

NC80

The Godwin Dri-Prime NC80 is an extremely powerful yet compact pump with flow capabilities up to 609 GPM (138 m³/h) and discharge heads up to 105 ft (32 m).

The NC80 features patented Flygt N-technology with an innovative self-cleaning hydraulic.

NC Series pumps are engineered to deliver sustained high efficiency resulting in lower energy and fuel costs while reducing unplanned downtime.

This makes the NC80 a best-in-class portable pump suitable for tough sewage and sludge applications.



Features

- Dri-Prime automatic self-priming system that primes and re-primers from dry up to 28 ft (8.5 m) without operator assistance or foot valve control
- Incorporates Flygt N-technology for non-clog performance, sustained high efficiency and long-term energy/fuel savings
- Hard-Iron™ (60 HRC) impeller and insert ring
- Dry-running high-pressure oil bath mechanical seal with highly abrasion-resistant silicon carbide faces
- Close-coupled centrifugal pump mounted to a diesel engine or electric motor for easy pumpend or engine/motor changeover in the field

Options

- Diesel engine or electric motor
- Highway trailer or skid-mounted
- Quiet enclosure

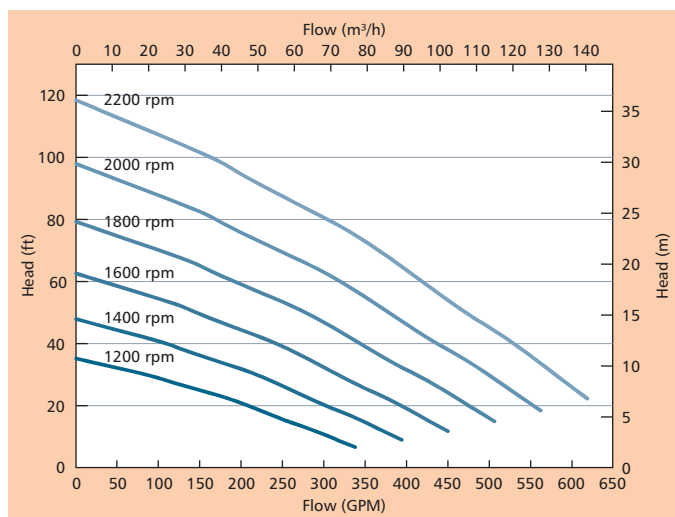
Specifications

Suction connection	4"	100 mm*
Delivery connection	3"	80 mm*
Max. capacity	609 GPM	138 m³/h
Max. head	105 ft	32 m
Max. impeller diameter	8"	197 mm
Max. operating temp.	176°F	80°C
Max. working pressure	58.0 psi	4.0 bar
Max. suction pressure	39.9 psi	2.8 bar
Max. casing pressure	87.0 psi	6.0 bar
Max. operating speed	2200 rpm	

*BS10 table 'D'

Available as Godwin DBS™ (Dri-Prime Backup System) for pump station backup.

Performance curve



Materials

Pump casing and suction cover	Cast iron BS1452:1990 grade 220
Rear wearplate	Cast iron BS1452:1990 grade 220
Pump shaft	Carbon steel BS970-3:1991 080M40
Impeller and insert ring	Hard-Iron™ (60 HRC)
Non-return valve body	Cast iron BS1452 grade 220
Mechanical seal faces	Silicon carbide vs. silicon carbide

Engine

Yanmar, 3TNV70 14.6 HP @ 2200 rpm

Impeller diameter 8" (197 mm)

Other engine options available on request

Suction lift table

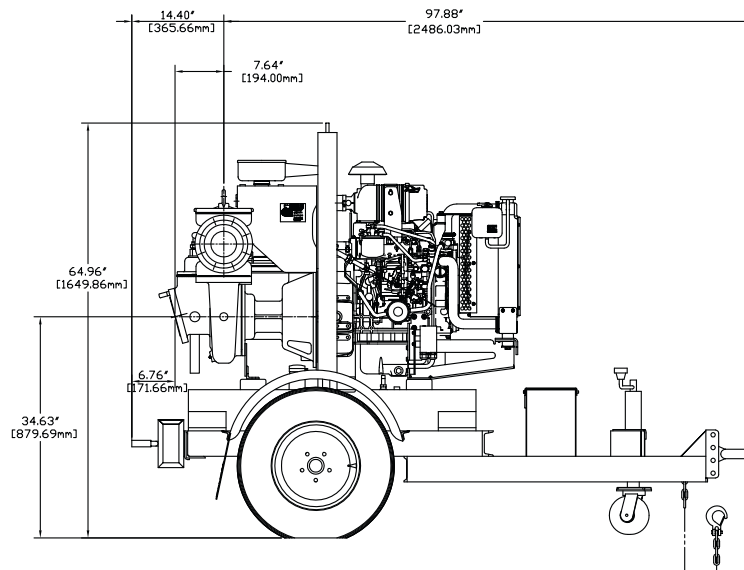
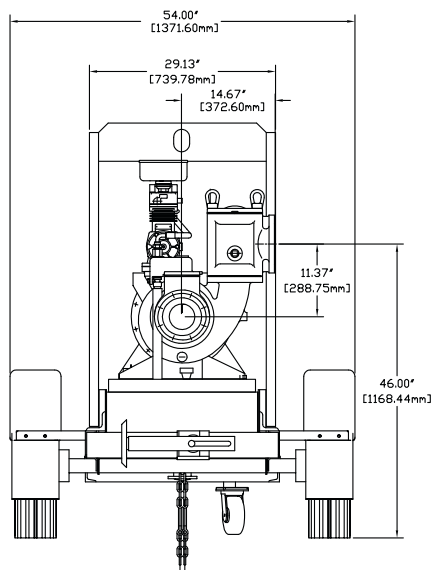
Total suction head (ft)	Total delivery head (ft)				
	7	54	69	78	93
Output (GPM)					
9.8	619	371	280	215	97
15.1	581	323	215	161	—
20.0	484	269	161	—	—
24.9	334	215	108	—	—

Fuel capacity (Full) 30 US Gal, (Usable) 30 US Gal

Fuel consumption (@ 2200 rpm) BEP 1 US Gal/hour

Weight (Dry) 1,080 lbs, (Wet) 1,327 lbs

Dimensions (L) 99" × (W) 54" × (H) 65"



Performance data provided is based on water tests at sea level and 68°F ambient. All information is approximate and for general guidance only. Please contact Godwin for further details.