

Pressure Boosting System

GRUNDFOS HYDRO MULTI-E

The Hydro Multi-E pressure booster system is an innovative boosting solution for commercial building pressure boosting, HVAC and irrigation applications. For energy savings and comfort, the Hydro Multi-E system uses parallel mounted Grundfos CRE variable-speed pumps that have a reputation for providing the ultimate in efficiency and reliability. With a state-of-the-art integrated ECM MLE motor, the Hydro Multi-E arrives ready to install.



Key Features and Benefits

- 2 and 3 pump systems with CRE3-CRE20 pumps
- Performance range: max gpm 420, max pressure 232 psi
- All motors capable of master motor control
- Two sensors standard – 100% redundancy
- Advanced control interface installed in one pump – System controller
- New functionality:
 - Control from discharge-suction sensor (DP across pumps)
 - Limit Exceed 1 & 2
 - Setpoint influence
 - Soft pressure build-up
 - SCADA via CIM expansion card
- Small footprint for space-saving complete solution
- SCADA communication capable via CIM expansion card with all industry standard BUS protocols
- System NSF61/372 certified
- UL listed package pumping system

MLE MOTOR

- The Grundfos ECM MLE motors exceed IE5 motor efficiency standards, set by the International Electrotechnical Commission, currently the highest efficiency level worldwide for electrical motors. NEMA premium efficient motors are equal to IE3 level, so these motors represent two levels above NEMA premium. The result of this increased efficiency is reduced energy consumption/operating costs by 7-9%, based on a typical domestic water load profile
- Grundfos integrated variable frequency drive and motor combined eliminates complexity by matching variable speed motor, drive and control logic components

HP	TEFC Motor + Conventional VFD			Grundfos MLE	
	NEMA Premium (IE3) Eff.	Typical VFD Efficiency	Combined Motor+VFD Efficiency	MLE IE5 Efficiency	Efficiency Increase
2	85.5	97.0	82.9	89.4	6.5
3	86.5	97.0	83.9	90.7	6.8
5	88.5	97.0	85.8	92.5	6.7
7.5	89.5	97.0	86.8	92.4	5.6
10	90.2	97.0	87.5	92.5	5.0
15	91.0	98.0	89.2	93.2	4.0

CRE PUMP

- World's number one multi-stage centrifugal pumps, the CR and CRE, known for their reliability, efficiency and adaptability

MANIFOLDS

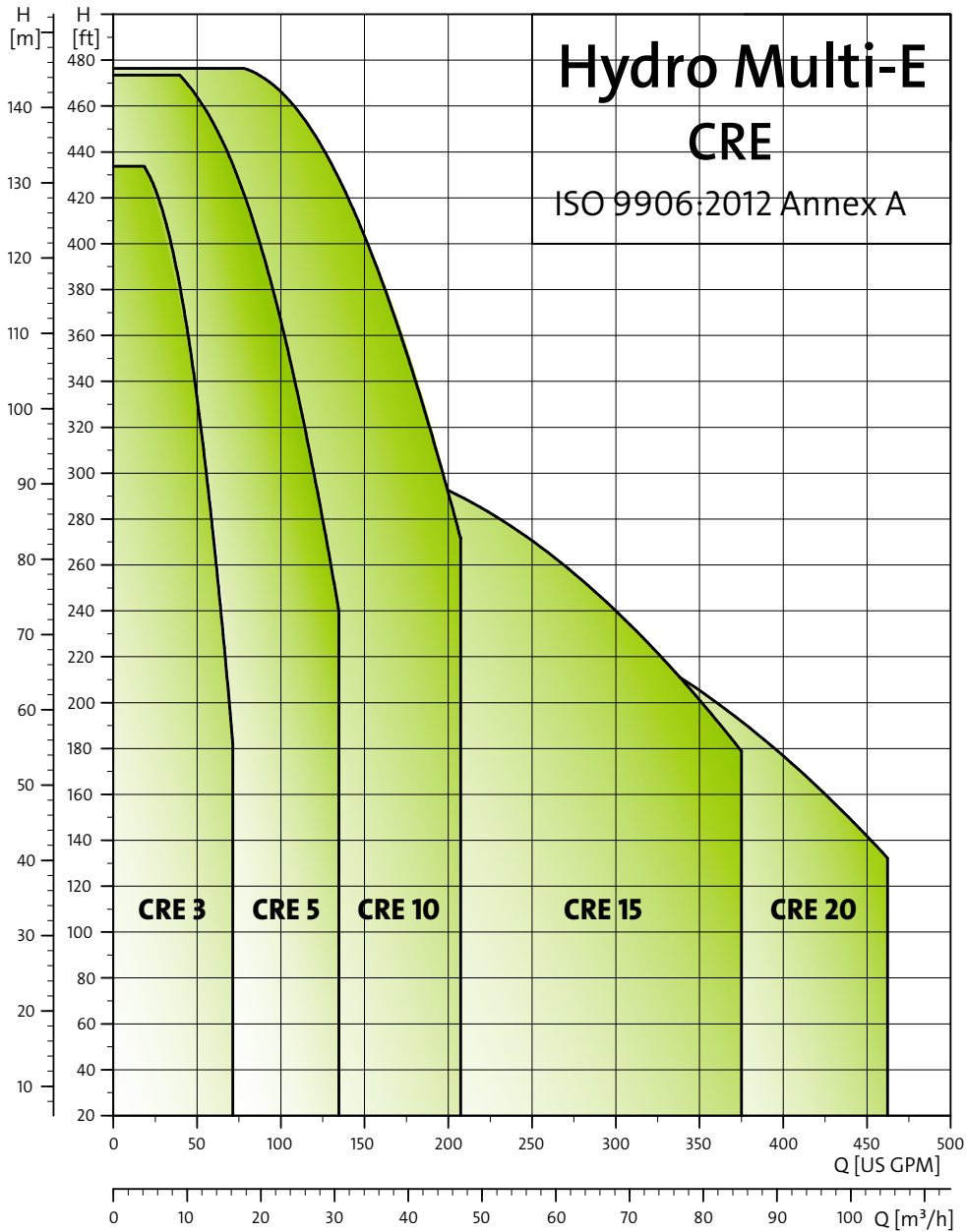
- Hygienically designed 316 stainless steel manifolds guarantee protection against corrosion
- Extrusion process results in hydraulic optimization, reduced pressure loss and noise, as well as the best conditions to meet hygienic standards

APPLICATIONS

- Commercial building pressure boosting
- Apartment buildings
- Irrigation

Hydro Multi-E Technical Data

Hydro Multi-E Information	
Max Flow, Q:	460 gpm
Max Head, H:	475 ft
Liquid temp.:	+32°F to +176°F
Working press.:	max. 232 psi



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