

# PAC F88 PD-S 120HP FT4

Diesel - Qmax 3,950 USgpm - Hmax 200 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 F88 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 F88 pump. Atlas Copco pumps are packed with features that not only meet, but exceed the needs of our customers.

## Benefits

### Efficiency

The 12" impeller with 82% 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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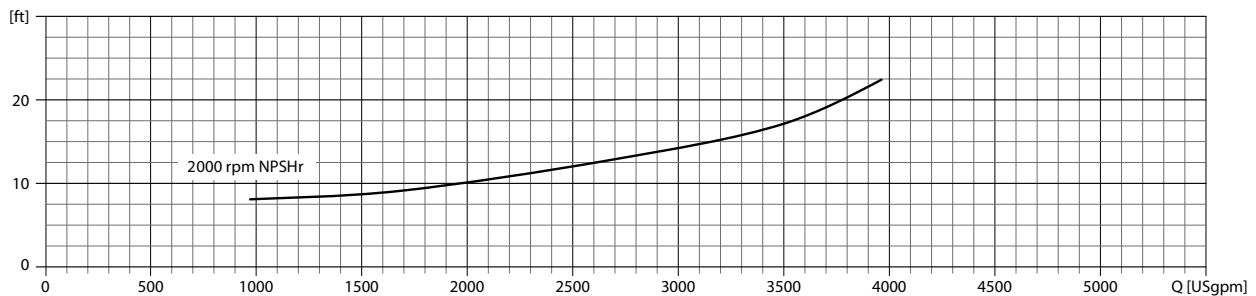
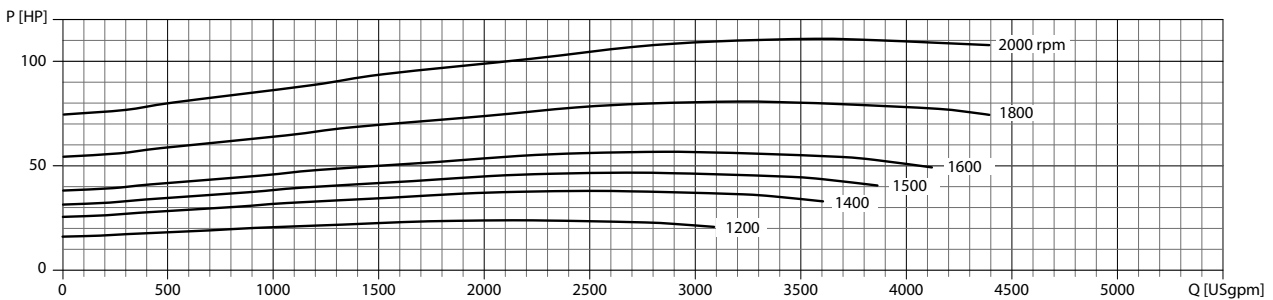
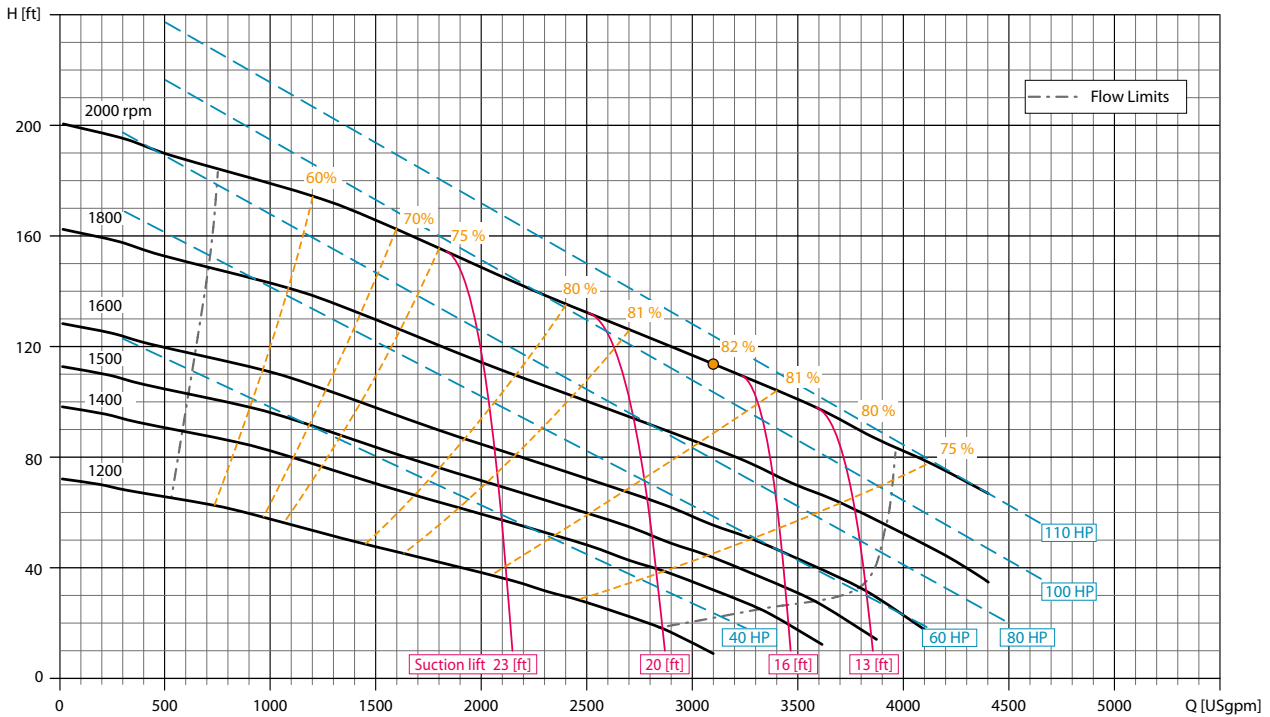
## Performance curves

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

Test liquid: clean water, density 62.43 lb/ft<sup>3</sup> (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 | 12" / 315 mm  | Closed | 3" / 76 mm  | 2000 rpm | 8" / 200 mm | 8" / 200 mm | 2         |



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## Technical data

### Pump

| Model                 | PAC F88                                   |
|-----------------------|---|
| Qmax                  | 3,950 USgpm                               |
| Hmax                  | 200 ft                                    |
| Q max eff.            | 3,100 USgpm                               |
| Eff. max              | 82 %                                      |
| Suction port          | 8" Flange - ANSI class 150                |
| Delivery port         | 8" Flange - ANSI class 150                |
| Impeller type         | Closed, 2 vane                            |
| Impeller diameter     | 12"                                       |
| 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                  | Perkins                  |
|-----------------------|--------------------------|
| Model                 | 904J-E36TA               |
| Type                  | Diesel turbo common rail |
| Displacement          | 221 in <sup>3</sup>      |
| No. cylinders         | 4                        |
| Cooling               | Liquid with radiator     |
| Rpm type              | Variable                 |
| Max operating speed   | 2000 rpm                 |
| US emissions          | EPA Tier 4F              |
| Starting              | Electric                 |
| Engine system voltage | 12 V                     |
| Engine power rating   | 120 HP                   |

### Control panel

| Model | PW 1000  |
|-------|--|
|       | Manual operation   |
|       | Automatic operation: start-stop with transducers or floats |
|       | FleetLink Optional   |

### Arrangement

| Technical data     |   |
|--------------------|---|
| Material           | ASTM A36 steel  |
| Coatings           | Epoxy powder, average thickness of 3 MIL  |
| Features           | Lifting beam. Fork lift pockets. 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   | 5.2 US Gal/hr @2000 rpm @BEP  |
| Dry weight         | 4,950 lbs   |
| Wet weight         | 5,580 lbs   |

## Dimensional drawing

[in]

