



Installation & Technical Guide

Domestic & Commercial

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SECTION 1

- 1A - This Manual
- 1B - Principle of the ACM mains booster pump
- 1C - Advantages of the pump
- 1D - Copyright

SECTION 2

- 2A - Plumbing Symbols
- 2B - Typical systems, Do's and don'ts

SECTION 3

- 3A - ACM details

SECTION 4

- 4A - Regulations
- 4B - Scale
- 4C - Location of the ACM
- 4D - Incoming Mains
- 4E - Pump Pressure Setting

Section 1

1A – This Manual

This manual has been supplied to cover the installation of the DAB ACM mains booster pump.

Manual is intended for –

- The plumber/installation engineer
- The electrical engineer
- The home owner/end user

1B – Principle of the ACM mains booster pump

The DAB ACM mains booster pump reacts when the water mains pressure is below the pump pre-set value. The result is higher pressure to the buildings water supply up to 4.5bar.

A full-bore bypass can be fitted to enable use during pump maintenance.

Fitting the ACM pump will enhance the water performance to unvented hot water cylinders, combination boilers, electric showers and mixer showers.

Water authorities restrict the amount of water permitted to be pumped from the water main to 12 litres/minute. The AC pump falls with these limits.

1C - Advantages of the system

Flow rates to hot and cold water taps, showers, baths and services are increased up to a maximum of 12 litres/minute.

Stable pressure due to the digital variable speed pump design with minimal drop in flow when more than one tap is opened.

Silent operation

Pressure and flow from small bore pipes is increased.









1D – Copyright

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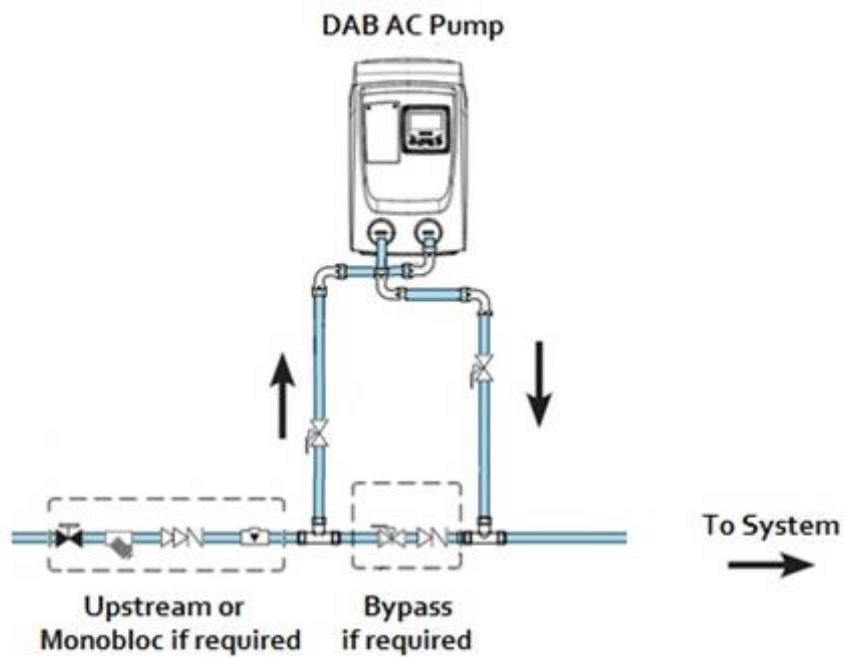
Section 2

2A - Plumbing Symbols

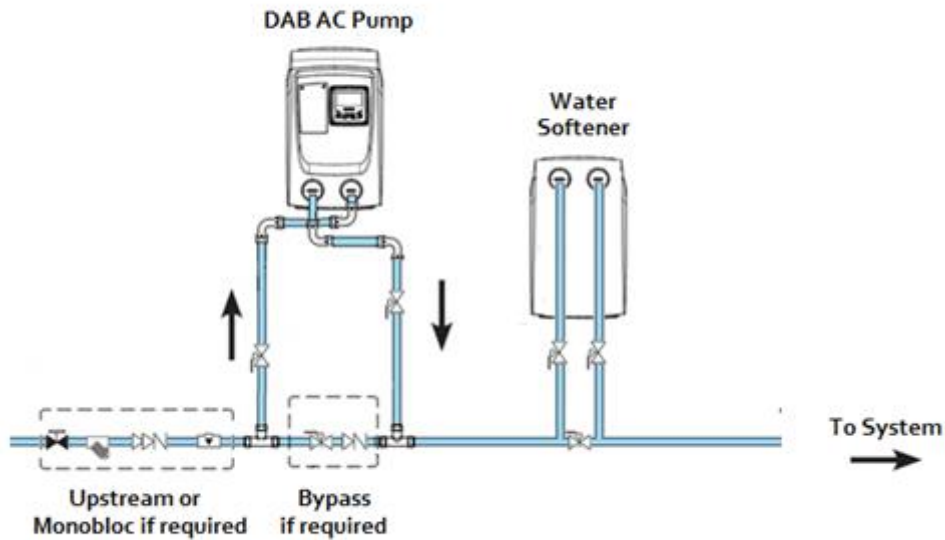
-  Stop Cock
-  Y Strainer
-  Double Check Valve
-  Level Ball Valve
-  Pressure Reducing Valve
-  Single Check Valve

2B - Typical System, Do's and Don'ts

Without water softener



With water softener



Do's -

- Install the ACM directly on the mains supply
- Fit flexible hoses on the inlet and outlet
- Only 1 ACM can be fitted per mains supply
- Ensure the installation complies with IET wiring regulations
- Ensure the pump is protected from frost
- Its good practice to install full bore isolating valves on the inlet and outlet pipe work

Don'ts

- Never fit the pump to communal risers
- Never fit the pump after a water softener
- Never fit to hot water piping
- Never fit in a damp environment
-

Section 3

The DAB ACM mains booster pump reacts when the water mains pressure is below the pump pre-set value. The result is higher pressure to the buildings water supply up to 4.5bar.

The charger pump increases water pressure to a maximum of 4.5bar, **adjustable via the LCD display**.

The pump is floor mounted

The unit is WRAS approved and silent running due to inverter control.

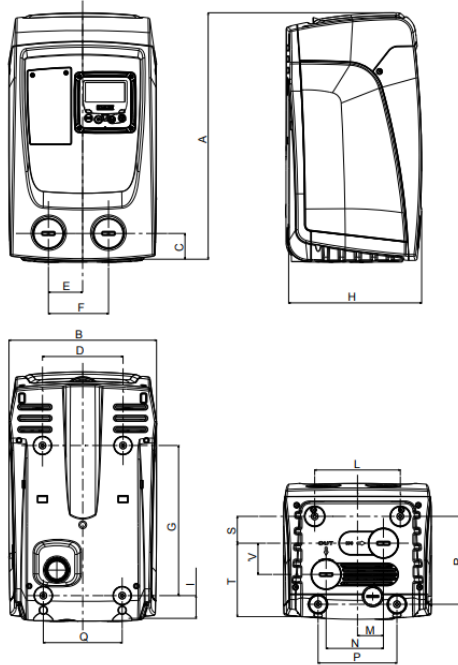
Direct mains water connection is allowed with this unit.



Details –

- 3 Year warranty
 - Digital Display with pressure adjustment
 - Boost mains water pressure by 4.5bar
 - Compatible with all makes of accumulator and boiler
 - Floor mounted
 - Quiet water-cooled motor
 - Variable speed design
-

Dimensions –



A	B	C	D	E	F	G	H	I	L	M	N	P	Q	R	S	T	V	DNA	DNM	PACK DIMENSIONS			GROSS Kg
																				L/A	L/B	H	
439	263	46	143	60,7	106,7	279,5	236	40,5	152	46	101,7	140	140	155,5	47,8	133	54,5	1"	1"	300	500	320	14,6

Section 4

4A - Regulations

Always give consideration to any current regulation and guidance covering the installation of pressurised water system in domestic and commercial applications.

To include –

WRAS (water regulations advisory scheme)

BS6700

BS EN806

HSE

Building Regulations

IEE wiring regulations

4B - Scale

When the water supply is hard, suitable scale protection should be installed.

Water softeners or Water conditioners can be used to control scale. When planning the installation of a water softener to following should be considered –

The softener should be connected after the pump

Pipe work in out and should be full bore

Installation of a softener bypass kit

Drinking water supply should be taken off prior to the softener

4C - Location of ACM mains booster pump

The DAB ACM pump works on a sealed pressurised system connected direct to the mains water supply.

The pump is normally located early in the buildings plumbing, before any connections or points of use.

When deciding on the location consider the following points –

The floor must be able to withstand the weight of the pump

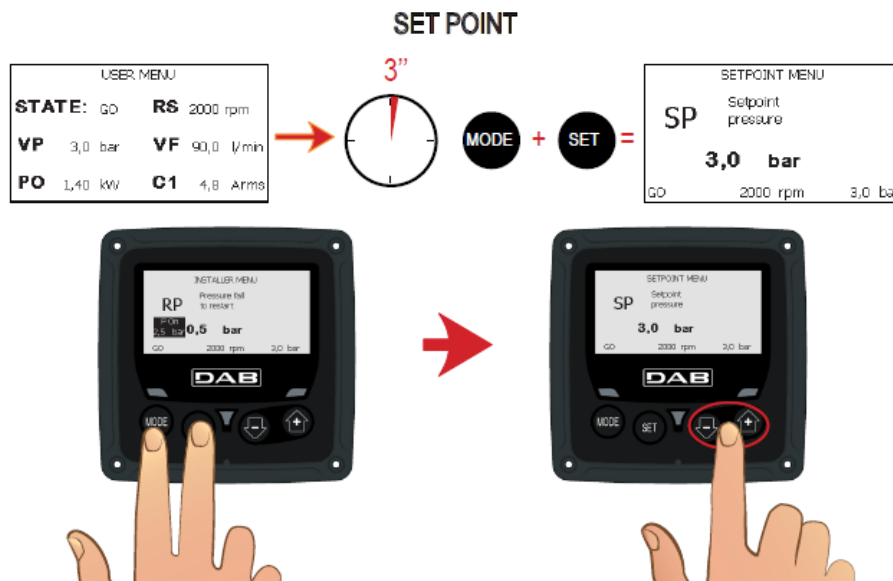
Isolation valve to be installed to enable supply to and from the pump to be shut off

4D - Incoming Mains

The incoming mains should be fitted with an upstream kit, Monobloc upstream kit or a double check valve.

4E - ACM Pump Pressure Setting

The ACM pressure setting can be adjusted via the digital display up to 4.5bar.





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