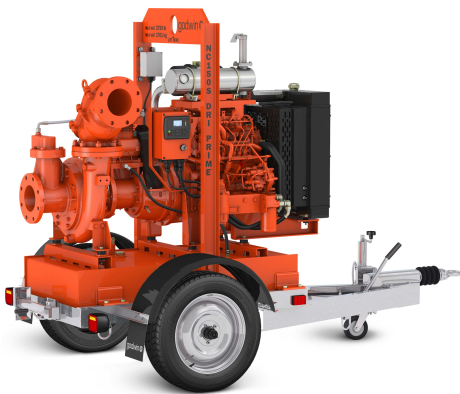


# Godwin NC150S Dri-Prime® Pump



The Godwin NC150S Dri-Prime pump is designed for use in municipal wastewater applications that contain stringy, modern waste. This unique self-cleaning, non-clog pump is recommended for sewer, lift station, and bypass applications, and is ideal for permanent installations where reliability is absolutely critical, e.g. Diesel Backup Systems (DBS).

The NC150S is a member of the Godwin S Series of Smart pumps, which feature greater fuel economy, easier operation, and reduced maintenance. In addition, the Flygt N-Technology non-clog (NC) impeller is interchangeable with the CD impeller, providing the flexibility to tackle general dewatering applications with the same pump.

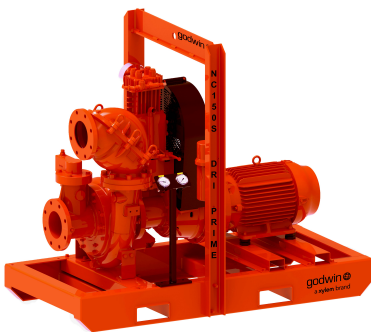
The Field Smart Technology is standard on every S series pump, providing real-time remote monitoring and control.

## Specifications

Suction connection	150 mm (6 in) flange
Discharge connection	150 mm (6 in) flange
Max flow	366.7 m <sup>3</sup> /h (1,615 USGPM) <sup>1</sup>
Max impeller diameter	286 mm (11.25 in)
Max operating temperature	80°C (176°F) <sup>2</sup>
Max Allowable Working Pressure (MAWP)	6.1 bar (88 psi)
Max suction pressure	4.0 bar (58 psi)
Max operating speed	2200 rpm

<sup>1</sup> Larger diameter pipes may be required for maximum flows.

<sup>2</sup> Please contact our sales and product support for applications in excess of 80°C (176°F).



## Features and benefits

- Flygt 'non-clog' N-Technology to avoid ragging and downtime caused by modern waste.
- Field Smart Technology allows the user to monitor & control the pump from anywhere in the world.
- New compressor belt tensioner reduces time to change and adjust belt to approximately 30 minutes.
- New sight glass and measuring stick added to monitor mechanical seal oil level and quality.
- Improved hydraulic design reduces vibration, maximizes efficiency and fuel economy.
- Fully automatic priming from dry to 8.5 m (28 ft).
- Venturi priming requires no adjustment or control.
- Available as Open Skidbase or Sound Attenuated Enclosure, both of which can be trailer mounted.
- Standard engines are compliant with regional emissions legislation.
- Other engine options available.
- Electric motor options are available for fixed and variable speed operations.
- Environmentally friendly skid base, that contains fluid spills, comes as standard.

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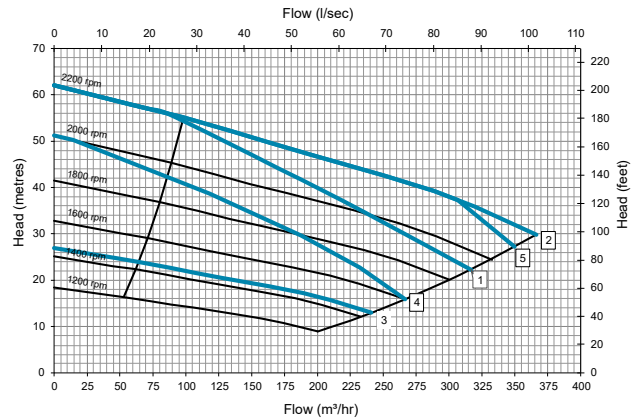
## Suction lift table 1800 rpm

Performance data provided in tables is based on water tests at sea level and 20°C (68°F) ambient.

Total suction head (metre)	Total discharge head (metre)				
	8	15	20	28	30
	Output (m <sup>3</sup> /h)				
3.0	300	280	250	150	120
4.6	280	260	230	130	100
6.1	242	230	210	110	-
7.6	175	170	150	80	-

## Performance curve

Pump curve is based on 0 m (0 ft) dynamic suction lift.

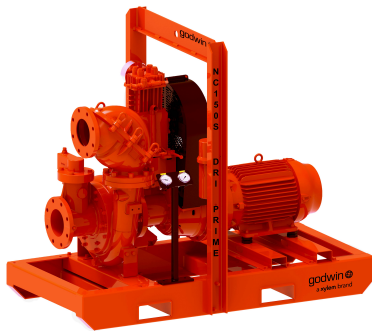


## Materials

Pump casing	Cast iron
Wearplates	Front - Hard iron Rear - Cast iron
Pump shaft	Carbon steel
Impeller	Hard Iron
Mechanical seal faces	SiC vs SiC

## Driver options

Option	Driver	Power kW (hp) @ rpm	Fuel usage at power shown	Rating standard
1	Perkins 404D-22T	37.5 (50) @ 2200	11.5 L/h	Lesser regulated
2	Perkins 1104D-44TA	63.7 (85) @ 2200	20.2 L/h	Lesser regulated
3	Electric motor	22 (30) @ 1450	-	IEC IE3
4	Perkins 403J-E17T	25.3 (34) @ 2000	7.0 L/h	EU Stage V
5	Perkins 404J-E22TA	51.3 (69) @ 2200	13.4 L/h	EU Stage V



## Open skidbase

Motor details	IEC 60034-30-1 22kW IE3
Noise @ 7 m (23 ft)	62 dBA
Voltage / Frequency / Phase	400 v / 50 Hz / 3 Phase
Full load current	38 A
Weight	790 kg (1,742 lb)
Dimensions (L x W x H)	1800 x 960 x 1525 mm (71 x 38 x 60 in)



## Sound attenuated enclosure

	Perkins 404D-22T	Perkins 404J-E22TA
Emissions rating	Lesser regulated	EU Stage V
Noise @ 7 m (23 ft)	65 dBA	63 dBA
Fuel capacity	178 L (47 US gal) - Useable	208 L (55 US gal) Useable
Weight dry	1,325 kg (2,921 lb)	1,525 kg (3,362 lb)
Weight wet	1,480 kg (3,263 lb)	1,725 kg (3,803 lb)
Dimensions (L x W x H)	2,295 x 970 x 1,845 mm (90 x 38 x 73 in)	2,475 x 970 x 1,865 mm (97 x 38 x 73 in)