

# HYDROFORCE BOOSTER PUMP

**GRAND HydroForce** pump packages are designed around your exact needs. They allow building owners, contractors and engineers to easily select a booster package with precisely the right performance. They are easy to install, set up and are designed to communicate and work seamlessly in both new and retrofit applications. Best of all, with Grand single-source responsibility and technical expertise, it's easy to work with us to provide you with exactly the pump station you need.

The **HydroForce** provides pressure boosting for a variety of applications including high-rise buildings, industrial plants, hospitals and schools. Even with the most challenging, changing system demands, the HydroForce pumping station provides consistent performance. Available in duplex and triplex configuration.

## FEATURES AND SPECIFICATIONS

- Flow range 80 L/m to 960 L/m
- Pressure 3 bar to 14 bar
- Pre-programmed for easy installation and start-up
- Hot dip galvanized manifolds with BSP/flanged connections.
- Stainless steel vertical multi-stage pumps
- Steel frame and base
- 220/1 or 400/3 premium efficiency motor
- Main system disconnect - NEMA 1 enclosure - HydroForce variable speed pump controller with BMS output
- Check valves - non-slam silent type
- Isolation valves - ball or wafer type, low loss
- Suction/discharge pressure transducer



## TYPICAL INSTALLATION

Office buildings, High rise buildings, Industrial plants, Hospitals, Schools etc.

## PUMP SPECIFICATION

<b>Pump Type</b>	Vertical multistage, centrifugal
<b>Impeller</b>	AISI 304
<b>Casing</b>	AISI 304
<b>Shaft</b>	AISI 304 / AISI 316
<b>Shaft sleeve bearing</b>	Tungsten Carbide
<b>Shaft Seal</b>	EPDM
<b>Operating temperature</b>	-30 to + 140°C
<b>Max Operating pressure</b>	16 bar or 25 bar
<b>Motor</b>	TEFC, 2 pole, Insulation class F, Protection degree IP55

## STANDARD CONTROL FUNCTIONS

- Automatic cascade control of pumps,
- Microprocessor controller with BacNet output for BMS
- Individual motor VFD with Fused protection,
- Auto Lead/lag alternation
- Hi pressure cut-off alarm
- Low Inlet pressure alarm
- Motor over-load alarm indication
- Audible alarm with silence switch and kick-back
- Power ON & Pump ON indication

## OPTIONAL CONTROL

- Stop function at low flow,
- Dry running protection,
- Surge Pressure Tank