

# HYDRAFLO™ H3NC

## H3NC - HYDRAULIC HIGH VOLUME SUBMERSIBLE PUMP AND 3000D DRIVE UNIT



### APPLICATIONS

Flood Control

Industrial

Bypass Pumping

Stormwater  
Drainage

Construction  
Dewatering

Agriculture

Aquaculture

Quarries

The Hydraflo™ H3NC high-head non-clog hydraulic submersible pump coupled with a diesel or electric drive unit is an unbeatable combination for drying out construction excavations, quarry dewatering, bypassing sewage, general municipal use 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. While typical Waste Water Treatment Plant bypass operations require eight water pumps to handle the primary flow and 1-2 extra pumps with only 25% redundancy, just four H3NC 24" pumps can handle the full plant bypass with 100% redundancy\*.

### FEATURES

#### Hydraflo™ H3NC

- 200% larger solids handling capability up to 6" solids\*
- Efficiently handles up to 90' TDH and 18,000 GPM / 25MGD
- Up to 40% less energy consumed\*
- 50% smaller footprint required\*
- Install in half the time of a traditional bypass system
- Closed two-bladed impeller for handling trash and sewage
- Runs dry indefinitely
- Grease lubricated bearings
- Vane hydraulic motor

#### 3000D 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
- Small hydraulic tank reduces fluid replacement costs
- Reliable, efficient vane hydraulic pump
- Environmentally friendly inherently biodegradable hydraulic fluid
- Auto start stop panel available with floats

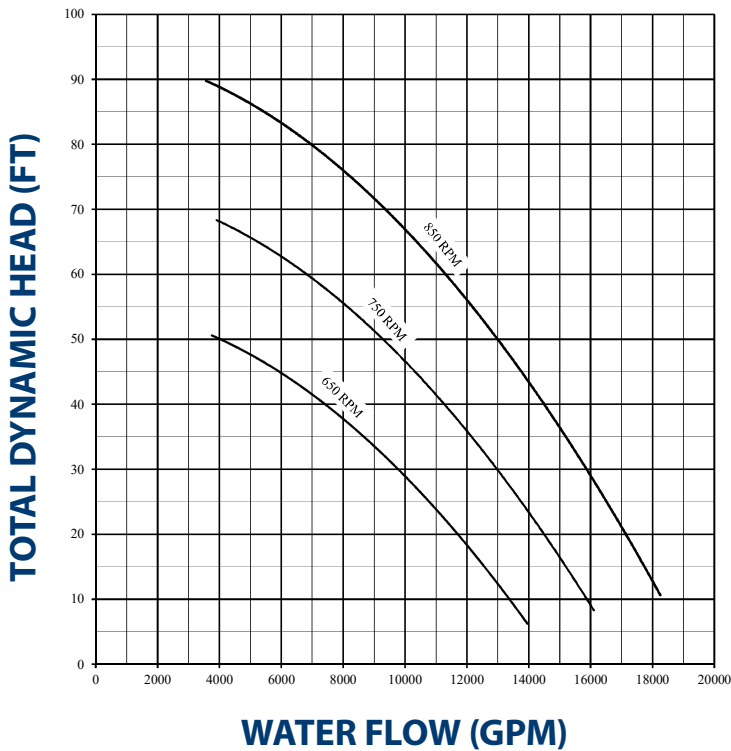
\* As compared against standard skid mounted end suction centrifugal pumps operating at maximum lift and a flow of 55,000GPM.

### QUICK SPECIFICATIONS

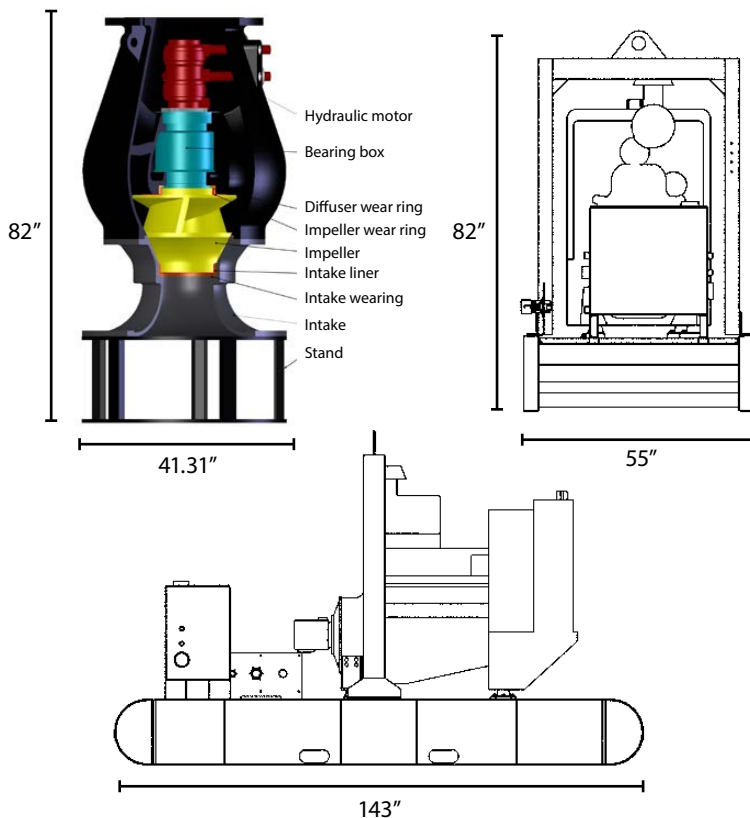
Max capacity	18,000 GPM
Max solids handling	6.38"
Max impeller diameter	25.3"
Max operating temp	150°F
Max working pressure	39 psi
Max operating speed	850 rpm
Max head (TDH)	90'



## PERFORMANCE CURVE



## DIMENSIONS



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## MATERIALS & SPECIFICATIONS

### H3NC

Hydraulic motor	Vane type
Impeller	Closed two-bladed cast iron
Shaft material	300 series stainless steel
Diffuser	Cast iron
Discharge	24" ANSI
Hydraulic quick disconnects	2" Supply, 2" return, 3/4" case drain
Mechanical seal	Silicone carbide
Bearings	Angular contact grease packed
Weight	4800 lbs
Coating	Epoxy

### 3000 DRIVE UNIT

Diesel engine	300 HP at 1800 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	40 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	Dennison vane type
Weight	6500 lbs (dry)