



DIRECT/INDIRECT

Hot Water Cylinders

185L, 250L, 300L, 500L, 1000L



DESIGNED SMART IN NEW ZEALAND,
BUILT TOUGH FOR NEW ZEALAND CONDITIONS.


WATERWARE

waterware.co.nz



PROTANK+

MODEL RANGE

PROTANK+ HOT WATER CYLINDERS ARE DESIGNED FOR INDOOR INSTALLATION MAINS PRESSURE DOMESTIC AND COMMERCIAL HOT WATER SYSTEMS.

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' 2205 stainless steel and performance matched to Caleffi's latest high flow valve set.

Includes Valve Kit	Cylinder Only	Description	Height x Ø
RESIDENTIAL			
PTPSC185I	PTPS185I	185L, 3kW	1818 x 470mm
PTPSC250I	PTPS250I	250L, 3kW	1372 x 600mm
PTPSC300I	PTPS300I	300L, 3kW	1589 x 600mm
PTPSC500I	PTPS500I	500L, 3kW	1839 x 700mm
COMMERCIAL (Direct Only)			
N/A	PTPS500	500L, 2 x kW	1852 x 700mm
N/A	PTPS1000	1000L, 2 x kW	2267 x 900mm
KITS			
Commercial Installation kit	PTPIK500C*	135L & 185L	N/A
Residential Installation kit	PTPIK500R*	135L & 185L	N/A
Insulation clam	TV520150I	135L & 185L	N/A

Models with valve set include:

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

Models without valve set include:

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

*Optional installation kit includes: tray, tundish, straps and blocks and insulation clam.



PROTANK+

SPECIFICATIONS

General Specification	185L-300L	500L*	1000L*
Manufactured by	SST	SST	SST
Country of origin	China	China	China
Pressure Ratings			
TPR Setting	700 kPa	1000 kPa	1000 kPa
Cold water expansion setting	600 kPa	800 kPa	800 kPa
Maximum supply setting	500 kPa	850 kPa	850 kPa
Factory supply set point	300 kPa	600 kPa	600 kPa
Electrical	Indirect Only	Direct and Indirect	Direct Only
Cable / Sheath size	3x1.5mm / 8mm	3x1.5mm / 8mm	3x1.5mm / 8mm
Terminals	Screw Type, 4mm	Screw Type, 4mm	Screw Type, 4mm
Thermostat supplier	Enerson	Enerson	Enerson
Thermostat model	59T+66T	59T+66T	59T+66T
Thermostat approval number	E19279	E19279	E19279
Thermostat set point range	49-82 °C	49-82 °C	49-82 °C
Thermostat factory set point	70 °C	70 °C	70 °C
Thermal cutout set point	93 °C	93 °C	93 °C
Thermal cutout reset	Manual	Manual	Manual
Heating element supplier	Backer	Backer	Backer
Heating element mount	G1" Screw Thread	G1" Screw Thread	G1" Screw Thread
Heating element sheath material	Incoloy 840	Incoloy 840	Incoloy 840
Heating element resistance	16.14 Ω ±7.5%	16.14 Ω ±7.5%	16.14 Ω ±7.5%
Heating element power density	12.1	12.1	12.1
Shell Construction			
Shell type	Stainless Steel	Stainless Steel	Stainless Steel
Shell material	2205 Duplex SS	2205 Duplex SS	2205 Duplex SS
Thickness	1 mm	1.5 mm	2.0 mm
Circumferential joint	Butt Weld	Butt Weld	Butt Weld
Longitudinal joint	Butt Weld	Butt Weld	Butt Weld
Case Construction			
Wall material	Painted Galvanized Steel	Painted Galvanized Steel	SUS304 Stainless Steel
Wall thickness	0.5 mm	0.5 mm	0.8 mm
Thermal Insulation			
Insulation specification	Polyurethane	Polyurethane	Polyurethane
Wall thickness	50 mm	50 mm	50 mm
Base thickness	50 mm	50 mm	50 mm
Top thickness	50 mm	50 mm	50 mm

*The 500L and 1000L Direct Hot Water Cylinders are used for high demand hot water production using either the indirect high output with the Habanero heat exchanger module, or as a standalone buffer tank for direct water heaters.

PROTANK+

TECHNICAL SPECIFICATIONS

INDIRECT

Capacity	185L	250L	300L	500L
Inlet / Outlet ports	20mm	25mm	25mm	25mm
TPR / CWE ports	15mm	15mm	15mm	15mm
Solar ports (qty x Ø)	None	None	None	None
Dry stat pockets (qty x Ø)	None	None	None	None
Heating element	3kW	3kW	3kW	3kW
Overall (Height x Ø)	1818x470	1372x600	1589x600	1839x700
Internal shell (Ø)	370mm	500mm	500mm	600mm

Scan the QR Code for the Indirect PROTANK+ range you are looking for more details and technical information

PTPSC185I



PTPSC250I



PTPSC300I



PTPSC500I



TV520150 20mm
TV520160 25mm



BV20M 20mm
BV25 25mm



PR533555H 20mm
PR533565H 25mm



DSV312407 15mm
DSV311507 20mm



CTPR15-7
CTPR20-10
PTPTPC01 Insulation Cover



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.



PROTANK+

SPECIFICATIONS & WARRANTY

Protank+ 10 YEAR LIMITED WARRANTY

All terms of the warranty, subject to the conditions below, are effective from date of purchase from Waterware Services. If an invoice is not available, the serial number or date of production prevails. If neither can be located, date of install needs to be provided.

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

10 YEARS FREE PARTS AND LABOUR costs to repair or replace cylinder if it fails due to manufacturing defect.

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;

24 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.

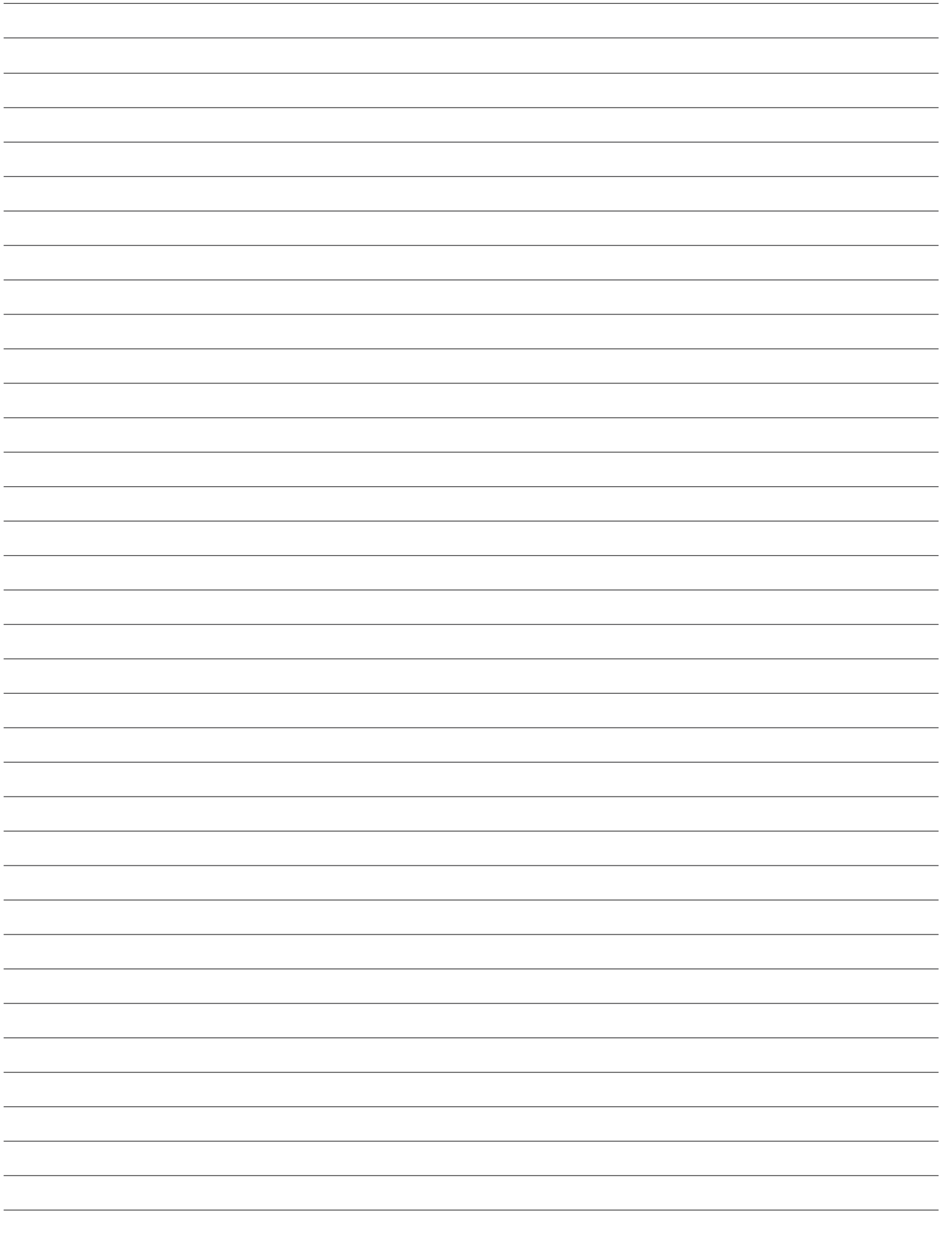
Protank+ and Caleffi Valves Excluding Element

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

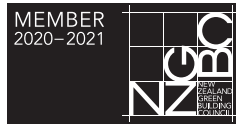
Protank+ Element Only;

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



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