



Packaged Hydrovar

DRIVE + E-SV INTEGRATION



Reduce energy usage and cost!

- Pre-sized and selected drive
- Installed, programmed and tested in the factory
- UL Package Listing
- Quick installation as single unit, just bring power
- Kits offer pre-wired drive and fused disconnect to retrofit pumps in the field
- Complete e-SV Packages offer
 - Industry leading efficiencies
 - Broad performance range
 - Simple selection and ordering process
 - Factory programed and tested system

Hydrovar®

Hydrovar is the intelligent pump controller that matches the performance to system demand. The Hydrovar is easily mounted directly on the motor of the pump and will fit on any standard TEFC NEMA motor. This makes the Hydrovar an excellent choice for retrofitting and upgrading of fixed speed systems. There's no need for an external control panel when using Hydrovar.

APPLICATIONS

Designed for centrifugal pump systems requiring constant pressure, flow control or differential pressure in commercial and municipal applications.

FEATURES

- **Input Supply:** 1Ø Input 208/230 volt 2 - 5 HP
3Ø Input 208/230 volt 2 - 15 HP
3Ø Input 460 volt 2 - 30 HP
(208 - 240V $\pm$ 10%, 15 - 70 Hz)
(380 - 460V $\pm$ 10%, 15 - 70 Hz)
- **Motor Requirements:** 3 phase, TEFC, 208 - 230V or 460V, 0 - 60 HZ, Class F insulation, NEMA design A or B
- Motor mount to fan cover of TEFC motor for a packaged unit with a small footprint
- Maximum ambient temperature 104° F.
- **Indoor enclosure:** NEMA 1. Avoid excessive dust, corrosives, salts and direct sunlight.
- **Display:** Large LCD display. Easy to read pump language, pump on, system pressure, fault codes and system conditions are displayed.
- Control up to 8 pumps in parallel
- **Control:** Analog input control (4 - 20mA) two point control based on pressure, flow or differential pressure.
- **Alternate Input:** Up to two transducers may be used with each controller. These may be pressure, flow, differential pressure, temperature or other 4 - 20mA signals.
- Remote start/stop via switch input (low water, low pressure, etc.) and emergency stop.
- Dry relay contacts available for pump run and fault.
- **Protection:** Over/Under voltage, motor overload, short circuit, ground fault, programmable no/low flow shut-down, low suction pressure, pump run-out.
- MODBUS® and BACnet as standard. Optional Wi-Fi card for the flexibility of wireless connection.
- Advanced motor control to reduce heating and extend the lifetime of the motor
- Embedded THDi filter for better electricity quality from the grid, extending the lifetime of the equipment.
- **Pressure Transducer:** 316 SS, 17-4 PH stainless steel, 1/4" NPT connection, shielded two wire cable, 0 - 300 PSI range. Included with drive.



**Pump Mounted
Variable Speed Controller**



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