

Installation & Maintenance Instructions



VA - VB

A - B

VD - VS



DECLARATION OF CONFORMITY

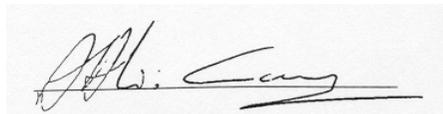
VA 35/130	VA 55/130	VA 35/130	VA 55/130	VA 65/130	VS 8/150
VA 35/180	VA 55/180	VA 35/180	VA 55/180	VA 65/180	VS 16/150
VB 35/120	VB 55/120	VB 35/120	VB 55/120	VA 65/120	VS 35/150
	VD 55/220.32		VD 65/220.32		VS 65/150

The Company DAB PUMPS s.p.a.-Via M.Polo.14
-Mestrino (PD) -ITALY -declares under its own
responsibility that the above-mentioned products
comply with:

-Directive on electromagnetic compatibility no. 89/336
and subsequent modifications.

-Directive on low voltage no. 73/23 and
subsequent modifications .

Mestrino (PD). 07 Gennaio 1998

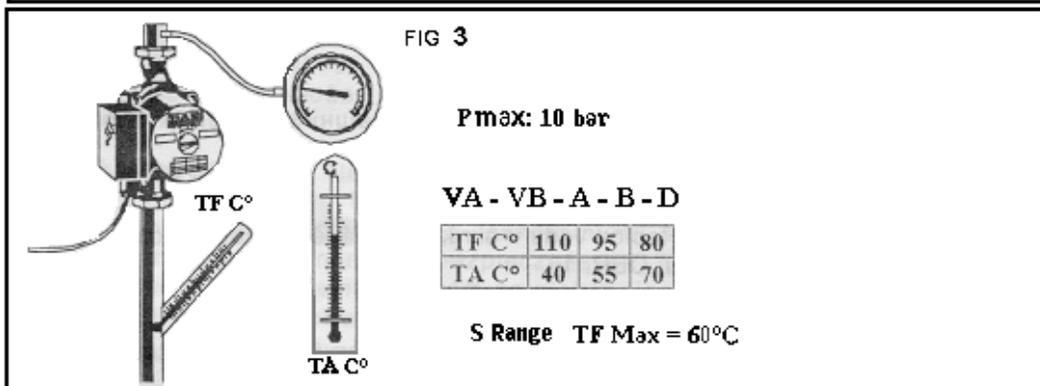
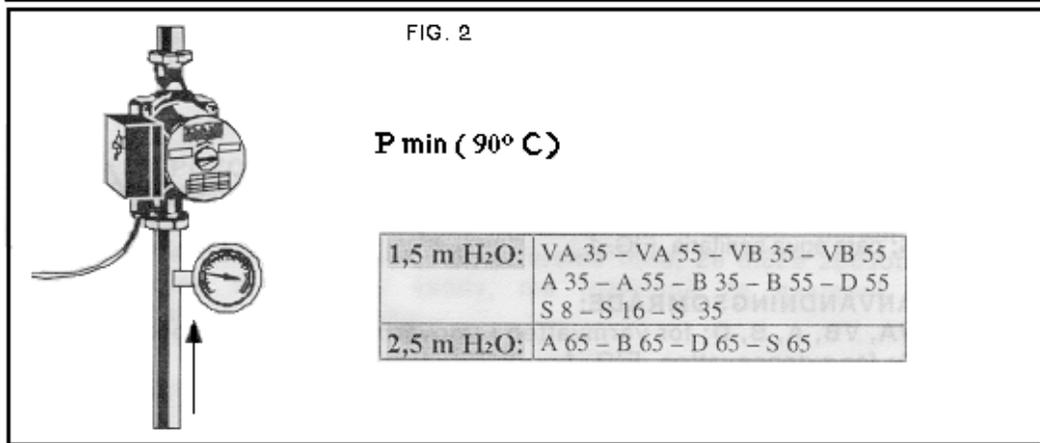
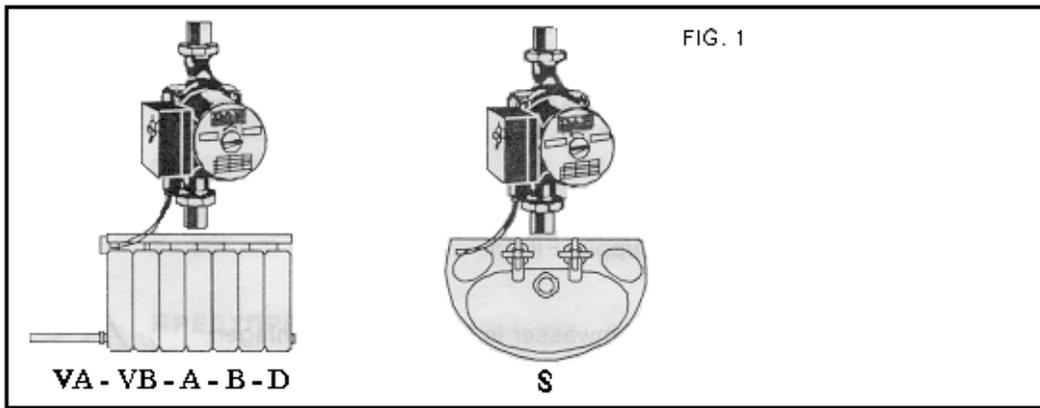


Attilo Conca

Legal Representative

WARNINGS:

Installation , electrical connection and setting up of the pump must be carried out by skilled personnel in compliance with the general and local safety regulations in force. Failure to abide by these instructions invalidates every right to the guarantee, as well as endangering persons and equipment.

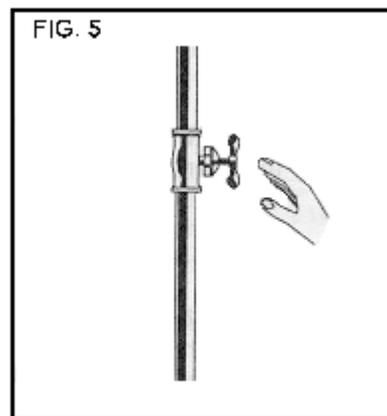
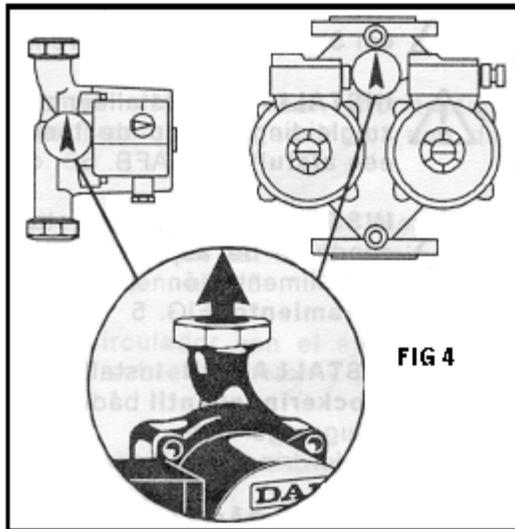


APPLICATIONS:

VA , VB , A , B , D ; for hot water in domestic heating systems. .
S; for domestic water supply

INSTALLATION :

On the delivery pipe or the return pipe. The arrow stamped on the pump body indicates the direction of flow.FIG. 4

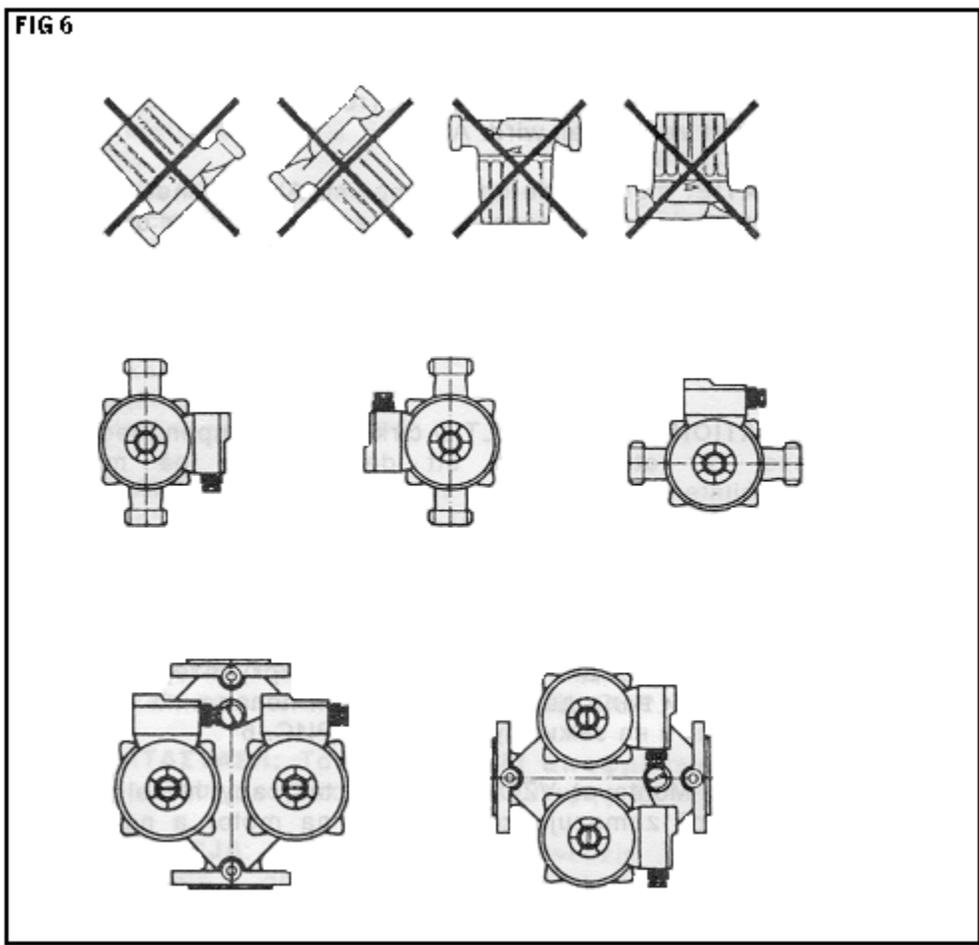


Install an isolation valve on both the intake pipe and delivery pipe.FIG. 5

Always fit the circulator with the motor shaft in a horizontal position, avoiding the dripping of water onto the motor and onto the terminal board.FIG. 6

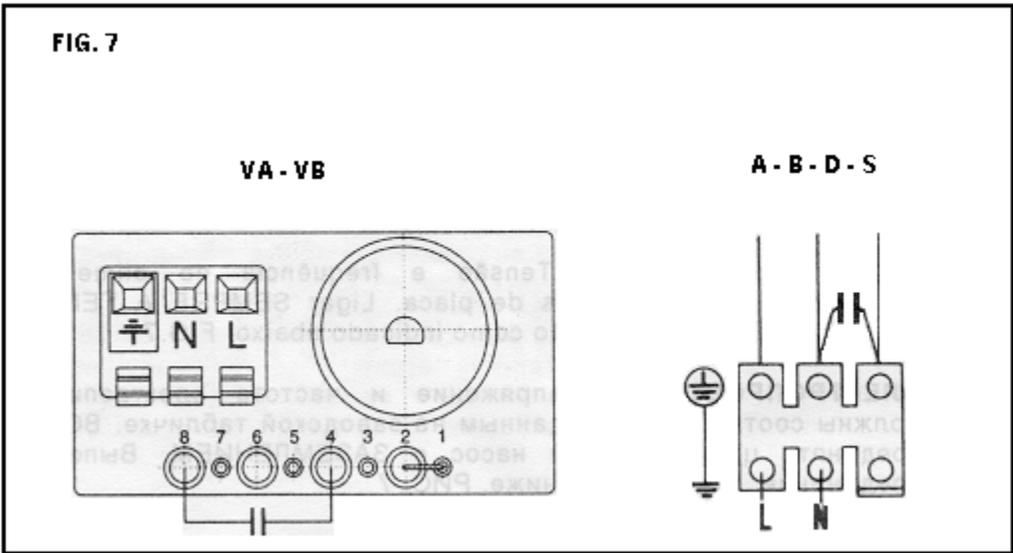
Avoid mixing hydrocarbon-derived additives and aromatic products with the circulating water.
Antifreeze Max :30%

Provide an anti-scale system in domestic water circulating units where the water hardness TH is higher than 15jF

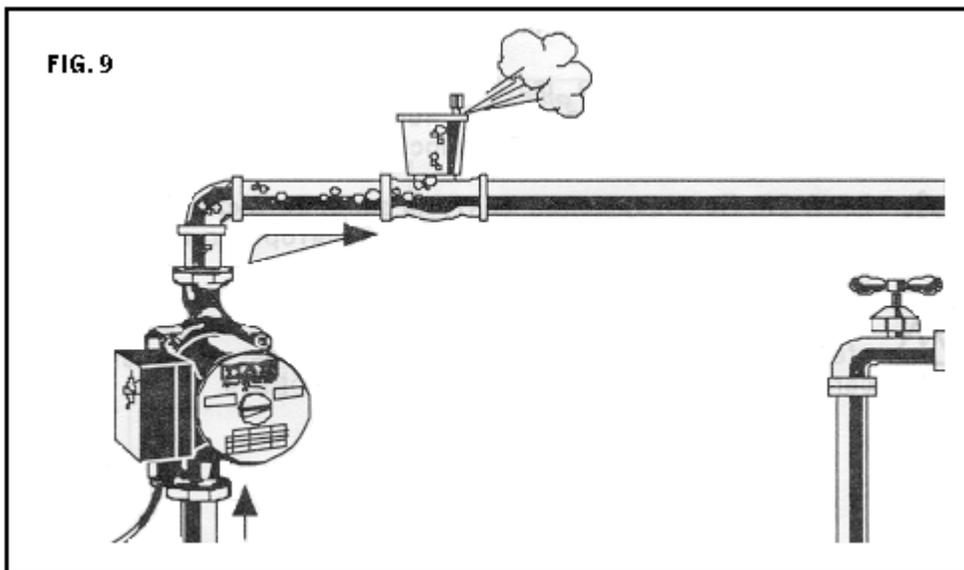
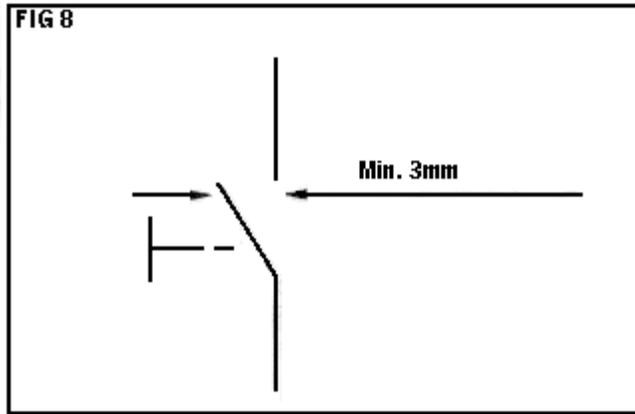


ELECTRICAL CONNECTION :

Supply voltage and frequency must be the same as shown on the data plate. The circulator must ALWAYS BE CONNECTED TO EARTH. Make the connection as indicated below.
 FIG. 7



Fit a two-pole switch with a contact distance of at least 3mm. No overload protection is required. Use rubber cables HO5RR-F 3x0.75mmFIG. 8

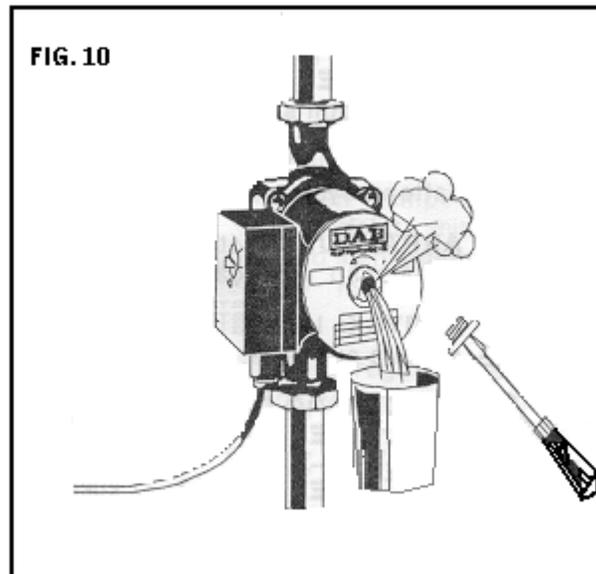


STARTING UP :

After installation ,fill and bleed the system before running the circulator. Start the circulator at top speed.FIG. 9

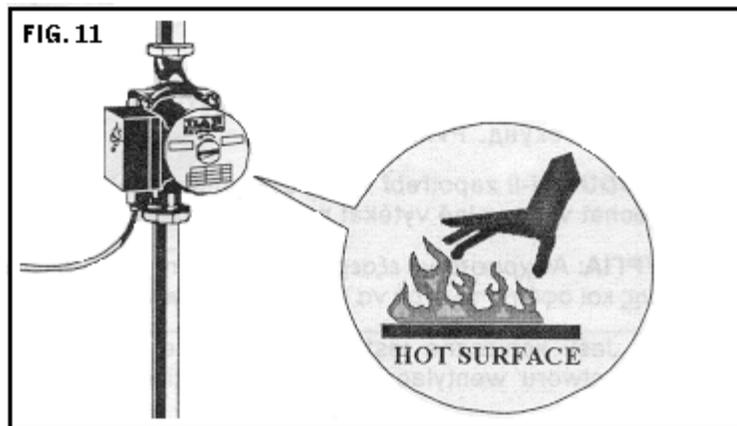
If it is necessary to bleed air from the motor, slowly slacken the breather cap and let the fluid out for a few seconds.

FIG. 10



Avoid running the circulator when there is no water in the system.
TAKE CARE, DANGER OF SCALDS.

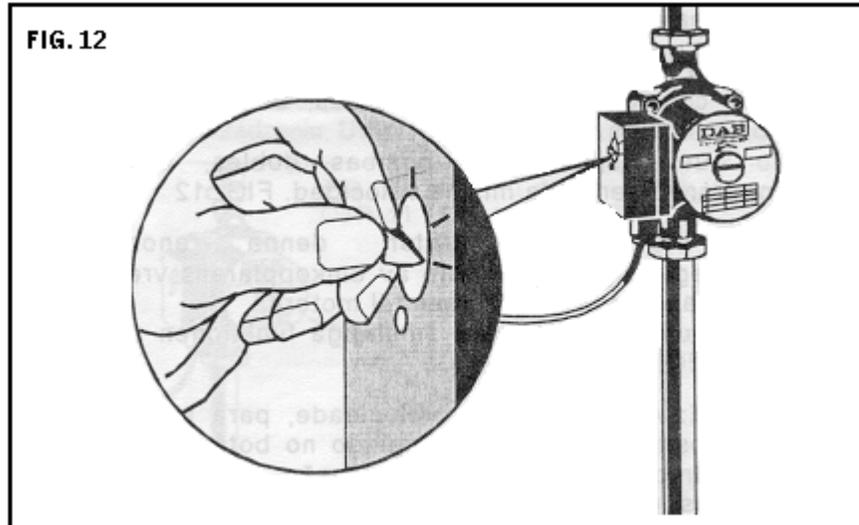
FIG. 11



Speed adjustment, on pumps provided with the necessary device, is accomplished by turning the three position switch, even when the motor is live.

In twin pumps, simultaneous operation must be at the same speed.

FIG. 12

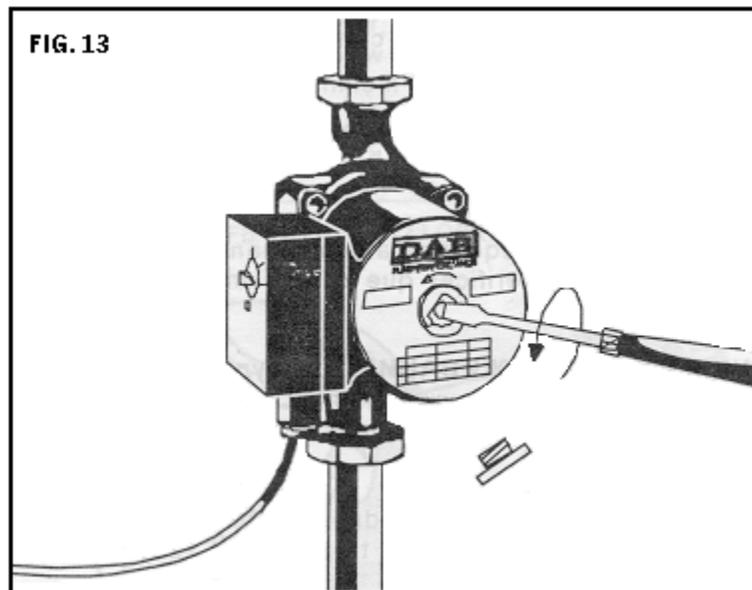


MAINTENANCE :

The circulator does not require any maintenance.

At the start of the winter season, ensure that the motor shaft is not blocked.

FIG. 13



TROUBLESHOOTING		
FAULTS	POSSIBLE CAUSES	REMEDIES
The pump does not start	No supply voltage. Incorrect supply voltage. Faulty capacitor (single phase motors). Rotor is blocked by deposits on the rotor.	Check the electric connections and fuses. Check the data on the plate and apply the correct voltage. Change the capacitor. Select the maximum speed and/or free with a screwdriver.
The system is noisy	Flow rate too high. Air in the system.	Select a lower speed. Bleed the system.
The pump is noisy	Air in the pump. Intake pressure too low.	Bleed the pump. Increase the intake pressure.
The pump starts and then stops after a short time	Dirt or scale between the rotor and the stator lining or between the impeller and pump body.	Check the shaft is turning freely. Remove any dirt and/or scale.