PAC F66 E 75HP

Qmax 2,640 USgpm - Hmax 166 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 F66 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 F66 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 79% 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

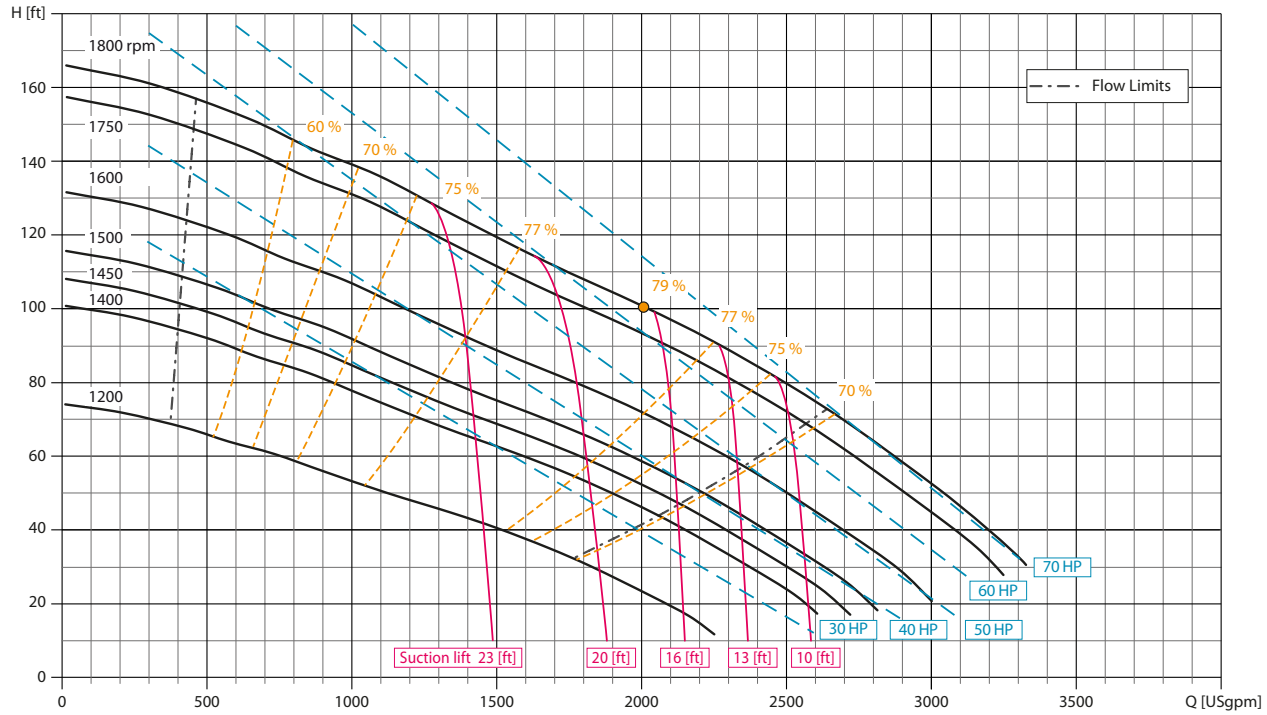
PAC F66 E 75HP

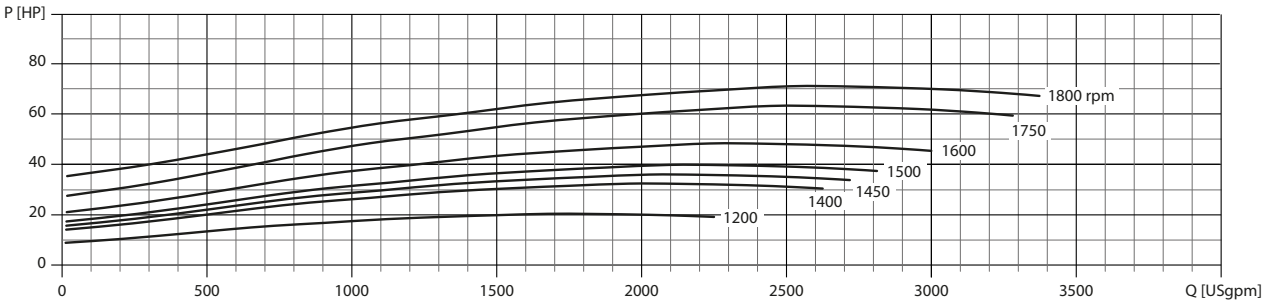
Performance curves

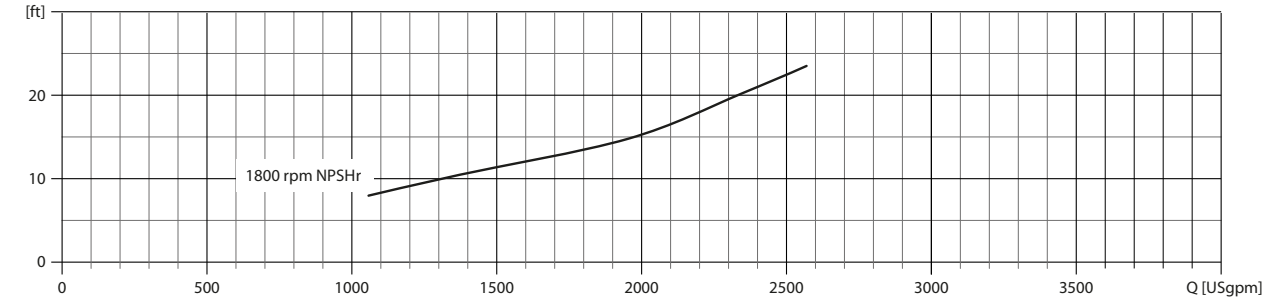
Test according to UNI EN ISO 9906 standard - level 2B
Test liquid: clean water, density 62.43 lb/ft3 (8.345 lb/gal)

Losses from priming system and check valve not included

Speed	Impeller Dia.	Style	Solids Dia.	Ns	Suction	Discharge	No. Vanes
Various	12" / 315 mm	Closed	3" / 76 mm	1800 rpm	6" / 150 mm	6" / 150 mm	2







PAC F66 E 75HP

Technical data

Pump

Model	PAC F66
Qmax	2,640 USgpm
Hmax	166 ft
Q max eff.	2,010 USgpm
Eff. max	79 %
Suction port	6" Flange - ANSI class 150
Delivery port	6" Flange - ANSI class 150
Impeller type	Closed, 2 vane
Impeller diameter	12"
Solids handling	3"

Material	Standard	Stainless Steel (option)
Casing	ASTM A536 ductile iron	CD4MCu
Impeller	ASTM A536 ductile iron	CD4MCu
Wear ring	ASTM A48 Class 20 grey iron	PTFE
Wear plate	ASTM A48 Class 20 grey iron	AISI 316L stainless steel
Shaft	AISI 630 stainless steel	AISI 630 stainless steel
Mechanical Seal faces	Silicon carbide / Silicon carbide / VITON	Silicon carbide / Silicon carbide / VITON
Elastomers	NBR + VITON	VITON
Lubrication	Grease (bearings)	Grease (bearings)
Check Valve	ASTM A536 ductile iron + NBR rubber flap	AISI 316 stainless steel + Viton flap
Separator	Aluminium alloy	AISI 316 stainless steel

Motor

Make	WEG
Type	Three Phase Induction
Cooling method	IC411 - TEFC
No. poles	4
Tension supply	460 V
Frequency	60 Hz
Rated power	75 HP
Rated speed	1,783 rpm
Rated current	116 A
Efficiency class	W22 NEMA premium efficiency
Max efficiency	IPW55
Protection rating	F
Insulation class	Continuous - S1
Thermal protection	95,4 %
Duty cycle	Thermistors 2 Wires - 311degF

Priming system

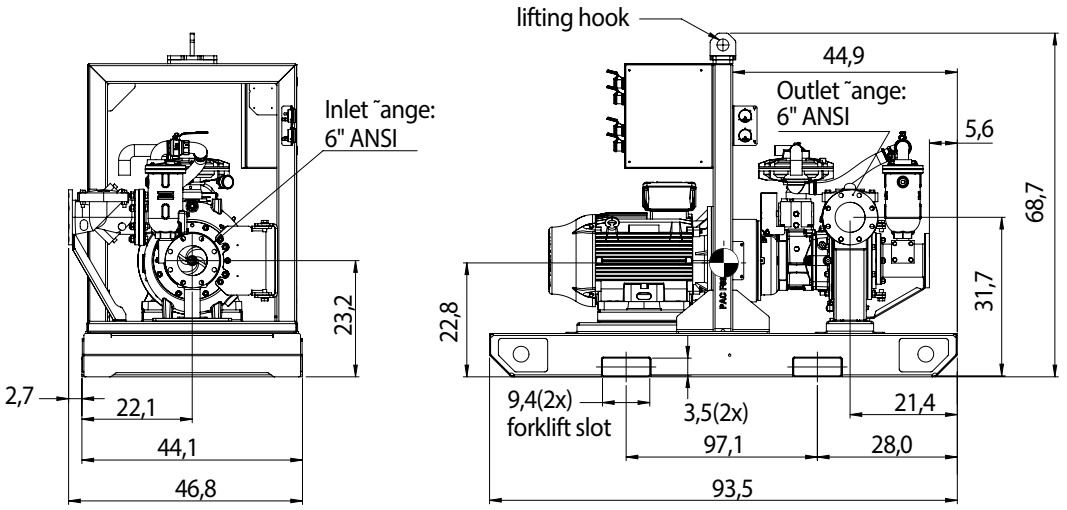
Vacuum pump	
Vacuum pump type	Diaphragm
Nominal air capacity	50 cfm
Max vacuum	- 26.6 inHg
Drives	Link belt

Arrangement

Technical data	
Material	ASTM A36 steel - Frame, supports and Lifting Beam
Coatings	Epoxy powder, average thickness of 3 MIL
Features	Lifting beam. Fork lift pockets. Pump access through hinged door. 4 x 400 amp male cam-lok receptacle.
Dry weight	3415 lbs

Dimensional drawing

[in]



DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: WEG BENELUX S.A.
Product line	: W22 Tru Metric - IE3 NemaPremium Efficiency (Derating)

Frame	: 250S/M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35T
Duty cycle	: S1	Rotation¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight³	: 1144 lb
Protection degree	: IPW55	Moment of inertia (J)	: 26.3 sq.ft.lb
Design	: N		

Output		75 HP (55 kW)	75 HP (55 kW)	75 HP (55 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		460 V	380 V	415 V
Rated current		85.1 A	102 A	95.2 A
L. R. Amperes		698 A	714 A	762 A
LRC		8.2 x Code J	7.0 x Code G	8.0 x Code J
No load current		33.0 A	33.0 A	37.0 A
Rated speed		1785 rpm	1475 rpm	1483 rpm
Slip		0.83 %	1.67 %	1.13 %
Rated torque		299 Nm	362 Nm	360 Nm
Locked rotor torque		290 %	220 %	270 %
Pull up torque		200 %	160 %	200 %
Breakdown torque		310 %	240 %	300 %
Service factor		1.25	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level²		68.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Locked rotor time (hot)		20 s	14 s	14 s
Locked rotor time (cold)		36 s	25 s	25 s
Efficiency (%)	50%	93.6	94.0	94.4
	75%	94.5	94.6	94.6
	100%	95.4	94.6	94.6
Power Factor	50%	0.70	0.75	0.68
	75%	0.80	0.83	0.79
	100%	0.85	0.87	0.85

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	12000 h	12000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 7953 N
Max. compression	: 13044 N
Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

Notes

Standards				
	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

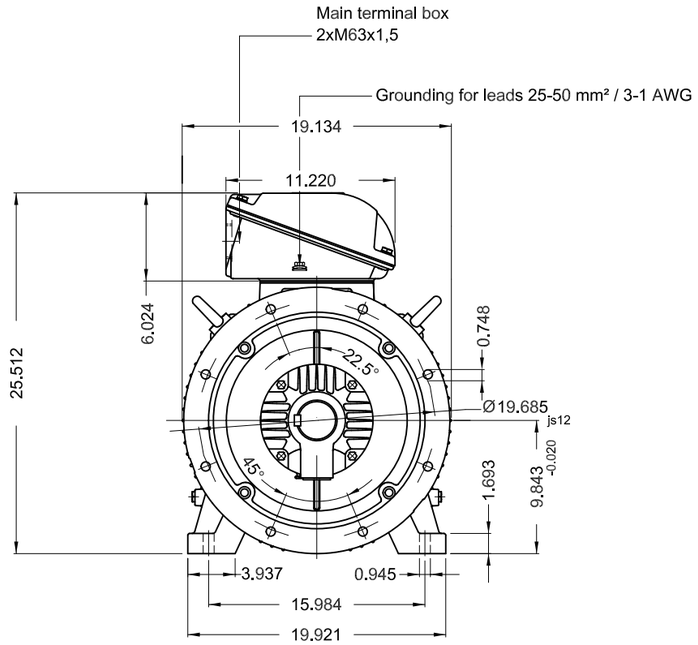
This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

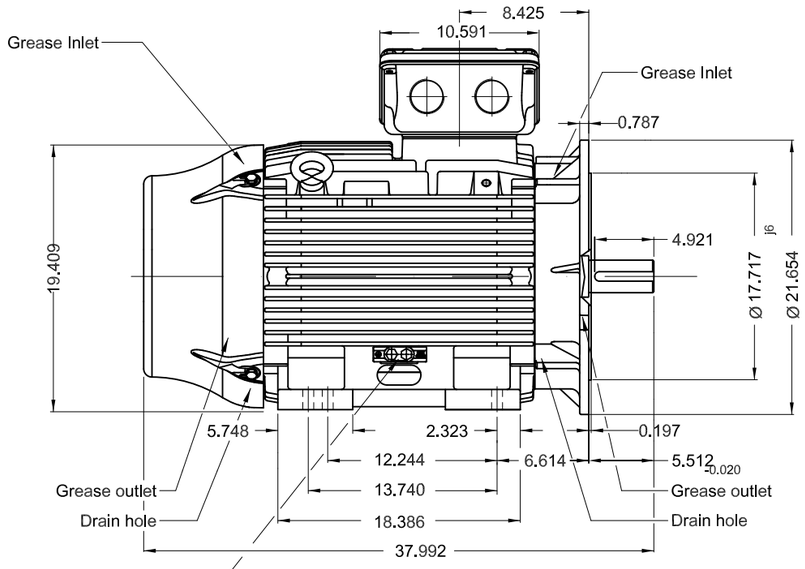
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

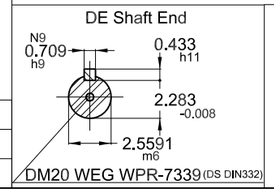
Rev.	Changes Summary	Rev.	Checked	Date

Performed by	weiss		1284939274	
Checked by	AUTOMATICO		Page	Rev.
Date	23/06/2022		1 / 1	0

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Color RAL 5009
Painting plan 203A
Mounting B35T

75 HP 04 Poles 60 Hz | A

WEG BENELUX S.A.

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 IE3	PREVIEW	
CHECKED		FRAME 250S/M IPW55 TEFC	WDD	
RELEASED				
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1	

Dimensions in inches
XME A3

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