VOGEL PUMPEN

HYDROVAR®

# Intelligent pump control system for house and garden

ITT Industries
*Engineered for life*

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# Intelligent pump control system for house and garden

**Constant pressure in your water supply**

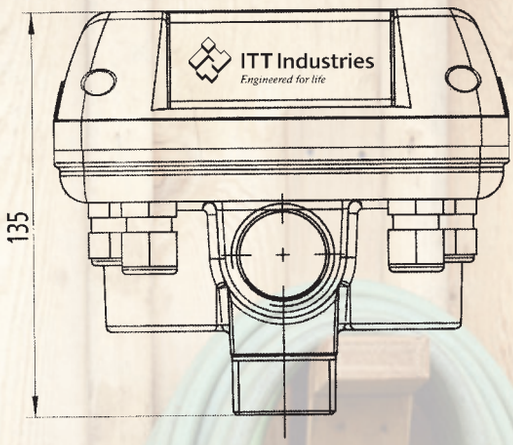
The water-cooled HYDROVAR is a specific designed Frequency converter, for pumps, including all required features for small pumping systems. This unit is suitable for motors with a maximum nominal power of 0,75 kW and can be combined with several pump types for water supply from a well or a tank, service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

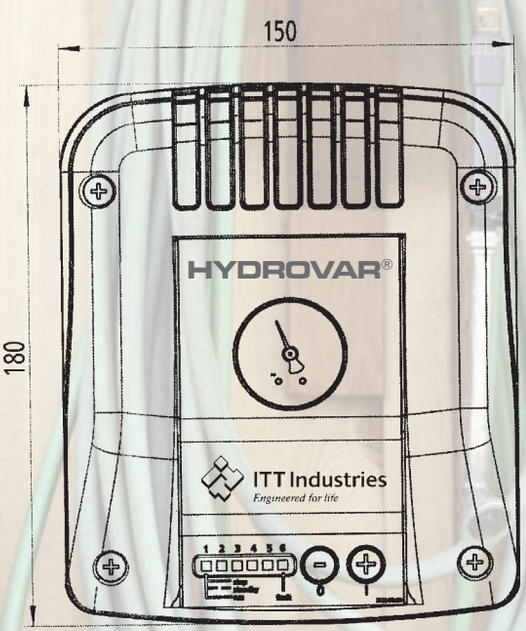
## Benefits:

- 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 alreday 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 Uin (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

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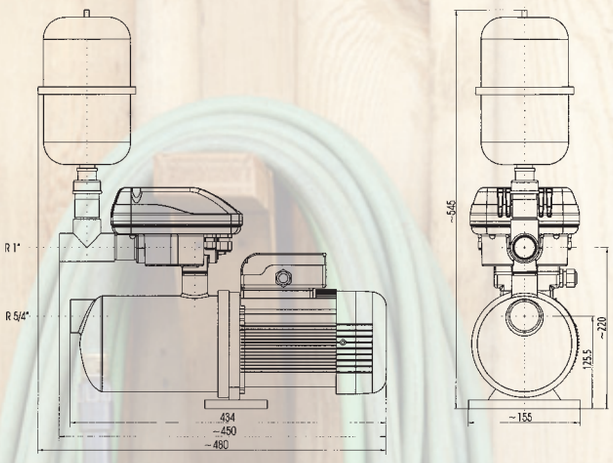
# Samples for Pressure Booster units

## 2 HMW 7-2:

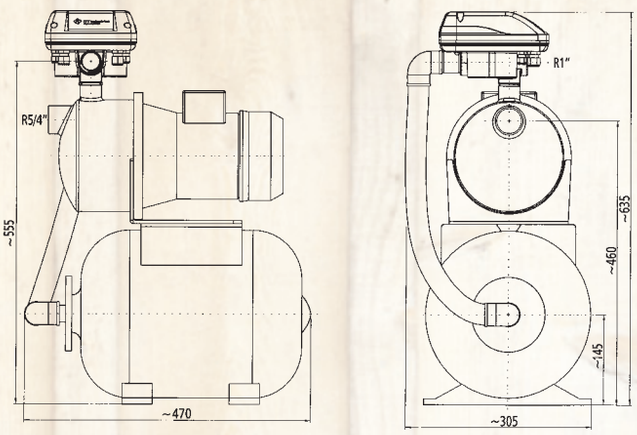
**Ready to plug in system with horizontal multistage centrifugal pumps and 2 liter membrane tank**



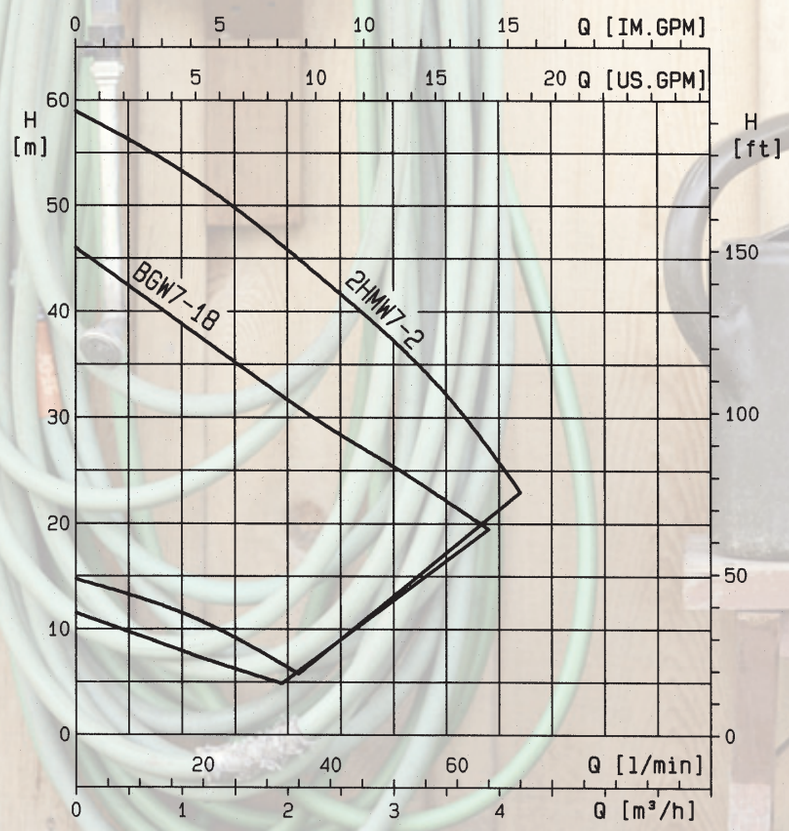

2 HMW 7-2

## BGW 7-18:

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




BGW 7-18




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

Dealer


**Pumpenfabrik ERNST VOGEL GmbH**
A-2000 Stockerau, Ernst Vogel-Straße 2
Telefon ..43/2266/604, Telefax ..43/2266/65311
www.vogel-pumpen.com, www.hydrovar.com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