PROSOLAR

Manual pompă circulație apă potabilă



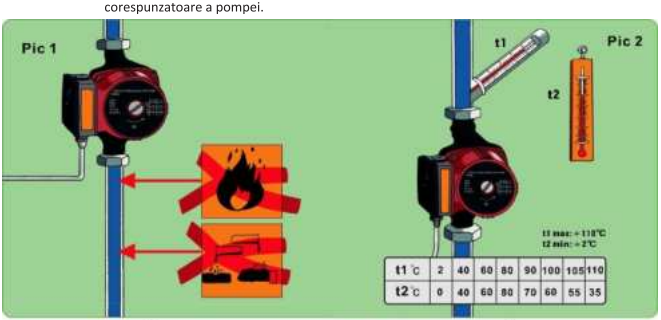
Citiți cu atenție acest manual
înainte de utilizarea pompei

© Trivas Grup SRL. Toate drepturile rezervate


TRIVAS
open for innovation and development

Atentie!! Aceasta pompa va fi folosita exclusiv pentru circulatia apei potabile.

1. **Conditii de operare**
   - Lagarul pompei se lubrefiaza cu apa. Operarea fara apa nu trebuie sa dureze mai mult de 10 sec.
   - Temperatura mediului ambiant nu trebuie sa fie mai mica de +2^{0}C. Exista pericol de inghet.
   - Corelatia dintre temperatura fluidului de lucru si temperatura ambianta este in tabelul de mai jos. Odata cu cresterea temperaturii fluidului de lucru peste o anumita valoare, temperatura ambientala trebuie sa fie mai scazuta pentru a se asigura o racire corespunzatoare a pompei.

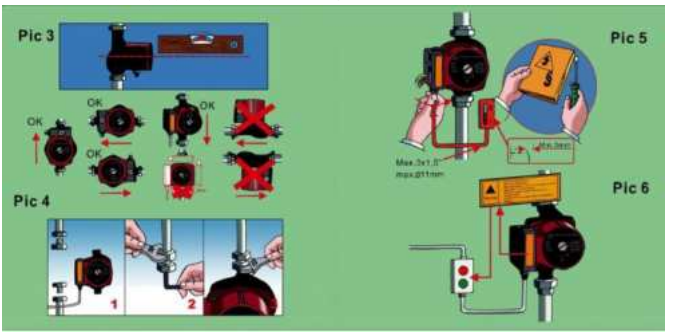


2. **Instructiuni de instalare**

   - Pompa trebuie instalata cu axul de rotatie orizontal, fig 3.
   - Se recomanda a se monta robineti de separatie inainte si dupa pompa pentru a putea fi demontata usor.
   - Flansele pentru cuplarea pompei pot fi montate in orice pozitie atat timp cat se respecta orizontalitatea axului, fig 4.
   - Se va evita montarea pompei avand cutia de borne in partea de jos a pompei. Exista pericol de scurgere a apei la aerisirea pompei si pericol de electrocutare. Daca se impune montarea flanselor cu sensul de sus in jos, atunci se demonteaza statorul pompei (cele 4 suruburi) si rotirea lui astfel incat cutia de borne sa fie in pozitiile recomandate.
   - Instalarea electrica trebuie efectuata de personal specializat conform regulamentelor si normelor in vigoare. Este necesar sa cititi si sa respectati instructiunile din manual si de pe placa de borne. Pe alimentarea electrica a pompei se va prevedea o siguranta electrica de 2 A cu distanta intre contacte de min 3 mm.

© Trivas Grup SRL. Toate drepturile rezervate

- Dupa instalare pompa trebuie amorsata inainte de prima folosire, fig 7.
- Dupa instalare pompa trebuie aerisita. Acest lucru este necesar pentru a se evacua aerul din camera rotorului iar apa trebuie sa ajunga sa unga si sa raceasca lagarul din spatele rotorului.
- Atunci cand aerisiti pompa, scoateti pompa din priza sau opriti comutatorul de alimentare.
- Toate aceste operatii trebuiesc facute de personal calificat si sunt obligatorii pentru buna functionare a pompei si pentru a beneficia de garantie.



3. **Intretinere si remediere.**
   - Daca se deterioreaza cablul electric de alimentare, acesta trebuie inlocuit de personal calificat pentru a se evita accidentele. Procedeul de inlocuire este aratat in fig 8.
   - Inainte de pornire, dupa o stationare indelungata, se va debloca rotorul, fig 7.



© Trivas Grup SRL. Toate drepturile rezervate

Tabel cu defectiuni si remedieri.

Pompa nu porneste	Cablul de alimentare nu este conectat	Verificati cablul, sigurantele tabloului electric pentru posibile intreruperi.
	Condensatorul electric este defect.	Se inlocuieste condensatorul.
	Pompa blocata mecanic.	Porniti pompa la viteza maxima pentru scurt timp sau desurubati surubul din capul pompei si invartiti rotorul cu o surubelnita.
	Pompa are impuritati.	Demontati pompa si curatati.
Zgomot in instalatie.	Debitul pompei este prea mare	Adaptati debitul pompei
	Aer in instalatie.	Aerisiti instalatia
Zgomot in pompa	Aer in pompa.	Aerisiti pompa.
	Presiune hidrostatica mica.	Ridicati presiunea hidrostatica.

Date tehnica pompe
PRO SOLAR

Model	PS 15 / 4 - 130	PS 15 / 6 - 130	PS 25 / 4 - 130	PS 25 / 4 - 180	PS 25 / 6 - 130	PS 25 / 6 - 180
Fluid de circulatie	Apa potabila					
Temperatura Fluid	-10^{0}C -- +110^{0}C					
Presiune maxima lucru	10 bar					
Temperatura ambient	max 40^{0}C					
Alimentare electrica	230 V / 50 Hz					
Protectie	IP 44					
Clasa izolatie	F					
Materiale corp	fonta					
Turbina	PP					
Lagar	Ceramica					
Ax	Ceramica					
Pozitie montare	Axul pompei orizontal					
Viteza rotatie	3 viteze - control manual					
Distanta intre flanse	130 mm	130 mm	130 mm	180 mm	130 mm	180 mm
Putere	72/53/38 W	93/67/46 W	72/53/38 W	72/53/38 W	93/67/46 W	93/67/46 W
Debit	39/29/18 L/min	48/35/21 L/min	49/35/21 L/min	57/39/21 L/min	55/38/22 L/min	69/48/26 L/min
Inaltime pompare	4,5 / 4 / 3 mca	6 / 5 / 3 mca	4,5 / 4 / 3 mca	4,5 / 4 / 3 mca	6 / 5 / 3 mca	6 / 5 / 3 mca
Dimensiune racord	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Greutate	2,2 kg	2.3 Kg	2,3 Kg	2,4 Kg	2,4 Kg	2,5 Kg
HS-Code	84136010					
Marca	PROSOLAR					
Standard	CE					

© Trivas Grup SRL. Toate drepturile rezervate

PROSOLAR este un alt model de pompa de circulatie la care producatorul a combinat mecanica unei carcase sigure si rezistente, cu atributele de inalta clasa ale unui motor electric performant. Acest model de pompa este dotat cu 3 trepte de viteza prestabilite, care se vor seta in functie de parametrii instalatiei. Conectarea la reteaua de alimentare cu energie electrica se face prin cablu cu stecher, posibilitatea de montare in instalatie cu filet de 1 “, 1 ½”, 2”. Fabricata in diferite versiuni de putere si racord, PROSOLAR se adreseaza aplicatiilor din domeniul alimentarii cu apa potabila. PROSOLAR este o pompa fiabila care nu necesita intretinere, cu un nivel scazut de zgomot si durata de functionare lunga.

NOTA: Pompele PROSOLAR se livreaza cu racordurile semiolandeze cu cablu si stecher SHUKO fara costuri suplimentare.

Model	PS 25 / 7 - 130	PS 25 / 7 - 180	PS 32 / 4 - 180	PS 32 / 6 - 180	PS 32 / 8
Fluid de circulatie	Apa potabila				
Temperatura Fluid	-10^{0}C -- +110^{0}C				
Presiune maxima lucru	10 bar				
Temperatura ambient	max 40^{0}C				
Alimentare electrica	230 V / 50 Hz				
Protectie	IP 44				
Clasa izolatie	F				
Materiale corp	fonta				
Turbina	PP				
Lagar	Ceramica				
Ax	Ceramica				
Pozitie montare	Axul pompei orizontal				
Viteza rotatie	3 viteze - control manual				
Distanta intre flanse	130 mm	180 mm	180 mm	180 mm	180 mm
Putere	135/93/67 W	135/93/67 W	72/53/38 W	93/67/46 W	270/210/150 W
Debit	64/51/32 L/min	69/54/35L/min	66/44/22L/min	70/48/26L/min	160/103/43L/min
Inaltime pompare	7/6.5/4.5 mca	7/6.5/4.5 mca	4,5 / 4 / 3 mca	6/5/3 mca	8/7.5/6.5 mca
Dimensiune racord	1 1/2"	1 1/2"	2"	2"	2"
Greutate	2,8 Kg	2,9 Kg	2,5 kg	2.7 Kg	4.8 Kg
HS-Code	84136010				
Marca	PROSOLAR				
Standard	CE				



Va multumim pentru alegerea facuta si va invitam sa vizionati intreaga gama de produse oferita pe site-ul https://trivasgrup.ro/ .

© Trivas Grup SRL. Toate drepturile rezervate

PROSOLAR

Circulating pump user manual



Please read this manual carefully before using the circulating punp.

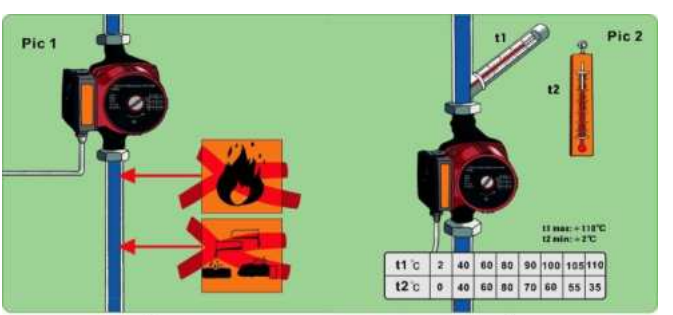
© Trivas Grup SRL. Toate drepturile rezervate


TRIVAS
open for innovation and development

CIRCULATING PUMP

1. Conditions of operation

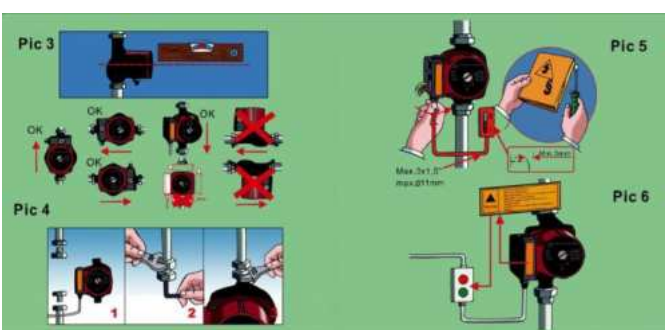
- Bearing of pump is lubricated with water without water can`t exceed 10 seconds. Shown as picture 1
- The temperature of environment must be lower than that of media. Shown as picture 2
- The correlation between the working fluid temperature and ambient temperature is provided in the table below. As the working fluid temperature increases beyond a certain value, the ambient temperature must be lower to ensure proper cooling of the pump.



© Trivas Grup SRL. Toate drepturile rezervate

2. Points for installation

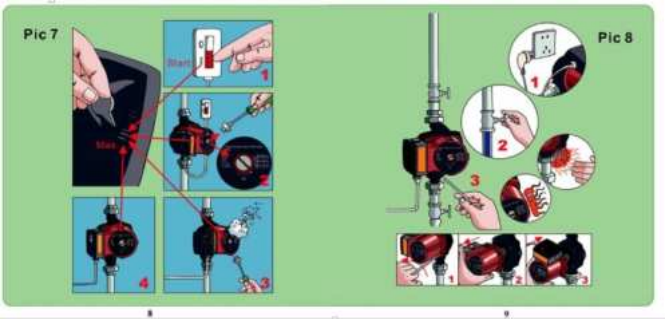
- Pump must be horizontally installed. Shown as picture 3.
- Pump must be installed according to following procedures, shown as picture 4.
- It is recommended to install separation valves both upstream and downstream of the pump for ease of disassembly.
- The installation of the pump with the terminal box at the bottom should be avoided. There is a risk of water leakage at the pump's vent and a risk of electric shock. If it is necessary to mount the flanges with the top side facing downward, the pump stator (the four screws) should be disassembled and rotated so that the terminal box is in the recommended positions.
- The electrical installation must be carried out by qualified personnel in accordance with current regulations and standards. It is necessary to read and comply with the instructions in the manual and on the terminal board. A 2A electrical fuse with a minimum contact spacing of 3mm should be provided for the pump power supply.
- After installed, pump must be deflated before working for the first time as shown in picture 7.
- After installation, the pump needs to be vented. This is necessary to evacuate air from the rotor chamber, allowing water to reach, lubricate, and cool the bearing behind the rotor.
- When venting the pump, disconnect it from the power source or turn off the power switch.
- All these operations must be carried out by qualified personnel and are mandatory for the proper functioning of the pump and to benefit from the warranty.



3. Maintenance and repair

- If damaged, the power cord must be exchanged by factory or specialised technician in order to avoid danger. The maintenance procedures are shown in picture 8.
- Before starting, after a prolonged shutdown, the rotor should be unlocked. Picture 7.

© Trivas Grup SRL. Toate drepturile rezervate



4. Common troubles diagnostic list

Common troubles	Causes of troubles	The measures of eliminating troubles
Pump can't be started up	Power supply is not well connected.	Check the fuse or the connection of electricity that possibly loose.
	Electric capacitor is damaged.	Exchange a new electric capacitor.
	Bearing blocked the pump's running.	Make it run in a high speed in short time or loose the rotor with a screwdriver at the end of shaft.
	There is impurity in pump.	Disconnect pump to clear.
There is noise in the system.	The pump flow is made too high.	Accept to a lower speed.
	There is gas in the pump.	Release the gas up.
There is noise in the pump.	There is gas in the pump.	Release the gas up.
	The inlet hydraulic pressure is too low.	Increase hydraulic pressure of inlet or check gas volume in the enlarged slot.

© Trivas Grup SRL. Toate drepturile rezervate

Producător/Importator:
SC TRIVAS GRUP SRL
Str.Mercur nr.49
Brăila România
www.trivasgrup.ro
tel.:0239 629 159
TRIVAS
open for innovation and development

CE

Unitate Service:
SC TRIVAS GRUP SRL
Str.Mercur nr.49
Brăila România
www.trivasgrup.ro
tel.:0239 629 159
TRIVAS
open for innovation and development