

# 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

Product Reference - 8972824031

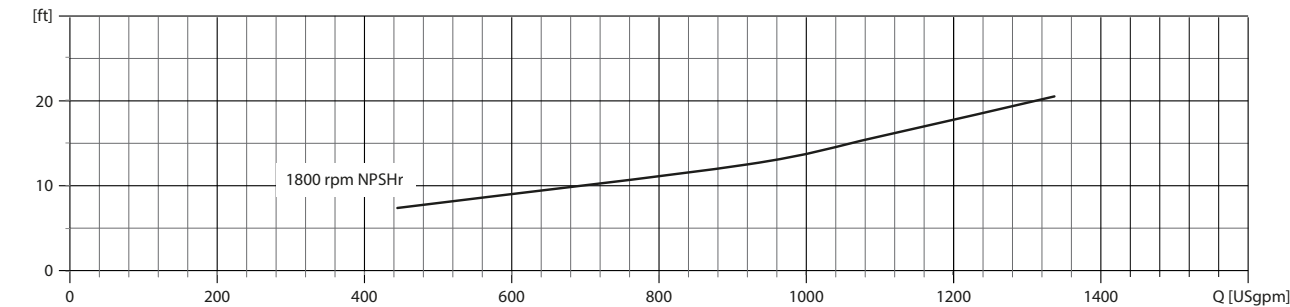
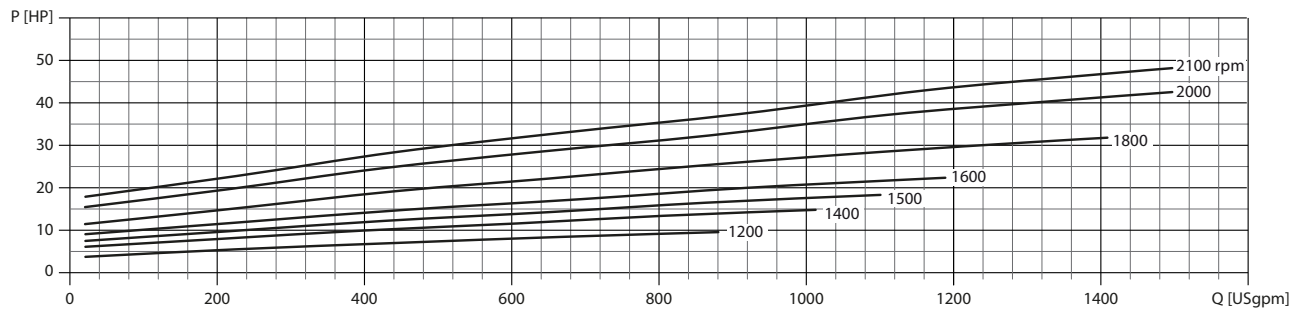
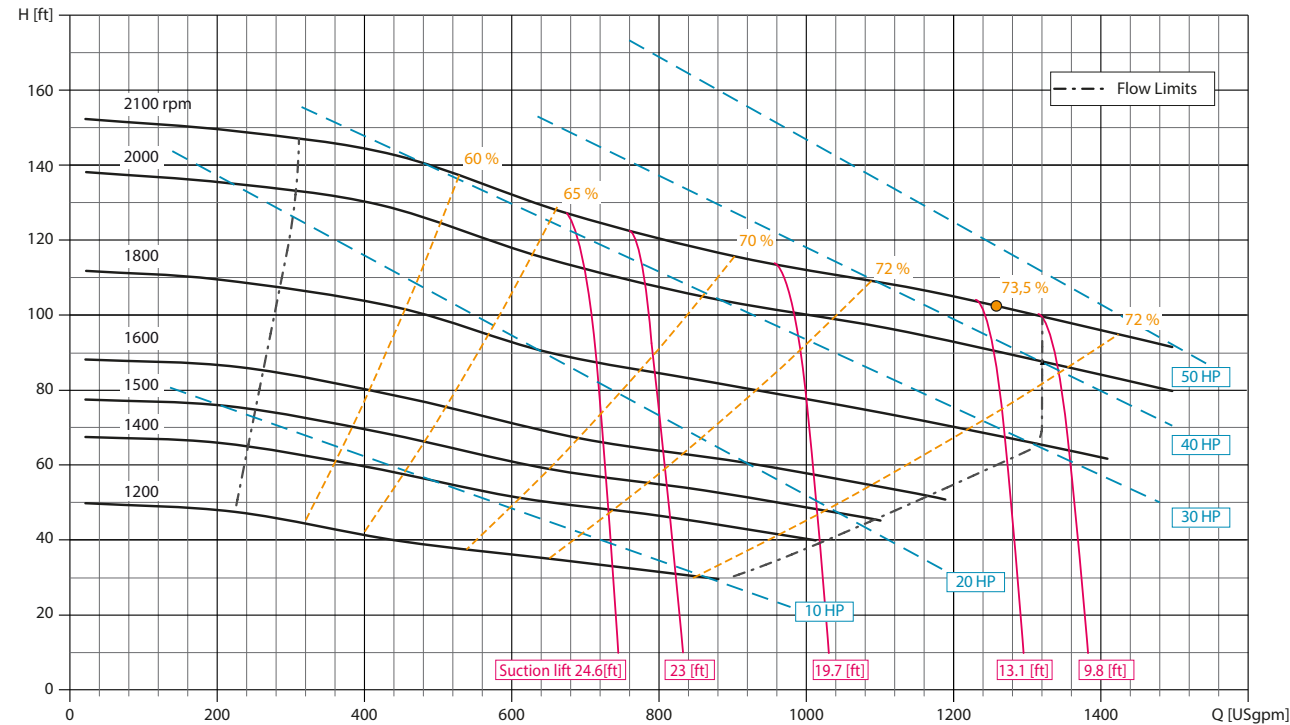
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## Performance curves

Test according to UNI EN ISO 9906 standard - level 2B  
Test liquid: clean water, density 62.43 lb/ft3 (8.345 lb/gal)

Losses from priming system and check valve not included

| 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

[in]

