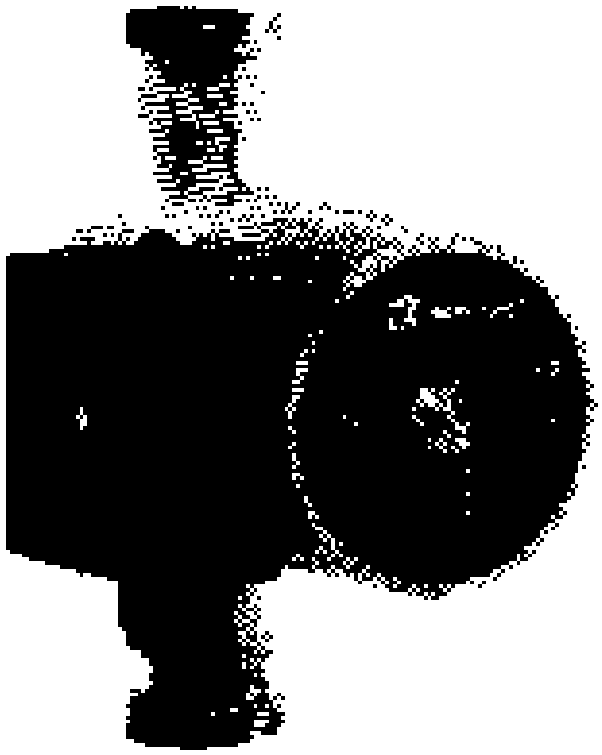
IMPPUMPS®



# GHN - /40, 60, 65
# GHND - /40
# SAN- /40, 60

(SLO) Tehnična navodila

(GB) Instruction for installation

(D) Installationsanleitung

(I) Istruzioni per l'installazione

(F) Instructions pour l'Installation

(CS) Tahnické návody

(GR) Οδηγίες Εγκατάστασης

(PL) Informacja Techniczna

(HR) Tehničke upute

(SRB) Техничка упутства

(MK) Техничка упатства

(RU) Технические инструкции

(LT) Naudojimo instrukcija

(RO) Instrucțiuni de instalare

(IR) دستور العمل نصب

## (GB) Fault Finding Chart

| Fault | Cause | Remedy |
|---|---|---|
| Pump fails to start | Suppy failure | Check fuses and possible loose electrical connections |
| | Pump blocked due to fured bearings | Change over tt maximum speed for a short period |
| | Impurities in the pump | Dismantle and clean the pump |
| Noise in the system | Pupm flow setting in too high | Change over to a lower speed |
| | Air in the system | Vent the system |
| Noise in the pump | Inlet pressure too low | Increase the inlet pressure or chack the air volume in the expansions tank (if installed) |

## SUPPLEMENT TO TECHNICAL INSTRUCTIONS FOR GHN,GHND AND SAN PUMPS

PUMP APPLICATION IN GENERAL

GHN and GHND pumps are designed for installing into hot water heating systems. SAN pumps are designed for sanitary water systems.The maximum system pressure is 1 Mpa (10 bar). The maximum pumped media temperature is 110°C and the minimum pumped media temperature is -10°C. The media pumped can be clean water or a mixture of clean water and antifreeze suitable for a central heating system.

The temperature of the environment in which the pump is installed can be at most 35°C and higher than the freezing point of the media pumped.

During operation the pump heats up or the pumped media heats up! It should not be touched - danger of burns.

The pumps should not be used for pumping fuel or explosive media or in an explosive atmosphere.

The permitted operating range for the pump is defined with diagrams in these instructions.

The pump has labyrinths in electromotor casting for draining of pump. If isolating the pump do not cover labyrinths – it can cause serious damage of pump.

GHND pumps have double hydraulic casting with build in non return flap that is turning by itself as for flow of medium. Double GHND pumps can work in three states:

1) Exchange working: Pumps are changing its work as working and reserve pump.
2) Reserve: One pump is constantly working as working pump and the other is constantly reserve pump.
3) Separate working: Pumps are working independently from each other. When both pumps are working at the same time, rpm must be the same at both pumps. If not, the non return flap will be closed at pump with less rpm.

ELECTRICAL SUPPLY

The pump is supplied by electricity (230 V, 50 Hz) and must be connected by suitable cable (cable equivalent to 3G 1mm$^2$, H05RR-F). Permanent installation must have an inbuilt device for separating both poles from the grid in which the gap between contacts in the open position is 3 mm.

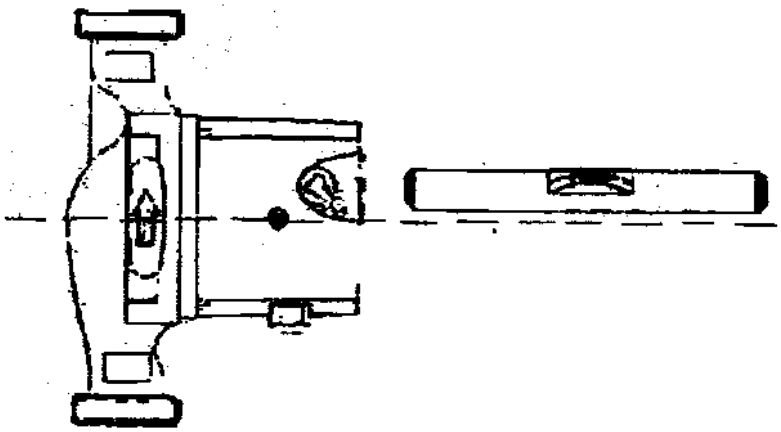
HIGHEST OPERATING TEMPERATURES:

| | | | | |
|---|---|---|---|---|
| Temperature of water in the system in °C: | 110 | 100 | 90 | 80 |
| Maximum temperature of pump surroundings in °C: | 35 | 50 | 60 | 70 |

SPEED SETTING

If the rooms cannot be sufficiently heated, the speed of the pump may be to low. In this case you will need to switch to a higher speed. If, on the other hand, the pump is set at too high a speed, flow noise may occur in the lines and in particular at throttled thermostatic valves. This can be rectified by switching to a low speed. The speed is changed by means of a rotary button at the terminal box: left for minimum and right for maximum speed.

1



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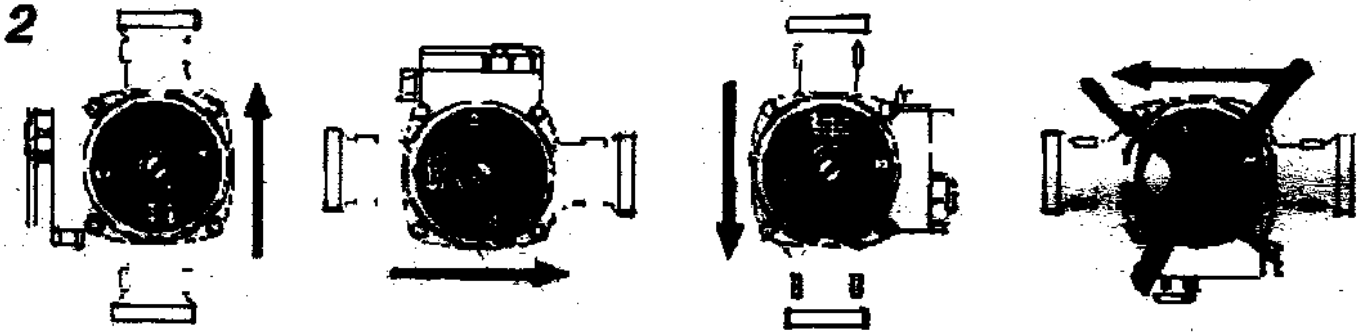

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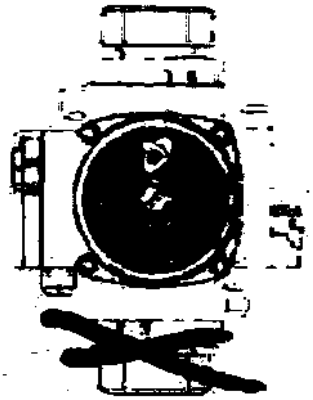

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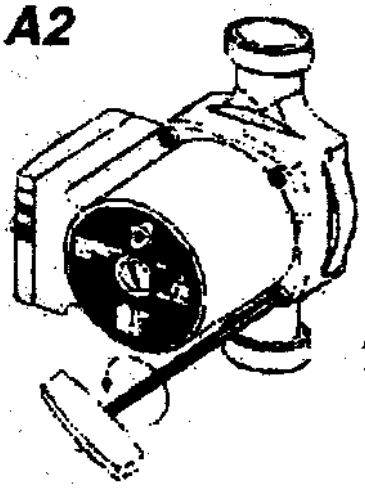

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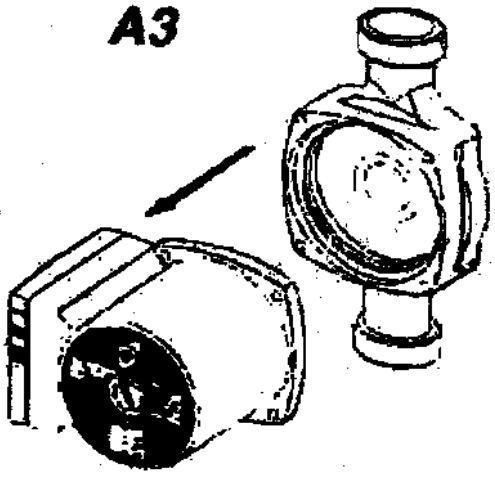

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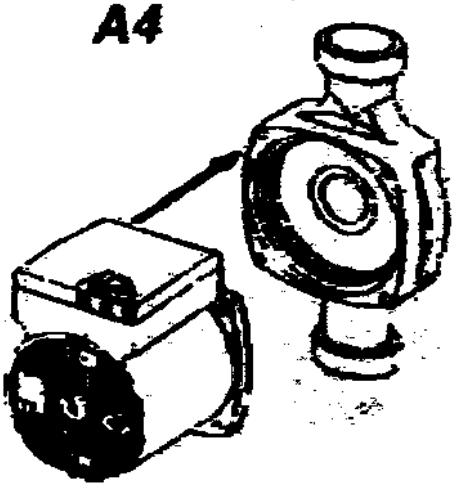

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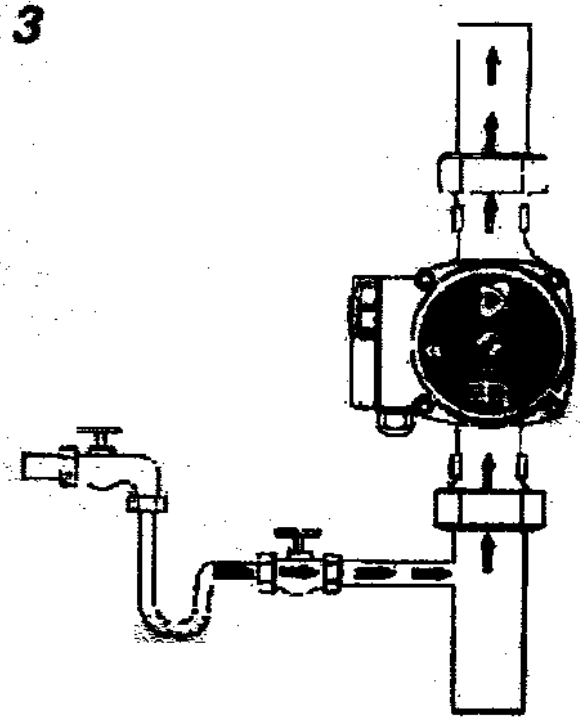

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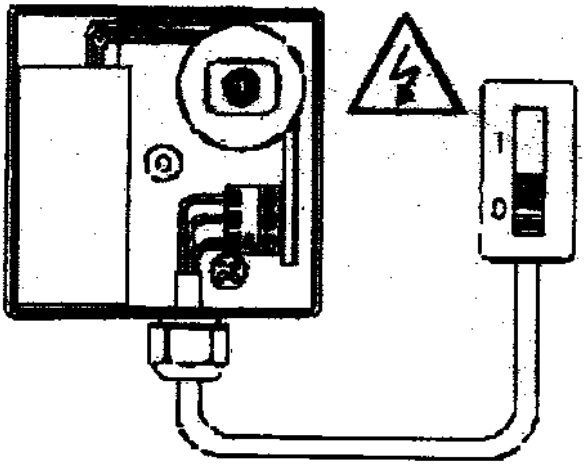

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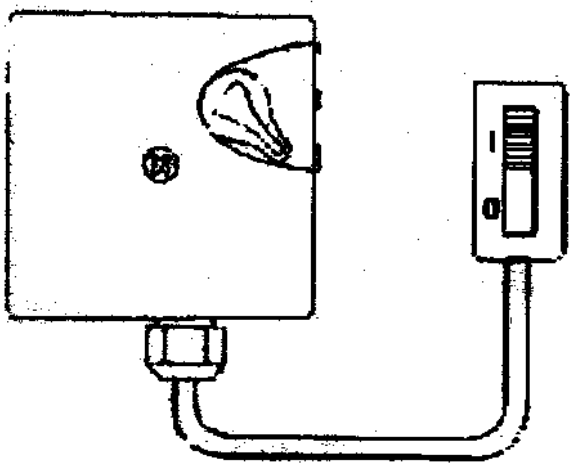

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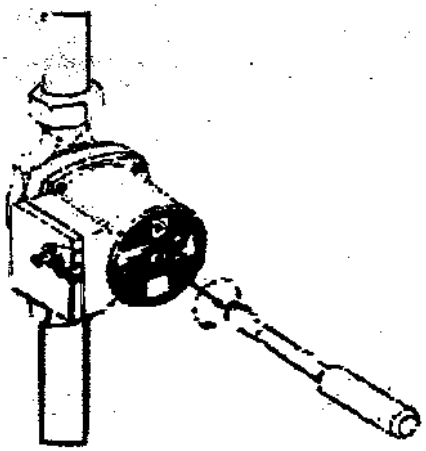

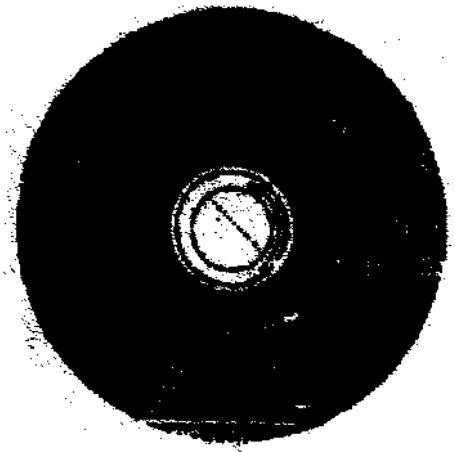

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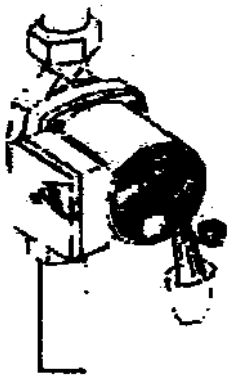

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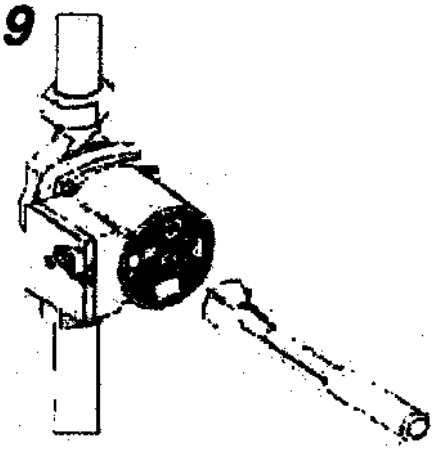
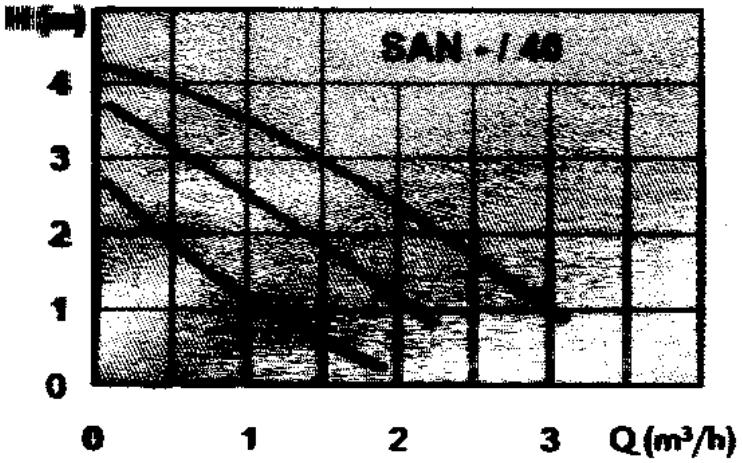
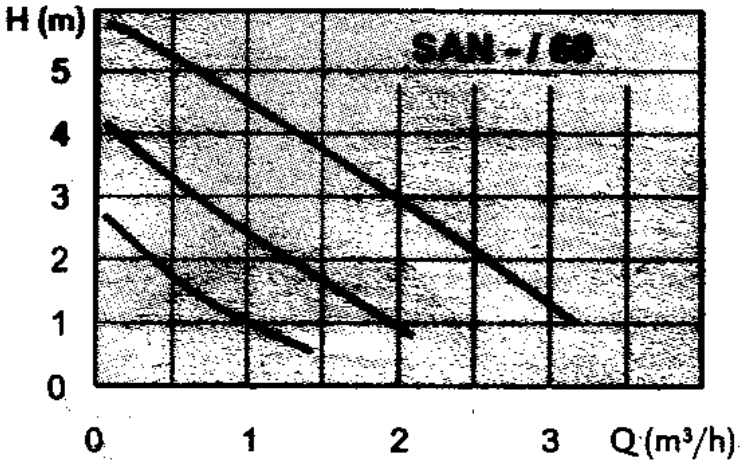
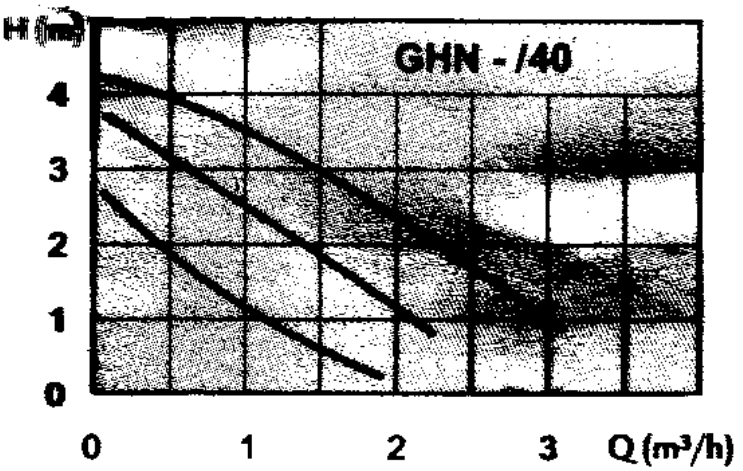


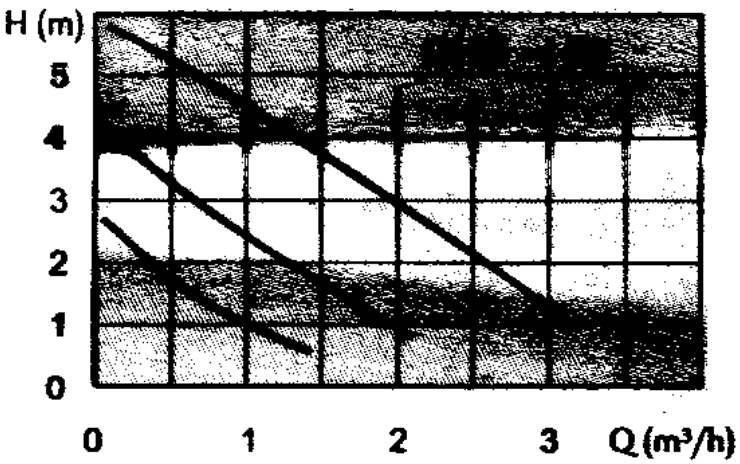
## Circulating pumps (bronze)

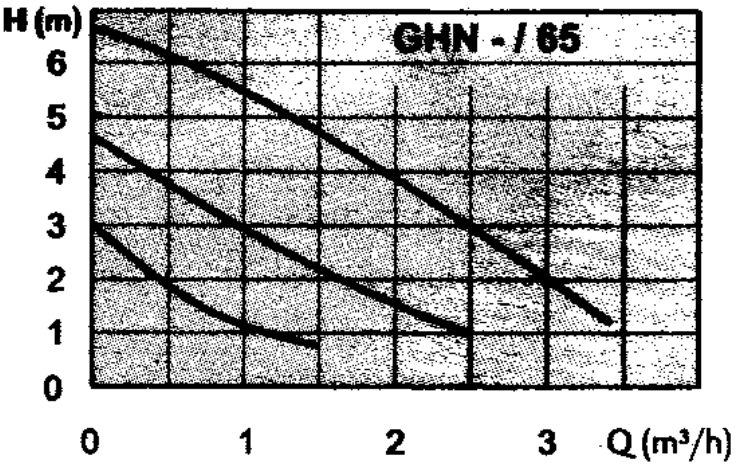



## Circulating pumps (cast iron)

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