

DPC300 Dri-Prime® Pump

The Godwin Dri-Prime DPC300 pump is an extremely powerful yet compact pump with flow capabilities to 1,154 m³/hr and discharge heads to 33 metres.

The DPC300 features an 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 DPC300 can handle solids up to 95 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful DPC300 has proven itself a pump of choice for mines, quarries and many other high capacity applications.



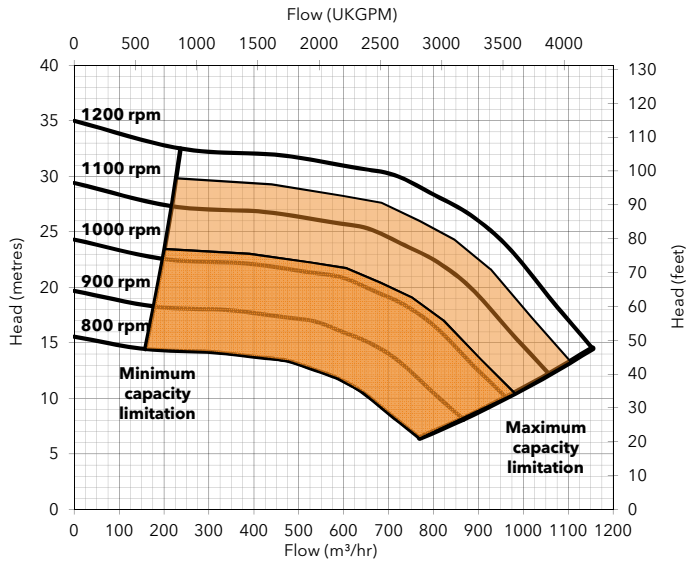
Features and Benefits

- 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 sewage, slurries and liquids with solids up to 95 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 Hush-Pac or as a bareshaft pumpend.
- Standard build engines; Perkins 1106D-E66TA (129), Perkins 1104D-E44TA. Other engine options are available.

Specifications

| | |
|-----------------------|-----------------------------|
| Suction connection | 300 mm (12" BS10 table 'D') |
| Delivery connection | 300 mm (12" BS10 table 'D') |
| Max capacity | 1154 m ³ /hr |
| Max Head | 33 metres |
| Max Solids handling | 95 mm |
| Max Impeller diameter | 430 mm |
| Max operating temp | 80 °C |
| Max working pressure | 3.4 bar |
| Max suction pressure | 2.0 bar |
| Max casing pressure | 5.1 bar |
| Max operating speed | 1200 rpm |

Performance Curve



Engine option 1

Price list ref - DPC300-01-DBO-002

Perkins, 1106D-E66TA (129), 103.5 kW @ 2200 rpm

Impeller diameter 430 mm

Pump Speed 1150 rpm

Suction Lift Table

| Total Suction Head (metres) | Total Delivery Head (metres) | | | | |
|-----------------------------|------------------------------|------|-----|-----|-----|
| | 8 | 12 | 16 | 20 | 24 |
| | Output (m³/hr) | | | | |
| 3.0 | 1094 | 1026 | 953 | 857 | 676 |
| 4.6 | 1071 | 992 | 902 | 767 | 225 |
| 6.1 | 958 | 846 | 676 | 451 | 169 |
| 7.6 | 507 | 451 | 338 | 225 | - |

Fuel capacity (Full) 850 litres, (Usable) 690 litres

Fuel consumption @ 2200 rpm BEP 27 litres/hour

Weight: (Dry) 3,606 kg, (Wet) 4,314 kg

Dimensions: (L) 3,700 x (W) 1,700 x (H) 2,200 mm

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 Iron BS EN 1561 - 1997 |
| Non-return Valve body | Cast iron BS EN 1561 - 1997 |
| Mechanical Seal Faces | Silicon carbide vs silicon carbide |

Engine option 2

Price list ref - DPC300-01-DBO-001

Perkins, 1104D-E44TA, 74.1 kW @ 2000 rpm

Impeller diameter 430 mm

Pump Speed 1020 rpm

Suction Lift Table

| Total Suction Head (metres) | Total Delivery Head (metres) | | | | |
|-----------------------------|------------------------------|-----|-----|-----|-----|
| | 6 | 9 | 12 | 15 | 18 |
| | Output (m³/hr) | | | | |
| 3.0 | 970 | 910 | 845 | 760 | 600 |
| 4.6 | 950 | 880 | 800 | 680 | 200 |
| 6.1 | 850 | 750 | 600 | 400 | 150 |
| 7.6 | 450 | 400 | 300 | 200 | - |

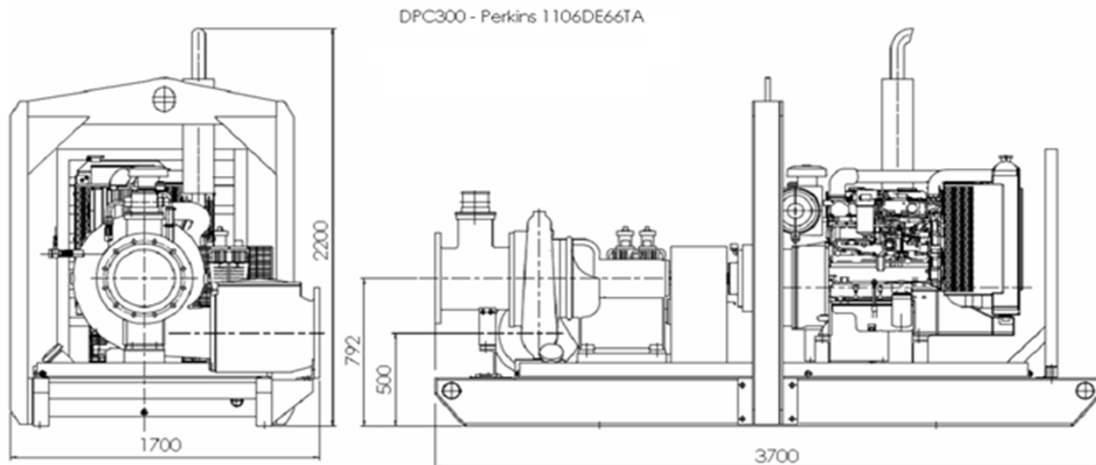
Fuel capacity (Full) 850 litres, (Usable) 690 litres

Fuel consumption @ 2000 rpm BEP 17 litres/hour

Weight: (Dry) 3,500 kg, (Wet) 4,201 kg

Dimensions: (L) 3,700 x (W) 1,700 x (H) 2,200 mm

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.



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