



GHVR Variable Speed Booster Set

REDUCED SPACE DESIGN VARIABLE SPEED BOOSTER SET WITH HYDROVAR INVERTERS

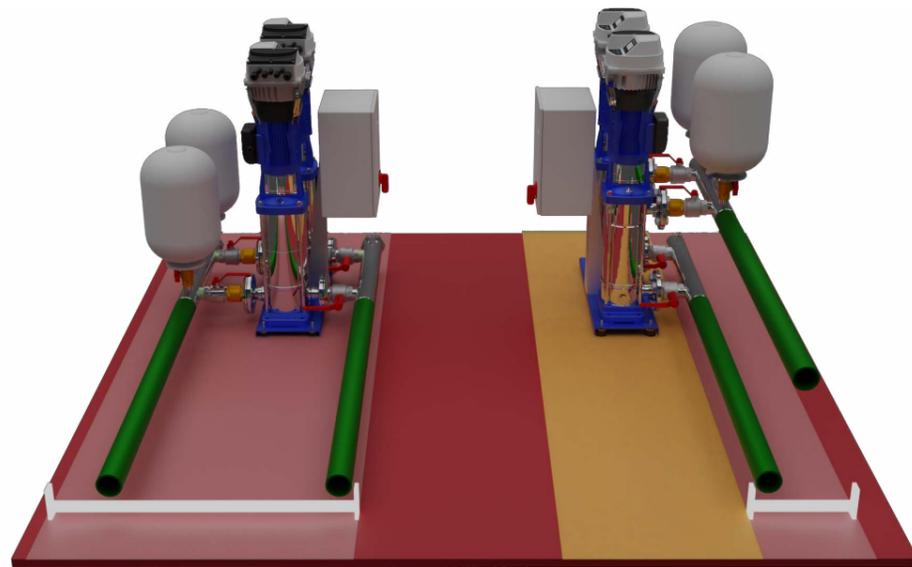
GHVR Booster Sets

GHV series booster sets are pumping stations featuring up to 8 vertical multistage pumps from the e-SV series. The pumps are connected to one another by suction and delivery pipes, and fixed onto a single base. The pumps are connected to the manifolds by means of stop valves and check valves. An electric protection and control panel is installed using a bracket on the base of the set.

All pumps engage by means of their own frequency converter. Each pump can start automatically depending on the system requirements and is fitted with its own pressure transmitter for the maximum redundancy and reliability.

Reduced Space Design

With its unique manifold layout the GHVR booster set is specifically designed for environments with limited space. Compared to a traditional inline booster set, pipework footprint is significantly reduced allowing you to make the most of your floor space.



Suitable for Potable Water

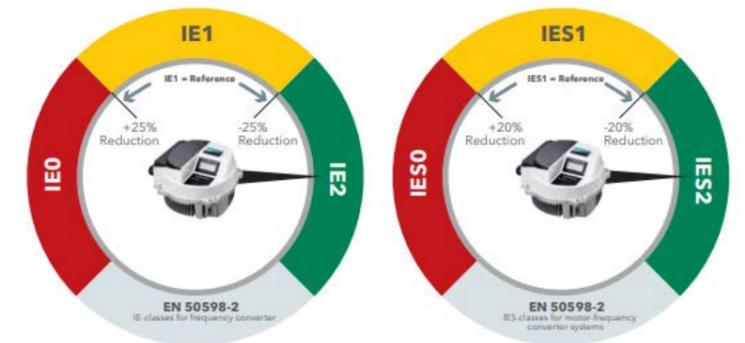
GHVR series booster sets, fitted with stainless steel e-SV vertical multistage pumps, are certified for use with drinking water

e-SV Multistage Pumps

The e-SV's hydraulics, combined with a high-efficiency motor (IE3) deliver maximum efficiency. The e-SV's design allows removal of the mechanical seal without having to remove the motor, reducing repair time by up to 50%. A standard DIN mechanical seal, wearing components, service tools and standard IEC motors enable faster and easier maintenance and servicing.

IE & IES Efficiency

The GHVR booster set, fitted with the Hydrovar variable speed drive and Lowara PLM IE3 motor, has the highest possible rating of both frequency converter (IE2) and Power Drive System (IES2) as featured in the EN 50598-2 European Standard for Energy Efficiency.



Hydrovar Variable Speed Drive

Hydrovar is the intelligent pump controller that matches the performance to the demand. Unlike other variable speed drives, the Hydrovar uses a multi-master system ensuring the booster set remains operational if one drive fails, removing a single point of failure. Communication with local BMS systems using either BACnet and Modbus protocols comes as standard. Other built-in features include Slow Fill and Pipework burst protection.



Specification

Motor Protection: IP55
Voltage: 400 or 240 volt
Frequency: 50hz
Motor Efficiency: IE3
Insulation class: F

Temp of pumped liquid: 0°C to +80°C
Working Pressure: Up to 16 bar

Materials

Pump housing: AISI 304 certified for drinking water
Impellers: AISI 304 Stainless steel
Elastomers: EPDM
Mechanical Seal: Silicon carbide / Carbon / EPDM
Manifolds: AISI 304 (Suction and Discharge)

Pump Range (Performance Per Pump)

GHVR 5SV Range
Max-Min Flow: 2.24-8m³/h
Max Head: 152m
Motor Size: 1.1-3kW
Power Supply: 1 / 3 phase

GHVR 10SV Range
Max-Min Flow: 5-14m³/h
Max Head: 156m
Motor Size: 2.2-5.5kW
Power Supply: 1 / 3 phase

GHVR 15SV Range
Max-Min Flow: 8-24m³/h
Max Head: 147.7m
Motor Size: 4-11kW
Power Supply: 3 phase

GHVR 22SV Range
Max-Min Flow: 11-29m³/h
Max Head: 155.4m
Motor Size: 5.5-11kW
Power Supply: 3 phase