

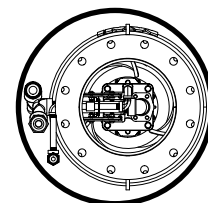
HYDRAFLOW™ HNC14

HYDRAULIC HIGH-VOLUME SUBMERSIBLE PUMP & 2400D DRIVE UNIT



The Hydraflo™ HNC14 High-head, Non-clog Hydraulic Submersible Pump coupled with an MWI Diesel (or Electric) 2400 Drive Unit is an unbeatable combination for bypassing sewage from a manhole, dewatering construction excavations, quarry dewatering, general municipal use, emergency flood control and industrial work.

These units are designed and manufactured for the toughest environments with the best combination of ruggedness, reliability, performance, operational costs and initial price.



**Fits inside a 28"
manhole⁽¹⁾**

FEATURES

Hydraflo™ HNC14

- Able to fit inside a 28 inch manhole⁽¹⁾
- Larger solids handling capability up to 3" solids
- 10MGD+ @40' TDH, 5 MGD+ @ 90' TDH
- Capable of double staging pumps in series to achieve twice the TDH for higher head applications
- Up to 40% less energy consumed⁽²⁾
- At 40' TDH, one HNC14 can move almost 2x the flow of an 18" automatic self priming pump operating at 25' static lift
- Intermittent run dry capability
- Grease lubricated bearings

2400D Diesel Engine Drive Unit

- Skid mounted unit - standard trailer mounted unit available - with optional fenders, DOT light kit and braking system
- Engine and hydraulic safety shutdowns
- Complete hydraulic system with control panel, pump, filters, tank and gauges
- Engineered hydraulic tank insures reliable hydraulic system performance
- Reliable, efficient vane hydraulic pump
- Environmentally friendly inherently biodegradable hydraulic fluid
- Auto start stop panel available with floats
- Air cooled hydraulic oil cooler with thermostat

APPLICATIONS

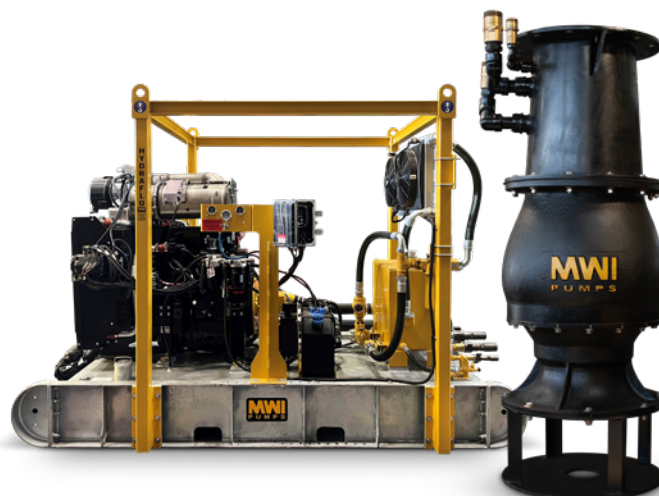
Hydraflo™ HNC14 w/ DU

- Flood Control
- Industrial
- Bypass Pumping
- Stormwater Drainage
- Construction Dewatering
- Agriculture
- Aquaculture
- Quarries

(1) With removal of top setting ring
(2) As compared against automatic self-priming pumps operating at maximum published suction lifts.

QUICK SPECIFICATIONS

Max capacity	7650 GPM
Max solids handling	3"
Max impeller diameter	13.9"
Max operating temp	150°F
Max working pressure	40.7 psi
Max operating speed	850 RPM / 1850 Diesel RPM
Max head (TDH)	94'



MATERIALS & SPECIFICATIONS

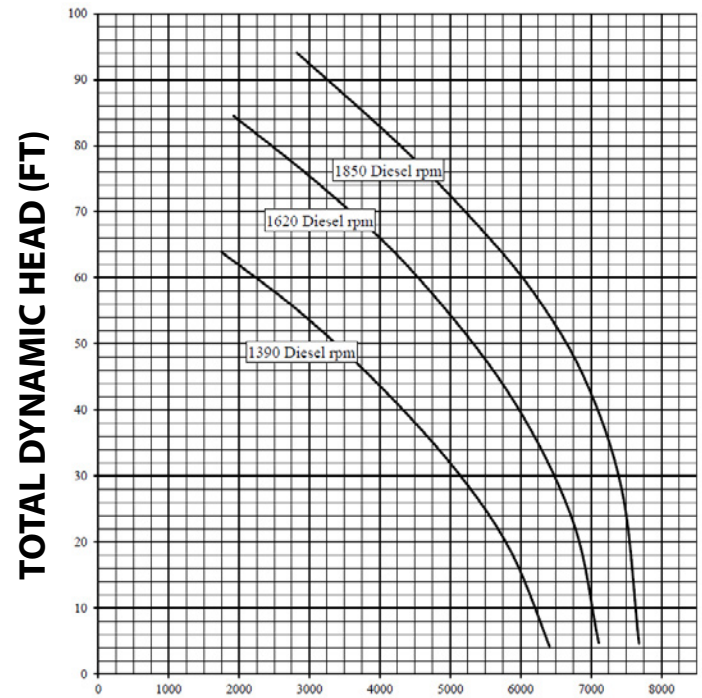
HNC14

Hydraulic motor	Vane type
Impeller	Closed two-bladed ductile iron
Shaft material	300 series stainless steel
Diffuser	Ductile iron
Discharge	14" ANSI
Hydraulic quick disconnects	1 1/4" Supply, 1 1/2" return, 3/4" case drain
Mechanical seal	Silicone carbide
Bearings	Angular contact grease packed
Weight	1100 lbs
Coating	Epoxy

2400 DRIVE UNIT

Diesel engine	200 HP at 2200 RPM
Engine panel	Including tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection
Fuel tank	187 gallon vented fuel tank with extra large filler and fuel gauge
Fluid tank	22 gallon hydraulic
Safety shutdowns	Low hydraulic oil, excessive vacuum and high hydraulic oil temperature
Standard equipment	Internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap
Hydraulic pump	Vane type
Weight	4300 lbs (dry)

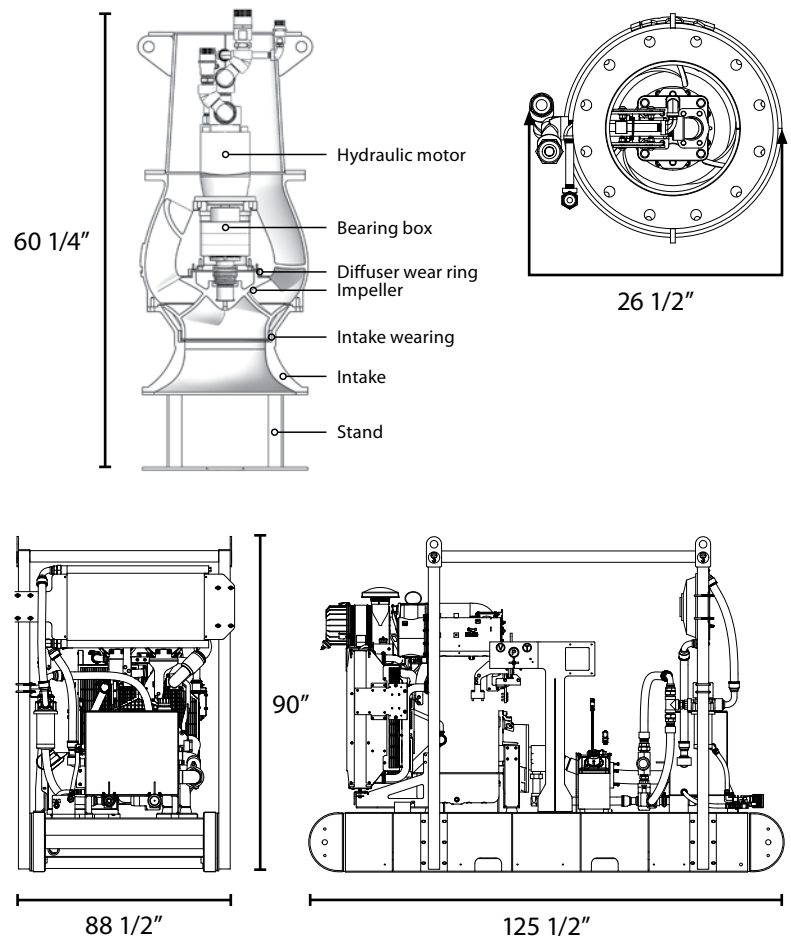
PERFORMANCE CURVE



WATER FLOW (GPM)

650 RPM / 1390 Diesel RPM⁽³⁾
750 RPM / 1620 Diesel RPM⁽³⁾
850 RPM / 1850 Diesel RPM⁽³⁾
(3) HYDRAULIC PUMP 11.18 in³/rev

DIMENSIONS



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