

Subject: FW: PP3259-3-DOM - The Elms - Cold Water Booster Set.

Date: Thursday, August 4, 2011 14:43

From: Mak Makwana <mak@kut.co.uk>

To: charmaine.charmaine@alanpowerarchitects.co.uk

Conversation: PP3259-3-DOM - The Elms - Cold Water Booster Set.

Subject

Charmaine,

Below is an email from Pumpac Ltd confirming the noise data for the Booster Set. I also attached quote/ pump details for your use.

Please note that the Fill & Store has no booster pump, it is for cold water storage only, hence no noise from this unit.

The only other plant noise will be from the Boiler, waiting for Lochinvar to get back to me, hope to forward you soon.

Regards

Mak

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From: Reian Jones [mailto:rj@pumpac.co.uk]

Sent: 04 August 2011 14:18

To: Mak Makwana

Subject: PP3259-3-DOM - The Elms - Cold Water Booster Set.

Dear Mak,

RE: PP3259-3-DOM - The Elms - Cold Water Booster Set.

Further to our recent conversation, I can confirm that the noise level of each pump within the Domopac unit is 52dB.

Should you have any queries then please don't hesitate to give me a call.

Thanks again.

Kind regards,

Reian Jones
Pumpac Ltd
T 01239 621308
M 07971235103
F 01239 614942 W www.pumpac.co.uk

Domopac - Domestic Booster

THE SOLUTION FOR DOMESTIC LOW WATER PRESSURE PROBLEMS

- QUIET – COMPACT - RELIABLE
- EASY TO INSTALL
- SIMPLE TO OPERATE
- COST EFFECTIVE
- VARIABLE SPEED ENERGY EFFICIENT PUMP
- FULLY INSULATED 270/540 LITRE STORAGE OPTIONS
- SINGLE/TWIN PUMP OPTIONS
- CATEGORY 5 FLUID PROTECTION

The Pumpac Domopac domestic cold water booster set with integral break tank is designed for use in domestic and commercial applications where the existing mains supply is inadequate. The Domopac is unique in combining the recognized industry standard of energy efficient variable speed pump control with contemporary design. This means the unit offers excellent performance whilst being aesthetically appropriate for installation within a domestic environment. As with all Pumpac products the build and materials are of high quality making the unit suitable for use in more commercial situations e.g. commercial kitchens, bin stores or plant rooms.

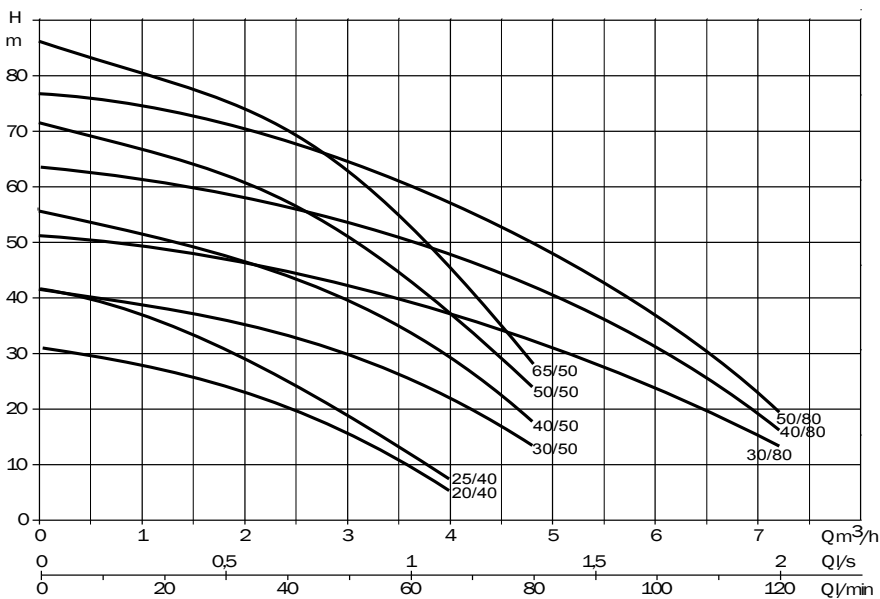
The unit uses a submersible pump which has enabled our designers to maximize storage capacity whilst minimizing overall dimensions. Installation is particularly straight forward with the connections to both incoming and outgoing mains being accessed from the top. All plumbing passes through the top of the tank eliminating any risk of leakage and making all components of the Domopac accessible by removal of the top panel only.

The Domopac is suitable for most domestic applications with selection from a wide range of pumps. Where greater storage is required, the Domopac Duo twin tank unit can be used, this provides the option to use a second duty pump or a standby pump as a backup.

All Domopac units are designed to meet the requirements of The Water Regulations, all materials in contact with water are WRAS Approved and a Type AB Air-gap is a no-cost option making it a very viable solution where Category 5 fluid protection is required.



Pump Performance Curves & Motor Data

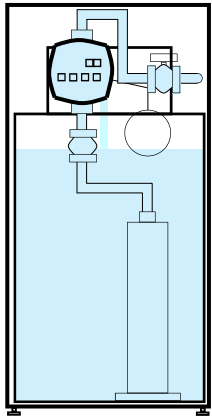


Pump Model	Power (KW)	FLC (Amps)	1/3 Phase	Capacitor μ F
20/40	0.37	2.8	1	12
25/40	0.55	3.5	1	12
30/50	0.55	4.4	1	20
40/50	0.75	5.2	1	20
50/50	1.0	6.5	1	25
65/50	1.2	7.8	1	30
30/80	0.75	5.2	1	20
40/80	1.0	6.5	1	25
50/80	1.2	7.8	1	30

Domopac - Domestic Booster

Description of Operation

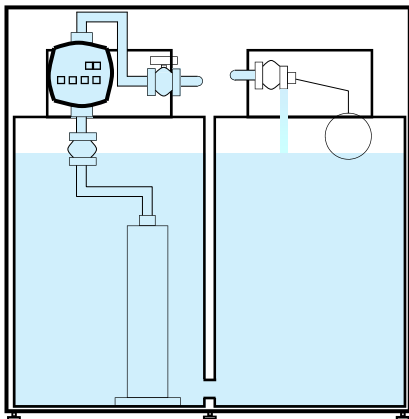
When boosting the pressure on a mains water supply it is necessary to pump from a break tank with an appropriate air-gap between the inlet and the top water level within the tank in order to meet the requirements of The Water Regulations. The Domopac combines the break tank and the booster pump all within one compact unit. A submersible pump is installed inside the insulated tank to keep the unit as compact and quiet as possible, the pump generating no more noise than the average fridge when operating. A water-cooled inverter monitors the system pressure via a pressure transducer and starts and stops the pump gradually, speeding it up as required to meet the demand. As the pump discharges the water level in the tank drops and the mains water supply recharges the tank via a ball float valve. This energy efficient form of control ensures smooth operation and eliminates water hammer within the plumbing system.



The Domopac

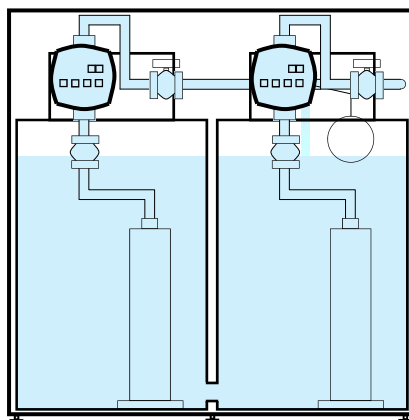
The Domopac is ideally suited to supply an average sized single

dwelling with two bathrooms, but where the tank recharge rate is low or the demand is high, such as in a larger house with multiple bathrooms, the Domopac Duo can be used. This has two interconnected tanks doubling the storage capacity. It also provides an option to use a second pump, either to supplement the first pump or to back it up.



The Domopac Duo – Single

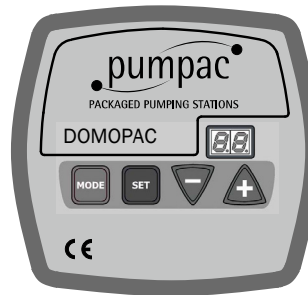
In most domestic situations space is at a premium and although a Duo may be required, sufficient space may not be available to install the larger unit. In this case two single units can be supplied with the tanks plumbed together regardless of how far apart they are, this gives exactly the same capability as the Domopac Duo.



The Domopac Duo – Twin Pump

E: sales@pumpac.co.uk W: www.pumpac.co.uk

Pump Controls



A clear and simple control panel displays the system pressure, pump speed, power output and operating status. It allows the user to adjust the system pressure with a simple key press and provides fault information. The controls will monitor for lack of water, a poor power supply, overheating and motor overload, it will stop the pump and indicate the cause should a fault occur.

Installation

The Domopac and Domopac Duo are simple to install. The unit should be installed on a level floor, adjustable feet are provided to ensure stability. The mains water supply coming into the building is cut and diverted to the unit where it connects to the inlet float valve. A return pipe is then installed to connect the unit outlet to the downstream side of the cut main. Power is taken from a standard 16 Amp socket with local RCD protection. The plumbing connections and all components of the system are readily accessible by removing the top cover, space is provided within the unit to make the connections.

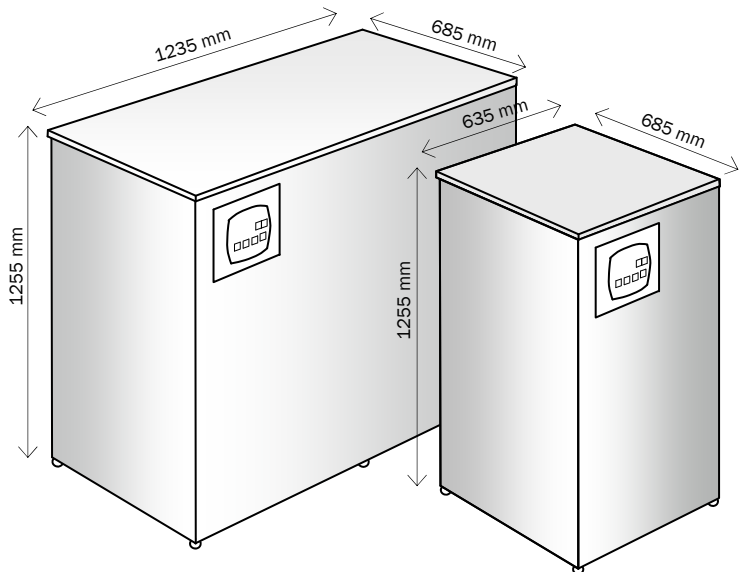


Table of Materials

Tank	High Density Polypropylene
Pump	304 Stainless Steel
Pipework & Valves	uPVC
Pressure Vessel	Steel with butyl membrane
Housing	304 Stainless Steel

Operating Conditions

Liquid Temperature Range	3 to 40 deg C
Ambient Temperature	Up to 40 deg C
Relative Humidity	Up to 95%
Maximum Operating Pressure	8.5 Bar

Service Connections

Mains Inlet	1/2", 3/4" & 1" BSP female
Domopac Outlet	32mm Solvent weld female
Tank Connection for additional Domopac	2" BSP male
Overflow	22mm Solvent weld male
Power Supply	5m 3 core 1.5mm ² flex