



## Pumpright - Pump 80MF

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### Description

The pump system consists of a centrifugal pump and a separator, which enables air to be separated from the liquid and be sucked by a vacuum pump - making automatic priming possible. Even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the PAS MF range is also suitable for pumping liquids with solids in suspension.

### Benefits

- **Pump High efficiency** - 68% (B.E.P.)
- **Rapid "dry" priming** - Up to a height of 7,5 m (24.6 ft)
- **High resistance** - To abrasive liquids and turbid sandy waters
- **Semi-open impeller** - Solids handling up to 40 mm (1.6")
- **Diaphragm vacuum pump** - Oil free suitable for dry running: no contamination of the environment
- **Mechanical shaft seal in oil bath** - It allows the "dry running" operation of the pump
- **Wear plate** - Cast iron (G10 rubber lined) or stainless steel wear plate, that is easily replaceable
- **Easy maintenance** - Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.



# PAS 80MF 202 FHT44 CNP

## Performance curves

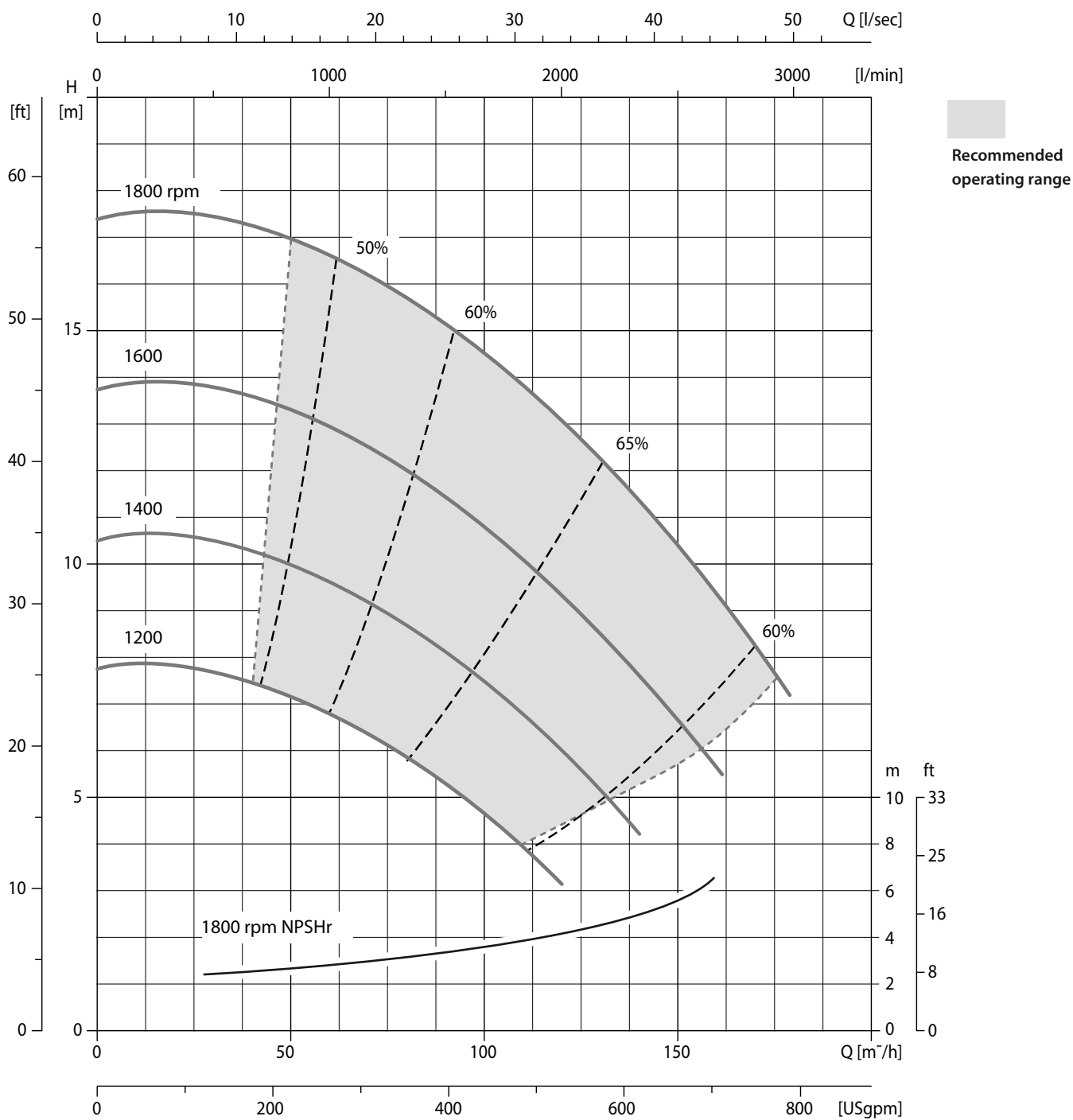
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density  $1,000 \text{ kg/m}^3$

Losses from priming system and check valve not included

Spherical solids handling: D.40 mm (1.6")

Max absorbed power: 7 kW (1.800 rpm)



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## Technical data

### Pump

Model	PAS 80MF	
Qmax	170 m³/h - 2.835 l/min (748 USgpm)	
Hmax	17 m (55 ft)	
Q max eff.	125 m³/h - 2.085 l/min (550 USgpm)	
Eff. max	65 %	
Suction port	Flanged - DIN 100	
Delivery port	Flanged - DIN 100	
Impeller type	Semi-Open, 2 vane	
Solids handling	40 mm (1.6 ")	
Material	G10	F10
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-500 ductile iron	CF8M stainless steel
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel
Number of plates	2	2
Shaft	39NiCrMo3 steel	SAF 2205 stainless steel
Mechanical seal	Tungsten carbide / Tungsten carbide	Tungsten carbide / Tungsten carbide
Elastomers	VITON	VITON

### Priming system

Vacuum pump	V20
Vacuum pump type	Diaphragm
Nominal air capacity	50 m³/h (29.4 cfm)
Max vacuum	0,9 bar
Separator type	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

### Engines

Make	Hatz		
Model	2G40 (HT44)		
Type	Diesel direct injection, aspirated		
Displacement	997 cm³ (61 in³)		
No. cylinders	2		
Cooling	Air		
Rpm type	Variable		
Standard speed	1.800 rpm		
EU emissions	2002/88/CE Stage V		
Starting	Electric		
Starting voltage	12 V		
Speed [rpm]	1400	1600	1800
Consumption [l/h]	1,4	1,8	2,3
Power [kW]	5	6,4	8,6
Power [HP]	6.8	8.5	11.5

### Control panel

Model	PW250 (PW1)
	Manual operation
	Automatic operation: start-stop with floats
	Digital display with 6 languages (IT,EN, FR, DE, ES, PT) with:
	Hour meter, Rev counter,
	Battery voltmeter, Fuel level (%)
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- low battery voltage
	(engine failure alarms with LED lights and display message)
	Emergency stop button
	Throttle rod
	(PW1 FleetLink control as option)

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## Arrangements

Technical data	
Material	S235JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Thermaright white
Features	Steel base. Hot dip galvanised steel skid.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	200 l (52.8 USG)
Optional supply	(External fuel coupling as option)
Drip pan	220,0 l (58.1 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

### CNP PAS 80MF



Dimensions	1170 x 1860 x 1480 mm 46 x 73 x 58 "
H suction port	0,7 m (2.3 ft)
Dry weight (HT44)	900 kg (1,980 lb)
Noise level	65-70 dB(A) @10 m (32 ft)