

# PAC F44 KD 49HP FT4

Diesel - Qmax 1,320 USgpm - Hmax 152 ft



Indicative picture of the product

## PAC Flow series

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 feet the machine rapidly evacuates the air from the suction pipe and starts to pump. The PAC range is also suitable for pumping liquids with solids in suspension with best possible efficiency.

## Applications

The PAC F44 Atlas Copco pump is designed to withstand toughest applications and delivers best in class pumping efficiency. One of the most common area of utilization is the mining and Oil & Gas segment where reliability, efficiency and versatility is the key to provide a customized solution. Other suitable applications within Construction and General dewatering, Municipal as well as General Industry are ideal for the PAC F44 pump Atlas Copco pumps are packed with features that not only meet, but exceed the needs of our customers.

## Benefits

### Efficiency

The 10" impeller with 73% efficiency at B.E.P. provides best pumping result with minimal efforts

### Solids handling

Closed impeller type with solids handling capability of 3" for trouble free operation

### Easy maintenance

Hinged cover for direct access to the impeller and pump volute

### Polyethylene Fuel tank

Corrosion-free PE tank provides longer lifetime and avoids tank cleaning due to oxidation

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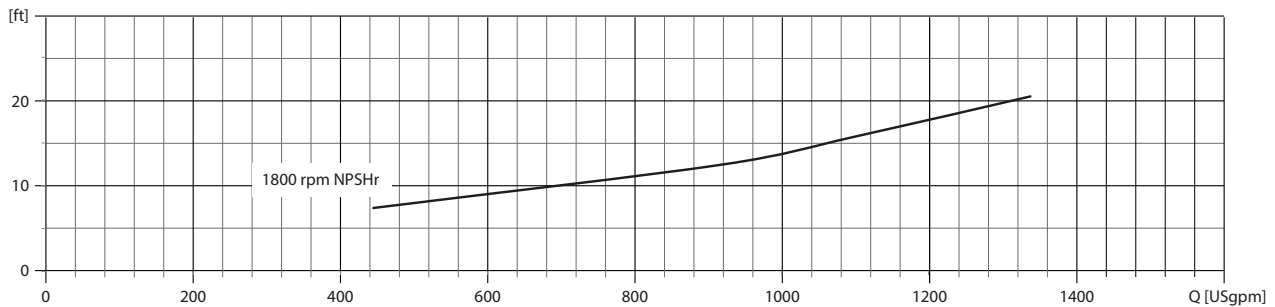
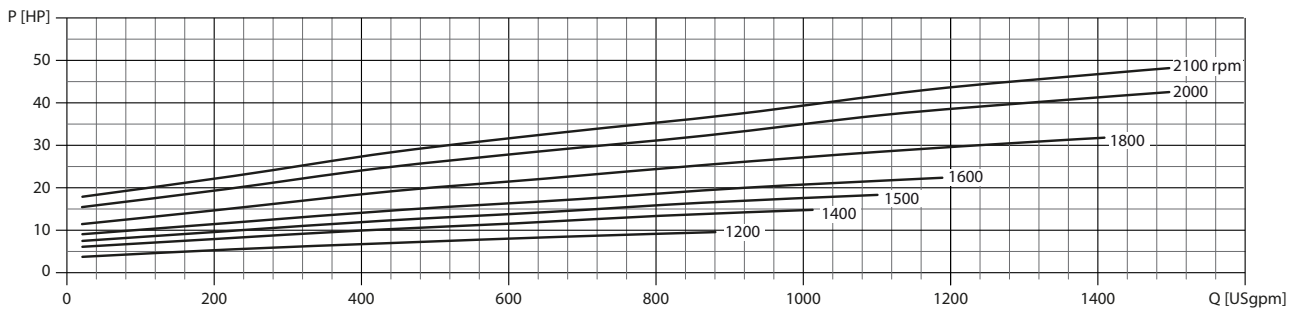
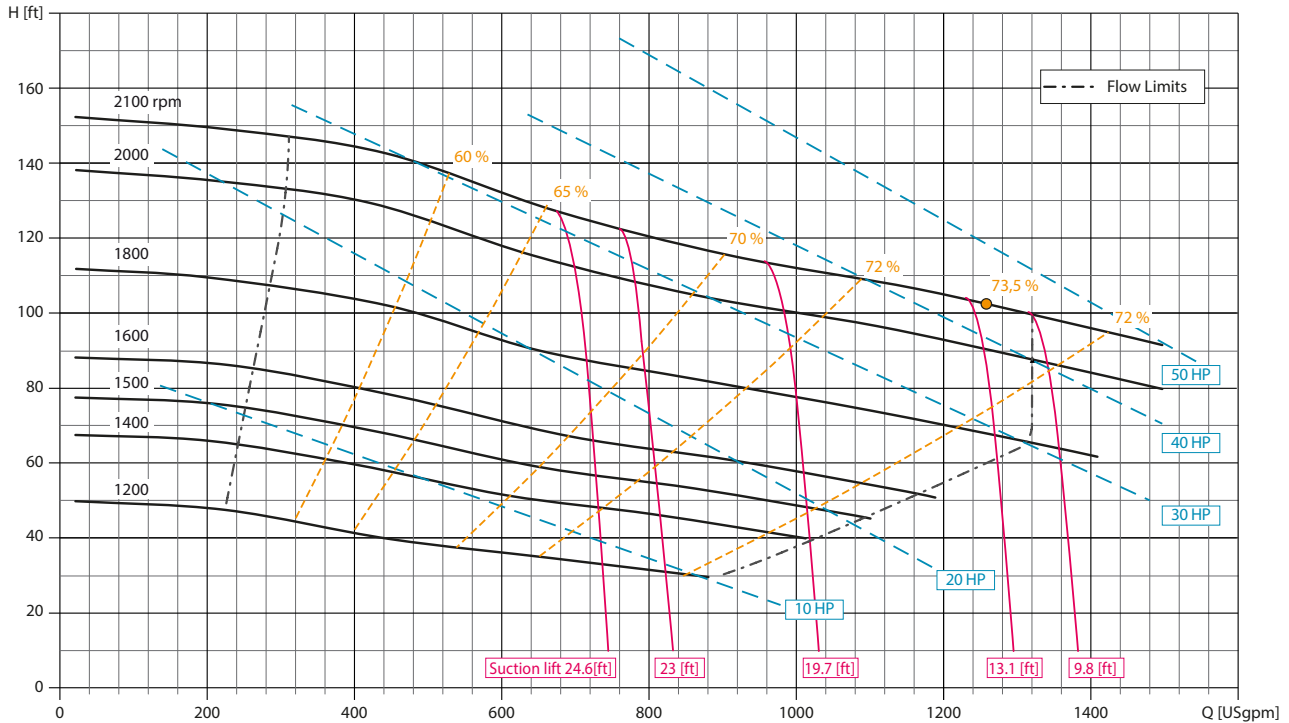
## Performance curves

Test according to UNI EN ISO 9906 standard - level 2B

Losses from priming system and check valve not included

Test liquid: clean water, density 62.43 lb/ft<sup>3</sup> (8.345 lb/gal)

Speed	Impeller Dia.	Style	Solids Dia.	Ns	Suction	Discharge	No. Vanes
Various	10" / 255 mm	Closed	3" / 76 mm	2100 rpm	4" / 100 mm	4" / 100 mm	2



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## Technical data

### Pump

Model	PAC F44
Qmax	1,320 USgpm
Hmax	152 ft
Q max eff.	1,250 USgpm
Eff. max	73,5 %
Suction port	4" Flange - ANSI class 100
Delivery port	4" Flange - ANSI class 100
Impeller type	Closed, 2 vane
Impeller diameter	10"
Solids handling	3"
Material	
Casing	ASTM A536 ductile iron
Impeller	ASTM A536 ductile iron
Wear ring	ASTM A48 Class 20 grey iron
Wear plate	ASTM A48 Class 20 grey iron
Shaft	AISI 630 stainless steel
Mechanical Seal faces	Silicon carbide / Silicon carbide / VITON
Elastomers	NBR + VITON
Lubrication	Grease (bearings)
Check Valve	ASTM A536 ductile iron + NBR rubber flap
Separator	Aluminium alloy

### Priming system

Vacuum pump	
Vacuum pump type	Diaphragm
Nominal air capacity	50 cfm
Max vacuum	- 26.6 inHg
Drives	Link belt

### Engine

Make	Kohler
Model	KDI 1903TCR
Type	Diesel turbo common rail
Displacement	114 in <sup>3</sup>
No. cylinders	3
Cooling	Liquid with radiator
Rpm type	Variable
Max operating speed	2100 rpm
US emissions	EPA Tier 4F
Starting	Electric
Engine system voltage	12 V
Engine power rating	49 HP

### Control panel

Model	PW 1000
	Manual operation
	Automatic operation: start-stop with transducers or floats
	MC4+ Telematics

### Arrangement

Technical data	
Material	ASTM A36 steel
Coatings	Epoxy powder, average thickness of 3 MIL
Features	Lifting beam. Pump access through hinged door. PE fuel tank.
Battery	Acid charge Pb-Ca maintenance free, 12V - 1100 CCA
Fuel tank capacity	90 USG
Fuel consumption	1.8 US Gal/hr @2100 rpm @BEP
Dry weight	3152 lbs
Wet weight	3782 lbs

## Dimensional drawing

