



Intelligent pump control system for house and garden



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**Constant
pressure
in your
water supply**

The water-cooled HYDROVAR is a specific designed Frequency converter, for pumps, including all required features for small pumping systems. This unit is suitable for motors with a maximum nominal power of 0,75 kW and can be combined with several pump types for water supply from a well or a tank, service water applications or as a booster system for potable water.

Benefits:

- ◆ Compact and space-saving design
- ◆ Simple handling and operation
- ◆ Constant output pressure -
No more pressure fluctuations
- ◆ Soft start and stop of the pump -
Prevention of water hammer in the system
- ◆ Reduction of the noise of the pump/motor due to reduced speed
- ◆ Pump speed is in alignment with the actual water consumption and therefore only the required energy will be absorbed which is necessary for this demand => Energy savings!
- ◆ If no more water is needed, the pump stops immediately
- ◆ Pump protection for Overload and against Dry running already included in the drive
- ◆ Included pressure indication
- ◆ Due to the soft start of the pump, reduced sand filling in small volume wells

Technical Information:

- ◆ Unit has to be mounted in the pressurized piping after the pump
- ◆ Cooling of the Watercooled Hydrovar by the water flow trough the cooling body of the drive
- ◆ Pressure measurement and indication integrated in the drive (0-6 bar)
- ◆ Simple operation by using the 2 push buttons
- ◆ 1 unit for pumps with three phase motors 3x230 VAC with a nominal power range of 750 W or 500 W (programmable power reduction)
- ◆ Small pressure vessel required to shut off the pump at zero demand

Power supply:

1x 220-240 VAC +/- 15%

Output voltage to the motor:

3x U_{in} (Supply voltage) useable for standard 3~ motors (230/400 Vac) in Δ-configuration

Output power:

0,75 kW / 0,55 kW

Maximum nominal output current:

4,2 Amps (0,75 kW) / 3,2 Amps (0,55 kW)

Enclosure:

IP 55

Ambient temperature range:

0-50°C

Fluid temperature range:

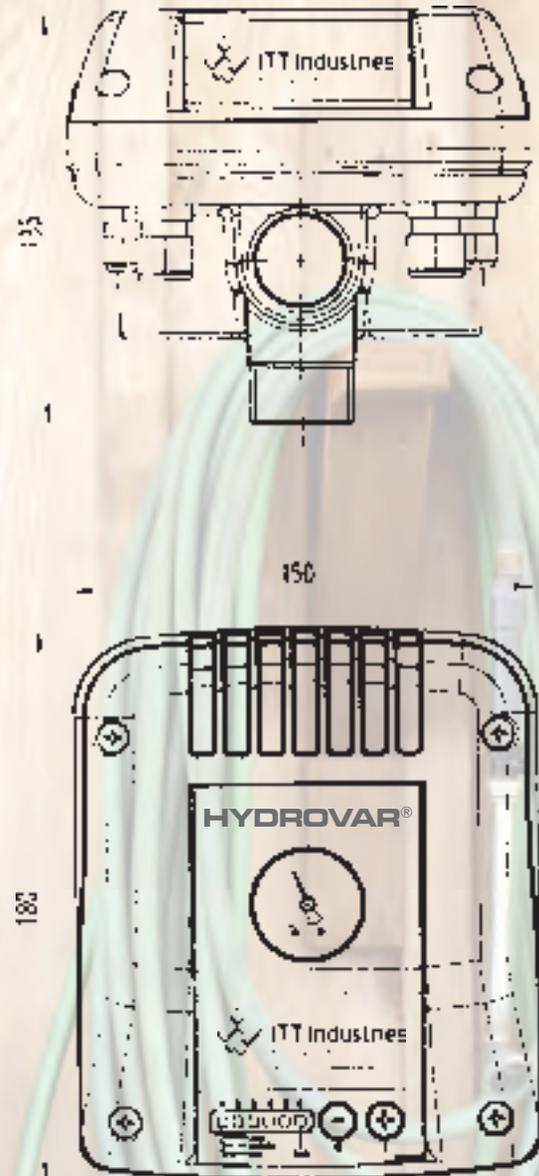
max. 40°C

Weight:

3,3 kg

Max. system / casing pressure:

10 bar



In the unit there are terminals for 2 digital control signals:

- ◆ **External release contact:**
Can be used for connection of an external dry run protection, incoming pressure switch, float switch or over pressure switch
Release contact from an external controller (irrigation system, timer,)
- ◆ **Terminals for an external PTC:**
Over temperature protection of the motor

Samples for Pressure Booster units

2 HMW 7-2:

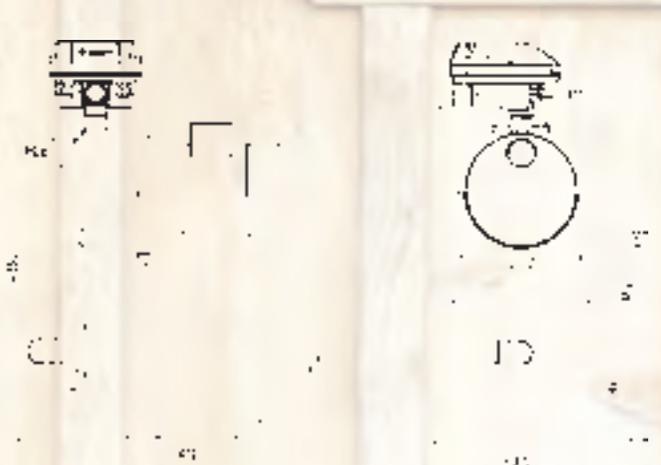
Ready to plug in system with horizontal multistage centrifugal pumps and 2 liter membrane tank

BGW 7-18:

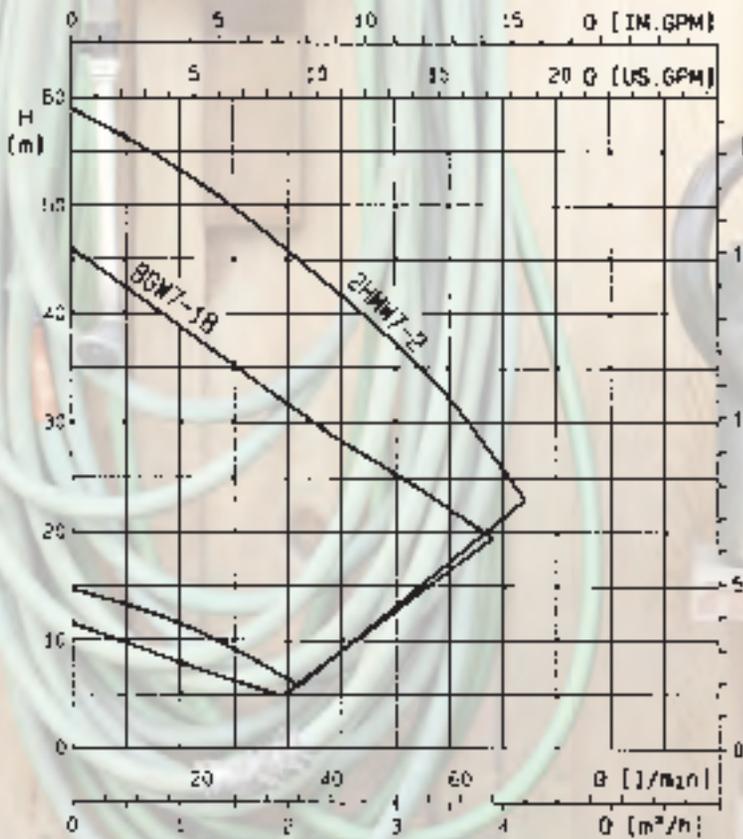
Ready to plug in system with self-priming centrifugal pump and 18 liter membrane tank, optimum system for suction applications



2 HMW 7-2



BGW 7-18



Or can be combined with any other similar pump type with a max. power of 0,75 kW.

Dealer