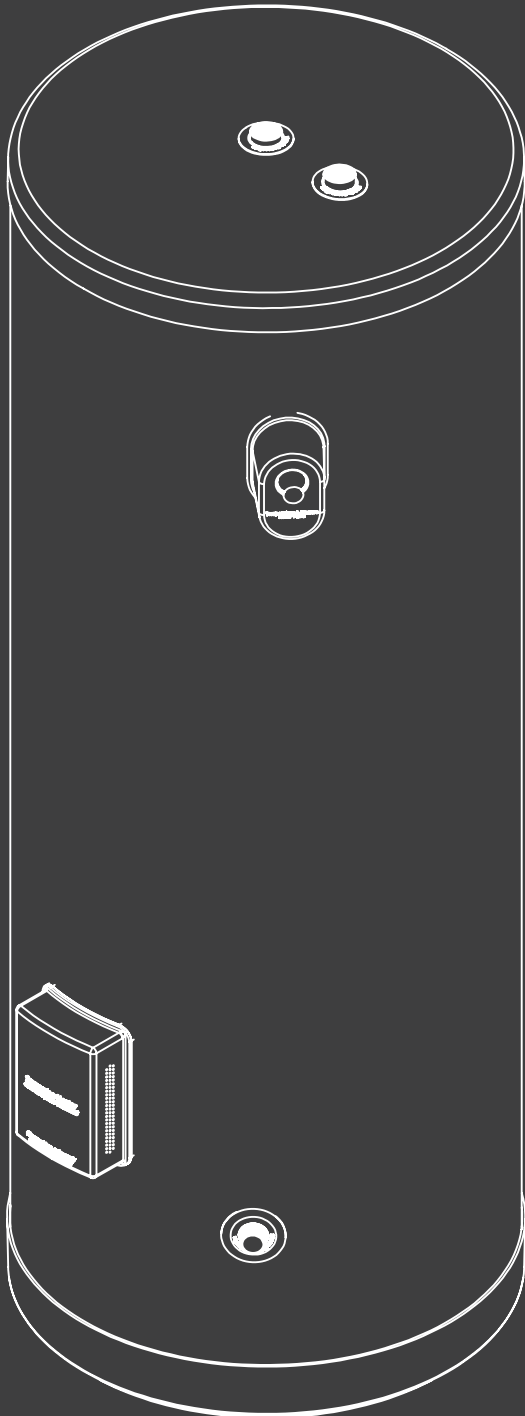


WATERWARE

PLUMBING



ELECTRIC

Hot Water Cylinders

135L, 180L, 250L, 300L,
400L, 500L



FAST INSTALL

Available with or without the Caleffi 'direct mount mono-block' combo set which can save up to 50% in installation time.

HIGH FLOW

20mm or 25mm high flow ports according to tank size.

WIDE RANGE

135L, 180L, 250L, 300L, 400L and 500L options.

LONG LASTING

Manufactured from premium grade 2304 Duplex stainless steel with a 20 year limited warranty (refer warranty terms and conditions for details).

SOLAR READY

Two direct solar ports and three thermostat probe pockets on models 250L and over.

POWERFUL

Dual elements on models 250L and over.

SPACE SAVING

Top entry and exit ports for easy reach and narrow installation spaces.

RING-MAIN

Return port for ring-main applications.

CLEAN & TIDY

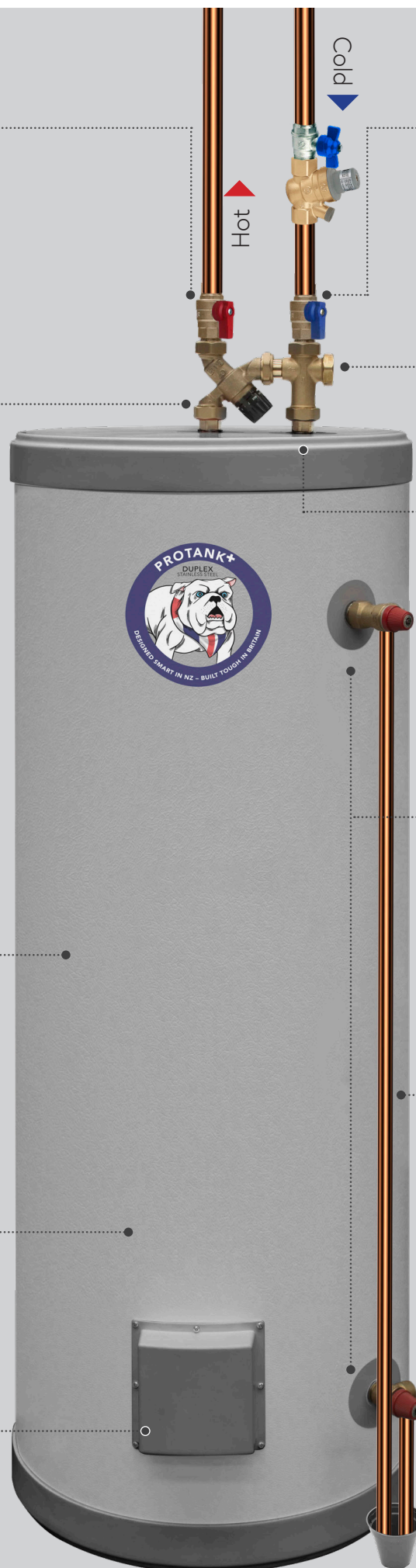
A concealed 2304 Duplex stainless steel dip tube takes the cold to the bottom of the tank.

EASY WASTE CONNECTION

TPR and cold water expansion valve offset for easy waste connection

HANDSOME

Textured grey powder coated finish.



Protank hot water cylinders are designed for indoor installation mains pressure domestic hot water systems.

DESIGNED SMART IN NEW ZEALAND - BUILT TOUGH IN BRITAIN.

Protank has been developed to meet the needs of those home owners wanting a high capacity, high pressure hot water system that is going to last.

The internal tank and fittings are crafted from the highest possible spec 'Duplex' 2304 stainless steel and performance matched to Caleffi's latest high flow valve set.

MODEL RANGE

Including Valve Set	Cylinder Only	Description	Height x Ø
PTPC135	PTP135	135L, 3kW	1380mm x 475mm
PTPC180	PTP180	180L, 3kW	1780mm x 475mm
PTPC250D	PTP250D	250L, 3+3kW, solar ports	1780mm x 550mm
PTPC300D	PTP300D	300L, 3+3kW, solar ports	2000mm x 550mm
PTPC400D	PTP400D	400L, 3+3kW, solar ports	1550mm x 710mm
PTPC500D	PTP500D	500L, 3+3+3kW, solar ports	1800mm x 710mm

Models with valve set include:

- Protank hot water cylinder
- Caleffi 'direct mount mono-block' combo set
- Caleffi TPR valve
- Heatrod element(s) and thermostat

Models without valve set include:

- Protank hot water cylinder
- Caleffi TPR valve
- Heatrod element(s) and thermostat





Caleffi

'Direct Mount Mono-block'
Combo Set



CALEFFI DIRECT MOUNT COMBO SET

20mm COMBO2015PRO (135L and 180L models)

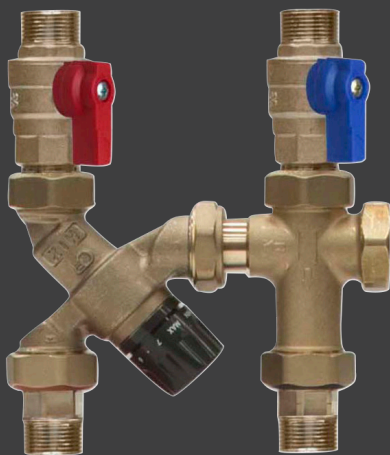
20mm COMBO2020PRO (250L and 300L models)

25mm COMBO2520PRO (400 and 500L models)

Protanks are available with or without the Caleffi 'direct mount mono-block' combo set which can save up to 50% in installation time when compared to installing a traditional hot water cylinder with 3rd party valves and components. It connects to the cold and hot connections via Caleffi's full proof o-ring sealed union connections.

The Caleffi direct mount combo sets include every primary valve required to complete an installation:

- 1 x mono-block tempering inlet valve and isolators
- 1 x adjustable pressure limiting valve with strainer
- 1 x cold water expansion valve
- 1 x ball valve



TV520150 20mm (135L, 180L, 250L and 300L)

TV520160 25mm (400 and 500L)



PR533056 20mm (120L, 180L, 250L and 300L)

PR533565 25mm (400L and 500L)



BV20M 20mm (120L, 180L, 250L and 300L)

BV25 25mm (400L and 500L)



TPR310400 15mm (120L, 180L, 250L and 300L)

TPR309570 20mm (400L and 500L)



DSV312460 15mm (135 and 180L)

DSV311560 20mm (250L, 300L, 400L and 500L)

RECIRCULATING SYSTEMS

The mono-block manifold has a blanking cap which when removed acts as a return port for a recirculating ring main. Contact us for ring main set up or design advice.

DIRECT MOUNTING OF THE TEMPERING VALVE

Notwithstanding acceptable methods detailed in G12, the manufacturer Caleffi have specifically engineered this tempering control valve to directly mount onto the hot water cylinder with no minimum pipe length isolation requirement as an alternative method of achieving compliance.



SPECIFICATIONS

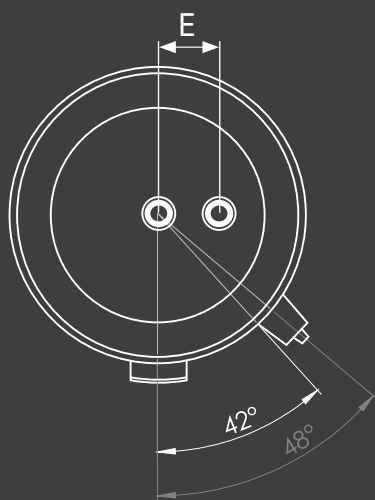
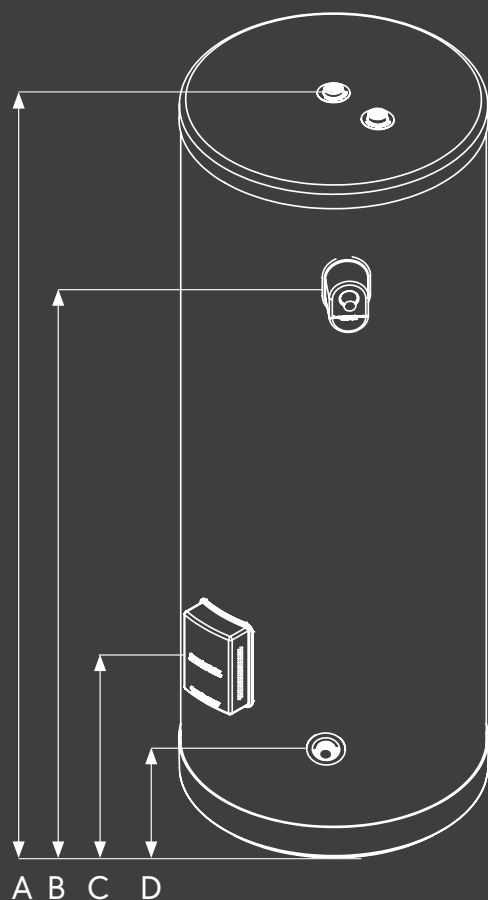
General Specification			
Manufactured by	Whitewolf		
Country of origin	UK		
Pressure Ratings		Shell Construction	
TPR Setting	700 kPa	Shell type	Single skin
Cold water expansion setting	600 kPa	Shell material	2304 Duplex SS
Maximum supply setting	500 kPa	Thickness	1 mm
Factory supply set point	300 kPa	Circumferential joint	Tig butt weld
		Longitudinal joint	Tig butt weld
Electrical		Case Construction	
Cable / Sheath size	3x1.5mm / 8mm	End material	Polypropylene
Terminals	Screw type, 4 mm	End thickness	2 mm
Thermostat supplier	Heatrod	Wall material	Painted Galvanized steel
Thermostat model	SH314C-CAICAI-STROM	Wall thickness	0.45 mm
Thermostat approval number	EQ739-DAT9900155	End joint	Press fit
Thermostat set point range	30 °C-70 °C	Wall joint	Lock form joint
Thermostat factory set point	62 °C	Thermal Insulation	
Thermal cutout set point	90 °C	Insulation specification	EPC/IsoPMDI
Thermal cutout reset	Manual	Wall thickness	50 mm
Heating element supplier	Heatrod	Base thickness	10 mm
Heating element mount	1&3/4" Female threaded	Top thickness	50 mm
Heating element sheath material	Titanium		
Heating element resistance	19.2 ohm		
Heating element power density	9.6 w/cm²		

Technical Specification						
Capacity	135L	180L	250L	300L	400L	500L
Inlet / Outlet ports	20mm	20mm	20mm	20mm	25mm	25mm
TPR / CWE ports	15mm	15mm	15mm	15mm	20mm	20mm
Solar ports (qty x Ø)	none	none	2x20mm	2x20mm	2x20mm	2x20mm
Dry stat pockets (qty x Ø)	none	none	3x22mm	3x22mm	3x22mm	3x22mm
Heating element	3kW	3kW	3+3kW	3+3kW	3+3kW	3+3+3kW
Overall (Height x Ø)	1380 x 475mm	1780 x 475mm	1785 x 550mm	2000 x 550mm	1550 x 710mm	1800 x 710mm
Internal shell (Height x Ø)	1350 x 375mm	1750 x 375mm	1750 x 445mm	1950 x 445mm	1520 x 590mm	1750 x 590mm
Weight full	157kg	210kg	287kg	344kg	470kg	580kg
Weight empty	22kg	30kg	37kg	44kg	70kg	80kg



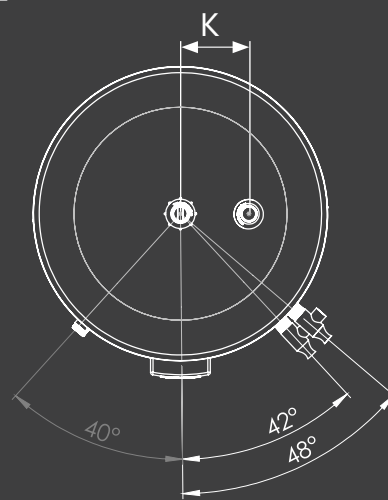
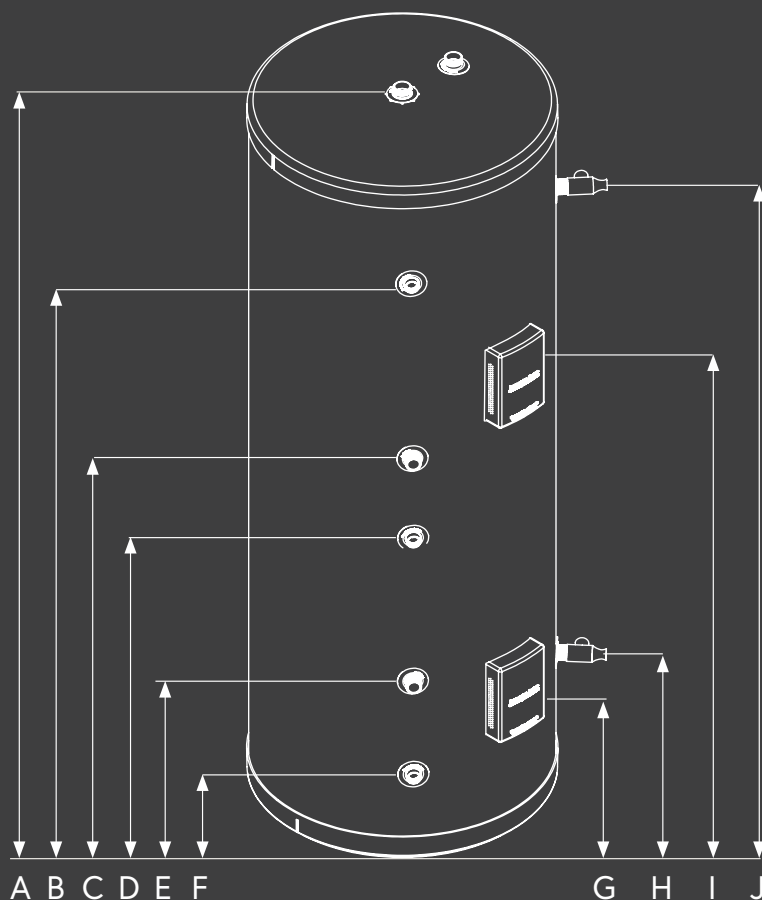
PORT LAYOUT

135 and 180L Models



Model	135L	180L
A. Inlet/Outlet height	1380mm	1780mm
B. TPR Valve	1150mm	1550mm
C. Element	260mm	260mm
D. CWE Valve	215mm	215mm
E. Inlet/Outlet centres	110mm	110mm

250, 300, 400 and 500L Models



Model	250L	300L	400L	500L
A. Inlet/Outlet height	1780mm	2000mm	1550mm	1800mm
B. Upper Stat	1500mm	1760mm	1250mm	1550mm
C. Middle Stat	600mm	600mm	600mm	600mm
D. Upper Solar	900mm	900mm	900mm	900mm
E. Lower Stat	215mm	215mm	215mm	215mm
F. Lower Solar	175mm	175mm	175mm	175mm
G. Lower Element	260mm	260mm	260mm	260mm
H. CWE Valve	215mm	215mm	215mm	215mm
I. Upper Element	1270mm	1430mm	1200mm	1285mm
J. TPR Valve	1500mm	1760mm	1250mm	1550mm
K. Inlet/Outlet centers	110mm	110mm	135mm	135mm



PROTANK 20 YEAR LIMITED WARRANTY

All terms of the warranty, subject to the conditions below, are effective from the date of installation if proof of installation date can be provided. Where the date of installation is not known or cannot be proven, the warranty will commence one month after proof of purchase date.

Single Residential Domestic Warranty

A single residential domestic installation is defined as an installation where the hot water cylinder with a factory set thermostat delivers hot water to a privately owned single family residential dwelling which is not used for commercial purposes.

Protank Excluding Valves and Element

5 YEARS FREE PARTS and LABOUR costs to replace or repair the cylinder if it fails due to manufacturing defect.

Followed by;

5 YEARS FREE PARTS ONLY costs (excluding labour) to replace or repair the cylinder if it fails due to manufacturing defect.

Followed by;

10 YEARS *PRO-RATA PARTS ONLY reducing costs (excluding labour) according to the below formula, to replace or repair the cylinder if it fails due to manufacturing defect.

*Pro-Rata Formula = Original purchase price x remaining warranty in years ÷ total warranty period of the cylinder.

Caleffi Valves (excluding any 3rd party valves)

5 YEARS FREE PARTS and LABOUR costs to replace or repair any valve that fails due to manufacturing defect.

Protank Element Only;

12 MONTHS FREE PARTS and LABOUR costs to replace or repair the element if it fails due to manufacturing defect.

Commercial Applications Warranty

Any installation not considered to be a single residential domestic type.

Protank and Caleffi Valves Excluding Element

5 YEARS FREE PARTS and LABOUR costs to replace or repair the cylinder or valves if failure is due to a manufacturing defect.

Protank Element Only;

12 MONTHS FREE PARTS and LABOUR costs to replace or repair the element if it fails due to manufacturing defect.

Refer to full terms, conditions and exclusions in the installation/owners manual



WATERWARE

waterware.co.nz

info@waterware.co.nz

ph +64 9 273 9191

