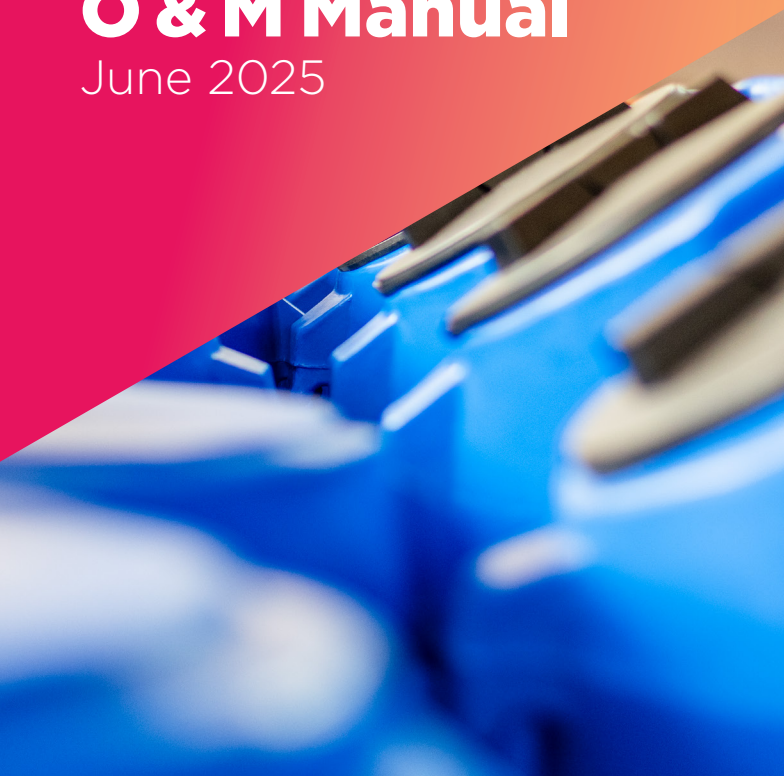




O & M Manual

June 2025



eps

Rethinking Water

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Errors and omissions excepted



DECLARATION OF CONFORMITY



PLEASE KEEP THIS DOCUMENT IN A SAFE PLACE

We, EPS Group
of Mallow Business and Technology Park
Quartertown
Mallow
Co Cork P51 AC94
Telephone: +353 (22) 31200
Fax: +353 (22) 31250
Email: info@epswater.com

in accordance with the following Directives:
Refer to page 2 for list of directives

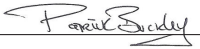
Hereby declare that:
Equipment: Multiboost Range
Model : Refer to page 5, 6, 7 & 8 for complete range of models & product codes

is in conformity with the applicable requirements of the following documents:
Refer to page 4 for list of national implementation provisions

I hereby declare that the equipment above has been designed and assembled to comply with the relevant section of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

The Technical Construction File is maintained at:

EPS Group
Mallow Business and Technology Park
Quartertown
Mallow
Co Cork P51 AC94
Telephone: +353 (22) 31200
Email: info@epswater.ie

Signed: 

Managing Director, EPS

Date: June 2025

Directives & National Implementation Provisions



Pump Range	Provisions
Top Multi	EN 60335-1
Top Multi-Tech	EN60034-1
NK	IEC 60335-1
UP	IEC 60334-1
	CIE 61-150 CIE 2-3

Controllers



Steadypros

Directives
2006/95/CEE Low Voltage Directive
2002/95/CEE Dangerous substances in electromagnetic compliance (RoHS)
2002/96/CEE e 2003/108/CEE Dangerous substances in electronic appliances (WEEE)
2004/108/CE Electromagnetic Compatibility Directive(EMC)
EN 55014-1 (emissions)



Presflo Multi

Provisions
EN 61000-3-2 (emissions) EN 61000-3-3 (emissions)
EN 55014-2 (immunity) EN 61000-4 (immunity)



EasyPress

Directives
2006/95/CEE Low Voltage Directive
2002/95/CEE Dangerous substances in electromagnetic compliance (RoHS)
2002/96/CEE e 2003/108/CEE Dangerous substances in electronic appliances (WEEE)
2004/108/CE Electromagnetic Compatibility Directive(EMC)
Provisions
EN 60730-2-6
EN 61000 6-3

Surge Type



Provisions
EN 13831:2007
WRAS Approved

Tank Type

Holding Tank

Provisions
BS 6920-1:2000 Approval Number: 2108501 WRAS approved material
BS 6920-1:2000 Approval Number: 240755043 WRAS approved material

Pipe Type

MDPE Blue Pipe

Provisions
AS/NZS 4020
BS EN 12201-2
BS EN 1717:2000
BS EN 12201

Valve Type

Check Valve

Flow Valve

Fill Valve

Provisions
EN 1717:2000
BS 1212/1 EN12165 BC 1001 WRAS approved 1606078
WRAS Approved 1203001

Fitting Type

Nylon Fittings

Compression Fitting

Provisions
EN 60335-1 AS/NZS 4020:2018
EN 12201-1 BS6730 WRAS approved

Sealant Type

Thread Sealant

Provisions
WRAS Approved. Certified NSF P1. sealant paste "green", no risk phrases, blank MSDS



EasyPress

MULTIBOOST MODEL DESCRIPTION	STOCK CODE	DESIGN	WORKING VOLUME	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	INLET	OUTLET	OVERFLOW	DRAIN OFF	WEIGHT - ASSEMBLED KG
TOP Multiboost 200L (Rectangular) 230V 1PH EasyPress 2.2 Bar (Simplicity) *	1036386	RECTANGULAR	200	1006	475	670	½" BSP	1" BSP	1" BSP	1" BSP	30
TOP Multiboost 200L (Slimline) Round 230V 1PH EasyPress 2.2 Bar (no cover) *	1081646	ROUND	200	0	584	1190	½" BSP	1" BSP	1" BSP	1" BSP	26
Top Multiboost 210L (Corner) EasyPress 2.2 Bar 230V 1PH *	1238676	CORNER	210	570	512	1080	½" BSP	1" BSP	1" BSP	1" BSP	32
TOP Multiboost 250L (Slimline) Round 230V 1PH EasyPress 2.2 Bar (no cover) *	1194597	ROUND	250	0	760	1033	½" BSP	1" BSP	1" BSP	1" BSP	28
TOP Multiboost 250L (Utility) 230V 1PH EasyPress 2.2 Bar *	1201617	ROUND	250	0	760	1033	½" BSP	1" BSP	1" BSP	1" BSP	28
TOP Multiboost 270L (Rectangular) 230V 1PH EasyPress 2.2 Bar (Simplicity) (Coffin) *	1033898	RECTANGULAR	270	1571	475	665	½" BSP	1" BSP	1" BSP	1" BSP	32
TOP Multiboost 300L (Rectangular) EasyPress 2.2 Bar (Simplicity) *	1033899	RECTANGULAR	300	1045	665	945	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 345L (Rectangular) 230V 1PH EasyPress 2.2 Bar (Simplicity) (Coffin) *	1081647	RECTANGULAR	345	1571	475	750	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 350L (Simplicity) Round 230V 1PH EasyPress 2.2 Bar (no cover) *	1031919	ROUND	350	0	584	1656	½" BSP	1" BSP	1" BSP	1" BSP	29
TOP Multiboost 355L (Simplicity Snug) Round 230V 1PH EasyPress 2.2 Bar (no cover) *	1239221	SNUG	355	1200	590	820	½" BSP	1" BSP	1" BSP	1" BSP	29
TOP Multiboost 440L (Simplicity) Round 230V 1PH EasyPress 2.2 Bar (no cover) *	1201023	ROUND	440	0	584	1855	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 450L (Simplicity) Round 230V 1PH EasyPress 2.2 Bar (no cover) *	1033476	ROUND	450	0	760	1300	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 455L (Rectangular) 230V 1PH EasyPress 2.2 Bar (Simplicity) (Rectangular) *	1070477	RECTANGULAR	455	1765	580	850	½" BSP	1" BSP	1" BSP	1" BSP	36
TOP Multiboost 500L (Rectangular) EasyPress 2.2 Bar (Simplicity) *	1033900	RECTANGULAR	500	1050	727	1117	½" BSP	1" BSP	1" BSP	1" BSP	40
TOP Multiboost 750L (Simplicity) 230V 1PH EasyPress 2.2 Bar (no cover) Presflo *	1102133	ROUND	750	0	760	2113	½" BSP	1" BSP	1" BSP	1" BSP	49
TOP Multiboost 1000L (Rectangular) 230V 1PH EasyPress 2.2 Bar *	1235744	RECTANGULAR	1000	0	563	1640	½" BSP	1" BSP	1" BSP	1" BSP	73

*Drip tray, insulation jacket & anti vibration mat available (visit Multiboost.ie for installation manual)

Simplicity EasyPress. Please ensure pressure vessel is fitted after the cold water outlet of the Multiboost.

Please ensure that Multiboost EasyPress is fitted with the correct rated MCB/RCBO on incoming electrical supply in accordance with current I.S.10101 electrical wiring standards



Presflo Multi

MULTIBOOST MODEL DESCRIPTION	STOCK CODE	DESIGN	VOLUME (L)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	INLET	OUTLET	OVERFLOW	DRAIN OFF	WEIGHT - ASSEMBLED KG
TOP Multiboost 125L (Compact) Presflo Multi fixed speed preset 2.5 Bar *	1019648	RECTANGULAR	125	560	490	850	½" BSP	1" BSP	1" BSP	1" BSP	27
TOP Multiboost 200L (Slimline) Presflo Multi preset (Round) *	1012150	ROUND	200	0	584	1190	½" BSP	1" BSP	1" BSP	1" BSP	26
TOP Multiboost 200L (Rectangular) Presflo Multi fixed speed *	1036388	RECTANGULAR	200	1106	475	790	½" BSP	1" BSP	1" BSP	1" BSP	30
Top Multiboost 210L (Corner) Presflo Multi 230v 1ph 2.5 Bar cut in 4.5Amp *	1238675	CORNER	210	570	512	1090	½" BSP	1" BSP	1" BSP	1" BSP	32
TOP Multiboost 250L (Utility) Presflo Multi preset 2.5 Bar cut in 4.5Amp *	1001909	ROUND	250	0	760	1033	½" BSP	1" BSP	1" BSP	1" BSP	28
TOP Multiboost 270L (Rectangular) Presflo Multi 230V 1PH *	1036439	RECTANGULAR	270	1571	475	680	½" BSP	1" BSP	1" BSP	1" BSP	32
TOP Multiboost 300L (Rectangular) Presflo Multi preset 2.5 Bar cut in 4.5Amp *	1017488	RECTANGULAR	300	1045	665	960	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 345L (Rectangular) Presflo Multi 230V 1PH 2.5 Bar (Coffin) *	1081644	RECTANGULAR	345	1571	475	750	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 350L (Slimline) Presflo Multi preset 2.5 Bar cut in 4.5Amp *	1001906	ROUND	350	0	584	1656	½" BSP	1" BSP	1" BSP	1" BSP	29
TOP Multiboost 355L Snug Presflo Multi preset 2.5 Bar cut in 4.5Amp *	1239222	SNUG	355	1200	590	885	½" BSP	1" BSP	1" BSP	1" BSP	28
TOP Multiboost 440L (Slimline) Presflo Multi 4.5Amp 440/L tank 2.5 Bar *	1201022	ROUND	440	0	584	1855	½" BSP	1" BSP	1" BSP	1" BSP	35
TOP Multiboost 450L (Utility) Presflo Multi 4.5Amp pre-set 2.5 Bar *	1001911	ROUND	450	0	760	1393	½" BSP	1" BSP	1" BSP	1" BSP	34
TOP Multiboost 455L (Rectangular) Presflo Multi 230V 1PH (Coffin) *	1070476	RECTANGULAR	455	1765	580	850	½" BSP	1" BSP	1" BSP	1" BSP	36
TOP Multiboost 500L (Rectangular) Presflo Multi 2 pre-set 2.5 Bar 4.5Amp *	1017490	RECTANGULAR	500	1120	727	1050	½" BSP	1" BSP	1" BSP	1" BSP	40
TOP Multiboost 650L (Utility) Presflo Multi 4.5 Amp 2.5 Bar *	1028679	RECTANGULAR	650	1083	669	1283	½" BSP	1" BSP	1" BSP	1" BSP	54
TOP Multiboost 750L (Utility) Presflo Multi cut in 4.5 Amp pre-set 2.5 Bar *	1001916	ROUND	750	0	760	2113	½" BSP	1" BSP	1" BSP	1" BSP	49
TOP Multiboost 1000L (Utility) Presflo Multi 4.5 Amp O/L tank *	1001925	RECTANGULAR	1000	1688	563	1640	½" BSP	1" BSP	1" BSP	1" BSP	74

*Drip tray, insulation jacket & anti vibration mat available (visit Multiboost.ie for installation manual)

Please ensure that Multiboost Presflo Multi is fitted with the correct rated MCB/RCBO on incoming electrical supply in accordance with current I.S.10101 electrical wiring standards



Steadypres (VSD) - Single Pump System

MULTIBOOST MODEL DESCRIPTION	STOCK CODE	DESIGN	VOLUME (L)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	INLET	OUTLET	OVERFLOW	DRAIN OFF	WEIGHT - ASSEMBLED KG
Multiboost NKM2/4 G-E 200L Slim (variable speed) drive 230V 1PH*	1020504	ROUND	200	0	584	1190	½" BSP	1" BSP	1" BSP	1" BSP	31
Multiboost NKM2/4 G-E 250L Compact (variable speed) drive 230V 1PH*	1019650	ROUND	250	0	760	1478	1/2" BSP	1" BSP	1" BSP	1" BSP	35
Multiboost NKM2/4 G-E 250L (variable speed) drive 230V 1PH*	1012151	ROUND	250	0	760	1033	½" BSP	1" BSP	1" BSP	1" BSP	35
Multiboost NKM2/4 G-E 350L (variable speed) drive 230V 1PH*	1001905	ROUND	350	0	584	1656	1/2" BSP	1" BSP	1" BSP	1" BSP	35
Top Multiboost Multi 355L Snug (variable speed) drive 230V 1PH *	1239223	SNUG	355	1200	590	900	½" BSP	1" BSP	1" BSP	1" BSP	30
Multiboost NKM2/4 G-E 440L Slimline (variable speed) drive 230V 1PH *	1235417	ROUND	440	0	584	1900	½" BSP	1" BSP	1" BSP	1" BSP	44
Multiboost NKM2/4 G-E 450L (variable speed) drive 230V 1PH *	1001912	ROUND	450	0	760	1393	1/2" BSP	1" BSP	1" BSP	1" BSP	40
Multiboost NKM2/4 G-E 650L (variable speed) drive 230V 1PH *	1075984	RECTANGULAR	650	1083	669	1283	½" BSP	1" BSP	1" BSP	1" BSP	60
Multiboost NKM2/4 G-E 750L Utility (variable speed) drive 230V 1PH cut in 2.5 Bar *	1012152	ROUND	750	0	760	2113	½" BSP	1" BSP	1" BSP	1" BSP	55
Multiboost NKM2/4 G-E 1000L (variable speed) drive 230V 1PH *	1012153	RECTANGULAR	1000	1688	563	1640	1/2" BSP	1" BSP	1" BSP	1" BSP	80

*Drip tray, insulation jacket & anti vibration mat available (visit Multiboost.ie for installation manual)

Please ensure that Multiboost Steadypres is fitted with the correct rated MCB/RCBO on incoming electrical supply in accordance with current I.S.10101 electrical wiring standards



Steadypres (VSD) - Twin Pump System

MULTIBOOST MODEL DESCRIPTION	STOCK CODE	DESIGN	VOLUME (L)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	INLET	OUTLET	OVER-FLOW	DRAIN OFF	WEIGHT - ASSEMBLED KG
Multiboost NKM2/4 G-E 450L Utility (Twin Variable Speed) drive 230V 1PH *	1238646	ROUND	450	0	760	1413	½" BSP	1" BSP	1" BSP	1" BSP	60
Multiboost NKM2/4 G-E 750L Compact (Twin Variable Speed) drive 230V 1PH *	1238647	ROUND	750	0	760	2133	½" BSP	1" BSP	1" BSP	1" BSP	72
Multiboost NKM2/4 G-E 1000L (Twin Variable Speed) drive 230V 1PH *	1238648	RECTANGULAR	1000	1688	563	1660	½" BSP	1" BSP	1" BSP	1" BSP	90

*Drip tray, insulation jacket & anti vibration mat available (visit Multiboost.ie for installation manual)

Please ensure that Multiboost Steadypres is fitted with the correct rated MCB/RCBO on incoming electrical supply in accordance with current I.S.10101 electrical wiring standards

Solar Boosting System

Dimensions, weights, connection sizes info

MULTIBOOST MODEL DESCRIPTION	STOCK CODE	DESIGN	VOLUME (L)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	INLET	OUTLET	OVER-FLOW	DRAIN OFF	WEIGHT - ASSEMBLED KG
Multiboost 450L Solar Standard S1-200 Hr-7 Lorentz Pump 850rpm To 2500rpm 420W (No PV Panel Incl.) *	1238677	ROUND	450	0	760	1393	½" BSP	1" BSP	1" BSP	1" BSP	28
Multiboost 750L Solar Standard S1-200 Hr-7 Lorentz Pump 850rpm To 2500rpm 420W (No PV Panel Incl.) *	1238678	ROUND	750	0	760	2113	½" BSP	1" BSP	1" BSP	1" BSP	40

*Drip tray, insulation jacket & anti vibration mat available (visit Multiboost.ie for installation manual)

Please note system does not include PV panel or mounting bracket

Controller Output

Max Output Voltage	55 V BLDC PWM 3-Phase
Max Frequency	170 Hz
Max Continuous Current	6 A
Max Continuous Power	250 W

Controller Input

Max Input Voltage	55 V DC
Operating Voltage	16-55 V DC
Max Current (DC)	6 A
Max. PV Short Circuit Current (ISC)	25 A



S-Connect App

Technical Data

Dimensions, weights, connection sizes info

PUMP DATA	INLET WATER PRESSURE	MAX INPUT VOLTAGE	NET WEIGHT	MAX FLOW	MAX HEAD
S1-200 HR07-2	<2 bar	55 V (DC)	2.5kg	1 M3/h [4 US gpm]	40M [130ft]
S1-200 HR14-2	<2 bar	55 V (DC)	2.5kg	1.9 M3/h [4 US gpm]	30M [100ft]
S1-200 HR23-2	<2 bar	55 V (DC)	2.5kg	3 M3/h [4 US gpm]	17M [55ft]

OPTIONAL ACCESSORIES



Remote Tank Switch (3m)
1235501



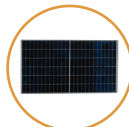
Tank Full Switch (10m)
1199855



Float Extension Cable (20m)
1236030



Motor Extension Cable (20m)
1235798



420W All Black PV Panel
1200819



Mounting System Single Panel Only
1236841



SCAN to view
Lorentz manual for installation and operation

Delivery and Handling

The Multiboost system is supplied from the factory, as an all-in-one packaged water boosting system. The weight and size of the Multiboost (depending on model chosen) may require the aid of lifting equipment and if so, must be handled in a safe and proper manner to avoid impact, causing unnecessary damage to the unit and/or individual/s. In the event that lifting equipment is used, please follow widely accepted safe lifting procedures.

Inspection

On delivery, the Multiboost system should be inspected thoroughly and any damage must be reported to the supplier in writing within 24/48 hours. Always ensure the Multiboost inspection takes place prior to installation.

Applications

The Multiboost system is designed to be compact, with ease of installation, and to provide many years of service for domestic pressure boosting and light commercial pressure boosting.

The Multiboost system should not be installed in areas that are classified as hazardous, where an explosion could occur or people could be harmed or in an area of any potential leaks that could cause damage to any person or property. The use of a bunded tank and/or a drip tray are essential to any Multiboost being installed above ceiling level. Ensure tank overflow and drip tray overflow are piped separately to drain. Overflow test to be carried out.

EPS accepts zero responsibility if the Multiboost is used to pump liquids other than water or the protection of a drip tray or use of a bunded tank was not adhered to.

Warranty

Your Multiboost system is covered by a 12 month warranty from the date of purchase. This warranty covers all parts or material defects and will be replaced free of charge. Labour call outs for warranty / repair will require a call out fee of €150 incl. VAT. This fee must be paid up front to secure call out. If there is a warranty defect with the unit, it will be repaired / replaced and your €150 will be refunded. If there is a defect outside EPS' control (i.e. incorrect installation) the €150 fee will not be refunded. The additional cost of replacement parts will be administered in this situation also. EPS cannot carry out any tests, servicing or repairs on a unit if the drip tray has not been fitted as part of the unit being installed in the property.

Site Storage

Once a Multiboost system has arrived on site and has been inspected, it is recommended that it is stored away from sharp objects, in a safe place, on an even surface, free from moisture, dust, sunlight and frost.

Pre Installation Checks

Please ensure the unit is fitted and supported in the right manner. Check the unit for any visual defects.

In accordance with the latest IEE regulation, all electrical connections should be carried out by a qualified electrician. The Multiboost must be earthed. EPS strongly recommend that a correctly sized RCBO for fixed speed and MCB for variable speed units are fitted on the incoming electrical supply. If the installer is fitting a plug, please ensure the correct fuse is selected in relation to the pump selection amps. Please see page 18 for more information.

Fill the storage tank with water through the ball cock. Please ensure the right ball cock is fitted for the corresponding pressure rating. High pressure and low pressure ball cocks are available. Installer to ensure and test the correct option is being used, as pressure differs between areas. Installer to check ball cock for any leakages and ensure it is fitted and working correctly.

Make sure the electrical supply is fully isolated and cannot be turned on before working on the pump, motor controller or any part of the unit.

Do not turn on electrical supply to the Multiboost without ensuring all electrical fittings and all covers are intact and fully isolated from human touch during operation.

General Information

1. The discharge pipe from the controller must be, at minimum, the same size as the Multiboost inlet supply; if it is smaller, it may result in reduced pressure and flow to the outlets
2. The overflow pipe that is fitted should be twice the size of the inlet supply and should be piped away to safe drainage zone. (It's recommended that a full test is carried out by the installer)
3. When being installed, the tank's overflow connection must be at least twice the internal size of the supply pipe, taking into account the incoming pressure and flow. The overflow pipe must not be obstructed or restricted (no sharp elbows), factoring in the distance being piped away to the drainage zone. The pipe should have an even, gradual, straight slope to cope with the incoming pressure and flow. This pipe may have to be further increased in size and EPS recommends the installer fully tests this system to ensure that the overflow pipe is capable and adequate to cope with the unlikely event of a failure. The pipe size should be increased in proportion with the distance from the unit to the drainage zone
4. The discharge pipe work must be properly secured so once the Multiboost is fitted, there is no stressed internal pipe work
5. Pipework installations should meet local water authority regulations
6. Electrical installation should meet the most recent issue of the IEE regulations and is fitted by a qualified person
7. Check that the cold water storage tank capacity is designed to meet your water consumption demands and is suitable for the installation location
8. Drip tray or bunded tank must be included on every installation with correct overflow. Ensure tank overflow and drip tray overflow are piped separately to drain. Overflow test to be carried out - overflows must be sized to take the water in the event of a ball cock failure.
9. Please refer to Multiboost Commissioning Checklist as a guide
10. Please ensure that tank has space around all sides to allow for expansion (not touching any structure, also no item to be placed on tank).

Best Practice

- Isolation valves fitted before and after unit.
- Overflow valve twice the size of the inlet supply valve.
- Pipe work easy to disassemble.
- Bunded tank/drip tray used for dwelling installations.

At a minimum, the overflow pipe that is fitted should be at least twice the size of the incoming supply (it may have to be enlarged further, depending on incoming pressure and flow) and should be piped away to safe drainage zone - an adequate, separate overflow is required for both the drip tray and the Multiboost unit.

Full overflow test to be completed after every installation. This is to ensure the capacity of the overflow pipe is able to handle any ball cock failure, blockage or restriction. Ensure pipe is not restricted & is laid straight with a sufficient fall without lags

The overflow pipe must not be obstructed or restricted (no sharp elbows), factoring in the distance being piped away to the drainage zone.

Check ball cock for any leaks (internal & external) for first installation never leave a tank unattended. Ensure when Multiboost tank is full and pressurised no leaks appear.

Do not fit pressure reducing valve close to control unit as it may cause water hammering.

Ensure pressure vessel is fitted after the cold water outlet of Multiboost.

Check correct pressure is set in vessel.

Water Quality

In the event that the water remains unused inside the tank for an extended period, it should be drained and flushed to maintain water quality. This is recommended to ensure water remains fit for use year on year. There should be a drain off point at the end of each tank.

As required by any stored water arrangement, it is recommended that you disinfect and clean the tank annually. Regular water samples should be taken periodically to check bacteria levels. (Recommended 2 tests per year).

Installation Best Practice

We do not recommend installations in loft areas due to the weight of the tank and the increased potential for damage in the event of a water leak or spillage. If the system must be installed above ceiling level, it is highly recommended to use drip trays/bunded tank with the added protection of an insulated jacket. Sound also travels very well through rafters and it is likely that such an installation will be noisy compared to an installation on solid ground. Installations higher than the mains water stop tap will reduce the refill rate of the tank.

1. The Multiboost should be installed in a dry, well ventilated and frost free area where it is not exposed to extreme temperatures. An ambient temperature of <20 °C is required to limit or reduce bacteria growth. Multiboost may be located outdoors if in a weatherproof, frost and rodent proof enclosure with adequate ventilation especially during warm weather
2. All pipe work that is exposed to freezing condition should be fully protected
3. Multiboost installation must be positioned properly for ease of access for examination and service for compliance with health and safety practice
4. EPS offer adequate facilities (Bunded Tank/Drip Tray) and protection from water damage in the immediate location of the Multiboost
5. 1L of water = 1kg weight and the weight of the storage tank also. Please check load bearing supports
6. There should be adequate lighting for service to be carried out safely
7. Where a Multiboost product is installed, it should be signed off by an approved engineer and/or plumber/installer ensuring that the unit is installed in an appropriate location and has all appropriate and required overflows and protections in place and all of our guidelines and recommendations have been considered. Please refer to Commissioning Checklist.
8. Please ensure that tank has space around all sides to allow for expansion. Please ensure that tank has space around all sides to allow for expansion (not touching any structure, also no item to be placed on tank).

Installation and Commissioning checklist - please refer to pages 19 & 20

Installation Guide

Foundation & Mounting

Multiboost must be mounted on a solid foundation to support the weight of the unit. Surfaces must be flat and level to spread weight load evenly. The recommended surface for Multiboost is concrete plinth or floor. As previously stressed, EPS does not recommend installation of Multiboost on wooden structures due the natural noise and vibration levels that travel along it. When a pump is submerged in liquid, you are no longer dealing with decibel levels, but with vibration levels. Please take the positioning of your Multiboost and the surrounding environment into account.

Storage Tank

Multiboost is a cold water storage tank and must be installed in accordance with current regulations. The quality of water in the storage tank should be potable and suitable for drinking. However, it should be noted that the quality of stored water deteriorates over time if ambient temperature is greater than 20 degrees Celsius (>20 °C). If the tank has been left idle for a length of time, it is recommended that it is completely drained. At temperatures above 20 °C, the use of a disinfection system (such as UV) is highly recommended.

Assist Tank & Bypass

EPS can provide an additional slave tank to cater for additional cold water storage demand and they can be linked together. This allows for an increase in storage tank capacity for extra demand that may occur. In the unlikely event of a Multiboost failure, it is recommended to install cold water mains bypass to allow the water supply to continue, at a reduced pressure, to the property. This ensures a low pressure supply is available at all times while the unit is being repaired. The bypass must be installed in accordance with the water bylaw regulations. The bypass should be drained to prevent water stagnation if it is not being used.

Always use drip tray and overflow for installations over ceiling height







➤ **HANDLE WITH CARE.** Do not drag, bump or drop the unit, as it will thoroughly damage the bottom of the tank.

➤ Customers should be asked not to lay any damage or loads on delivery prior to installation of unit and complete commissioning checks.

➤ Insulated tank with drip trays and insulated jackets to be used for in-house installations (depending on tank application & location).

➤ Tank installation above ceiling level is not recommended. Direct tank support is essential due to weight (i.e. 1.5 x 1.5 ft tank = 11kg).

➤ Unit to be fitted in a safe place away from any potential hazards, ensuring no pipes (H/L, DMS) or facilities holding tank expansion.

➤ Unit must be kept out of direct sunlight and

➤ extreme temperatures. If temperatures above 20 °C, the use of a disinfection system such as UV is highly recommended.

➤ EPS recommends testing water for any impurities or if any water treatment is required post.

➤ Protective lid of tank to be installed over control unit.

➤ EPS is unable to accept any unit installed above ceiling level without in accordance with H/L and building regulations.

➤ Unit to be installed by a qualified, competent and competent person with and in accordance with electrical building & electrical regulations & code of practice.

➤ For recommendations, also please refer to H/L or tank for details of water to be installed over a pump failure.

➤ Insulation that off value to be fitted on supply & delivery side of tank for maintenance and servicing purposes.

➤ Insulation should be at least 100mm thick and of the same material as the tank to be installed.

➤ As a minimum, the overflow pipe that is fitted should be at least 100mm above the top of the incoming supply to the tank to be installed.

➤ The tank to be installed should be tested and checked for any leaks or damage prior to installation. If any leaks or damage are found, please contact your supplier for a replacement.

➤ Full installation to be completed after every installation. This is to ensure the capacity of the unit is not affected by any leaks or damage.

➤ Full installation to be completed after every installation. This is to ensure the capacity of the unit is not affected by any leaks or damage.

➤ The overflow pipe must not be obstructed or

restricted (no sharp elbows), following in the direction being piped away to the drainage pipe.

➤ If a pressure reducing valve has been fitted after unit installation, please ensure the pressure in the tank is not to pressure any adjacent equipment.

➤ Pressure vessel or gas-charged to be checked every 6 months (not 2.5 bar) on an annual basis and to be tested every 12 months.

➤ High pressure ballcock fitted as standard. Low pressure ballcock on request.

➤ Use of an expansion vessel is highly recommended.

➤ EPS accepts no responsibility whatsoever for leaks made outside of tank which are outside of our control.





Remember to fit a DRIP TRAY?





"DO NOT REMOVE THIS LABEL"
(Removal of this label will void warranty)

ASH TYPE	1" ASH 1.5" ST. WASTE	1" ASH 1.5" ST. WASTE	1" ASH 1.5" ST. WASTE	1" ASH 1.5" ST. WASTE
PRESSURE CODE	LOW 10-2000 1000N	MEDIUM 2000-3000 3000N	HIGH 3000-4000 4000N	VERY HIGH 4000-5000 5000N




Bundled tank or tanks with drip trays and insulated jackets to be used for in-house installations (depending on tank application & location)

Fitting of a water bypass unit is essential (in the event of power failure or for servicing)

Use of sharp elbows that may cause flow restrictions is not recommended

Drip tray with correctly sized overflow capability to be installed

Full overflow test is necessary on every installation



Rethinking Water



Maintenance

- Multiboost is to be inspected and serviced yearly.
- Air pressure of vessel to be checked every six months (isolate power, drain-off water from system simply by opening tap to release pressure). Check pressure gauge of control unit and make sure it reads zero psi. Use hand held pressure gauge on valve of pressure tank to check pressure of vessel. Ensure pressure reads 2 lbs below cut-in pressure, repressurise if necessary, also visual check for any corrosion on vessel, change if necessary, also if additional pressure vessels on the system line, check and adjust pressure accordingly on completing reconnect power.
- Ball cock to be checked for any dripping or leakage also checking the internal jet for any dirt that may cause flow restriction or noise.
- Visual check of holding tank for any dirt that may have entered from the water supply. If dirty please clean out the tank, check for any leaks, cracks or bulges. Drain off fitting at bottom of tank. Check the pump is building correct pressure (using pressure gauge on control unit) to determine cut-in and cut-out pressure. Pump impellers may have to be cleaned or replaced if pressure is not being reached.
- Clean electronic sensors of controller if water is showing any impurities (always isolate power before commencing).
- Ensure insulation jacket is refitted correctly
- Overflow test of tank and drip tray should always be done after every maintenance/service.
- Ensure a minimum 14.5psi (1 bar) between cut-in pressure and max running pressure of pump.
- Please ensure that tank has space around all sides to allow for expansion.

Best Practice for Water Infrastructure

Ref: *Uisce Éireann Regulations for Booster Units (CDS-5020-03)*

3.28 Water Storage

Only indirect plumbing systems should be provided in internal water distributions systems i.e. all appliances shall be plumbed from a cold-water storage tank and supplied by gravity. The benefits of such indirect systems relate to ensuring that adequate storage capacity is available to serve all appliances within the Premises.

The plumbing and water storage requirements for premises should be in accordance with the current version of the Building Regulations and/or with the requirements of the relevant Local Authority's Plumbing Regulations and Bye-Laws, if such exist. In many instances, the Local Authority will require arrangements to be made to have internal plumbing inspected and approved by a Local Authority representative. All Developments over two storeys in height or requiring a supply pressure greater than 15m head at the Curtilage of the property must comply with the requirements of Section 3.13. Specific agreement will be required from Uisce Éireann and the relevant Local Authority as necessary. As a general rule, storage of 24-hour maximum daily consumption should be provided. The minimum water storage requirement for commercial, industrial or manufacturing purposes shall be calculated on a 24-hour or maximum daily consumption basis. General guidelines for domestic premises ref page 16 Table.

Minimum cold water storage for new developments using low flush & dual flush WCs	
Dwelling house or apt. (up to 3 bed without power shower)	227L
Dwelling house or apt. (4 bed or single power shower)	340L
Dwelling house or apt. (having 2 full bathrooms)	682L
Additional water storage per shower en-suite in the above	90L

All multi-boost systems come equipped with drain off/gravity feed connect option.



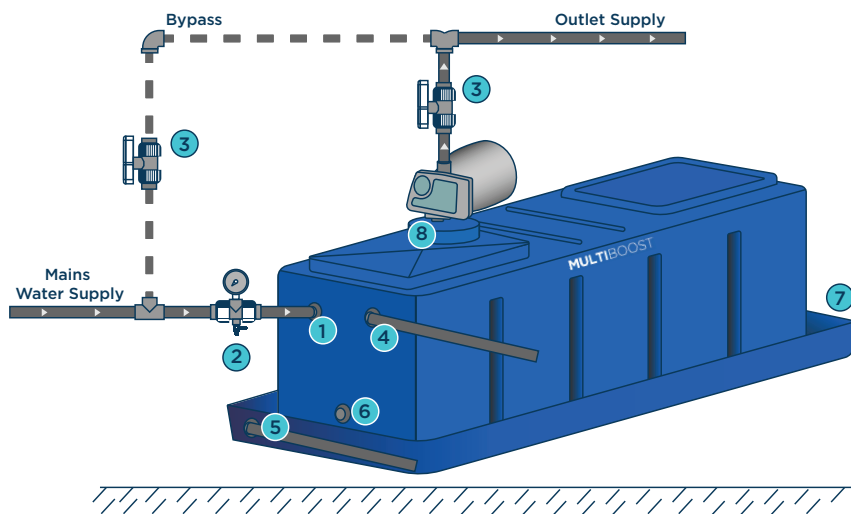
Multiboost

200L, 270L, 345L and 455L



Scan for Ball Cock
Performance Selection

1. Ball cock
2. Isolation valve with pressure gauge
3. Bypass isolation valve
4. Separate Multiboost overflow
5. Separate drip tray over flow
6. Multiboost drain off
7. Drip tray
8. Removable lid with pump & controller inbuilt



Always use drip tray with overflow & installation jackets above ceiling height

Please note - Ball cock entry location (1) and tank overflow connection (4) can be modified to suit differing applications if required.

Installation Schematic

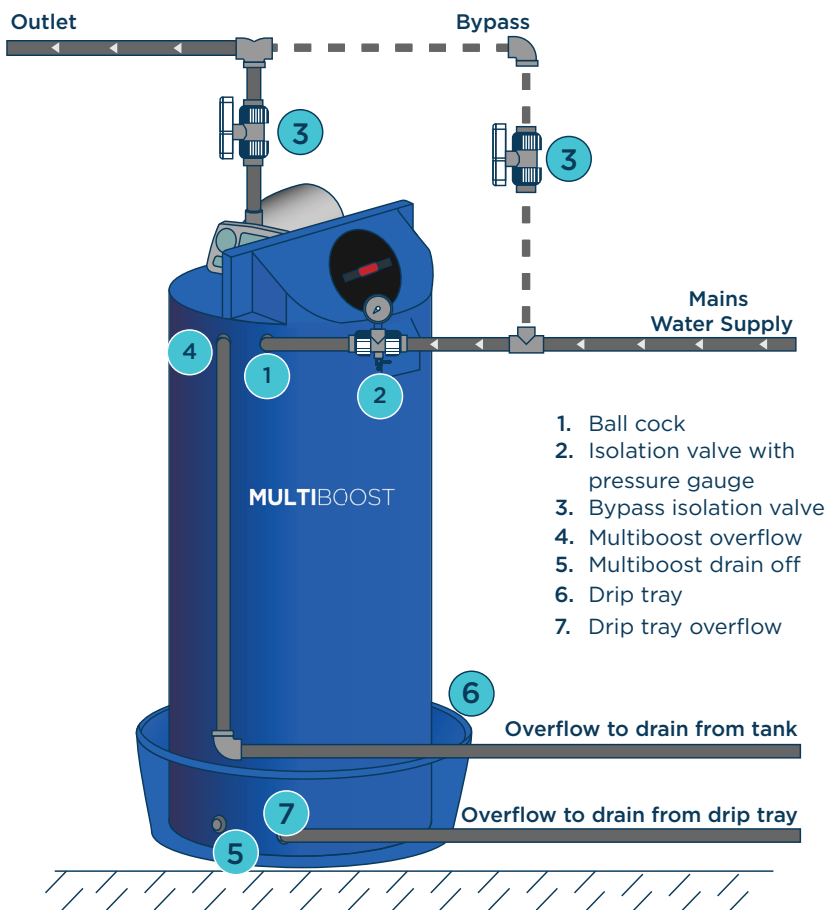


Multiboost

200L, 350L, 440L, 450L, 750L



Scan for Ball Cock
Performance Selection



Always use drip tray with overflow & installations jackets above ceiling height

Key Features

Key Features



Presflo Multi



EasyPress



VSD



- 1 Pressure Vessel (**Presflo Multi Version Only**)
- 2 Removal union to access flow valve
- 3 Pressure gauge
- 4 Countersunk mould (**Selected models only**)
- 5 Variable speed option available
- 6 Ball cock unit & float
- 7 Drain off facility to clean tank
- 8 Overflow
- 9 Inlet Water Supply
- 10 Total Removal Design of Pump and Controller
200L, 270L, 345L & 455L Rectangular Versions Only
- 11 Total Removal Design of Pump and Controller
200L, 210L, 350L & 750L Vertical Versions Only

Replacement Controller Card Videos

QR CODE



Presflo
Multi



Easy Press

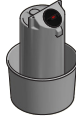


Presflo
Vario

Drip Trays



Multiboost Slimline Tray: 200L
 › Height: 603mm
 › Width: 760mm
 › Product Code: 1019180



Multiboost Slimline Tray: 300/350L
 › Height: 603mm
 › Width: 936mm
 › Product Code: 1019180



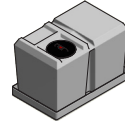
Multiboost Utility Tray: 750L
 › Height: 603mm
 › Width: 936mm
 › Product Code: 1028827



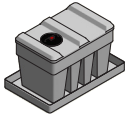
Multiboost Utility Tray: 250L
 › Height: 603mm
 › Width: 936mm
 › Product Code: 1028827



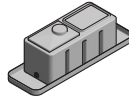
Multiboost Utility Tray: 450L
 › Height: 603mm
 › Width: 936mm
 › Product Code: 1028827



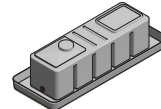
Multiboost Rectangular Tray: 500L
 › Height: 80mm
 › Width: 760mm
 › Length: 1250mm
 › Product Code: 1061457



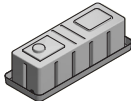
Multiboost Rectangular Tray: 300L
 › Height: 80mm
 › Width: 760mm
 › Length: 1250mm
 › Product Code: 1061457



Multiboost Rectangular Tray: 200L
 › Height: 80mm
 › Width: 635mm
 › Length: 1735mm
 › Product Code: 1033640



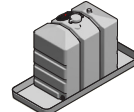
Multiboost Rectangular Tray: 270L
 › Height: 115mm
 › Width: 745mm
 › Length: 1935mm
 › Product Code: 1079554



Multiboost Rectangular Tray: 455L
 › Height: 115mm
 › Width: 745mm
 › Length: 1935mm
 › Product Code: 1079554



Multiboost Rectangular Tray: 1000L
 › Height: 115mm
 › Width: 745mm
 › Length: 1935mm
 › Product Code: 1079554



Multiboost Rectangular Tray: 650L
 › Height: 115mm
 › Width: 745mm
 › Length: 1935mm
 › Product Code: 1079554



Multiboost Xilent/Corner Tray: 210L
 › Height: 80mm
 › Width: 760mm
 › Length: 1250mm
 › Product Code: 1061457



Multiboost Splash Tray: 200L, 350L, 440L vertical
 › Height: 200mm
 › Width: 760mm
 › Product Code: 1092511



Multiboost Splash Tray: 250L, 450L, 750L vertical
 › Height: 300mm
 › Width: 870mm
 › Product Code: 1094603

NOTE: These drip trays will arrive with a separate overflow connection. The overflow connection must be installed on site by a qualified fitter to determine the correct positioning. Please ensure correct overflow pipe size is calculated, taking into account the overflow pipe distance, the incoming flow rate and the pressure of the inlet valve. A full test is recommended once installation is complete to ensure the overflow pipework has the capacity to handle an excess volume of water in the unlikely event of an overflow occurring.

**All dimensions are for drip trays only. Tank not included.*

Bunded tank or tanks with drip trays and insulated jackets to be used for in-house installations (depending on tank application & location)

All electrical work should be conducted by a fully qualified and competent electrician. Electrical supply must be isolated and cannot be switched on before removing any electrical covers. In accordance with the latest I.S.10101 standards, all electrical connections should be carried out by a qualified electrician. The Multiboost must be earthed. Please ensure that Multiboost is fitted with the correct rated MCB/RCBO on incoming electrical supply in accordance with current I.S.10101 electrical wiring standards.

As electrical regulations can change, please ensure correct regulations are adhered to at the time of installation. Multiboost is suitable for single phase voltage supply 230v+-10%. See below for the full load current of our different Multiboost pump options.

- All Steadypres variable speed units must be fitted with correct size MCB/RCBO in accordance with current I.S.10101 electrical wiring standards.
- All EasyPress & Presflo Multi units must be fitted with correct size MCB/RCBO breaker in accordance with current I.S.10101 electrical wiring standards.

Multiboost Pump Option	230V
Pedrollo Top Multi 2 (230V)	3.4 Amps
Pedrollo Top Multi Tech 2 (230V)	3.4 Amps
NKm 2/3 & UPm 2/3 Pump (230V)	5.4 Amps
NKm 2/4 & UPm 2/4 Pump (230V)	6.2 Amps

Commissioning

Carry out a visual check to make sure all pipe work and electrical connections are connected in a safe manner.

Fill the storage tank through the fill valve and ensure the overflow connection and bypass are connected. Ensure all of the below are completed before carrying out further commissioning checks using the Multiboost Commissioning Checklist as a guide.

1. Discharge connection is connected to the system pipe work and overflow.
2. The electrical supply cables are correctly connected to the mains isolator switch.
3. Check that the pre-charge pressure in the pressure tank is set 2LBs below the cut in pressure.
4. Check all isolation valves are open on the Multiboost.
5. Check all pipe work for leaks.
6. Please ensure all current electrical regulations are adhered to on installation
7. Ensure correct model of Multiboost is selected for each application
8. Ensure drip trays/bunded tanks and insulation jackets are installed where required
- 9. Full water overflow test to be completed after every installation** - Please refer to Commissioning Checklist.
10. Ensure a full mechanical and electrical test is carried out after installation has been completed by a qualified registered installer
11. Please ensure that tank has space around all sides to allow for expansion

Commissioning Checklist



Multiboost Commissioning Checklist

INSTALLER DETAILS

Installer Name:	
Address:	
Email:	
Mobile No:	

PROJECT DETAILS

Construction Co:	
Project ID:	
Engineer:	
Mobile No:	

CLIENTS DETAILS

Name:	
Address:	
Email:	
Mobile No:	

PURCHASE DETAILS

Place of Purchase:	
Plumber/Installer:	
Email:	
Mobile No:	

CONTROLLERS/ PUMP TYPE



EasyPress ☐



Presflo Multi ☐



SteadyPres ☐



Top Multi 2 ☐



NKM 2/4 G-E ☐

TANK DETAILS



☐ Utility



☐ Slimline



☐ Rectangular



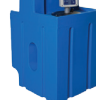
☐ Rectangular



☐ Snug



☐ Corner



☐ Compact

Size of Tank (L):	☐ 125L	☐ 200L	☐ 210L	☐ 250L	☐ 300L
	☐ 350L	☐ 355L	☐ 440L	☐ 450L	☐ 500L
	☐ 650L	☐ 750L	☐ 1000L		
Bunded Option:	☐ 250L	☐ 650L			
Tank Serial Number*:					
Control Unit Date**:					
Date Installed:					
Commission Date:					
Issue:					

Control Unit Date**

Tank Serial Number*

DRIP TRAYS



☐

SPLASH TRAYS



☐

ANTI-VIBRATION MAT



☐

INSTALLATION JACKET



☐

Always use drip tray with overflow & installations jackets above ceiling height

Commissioning Checklist

INSTALLATION AND COMMISSIONING CHECKLIST

ITEM	STATUS		COMMENT
Visual inspection of Multiboost for any defects	☐ Yes	☐ No	
Is a Multiboost installation label on tank?	☐ Yes	☐ No	
Is there a drip tray installation label on tank?	☐ Yes	☐ No	
Is the Multiboost positioned in a safe location?	☐ Yes	☐ No	
Is the Multiboost installed away from direct sunlight?	☐ Yes	☐ No	
Is there a bypass unit fitted around system? (for power failure)	☐ Yes	☐ No	
Is there a shut off valve fitted on inlet /outlet of tank?	☐ Yes	☐ No	
Is a drip tray fitted with correct size overflow? (piped separately)	☐ Yes	☐ No	
Is an insulation jacket / anti-vibration mat fitted?	☐ Yes	☐ No	
Has the correct overflow pipe been selected for Multiboost?	☐ Yes	☐ No	
Has the correct overflow pipework been selected for drip tray?	☐ Yes	☐ No	
Have overflows been piped separately, without any sharp edges which could cause restriction? (and full test carried out)	☐ Yes	☐ No	
Has incoming water pressure been tested and has the correct ballcock been selected and tested?	☐ Yes	☐ No	
Has the Multiboost been fitted in a ventilated area?	☐ Yes	☐ No	
Has the unit's power supply to electrical supply been connected in accordance with current regulations and by a qualified, trained person?	☐ Yes	☐ No	
Has a full test of overflow pipes been done?	☐ Yes	☐ No	
Has the system been correctly installed and fully tested?	☐ Yes	☐ No	
Any pressure reducing valves fitted on line ?	☐ Yes	☐ No	
If yes, has the control unit been adjusted to the correct parameters for operation? (Do not put PRV valve too close to outlet of Multiboost)	☐ Yes	☐ No	
Incoming water pressure to Multiboost	PSI		
Multiboost cut in pressure	PSI		
Multiboost close valve pressure	PSI		

Print Name (Installer):	Signed:	Position:	Date:
Print Name (Engineer):	Signed:	Position:	Date:

QR CODES

	Installation Video		O&M Manual		Unit Schematics
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Bunded tank or tanks with drip trays and insulated jackets to be used for in-house installations (depending on tank application & location)

Pump Type & Control Information

Maximum Operating Conditions

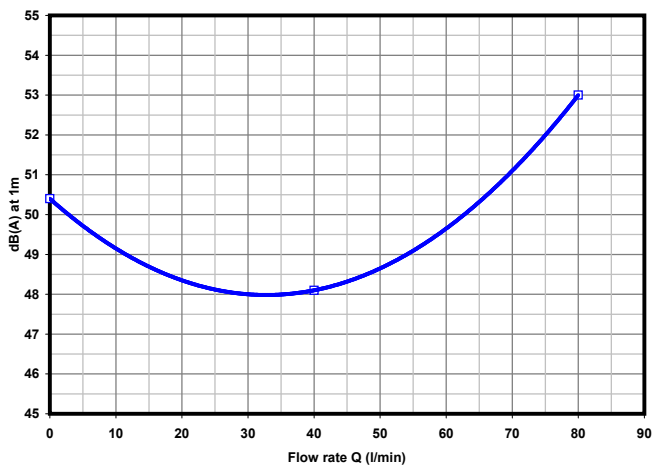
	Top Multi/ Top Multi Tech	NK/UP
Liquid Temperature	+40°C	+40°C
Maximum Pressures	4.2bar	9.5 bar
Noise Level of the Multiboost Set	≥48-55dB	≥48-55dB

• The declared performances are valid for liquids with density 1,0 kg/dm³ and kinematic viscosity 1mm²/s

Pump Type Specifications

Pump Type	Power		Q l/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Pedrollo Top Multi 2 / Top Multi Tech	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Pedrollo NKm-GE-N 2/3	0.55	0.75		48	46	44.5	42.8	40.5	37.5	33.5	29	23
Pedrollo Upm –GE-N 2/3	0.55	0.75		48	46	44.5	40.5	33.5	23	-	-	-
Pedrollo NKm –GE-N 2/4	0.75	1		60	58	55	51	47	42	36	30	23
Pedrollo Upm –GE-N 2/4	0.75	1		63	61	59	-	54	-	45	-	31

Top Multi 2 dB Level Graph 2015



The declared performances are valid for liquids with density 1,0 kg/dm³ and kinematic viscosity 1mm²/s

Please note, when a pump is submerged in liquid, you are no longer dealing with decibel levels, but vibration levels, so the positioning of your Multiboost is vitally important. The subsequent vibration levels will vary depending on the amount of space surrounding the unit and the type of material it is placed on. The use of insulation jackets will help to reduce vibration noise.

Configuration Fixed Speed Presflo Multiboost



Settable parameters:

Running pressure.

When the pressure in the system falls below the P_m , PRESFLO® starts-up the pump. **The P_m should always be higher by at least 0.2 – 0.3 bar of the pressure generated by the column of water overlooking PRESFLO®.**

The P_m value can be varied in the field between 1 bar and 5 bar.

Maximum current allowed.

PRESFLO® is fitted with a current sensor, which continually detects the absorption of the pump. If the current remains above the set I_{max} value for a significant period of time, PRESFLO® stops the pump to protect it from damages (LOCK condition for OVERCURRENT). PRESFLO® nevertheless allows the I_{max} to be exceeded for short periods during the pump start-up phase.

For correct functioning, the I_{max} should be set at a value higher by approx. 10 – 20% to the maximum absorption of the pump

(normally indicated on the rating plate of the motor).

If this rating value is not known, it's better to leave the standard I_{max} value (16A) to avoid that the pump stops also in normal absorption conditions.

The I_{max} value may be varied in the field between 4A and 16A.

Manufacturer's setting:

PRESFLO® is supplied with the following STANDARD CONFIGURATION:

Running pressure

$P_m = 2$ (bar)

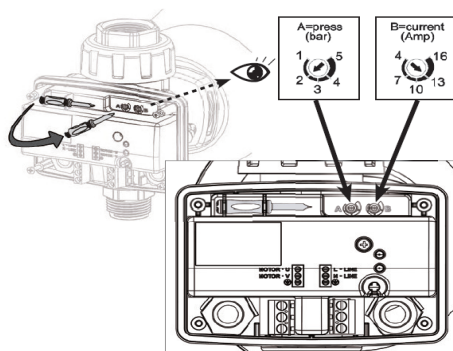
Max. current allowed

$I_{max} = 16$ (A)

Configuration:

The adjustment of the starting pressure (P_m) and the maximum permissible current (I_{max}) is done by means of two trimmers shown in FIG.

1. Remove the small screwdriver and adjust the trimmer on the desired limits, according to the values shown on the plate located under the screwdriver.
2. The start-up pressure can be adjusted continuously from 1 to 5 bar (trimmer A) .
3. The maximum permissible current can be adjusted continuously from 4 to 12 A (trimmer B)
4. When you finish adjustment close the cover



Fixed Speed Control Pressure Settings

The Multiboost discharge cut-in pressure is factory set on the controller. The maximum discharge pressure setting should not be set higher than the pressure the pump can achieve, otherwise the pump will not stop with "a no water" demand condition, and will result in heating the liquid in the pump and possible shaft seal damage.

The cut-in pressure is factory set at 2.5 bar pressure and 4.5 Amps

Pre-charge cut in pressure in the pressure tank must be set 2lbs below the cut in pressure. It is recommended to check the tank air pressure every 4 months.

Trouble Shooting



Problems	Signals	Possible causes	Solutions
PRESFLO®(Multi) will not turn on	POWER ON  PUMP ON 	No power	Check the electrical connections
The pump will not start when a tap is turned on	POWER ON  PUMP ON 	PRESFLO® model with an inadequate start-up pressure (Pm) for the chosen application	Relocate PRESFLO® to another position Install a model with a higher start-up pressure (Pm)
	POWER ON  PUMP ON 	Faulty electrical connections or pump out of service	Check the electrical connections and that the pump is working
	POWER ON  PUMP ON 	PRESFLO® "STAND-BY"	Reset PRESFLO® (See Operation, point 3).
	POWER ON  PUMP ON 	PRESFLO® in temporary shut down due to "DRY RUNNING" due to lack of water	Wait for the automatic restart or press START to restart manually (See Operation, point 4a)
	POWER ON  PUMP ON 	Maximum pump pressure is insufficient	Replace the pump with one with more suitable characteristics Install a model with a lower start-up pressure (Pm)
	POWER ON  PUMP ON 	PRESFLO® in temporary shut down due to "FREQUENT START-UP"	Wait for the automatic restart or press START to restart manually (See Operation, point 4b). Remove any cause of leakage from system or install an expansion tank
	POWER ON  PUMP ON 	PRESFLO® stops due to "OVER-CURRENT"	Check if the setting of the maximum current (Imax) is congruent with the data of the pumps' rating plate. If after manually restarting the pump after correctly setting PRESFLO®, it again signals an anomaly, check that the motor has no mechanical or electrical problems.
The pump delivers no or low pressure	POWER ON  PUMP ON 	Filters or pipes may be partly blocked	Check the water pipes
	POWER ON  PUMP ON 	PRESFLO®'s valve will not open completely	Check that the valve is not blocked by any foreign objects and clean if necessary
The pumps stops and starts repeatedly	POWER ON  PUMP ON    POWER ON  PUMP ON 	Leaks within the system (less than the shut-off flow rate Qa)	Check the hydraulic connections and repair any leaks. If a leak cannot be repaired, install an expansion tank
The pump will not stop	POWER ON  PUMP ON 	The flow rate is higher than the shut-off flow rate (Qa)	Make sure that all taps are turned off and that there are no leaks within the system
	POWER ON  PUMP ON 	PRESFLO®'s check valve will not close or is damaged	Check that the valve is not blocked by any foreign objects and clean if necessary

On  Off  Flashing 

Trouble Shooting



Problems	Signals	Possible causes	Solutions
EASYPRESS will not turn on	POWER ● STATUS ●	No power	Check the electrical connections
The pump will not start when a tap is turned on	POWER ● STATUS ●	EASYPRESS® model with an inadequate start-up pressure (Pm) for the chosen application	Relocate EASYPRESS® to another position Install a model with a higher start-up pressure (Pm)
	POWER ● STATUS ●	Faulty electrical connections or pump out of service	Check the electrical connections and that the pump is working
	POWER ☼ ● ● ● ● ● STATUS ●	EASYPRESS® "OUT OF SERVICE"	Reset EASYPRESS® (See Operation, point 3).
	POWER ☼ ● ● ● ● ● STATUS ☼ ● ● ●	EASYPRESS® in temporary shut down due to "DRY RUNNING" due to lack of water	Wait for the automatic restart or press START to restart manually (See Operation, point 4a)
	POWER ☼ ● ● ● ● ● STATUS ☼ ● ● ●	Maximum pump pressure is insufficient	Replace the pump with one with more suitable characteristics Install a model with a lower start-up pressure (Pm)
		EASYPRESS® in temporary shut down due to "FREQUENT START-UP"	Wait for the automatic restart or press START to restart manually (See Operation, point 4b). Remove any cause of leakage from system or install an expansion tank
The pump delivers no or low pressure	POWER ● STATUS ●	Filters or pipes may be partly blocked	Check the water pipes
	POWER ● STATUS ●	EASYPRESS®'s valve will not open completely	Check that the valve is not blocked by any foreign objects and clean if necessary
The pumps stops and starts repeatedly	POWER ● ↻ ● STATUS ● ↻ ●	Leaks within the system (less than the shut-off flow rate Qa)	Check the hydraulic connections and repair any leaks. If a leak cannot be repaired, install an expansion tank
The pump will not stop	POWER ● STATUS ●	The flow rate is higher than the shut-off flow rate (Qa)	Make sure that all taps are turned off and that there are no leaks within the system
	POWER ● STATUS ●	EASYPRESS®'s check valve will not close or is damaged	Check that the valve is not blocked by any foreign objects and clean if necessary

Off ● On ● Flashing ☼ ● ● ● ● ●

Variable Speed Controls

For all Variable Speed configurations, see the Steadypres V2.0 control O&M manual for assistance which illustrates info step by step for Installation, Operation, Maintenance and Trouble Shooting. Contact EPS for further assistance if you require this detail.

Trouble Shooting

2.2 WARNINGS



- Please read all parts of this manual carefully before installing and using the product.
- Check that the rating plate data is as required and matches the facilities.
- Only qualified personnel capable of making electrical connections in accordance with national regulations may carry out installation and maintenance.
- STEADYPRES must only be used for the purpose and operation for which it was designed. Any other application and use should be considered misuse and hazardous.
- In the event of a fire at or near the installation site, do not use water jets, but use suitable extinguishers (powder, foam, carbon dioxide).
- Install the equipment away from heat sources in a dry, covered place in accordance with the specified degree of protection (IP).
- Only qualified technicians who are aware of the safety regulations in force may carry out any installation and/or maintenance work.
- Use of non-original spare parts, tampering or improper use will void the product warranty.
- The manufacturer cannot be held liable for damage deriving from misuse of the product and is not responsible for damage caused by maintenance or repairs carried out by unqualified people and/or using non-original spare parts.

DURING THE FIRST INSTALLATION PHASE AND IN THE EVENT OF MAINTENANCE, ensure that:

- THERE IS NO LIVE VOLTAGE on the electricity mains.
- The system IS NOT PRESSURISED
- The electrical power mains is equipped with safety devices and, in particular, a high sensitivity differential switch (30 mA in class F and B) suitable to protect against fault currents, alternating type, unipolar button, continuous with high frequency. Also check that the earthing complies with the regulations.
- Before removing the cover of the inverter or starting interventions on it, disconnect the system from the electrical mains at least 5 minutes so that the capacitors have the time to discharge using the built-in discharge capacitors;
- Having carried out the electrical connection on the system, check the settings of the inverter.
- Do not remove the cover and/or disconnect power if the inverter is running.

CAUTION: in out of service status, the STEADYPRES remains live; before any intervention you must disconnect the voltage from the unit.

EMERGENCY STOP

While STEADYPRES is running, you can make an emergency stop by disconnecting the power supply to the unit. If intervention is being carried out, ensure there is no VOLTAGE on the electricity mains. Make sure that the system is NOT PRESSURISED.

In the presence of low voltage (rated value -10%) overcurrents can occur in start-up and at maximum power.

STEADYPRES IS NOT SUITABLE for pumping flammable liquids or working in environments with danger of explosion.

AUTO-LIMITATION FOR OVERLOAD

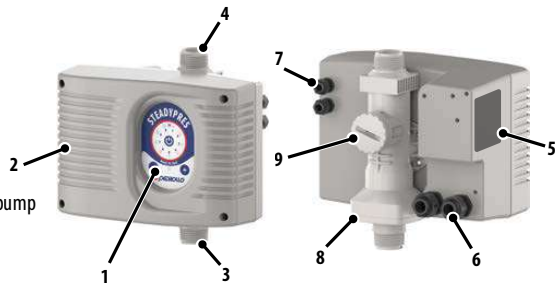
If the current detected by the inverter or the temperature of the inverter components exceeds the safety limits, STEADYPRES proceeds with a progressive reduction in operating frequency until the values exceeding the limits have returned within them (automatism inside inverter).

3 PRODUCT DESCRIPTION

- STEADYPRES is an electronic command and control device for a surface or submerged pump, based on the inverter technology.
- It is applied to the delivery of the electric pump and, by adjusting the frequency of the current, allows you to vary the rotation speed of the motor based on the quantity of water required, guaranteeing constant pressure on the system.
- The pressure is easily adjusted by the user using two keys **+** and **-** is placed on the control panel with a value between 1 and 9 bar.
- A versatile product which, with a unique device, can combine with a SINGLE-PHASE or THREE-PHASE electric pump thanks to a selector inside which allows selection of the output phases.
- It protects the electric pump from dry running, overcurrent, short circuit or current dispersion and low voltage power supply.
- It can be equipped with an expansion board, which allows working parallel with other inverters in the pumping unit and management of an input and an output signal.

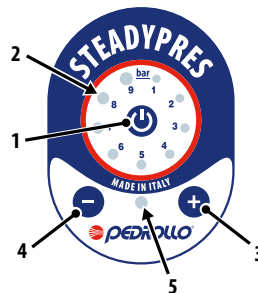
3.1 LIST OF PARTS

- 1) Control panel
- 2) Front cover
- 3) Extraction inlet
- 4) Delivery inlet
- 5) Technical data plate
- 6) Cable glands for power supply/electric pump
- 7) Cable glands for electric signals
- 8) Check valve unit
- 9) Connection for expansion tank (1")



3.2 CONTROL PANEL

- 1) ON/OFF key
- 2) Operating and alarm LED indicators
- 3) Pressure increase key
- 4) Pressure decrease key
- 5) Operating status LED indicator



3.3 TECHNICAL DATA AND USE LIMITATIONS

STEADYPRES USE METHOD	S/S (Single-phase / Single-phase)	S/T (Single-phase / Three-phase)
Power supply voltage	1 ~ 230 V (1 ~ 115 V)	1 ~ 230 V (1 ~ 115 V)
Electric pump motor voltage	1 ~ 230 V (1 ~ 115 V)	3 ~ 230 V (3 ~ 115 V)
Permitted voltage variation	±10%	±10%
Power frequency	50Hz or 60Hz	50Hz or 60Hz
Maximum electric pump motor current	8.5 A	7.0 A
Maximum electric pump motor power	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Adjustment pressure	1 ÷ 9 bar	
Maximum liquid temperature	+40 °C	
Ambient temperature	0°C ÷ 40 °C	
Maximum pressure	10 Bar	
Degree of protection	IP 65	
Work position	Vertical, with liquid infeed from below and outfeed from above	
Fluids permitted	Clean water and chemically non-aggressive liquids. If the liquid has impurities, install a filter upstream.	

3.4 PARALLEL APPLICATIONS

- In parallel applications, there is a MASTER inverter and a SLAVE inverter, controlled by the MASTER. The recognition of the MASTER inverter from the SLAVE inverter is given by the LED of the operating status of the SLAVE inverter that flashes BLUE every second.
- The MASTER receives parameter programming and controls the operating data, and activates and deactivates the SLAVE as needed.
- If the MASTER is switched off, the SLAVES are again autonomous and continue to operate independently..
- When working in parallel configuration with other inverters, STEADYPRES manages the alternation of starts, to standardise the use of electric pumps

3.5 LIGHT SIGNALS



Fixed RED LED



DECOMMISSIONING

STEADYPRES is live
but was manually put out
of service



Fixed GREEN LED



PUMP IN STAND-BY

STEADYPRES is in service but
the pump is NOT running



Fixed GREEN LED +
GREEN LED
In continuous rotation



PUMP RUNNING

STEADYPRES is running and
the pump is running



Flashing GREEN LED +
GREEN LED
In continuous rotation



**PUMP IN STOPPAGE
PHASE**

STEADYPRES is running
in stop phase

4 INSTALLATION AND SETTINGS

4.1 INSTALLATION

COMPULSORY

- Install STEADYPRES in **vertical position**.
- If STEADYPRES is equipped with **3-point joints**, do not use seals inside the three-point joint; there is already a sealing OR there.
- Install STEADYPRES so that no **harmful vibrations or mechanical stress** arrive from the connecting tubing
- If the **temperature goes under 0 °C**, empty water from the STEADYPRES. Freezing of the water contained in STEADYPRES would cause irreversible damage.
- It is indispensable for installation of an **EXPANSION TANK** system downstream of the inverter, especially if there are small leaks.
 - Accumulates pressurised water to reduce electric pump start-up to a minimum.
 - Absorbs any excess pressure from the system.
 - The minimum volume necessary, in litres (for membrane models) is approximately equal to 10% of the maximum flow rate of the individual pump, expressed in l/min.

Example of standard application:

$Q_{\max} = 80 \text{ l/min} \rightarrow V = 80 \times 10\% = 8 \text{ litres}$ (rounded in excess to commercial size)

- **Inflation (system with no load): 1 bar less in working pressure:**

Example: $P_{\text{set}} = 4 \text{ bar} \rightarrow P_{\text{inflation}} = 3 \text{ bar}$

RECOMMENDED

- Install STEADYPRES in **premises protected** against external agents, ventilated, free of humidity or excess dust.
- Install STEADYPRES as close as possible **to the electric pump**
- If there are **long cables between STEADYPRES and the electric pump** (e.g. submerged electric pump), you are advised to apply a sine filter to protect the motor and the STEADYPRES from voltage peaks

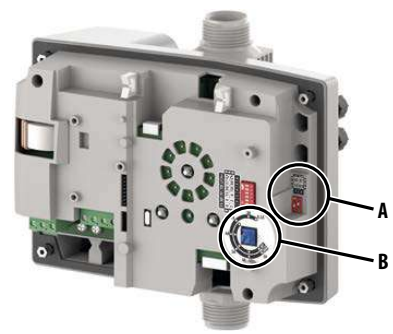
4.2 STEADYPRES BASIC CONFIGURATION

⚠ Before carrying out connections, ensure there is no voltage on the terminals of the line conductors. Also ensure the electrical power supply mains is equipped with safety devices and in particular a high sensitivity differential switch (30 mA, in class F or B) and a ground compliant with standards.

- Using the STEADYPRES DIP SWITCHES (selectors), you can:
 - set the output frequency at 50 Hz or at 60 Hz.
 - or have the SINGLE PHASE (MM) or THREE PHASE 230V (ST) output

⚠ STEADYPRES by default set with the frequency at 50 Hz and with the ST (THREE PHASE 230 V)

- Through the TRIMMER, STEADYPRES has the possibility of setting the current protection threshold
- To access the configuration DIP SWITCHES (A) and TRIMMER (B), remove the front cover unscrewing the four locking screws.



VERTICAL DIP SWITCHES (A)

	No.	FUNCTION	SELECTOR POSITION	VALUE	DEFFAULT VALUE
1	Working frequency	Hz	ON (up)	60 Hz	–
			OFF (down)	50 Hz	50 Hz
2	STEADYPRES output SINGLE PHASE or THREE PHASE	Model	ON (up)	ST (three phase)	MT (three phase)
			OFF (down)	MM (single phase)	–

PROTECTION CURRENT ADJUSTMENT TRIMMER (B)

	FUNCTION	VALUE		DEFFAULT VALUE
		Configured as S/S	Configured as S/T	
	Electric pump protection current adjustment	Range 3 A – 8.5 A	Range 3 A – 7 A	7 A

4.3 SETTING THE ADVANCED PARAMETERS

⚠ These configurations are exclusively intended for qualified staff.

STEADYPRES can be programmed by default to adapt to the most common types of system, **without needing any advanced parameters.**

In particular, the advanced parameters and the **relevant default settings** are:

DESCRIPTION	VALUE
Motor frequency	50 Hz
Switching frequency	7 kHz
Response factor (reactivity)	2
Stabilisation time	6 seconds
DRY RUNNING time	10 seconds
Minimum operating frequency	30 Hz
Motor rotation direction	Clockwise ↻

In particular cases, it is convenient to edit the advanced parameters to better adapt to the existing system.

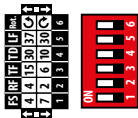
Remove the front cover to access the settings.

STEADYPRES avails of 6 DIP SWITCH (horizontal selectors) - (C) to adjust the advanced parameters.



HORIZONTAL SELECTORS (C)

No.	FUNCTION		VALUE	
			ON (LH selector)	OFF (RH selector)
1	Switching frequency	FS	4 kHz	7 kHz
2	Response factor (reactivity)	RF	4	2
3	Stabilisation time	FT	15 sec.	6 sec.
4	DRY RUNNING time	TD	30 sec.	10 sec.
5	Minimum operating frequency	LF	37 Hz	30 Hz
6	Motor rotation direction	Rot.	Anti-clockwise ↺	Clockwise ↻
			DEFAULT VALUE	



4.4 ELECTRICAL CONNECTION

⚠ Before carrying out connections, ensure there is no voltage on the terminals of the line conductors. Also ensure the electrical power supply mains is equipped with safety devices and in particular a high sensitivity differential switch (30 mA, in class F or B) and a ground compliant with standards.

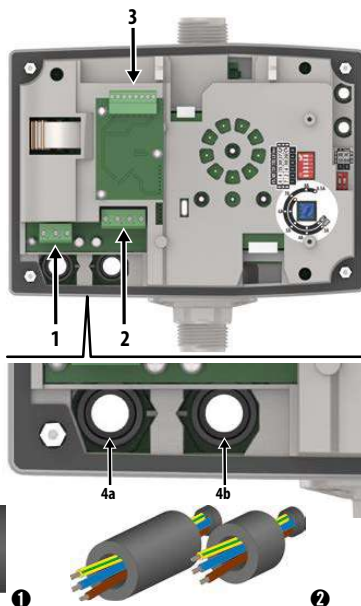
- Check the electricity mains power supply voltage corresponds to the voltage indicated in the STEADYPRES plate and the motor, therefore connect the ground before every other connection.
- The voltage of the STEADYPRES power line can vary in a range between +/-10% of the plate power voltage.
- Check the rated current absorbed by the STEADYPRES unit is compatible with the plate data.
- The power line must be protected by a differential circuit breaker switch, with the characteristics listed above.
- Secure the electrical cables in the corresponding terminals using a tool of suitable size to avoid damaging the clamping screws. Take extra care when using an electric screwdriver.
- Do not use multicore cables containing both conductors connected to inductive power loads and signal conductors such as sensors and digital inputs.
- Make connection cables as short as possible, and avoid forming them into a spiral shape as inductive effects could damage the electronics.
- All the conductors used in the cabling must be appropriately proportioned to support the load they must power.

⚠ STEADYPRES automatically recognises the power supply voltage (230 V or 115 V).

To access the terminals of the electrical connections remove the cover of the STEADYPRES.

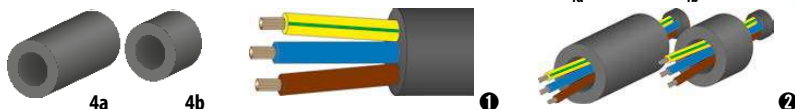
Inside the STEADYPRES, there is a:

- POWER INPUT terminal board (1)
- electric pump motor OUTPUT terminal board (2)
- CONNECTION OF ELECTRICAL SIGNALS terminal board (3) inbound and outbound (optional).



4.4.1 INSTALLATION OF FERRITES

- The provided ferrites (4a and 4b) reduce EMC noise and should be installed at the time of electrical connection.
- Prepare the POWER and MOTOR cables by removing the outer sheath as shown in Fig. ①
- Insert the longer length ferrite (4a) to the POWER cable and the shorter length ferrite (4b) to the MOTOR cable, as shown in Fig. ②



STEADYPRES can be prepared, on request, with metal power cable glands, connected to the ground, for passage of a shielded cable against EMC disturbance.

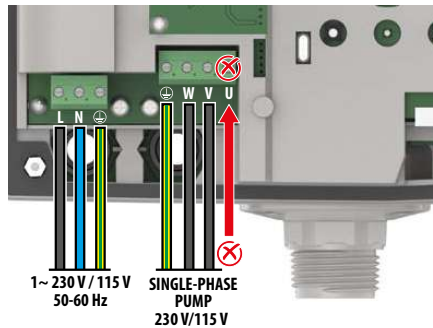
4.4.2 STEADYPRES CONNECTION CONFIGURED AS S/S (single phase output)

SINGLE PHASE power supply 230 V / 115 V - 50 Hz or 60 Hz

- Connect the power cable to the power input terminals **N** and **L** of the STEADYPRES.

SINGLE PHASE electric pump output 230 V / 115 V - 50 Hz or 60 Hz

- Connect the cable of the motor to the terminals **W** and **V** of the STEADYPRES.



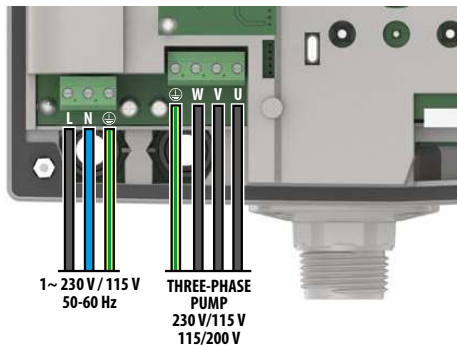
4.4.3 STEADYPRES CONNECTION CONFIGURED AS S/T (three phase output)

SINGLE PHASE power supply 230 V - 115 V - 50 Hz or 60 Hz

- Connect the power cable to the power input terminals **N** and **L** of the STEADYPRES.

THREE PHASE electric pump output 400 V | 200 V - 50 Hz or 60 Hz

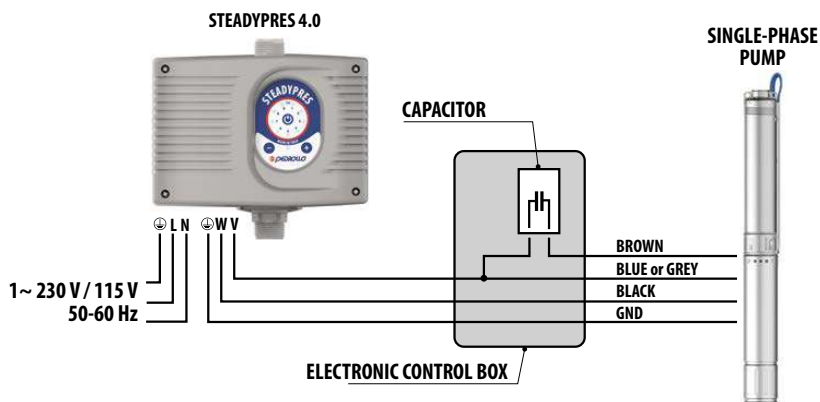
- Connect the motor cable to the power output terminals **W**, **V** and **U** of the STEADYPRES.
- The 230/400 V three phase motor must be connected in DELTA.



⚠ Ensure the pump connected to the STEADYPRES has the voltage corresponding to the power supply of the STEADYPRES:

- STEADYPRES power supply at 230 V → electric pump at 230 V
- STEADYPRES power supply at 115 V → electric pump at 115 V

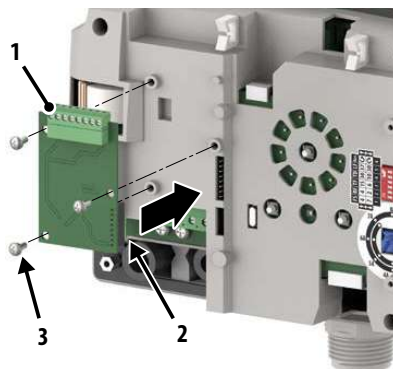
4.4.4 SUBMERGED SINGLE PHASE ELECTRIC PUMP CONNECTION (with 4 CABLES)



4.4.5 INSTALLING THE EXPANSION BOARD (optional)

⚠ Disconnect voltage to the inverter and wait 2 minutes to discharge the capacitors.

- Remove the front cover to access the board compartment.
- Install the board (1) in position, correctly connecting the connector (2) in its compartment.
- Tighten the three fastening screws (3).
- Re-assemble the front cover correctly.

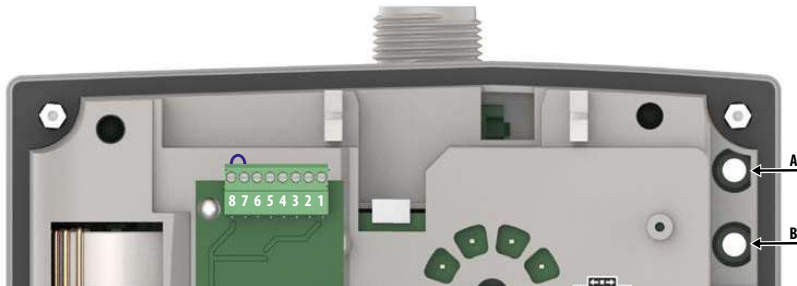


4.4.6 CONNECTION OF ELECTRIC SIGNALS (optional)



Only for STEADYPRES equipped with an expansion board.

For installation of the expansion board, see the chapter on **INSTALLING THE EXPANSION BOARD**.



Use cable entry/exit points A and B to pass the signal cables to connect to the expansion card.

DESCRIPTION OF TERMINAL FUNCTIONS

1-2 If bridged, STEADYPRES becomes **SLAVE**

RS 485 (inverter parallel / communication with outside)

3-4 3 = RS 485 -

4 = RS 485 +



OUTPUT relay towards outside

5-6 5 = NO (normally open) contact

6 = C (common) contact

INPUT relay from outside

7-8

If opened, it inhibits operation of the STEADYPRES (normally bridged, default setting)

FUNCTIONALITY

CONNECTION OF THE SIGNAL BETWEEN THE INVERTERS (RS485)

Connect together:

- the terminals **3** of the various inverters (RS 485 -)
- the terminals **4** of the various inverters (RS 485 +)

CONNECTION OF THE ALARM SIGNAL - OUTPUT outwards

(in the applications with the inverter parallel, the wiring must be carried out with the MASTER inverter)

Logic NO (normally open)

Connect the signal cable to the terminals **5** and **6**

The maximum connectable load is 0.5 A at 250 Vac

CONNECTION OF LEVEL SIGNAL (or another input signal) - INPUT from outside

Connect the signal cable to the terminals **7** and **8** (**clean contact**)

In the applications with the inverter parallel, the wiring must be carried out with the MASTER inverter

5 START-UP

⚠ Before start-up, it is essential to have carefully read this manual and follow the instructions; you can thereby prevent wrong settings and manoeuvres that could cause operating faults.

⚠ Before start-up of the system, it is essential to carry out any priming of the pumps (filling and purging air) see chapter "OPERATION IN MANUAL MODE (test and priming)".

- When STEADYPRES is powered, it will be:
 - IN SERVICE if at time of last switch off it was IN SERVICE.
 - OUT OF SERVICE if at time of last switch off it was OUT OF SERVICE.
- In the event of accidental contact of the voltage, if STEADYPRES was IN SERVICE, on resetting the mains, it returns IN SERVICE.
- To start STEADYPRES, press the **ON/OFF**  key on the control panel and press it again to place it out of service.

6 ADJUSTING THE WORKING PRESSURE

The WORKING PRESSURE is displayed via the GREEN LEDs that light up on the control panel, and which ranges from a minimum of **1 bar** to a maximum of **9 bar**.

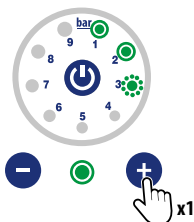
- A fixed GREEN LED indicates a full bar 
- A flashing GREEN LED indicates a 0.5 bar 

To adjust the WORKING PRESSURE:

- Press the key **+** to display the working pressure.
- Press the keys **+** or **-** to increase or decrease the WORKING PRESSURE.
- On each press of the key **+** or **-** you increase or decrease the value in steps of 0.5 bar.



EXAMPLE



- Press the key **+** to display the working pressure.
- With the green LEDs on, as in the figure, the working pressure is 2.5 bar



- Each press of the key **+** increases the pressure by 0.5 bar.
- For example, to bring the working pressure from the current 2.5 bar to 4 bar, press the key three times **+**
- The value increases by 1.5 bar (0.5 + 0.5 + 0.5 bar)



- The LEDs switch on as illustrated in the figure.
- Working pressure 4 bar

7 WORKING PRESSURE (test and priming)

⚠ These operations are exclusively intended for qualified staff.

From the OUT OF SERVICE status, you can manually start the electric pump, for TESTING and PRIMING.

- Press the set of keys **+** and **-** for **5 seconds** (all the LEDs flash to indicate the STEADYPRES is ready to start in manual mode)
- Press the **ON/OFF** button 
- The pump starts at minimum speed.
- On the control panel, the LEDs assume the status in continuous rotation and the status LED is fixed green.

To read the PRESSURE

- Press the key **+** to display the working pressure.
- The status LED turns GREEN.
- Press the keys **+** or **-** to increase or decrease the WORKING PRESSURE (steps of 0.5 bar).

To read the CURRENT

- Simultaneously press the keys **+** and **-** for **1 second**.
- The status LED turns RED.
- Press the keys **+** or **-** to increase or decrease the CURRENT (steps of 0.5 A).

To read the FREQUENCY or PRIME the pump

- Simultaneously press the keys **+** and **-** for **1 second**.
- The status LED turns BLUE.
- Press the keys **+** or **-** to increase or decrease the FREQUENCY (steps of 5 Hz. The first LED has a value of 30 Hz).
- To prime the pump, increase the frequency up to 50 Hz to have the maximum priming capacity.
- If priming does not take place approximately within 4 minutes, the procedure interrupts and all the hydraulic and mechanical checks should be carried out in this case.

EXAMPLE

Pressure = 3.5 bar



GREEN status led

1 LED fixed = 1 bar

1 LED flashing = 0.5 bar

Current = 4.5 A



RED status led

1 LED fixed = 1 A

1 LED flashing = 0.5 A

Frequency = 40 Hz



BLUE status led

LED 1 fixed = 30 Hz

Subsequent LEDs fixed = 5 Hz

8 ALARMS

RED status LED flashing  + GREEN LED flashing 



The LED that flashes (from 1 to 6) corresponding to the alarm number.

The example in the figure indicates ALARM 1

ALARM 1: DRY RUNNING: the inverter detects null flow and null pressure and therefore no water. Stops the pump for a time interval. Resetting is automatic. Manual setting is always possible.

ALARM 2: NO PARTIAL PRESSURE: the inverter does not reach the required pressure. The alarm does not block pump operation.

ALARM 3: not used

ALARM 4: NO TOTAL PRESSURE: the inverter detects operating pressure that is too low (possible broken tube) and stops the pump. Reset is in manual mode only.

ALARM 5: LOW VOLTAGE: the inverter detects voltage inbound under the minimum permitted threshold. It stops the pump until the voltage returns to exceed the minimum permitted threshold. Resetting is automatic.

ALARM 6: OFF SIGNAL FROM OUTSIDE: out of service from remote (input signal). The inverter was placed out of service from remote. Resetting only takes place from remote. Manual resetting is not possible with the ON key.

RED status LED flashing  + GREEN LED fixed 



The LED (from 1 to 7) lights up. Corresponding to the number of the alarm.

The example in the figure indicates ALARM 1

ALARM 1: OVERCURRENT NOT MANAGEABLE: short circuit or current peak detected in module or downstream of the module. A single attempt for automatic reset. Manual setting is always possible.

ALARM 2: OVERCURRENT: continuous overcurrent, with possible motor problem. The inverter stops the pump. Reset is in manual mode only.

ALARM 3: MODULE OVERTEMPERATURE: the inverter module is in protection from overcurrent (probably poor cooling due to no water in pump). Reset is automatic when the temperature goes under the threshold.

ALARM 4: not used

ALARM 5: PRESSURE READING ERROR: wrong or no pressure sensor signal. Reset is only automatic on current signal return.

ALARM 6: FLOW READING ERROR: wrong or no flow sensor signal. Reset is only automatic on current signal return.

ALARM 7: INTERNAL COMMUNICATION ERROR: communication error or generic errors on inverter signals. Reset is only automatic on current signal return.

9 TROUBLESHOOTING

- Check the inverter was correctly connected to the power line.
- Check the electric pump was correctly connected to the inverter.
- Check all the cables and connections are working.

PROBLEM	Status LED	No. GREEN LED	CAUSE	INTERVENTION
Dry running (DRY RUNNING)	 Flashing	 Flashing	No water intake, intake obstructed, fault on pressure sensor.	Run the relevant checks.
Pressure limit maximum (NO PARTIAL PRESSURE)	 Flashing	 Flashing	The pump cannot manage to provide the pressure requested, on closure).	Check the maximum pressure of the pump and correct the Pset.
Low working pressure (NO TOTAL PRESSURE)	 Flashing	 Flashing	The working pressure is lower than the minimum safety threshold.	Check there are no broken tubes, insert a valve that adjusts the flow.
Low voltage (LOW VOLTAGE)	 Flashing	 Flashing	The voltage reaches peaks under the minimum use voltage.	Power the inverter with the line separate, insert a voltage stabiliser.
OFF signal from outside (EXT OFF)	 Flashing	 Flashing	The inverter was placed out of service from remote.	Put back in service from remote.
Short circuit. (OVERCURRENT NOT MANAGEABLE)	 Flashing	 Fixed	Short circuit or current dispersion in section that goes from the module to the motor of the pump.	Check isolation of cable and motor. Try the inverter disconnected from the motor.
Overcurrent (OVERCURRENT)	 Flashing	 Fixed	Continuous overcurrent, with possible motor problem.	Check motor in direct operation.
Excessive module temperature	 Flashing	 Fixed	The module does not cool correctly or is damaged.	Check the water passes in the inverter.
Pressure signal not valid	 Flashing	 Fixed	Pressure signal wrong or missing.	Check/replace the pressure sensor.
Flow signal not valid.	 Flashing	 Fixed	Flow signal wrong or missing.	Check/replace the flow sensor.
The pump won't stop	—	—	The valve has remained open due to foreign body.	Extract the check valve: check/clean.
The pump starts and stops continuously	—	—	The expansion tank is deflated or damaged and does not keep the circuit pressurised.	Check the expansion tank.
The keypad won't switch on	—	—	The fuse has blown.	Replace the fuse.

10 RECORD

STEADYPRES does not require any type of routine maintenance if used within the use limitations and in compliance with the instructions outlined in this manual.

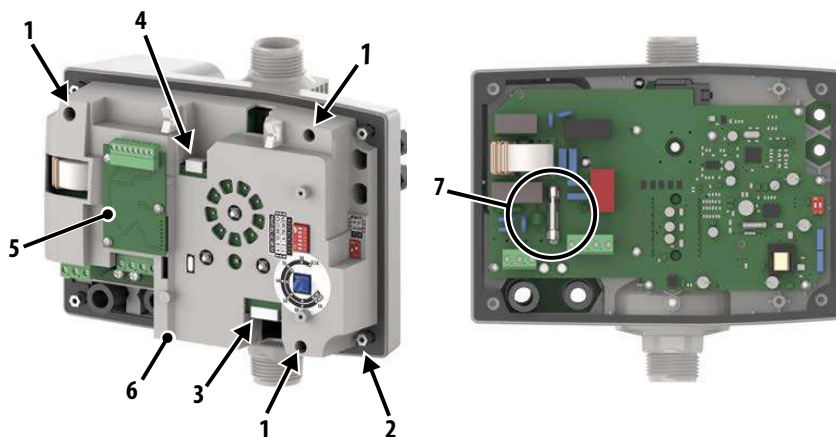
Only authorised service centres may carry out reactive maintenance or repairs.

Use only original spare parts for repairs. The manufacturer cannot be held in any way liable for damage to people, animals or property due to maintenance interventions carried out by unauthorised staff or using non-original materials.

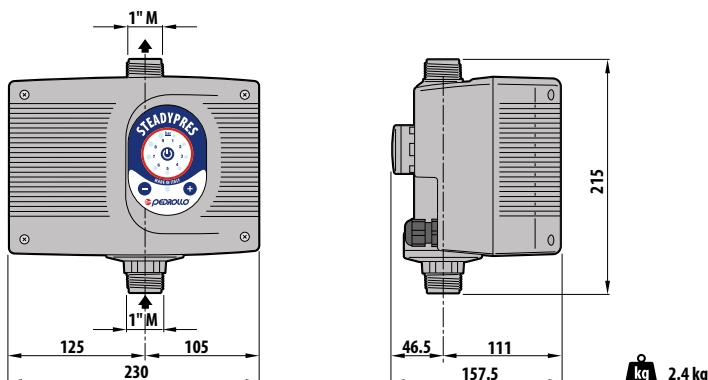
REPLACING THE FUSES

⚠️ Disconnect voltage to the inverter and wait 2 minutes to discharge the capacitors.

- Remove the front over.
- Unscrew and remove the three screws (1).
- Unscrew and remove the four spacers (2).
- Disconnect the connectors (3) and (4).
- If present, remove the expansion board (5).
- Remove the internal cover (6).
- Replace the fuse (7) with one the same capacity (16 A).
- Re-assemble everything correctly following the operations in reverse order



11 DIMENSIONS



12 DISPOSAL

For disposal of the parts composing the STEADYPRES comply with the standards and legislation in force in the country in which the unit is used. Do not dispose of polluting parts in the environment.



Correct disposal of WEEE (DIRECTIVE 2012/19/EU)

13 DECLARATION OF CONFORMITY.

We hereby declare, under our sole responsibility, that this product complies with the provisions of the following EU Directives, including the latest amendments, and with the relevant national transposing legislation:

2014/35/EU Low Voltage Directive

2011/65/EU Hazardous substances in electronic equipment (RoHS)

2012/19/EU and 2003/108/EEC Hazardous substances in electronic equipment (RoHS)

2014/30/EU Electromagnetic Compatibility Directive (EMC)

UK legislation: **2016 No. 1101, 2012 No. 3032, 2016 No. 1091**

San Bonifacio, 16/01/2023

Pedrollo S.p.A.

The President

Silvano Pedrollo

Advantages of having an anti vibration mat

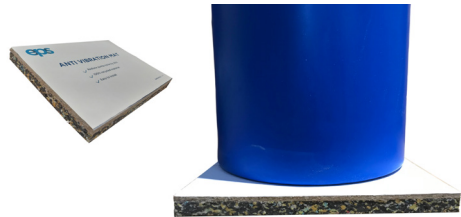
The anti vibration mat is an additional aid available to installers & homeowners, who may have concerns over dB or vibration levels.

Please note, when a pump is submerged in liquid, you are no longer dealing with decibel levels, but vibration levels, so the positioning of your Multiboost is vitally important.

The subsequent vibration levels will vary depending on the amount of space surrounding the unit and the type of material it is placed on. The use of insulation jackets will help to reduce vibration noise.

Key Features

- › Improvement of impact sound - $\Delta L_w = 18\text{dB}$
- › Reduce dB/vibration levels
- › Easy to install
- › Simple processing - cutting, drilling
- › Various sizes available for each model



Anti-Vibration Mat

Stock Code	Model	Height	Length	Width
1081718	Slimline 200/300/350/440L	40mm	600mm	600mm
1081719	Utility 250/450/750L	40mm	800mm	800mm
1081720	Rectangular 300/355L Snug/500L	40mm	1100mm	600mm
1081721	Rectangular 200/270/345L	40mm	1600mm	600mm
1081722	Rectangular 455/650/1000L	40mm	1800mm	600mm

Multiboost must be mounted on a solid foundation to support the weight of the unit.

Surfaces must be flat and level to spread weight load evenly. The ideal and recommended base for Multiboost is a concrete plinth.

Insulation Jackets

Advantages of using an insulation jacket

EPS has created a number of insulation jackets for extra peace of mind.

These jackets are available in various sizes to suit our Multiboost range of tanks.

This can help assist water from freezing and will also reduce the operating dB level of the unit.

We highly recommend using these insulated jackets.

Key Features

- › Various sizes available for each model
- › Reduce dB/vibration levels
- › Easy to install
- › Simple process for installers
- › Extra protection for extreme weather conditions



Insulation Jackets

Rectangular

Stock Code	Model
1070487	270L
1092704	300L
1092705	345L
1082653	455L
1092706	500L

Vertical

Stock Code	Model
1081648	200L
1081650	250L
1081649	350L
1081651	450L
1081652	750L



ASSIST TANKS

The Multiboost's water storage capacity options range from 125L to 1000L but by simply adding an additional assist tank, water storage capacity can be increased.



Compact & Snug

Stock Code	Model	Height	Length	Width	Weight
1019647	125L tank only	767mm	560mm	490mm	18kg
1239220	355L tank only	700mm	1200mm	590mm	18kg



Slimline

Stock Code	Model	Height	Height	Length	Width	Weight	Weight
		No Cover	incl. Cover			No Cover	incl. Cover
1012940	200L tank only (incl. removable cover)	-	1190mm	N/A	584mm	-	12.5kg
1081639	200L tank only	1028mm	-	N/A	584mm	10kg	-
1238847	210L tank only (corner)	-	920mm	570mm	512mm	21kg	-
1005122	350L tank only (incl. removable cover)	-	1656mm	N/A	584mm	-	16kg
1031870	350L tank only	1496mm	-	N/A	584mm	13.5kg	-
1200467	440L tank only (incl. removable cover)	-	2017mm	N/A	584mm	-	21kg
1238284	440L tank only	1855mm	-	N/A	584mm	18.5kg	-



Utility

Stock Code	Model	Height	Height	Length	Width	Weight	Weight
		No Cover	incl. Cover			No Cover	incl. Cover
1005121	250L tank only (incl. removable cover)	-	1033mm	N/A	760mm	-	15kg
1194596	250L tank only	920mm	-	N/A	760mm	12kg	-
1005123	450L tank only (incl. removable cover)	-	1393mm	N/A	760mm	-	21kg
1033475	450L tank only	1280mm	-	N/A	760mm	18kg	-
1028894	650L tank only	1083mm	-	1083mm	669mm	-	36kg
1005124	750L tank only (incl. removable cover)	-	2113mm	N/A	760mm	-	33kg
1238283	750L tank only	2000mm	-	N/A	760mm	30kg	-
1005125	1000L tank only	1444mm	-	1688mm	563mm	50kg	-



Rectangular

Stock Code	Model	Height	Length	Width	Weight
1036383	200L tank only	540mm	1106mm	475mm	13kg
1021215	270L tank only	521mm	1571mm	475mm	17kg
1081638	345L tank only	750mm	1571mm	475mm	20kg
1070475	455L tank only	616mm	1765mm	580mm	23.3kg



Rectangular

Stock Code	Model	Height	Length	Width	Weight
1016971	300L tank only	710mm	1045mm	665mm	16kg
1016972	500L tank only	800mm	1190mm	727mm	24kg

Tank Capacities

200L SLIMLINE		350L SLIMLINE		440L SLIMLINE		250L UTILITY	
							
HEIGHT:	1140mm	HEIGHT:	1520mm	HEIGHT:	1855mm	HEIGHT:	930mm
WIDTH:	584mm	WIDTH:	584mm	WIDTH:	584mm	WIDTH:	760mm
BRIMFUL CAPACITY:	226 L	BRIMFUL CAPACITY:	360 L	BRIMFUL CAPACITY:	447 L	BRIMFUL CAPACITY:	307 L
OPERATING CAPACITY:	200 L	OPERATING CAPACITY:	350 L	OPERATING CAPACITY:	440 L	OPERATING CAPACITY:	250 L
450L UTILITY		750L UTILITY		650L UTILITY		200L RECTANGULAR	
							
HEIGHT:	1300mm	HEIGHT:	2030mm	LENGTH:	1083mm	LENGTH:	1106mm
WIDTH:	760mm	WIDTH:	760mm	HEIGHT:	1083mm	HEIGHT:	540mm
BRIMFUL CAPACITY:	463 L	BRIMFUL CAPACITY:	772 L	WIDTH:	669mm	WIDTH:	475mm
OPERATING CAPACITY:	450 L	OPERATING CAPACITY:	750 L	BRIMFUL CAPACITY:	670 L	BRIMFUL CAPACITY:	225 L
				OPERATING CAPACITY:	650 L	OPERATING CAPACITY:	200 L
270L RECTANGULAR		345L RECTANGULAR		455L RECTANGULAR		300L RECTANGULAR	
							
LENGTH:	1571mm	LENGTH:	1571mm	LENGTH:	1765mm	LENGTH:	1045mm
HEIGHT:	521mm	HEIGHT:	750mm	HEIGHT:	616mm	HEIGHT:	710mm
WIDTH:	475mm	WIDTH:	475mm	WIDTH:	580mm	WIDTH:	665mm
BRIMFUL CAPACITY:	308 L	BRIMFUL CAPACITY:	380 L	BRIMFUL CAPACITY:	533 L	BRIMFUL CAPACITY:	337 L
OPERATING CAPACITY:	270 L	OPERATING CAPACITY:	345 L	OPERATING CAPACITY:	455 L	OPERATING CAPACITY:	300 L
500L RECTANGULAR		1000L UTILITY		210L CORNER		355L SNUG	
							
LENGTH:	1190mm	LENGTH:	1650mm	LENGTH:	570mm	LENGTH:	1200mm
HEIGHT:	720mm	HEIGHT:	1444mm	HEIGHT:	1090mm	HEIGHT:	875mm
WIDTH:	727mm	WIDTH:	563mm	WIDTH:	512mm	WIDTH:	590mm
BRIMFUL CAPACITY:	575 L	BRIMFUL CAPACITY:	1033 L	BRIMFUL CAPACITY:	215 L	BRIMFUL CAPACITY:	360 L
OPERATING CAPACITY:	500 L	OPERATING CAPACITY:	1000 L	OPERATING CAPACITY:	210 L	OPERATING CAPACITY:	355 L

Note: Images are for illustration purposes only. Volumes of tank may vary slightly depending on seasonal temperature during the manufacturing process. Positioning of ballcock and overflow can increase/decrease working capacities. Drip trays, installation jackets and anti-vibration mats available for all models.



EasyPress
119S841



Presflo Multi
100S165



SteadyPres
123S230



Top Multi 2
103S2994



NKM 2/4 G-E
100S139



SCAN to view
the brochure



Components



Pedrollo Top Multi 2

- › Flow rate up to 80L/min
- › Head pressure up to 4.2 bar
- › Float switch protection
- › Max liquid temperature 40°C
- › Power consumption 0.55kW
- › **Product Code:** 1001902 (c/w Float)
- › **Product Code:** 1032994 (no Float)



Pedrollo NKM 2/4 GE-N Pump

- › Flow rate up to 80L/min
- › Head pressure up to 6 bar
- › Float switch protection
- › Power consumption 0.75kW
- › **Product Code:** 1001539



Steadypress

- › electronic frequency converter (inverter);
- › integrated pressure and flow sensors;
- › user interface with keypad and LED indicators for intuitive parameter reading;
- › integrated and inspectable non-return valve;
- › rear threaded connection to equip the system with a small expansion tank.
- › **Product Code:** 1235230



Easypress

- › Circuit board
- › Pressure Gauge
- › Integrated micro-accumulation enables operation even without an expansion tank, though the use of a 1SF tank is recommended.
- › **Product Code:** 1195841



Presflo Multi

- › Pressure Gauge
- › Integrated 1-litre expansion tank useful in case of leaks to protect against water hammer;
- › option to adjust the restart pressure from 1 bar to 5 bar;
- › capability to set the maximum current up to 16 A
- › **Product Code:** 1005165



Multiboost Splash Tray: 200L, 350L, 440L vertical

- › Height: 200mm
- › Width: 760mm
- › **Product Code:** 1092511



Presflo Surge Tank

- › 2ltr vessel
- › 3/4" connection
- › 10 bar working pressure
- › Wras approved product
- › **Product Code:** 1033556



Presflo Multi - SF Tank

- › Maximum operating pressure up to 10 bar
- › Liquid temperature up to +40 °C
- › Shell: technopolymer
- › Connection: technopolymer
- › Membrane: butyl
- › **Product Code:** 1238127



Multiboost Splash Tray: 250L, 450L, 750L vertical

- › Height: 300mm
- › Width: 870mm
- › **Product Code:** 1094603



Wall Bracket Support

- › Adjustable arm length
- › 1" connection
- › **Product Code:** 1004953



Ball Cock

- › Ball cock 8" arm (BS1212)
- › Size 1/2"
- › **Product Code arm:** 1195546
- › **Product Code ball:** 1195547



Ball Cock High Pressure

- › Ball cock 9" arm (BC1001)
- › Size 1/2"
- › **Product Code arm:** 1100211
- › **Product Code ball:** 1105344

1/2" BALLCOCK INFORMATION

CODE	SIZE	TAIL	ARM	JET	LPM@3 BAR
BS1212 BRASS	1/2"	2"	8"		
BC1001 BRASS	1/2"	2"	9"	3.2mm (High Pressure)	9.7