

# CD80M Dri-Prime® Pump

The Godwin Dri-Prime CD80M pump offers flow rates to 460 USGPM and has the capability of handling solids up to 1.6" in diameter.

The CD80M is able to automatically prime to 28' of suction lift from dry. Automatic or manual starting/stopping available through integral mounted control panel or optional wireless-remote access.

Indefinite dry-running is no problem due to the unique Godwin liquid bath mechanical seal design. Solids handling, dry-running, and portability make the CD80M the perfect choice for dewatering and bypass applications.



## Features and Benefits

- Simple maintenance normally limited to checking fluid levels and filters.
- Dri-Prime (continuously operated Venturi air ejector priming device) requiring no periodic adjustment. Optional compressor clutch available.
- Extensive application flexibility handling sewage, slurries, and liquids with solids up to 1.6" in diameter.
- Dry-running high pressure liquid bath mechanical seal with high abrasion resistant solid silicon carbide faces.
- Close-coupled centrifugal pump with Dri-Prime system coupled to a diesel engine or electric motor.
- All cast iron construction with cast steel impeller for increased impact resistance when pumping solids.
- Also available in a critically silenced unit which reduces noise levels to less than 70 dBA at 30'.
- Standard engine Yanmar 3TNV76 (IT4 Flex). Also available with Caterpillar C1.1T (IT4 Flex).

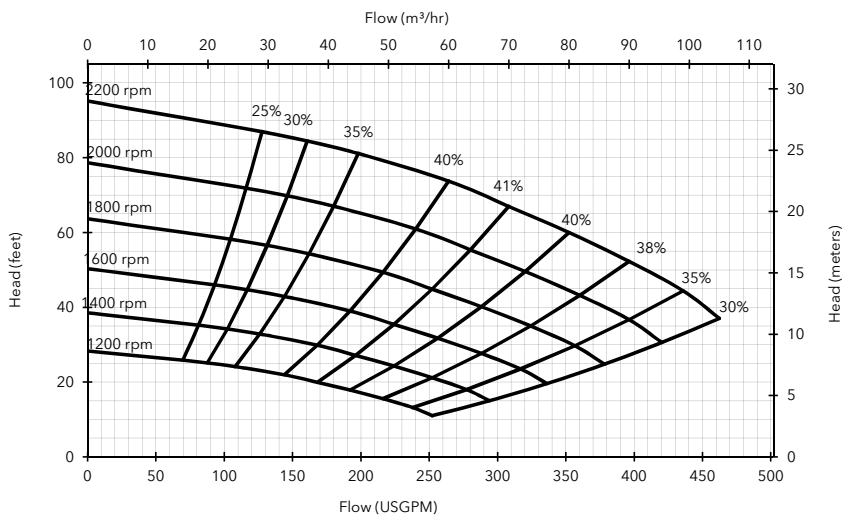
## Specifications

Suction connection	3" 125# ANSI B16.1
Delivery connection	3" 125# ANSI B16.1
Max capacity	460 USGPM †
Max solids handling	1.6"
Max impeller diameter	7.5"
Max operating temp	176°F*
Max pressure	41 psi
Max suction pressure	29 psi
Max casing pressure	62 psi
Max operating speed	2200 rpm

\* Please contact our office for applications in excess of 176°F.

† Larger diameter pipes may be required for maximum flows.

## Performance Curve



### Engine option 1

Yanmar 3TNV76 (IT4 Flex), 18 HP @ 2200 rpm

Impeller diameter 7.5"

Pump speed 2200 rpm

#### Suction Lift Table

Total Suction Head (feet)	Total Delivery Head (feet)				
	10	15	20	25	30
	Output (USGPM)				
10	450	435	430	415	400
15	440	430	425	410	385
20	411	385	350	315	290
25	370	330	300	280	255

Fuel capacity: 30 US Gal

Max Fuel consumption @ 2200 rpm: 1.1 US Gal/hr

Max Fuel consumption @ 1800 rpm: 0.9 US Gal/hr

Weight (Dry): 1,580 lbs

Weight (Wet): 1,800 lbs

Dim.: (L) 102" x (W) 54" x (H) 70"

Performance data provided in tables is based on water tests at sea level and 20°C ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.

## Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	Cast iron BS EN 1561 - 1997
Pump Shaft	Carbon steel BS 970 - 1991 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return valve body	Cast iron BS EN 1561 - 1997
Mechanical seal	Silicon carbide face; Viton elastomers; Stainless steel body

### Engine option 2

Caterpillar C1.1T (IT4 Flex), 19 HP @ 2200 rpm

Impeller diameter 7.5"

Pump speed 2200 rpm

#### Suction Lift Table

Total Suction Head (feet)	Total Delivery Head (feet)				
	10	15	20	25	30
	Output (USGPM)				
10	450	435	430	415	400
15	440	430	425	410	385
20	411	385	350	315	290
25	370	330	300	280	255

Fuel capacity: 30 US Gal

Max Fuel consumption @ 2200 rpm: 1.2 US Gal/hr

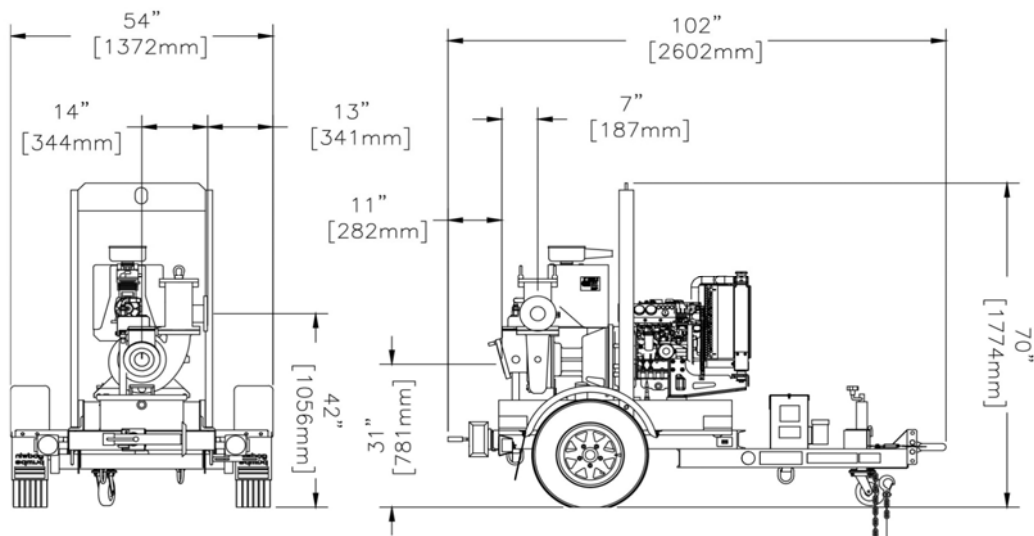
Max Fuel consumption @ 1800 rpm: 1.0 US Gal/hr

Weight (Dry): 1,610 lbs

Weight (Wet): 1,830 lbs

Dim.: (L) 102" x (W) 54" x (H) 70"

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