CD400M Dri-Prime® Hushpac

CD400M

The Godwin Dri-Prime® CD400M pump is an extremely powerful yet compact pump with flow capabilities to 2,218 m³/hr and discharge heads to 42 metres.

The CD400M features the unique Godwin high pressure oil bath mechanical seal design. This allows for dry running for prolonged periods while automatically priming and repriming. Able to perform in the toughest conditions, the CD400M can handle solids up to 125 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD400M has proven itself a pump of choice for mines, quarries and many other high capacity applications.

Features

- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime® is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle screened sewage, slurries and liquids with solids up to 125 mm in diameter.
- Dry-running high pressure oil bath mechanical seal, with high abrasion resistant silicon carbide faces.
- A Close-coupled centrifugal pump with Godwin Dri-Prime® system mounted to a diesel engine or electric drive.
- All cast iron construction (stainless steel construction option available) with cast steel impeller.
- Also available as a openset or as a bareshaft pumpend.
- Standard engine Caterpillar C9. Also avaliable with Perkins 1106D-E66TA (168)

Specifications

Suction connection	450 mm (18" BS10 table 'D')
Delivery connection	400 mm (16" BS10 table 'D')
Max capacity	2218 m³/hr
Max Head	42 metres
Max Solids handling	125 mm
Max Impeller diameter	500 mm
Max operating temp	80 °C
Max working pressure	5.0 bar
Max suction pressure	3.0 bar
Max casing pressure	7.5 bar
Max operating speed	1200 rpm

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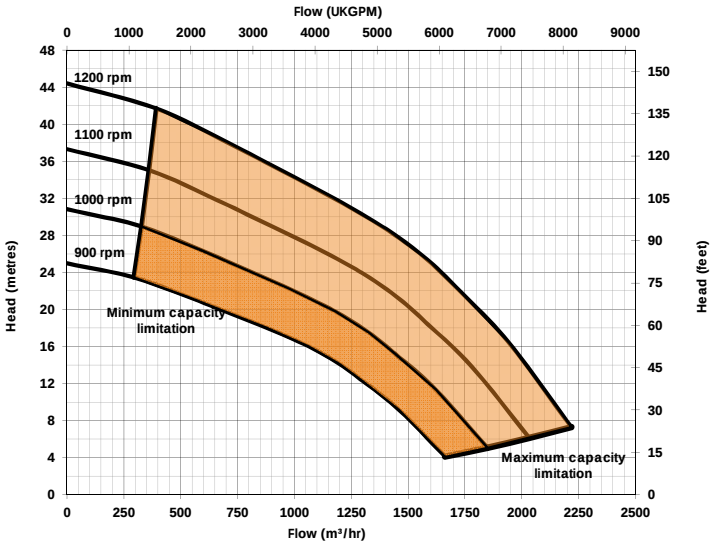
Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	Cast iron to BS1452 Gr220
Pump Shaft	Nickel Chrome Steel to BS970 Grade 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron
Mechanical Seal Faces	Double Mech seal; inboard SiC v SiC, Outboard SiC v Carbon

Engine option 1

Caterpillar, C9, 205.0 kW @ 1800 rpm

Impeller diameter 500 mm

Pump Speed 1200 rpm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	3	14	22	26	30
	Output (m³/hr)				
3.0	2218	1860	1560	1260	960
4.6	2112	1788	1380	1080	780
6.1	1980	1620	1320	900	660
7.6	1140	1020	900	780	-

Fuel capacity (Full) 772 litres, (Usable) 625 litres

Fuel consumption @ 1800 rpm BEP = 45 litres/hour

Weight: (Dry) 7,500 kg, (Wet) 8,150 kg

Engine option 2

Perkins, 1106D-E66TA (168), 137.5 kW @ 1500 rpm

Impeller diameter 500 mm

Pump Speed 1000 rpm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	2	10	15	18	21
	Output (m³/hr)				
3.0	1848	1550	1300	1050	800
4.6	1760	1490	1150	900	650
6.1	1650	1350	1100	750	550
7.6	950	850	750	650	-

Fuel capacity (Full) 550 litres, (Usable) 460 litres

Fuel consumption @ 1500 rpm BEP = 32 litres/hour

Weight: (Dry) 6,150 kg, (Wet) 6,600 kg

Overall dimensions

Length	4580 mm
Width	2065 mm
Height	2545 mm

Acoustic information

Speed (rpm)	Average Sound Pressure rating dB(A)		
	1 m	3 m	7 m
1200	70	65	62
1800	78	75	70
2100	84	80	74

Overall dimensions

Length	4200 mm
Width	1500 mm
Height	1900 mm

Acoustic information

Speed (rpm)	Average Sound Pressure rating (dbA)		
	1 m	3 m	7 m
1800	79	75	71
2000	82	78	72
2200	87	82	77

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.

godwin a xylem brand

Assessed to ISO 9001:2008
Certificate N° 1027

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