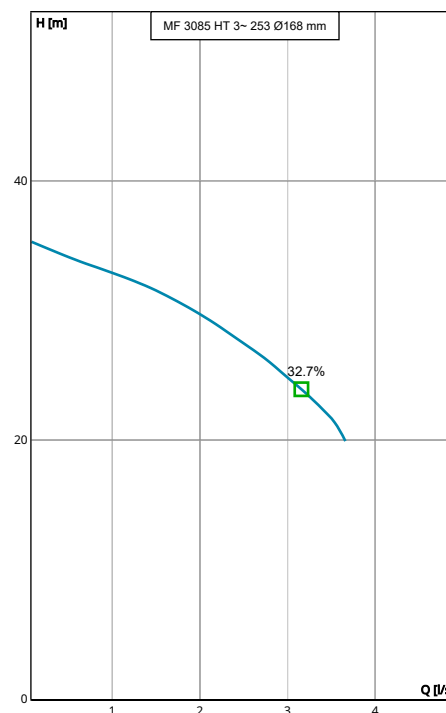


MF 3085 HT 3~ 253 | Configuration Summary



The Flygt M 3000 grinder pumps are high-performing submersible, centrifugal pumps with axial cutters. Excellent for pumping wastewater in residential, commercial and agricultural applications. These grinder pumps reduce waste content to fine slurry, pumped through small-diameter pipes.



Curve: ISO 9906

Nominal (mean) data shown. Under- and over-performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flygt representative for additional performance guarantees.

GENERAL

Explosion Proof	Impeller Diameter
No	168 mm
Max. Pumped Media Temp.	
40 °C	

MATERIAL AND COATING

Impeller Material	Stator Cover Material
Grey Cast Iron	Grey Cast Iron
Volute Material	
Grey Cast Iron	

MOTOR

Rated Voltage	Motor Efficiency Class
415 V	Standard
Coupling	Rated Power
Y	2.4 kW

INSTALLATION

Installation Type
F - Freestanding Semi-Permanent, Wet

MF 3085 HT 3~ 253 | Product Details

Description

M 3085

Hard Working, Heavy-Duty Grinder Pump

The Flygt M 3085 grinder pump is a high-performing submersible, centrifugal pump. Excellent for pumping wastewater in residential, commercial and agricultural applications. The grinder pump reduces waste content to fine slurry, pumped through small-diameter pipes. The main application for Flygt M 3085 is pressurized sewage systems that are generally used when flat land, uphill topography, surface rock and high water tables pose tough challenges for conventional gravity systems. Whether you need a single grinder pump, a complete pump station or an entire wastewater system, Xylem offers a smart and economical delivery of wastewater to the nearest pump station or sewer main.

Reliable Operation

The M 3085 is engineered to meet the challenges of a wastewater system. It comes equipped with a unique impeller for optimum hydraulic efficiency and a heavy-duty cutting device, which grinds solids into small particles for easy transport through small-diameter pipes.

All components are specially designed and manufactured to optimize operation and prolong pump service life.

- Double mechanical seal system. Two sets of mechanical shaft seals work independently to provide double security. They are available in Tungsten carbide (WCCR) or Silicone carbide (SiC) depending on pumped media.
- Made of robust and durable cast iron
- Spin-out outer seal protection design that protect seals from abrasive particles
- Motor cable SUBCAB® specially developed for submersible use

Product Features

- Use for heavy-duty shredding applications
- Non-clogging design
- Reliable operation
- Heavy-duty cutting device

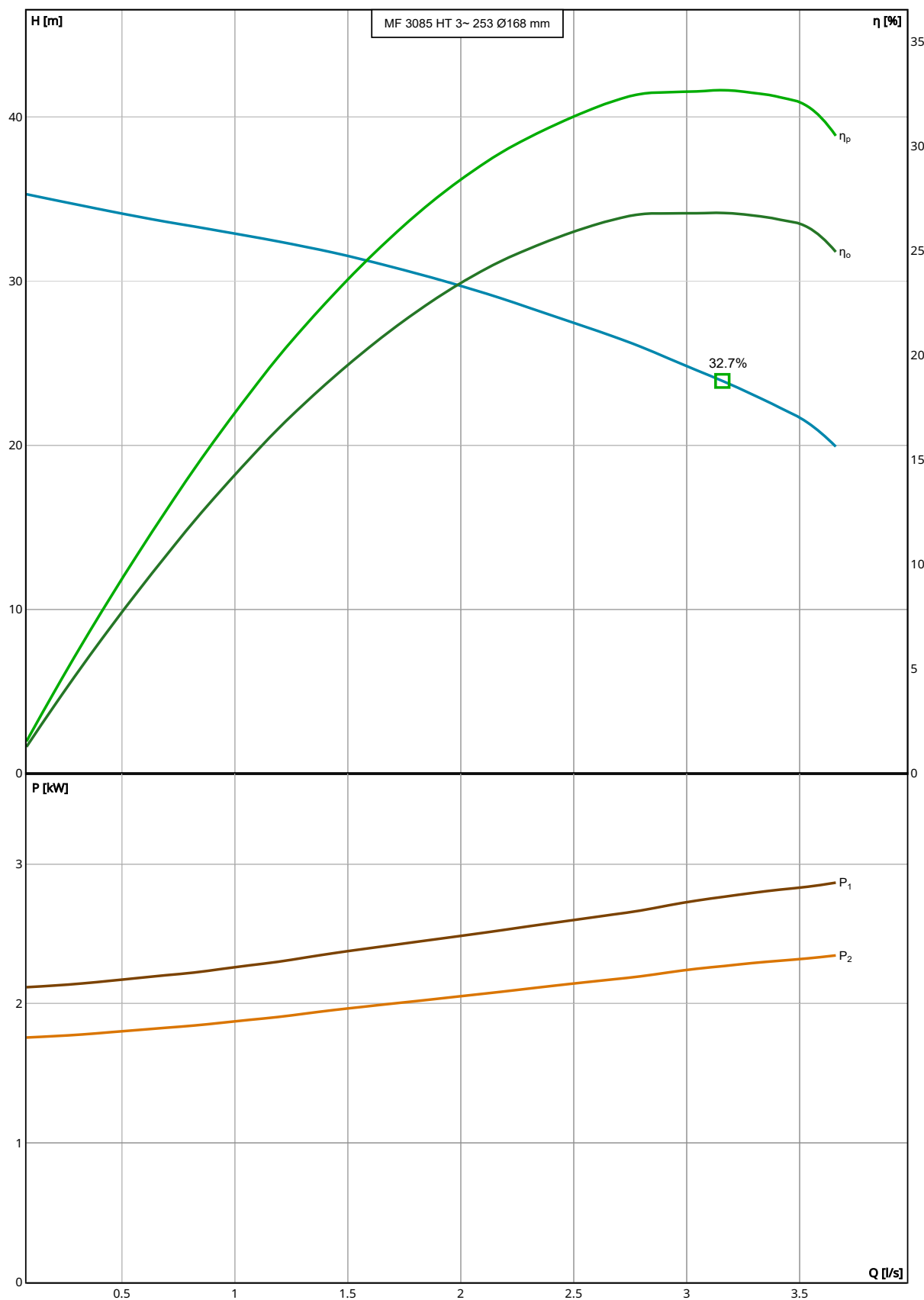
Construction Materials

Impeller Material	Volute Material	Stator Cover Material
Grey Cast Iron	Grey Cast Iron	Grey Cast Iron

Motor

Rated Power	Number Of Phases	Start Current Ratio	Motor Issue
2.4 kW	3	6.61	11
Motor Denomination	Rated Motor Speed	Insulation Class	Locked Rotor Code
15-09-2AL	2,855 RPM	H	H
Motor Efficiency Class	Rated Voltage	Approval	Max starts per hour
Standard	415 V	STD	30
Version Code	Rated Current	Total moment of inertia	Power Factor 100%
172	4.5 A	0.01 kgm ²	0.92
Frequency	Start Current	Type of duty	Power Factor 75%
50 Hz	30 A	S1	0.89
Max P2 (1x)	Starting Current, Direct Starting	Stator Variant	Power Factor 50%
2.35 kW	30 A	31	0.83
Number Of Poles	Starting Current, Star Delta	Motor Module	Efficiency 100%
2	10 A	126	80.6 %
			Efficiency 75%
			81.9 %
			Efficiency 50%
			80.8 %
			Cooling Jacket
			-

MF 3085 HT 3~ 253 | Hydraulic Data & Performance Curve



Curve: ISO 9906

Nominal (mean) data shown. Under- and over-performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flygt representative for additional performance guarantees.

Selection

Series	Number Of Vanes
M 3000	6
Name	
MF 3085 HT 3~ 253	
Frequency	
50 Hz	
System Type	
Single Pump	
Operating Pumps	
1	
Standby Pumps	
No Standby Pump	
Curve Code	
253	
Impeller Diameter	
168 mm	
Inlet Diameter	
40 mm	
Outlet Diameter	
40 mm	

Fluid and Operating Conditions

Fluid Type	Density
Water	1,000 kg/m ³
Fluid Temperature	Dynamic Viscosity
4 °C	0.002 Pa·s
Specific Gravity	Fluid Vapor Pressure
1	8.14 mbar
	Atmospheric Pressure
	1,013.53 mbar
	Elevation
	0 m
	Ambient Temperature
	20 °C
	NPSH Available
	10.27 m
	Submergence
	0 m

Design Curve

Rated Speed	BEP Flow
50 Hz	3.16 l/s
Max Flow	BEP Head
3.66 l/s	23.92 m
H@QMin	Max P2
35.3 m	2.35 kW
H@QMax	
19.92 m	
BEP	
32.68 %	

MF 3085 HT 3~ 253 | Dimensional Data & Drawing

