

Electric - Qmax 25 m³/h - 416 l/min (110 USgpm) - Hmax 53 m (174 ft)

Code: 8381064157



Indicative picture of the product

Product Data

Suction port

Threaded - 1 1/2" ISO 228 (BSP)

Delivery port

Threaded - 1 1/2" ISO 228 (BSP)

Omax

25 m³/h - 416 l/min (110 USgpm)

Hmax

53 m (174 ft)

Solids handling

11 mm (0.4 ")

Motor power

7,5 kW - 10 HP

Motor type

IEC standard

Winding for inverters

Cast iron frame

Motor brand

WEG W22 Premium

Weight

120 kg

Close-coupled self-priming centrifugal pump with electric motor

Characteristics

The J series self-priming centrifugal pumps are used in applications where a rapid priming capacity is required from demanding suction heights combined with the ability to transfer and manage polluted fluids, dirty and abrasives with suspended large diameter solids. The system is based on an inspectable pump casing which also acts as a water tank allowing a first quick priming without auxiliary systems, simplifying management of the system and reducing the time for maintenance. Within the physically permitted suction height limits, J pumps are a more comfortable and reliable solution than submersible pumps and vertical submersed impeller pumps.

Benefits

1) Rapid self-priming

Without foot valve up to a height of 7.5 m (24.5 ft)

2) High resistance

To abrasive liquids which are turbid and sandy

3) Semi-open impeller

High thickness casting impact resistant

4) Wear plate

Easily replaceable cast iron wear plate, front to the impeller

5) Easy maintenance

Removable front cover for direct access to the impeller

Applications

Industry:

clean, dirty, sandy, muddy, neutral, alkaline, acidic liquids; low viscous petroleum products, solvents even if dirty; milk of lime, caustic soda; washing, cooling, recirculation, smoke scrubbing.

Treatment:

pumping polluted corrosive wastewater containing sand, mud or solids in suspension; dosing neutralizing liquids; pumping out settled sludge.

Naval

loading and unloading; bilge pumping; washing, firefighting, stripping, sanitary duty and circulation.

Agriculture:

surface irrigation; liquid manure oxygenation; transfer and spraying liquid manure or fertilizers; distribution of liquid animal feed; transfer of wine must; washing.

Varisco S.r.I. has certified its Quality, Environment and Safety Management System in accordance with the requirements of the international standard ISO 9001-14001-45001, recognized by the Lloyd Register.



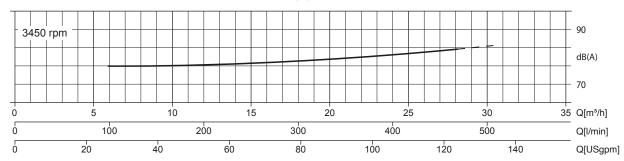
Performance Curves

Test according to UNI EN ISO 9906 standard - level 2B Test liquid: clean water, density 1.000 kg/m³ Spherical solids handling: D.11 mm (0.4 ")

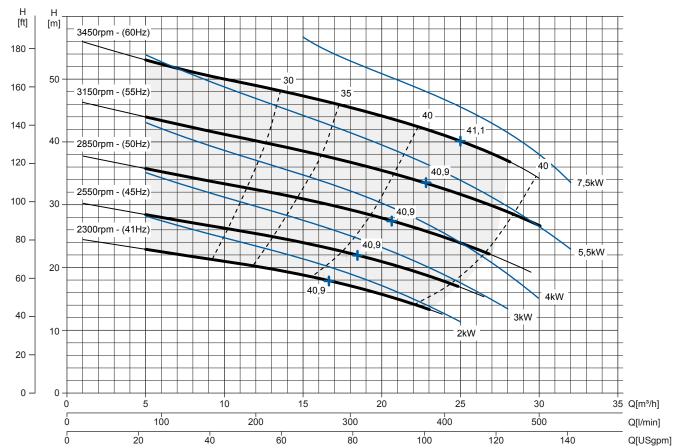
Priming time 3.450 rpm: **26s from 1,5 m (5 ft)**Installed power: **7,5 kW - 10 HP (3450 rpm)**

Noise curve

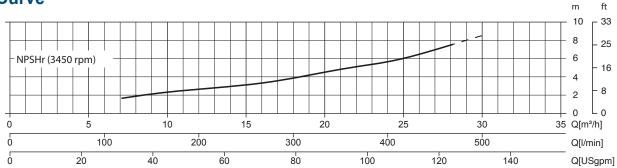
dB(A)=max noise level at 1 m



Multiple speed curve



NPSHr Curve





TECHNICAL DATA

D		m	n
г	u		ν

Pump model	J 1-180 K20
Qmax [3,450 rpm]	25 m³/h - 416 l/min (110 USgpm)
Hmax [3,450 rpm]	53 m (174 ft)
Suction port	Threaded - 1 1/2" ISO 228 (BSP)
Delivery port	Threaded - 1 1/2" ISO 228 (BSP)
Impeller type	Semi-open, 4 vanes
Solids handling	11 mm (0.4 ")
Casing	stainless steel ASTM A351 CF3M
Impeller	stainless steel inox ASTM A351 CF3M
Wear plate	stainless steel ASTM A351 CF3M
Non-return valve	Check-valve, PTFE
Shaft	Stainless steel SAF 2205
Mechanical seal	Silicon carbide / Silicon carbide
Elastomers	PTFE
Lubrication	Grease

Motor

Mains supply (Three-phase)	380 VD/660 VY ± 5%	400 VD/690 VY ± 10%	415 VD	460 VD/800 VY ± 10%	480 VD/830 VY ± 5%
Frequency (Nominal speed)	50 Hz ± 3% / 2.900 rpm		60 Hz ± 3% / 3.450 rpm		
Absorbed current	14,4/8,27 A	14,1/8,18 A	13,9/8,02 A	12,4/7,14 A	12,2/7,05 A
Starting Current Is/In	8	8.5	9	9.4	9.4
Efficiency (100%)	90,1% (IE3)	90,3% (IE3)	90,3% (IE3)	90,2% (IE3)	90,2% (IE3)
Model		\	WEG W22 Premium	1	
Standards			IEC 60034-1		
Construction			cast iron, TEFC		
Mounting arrangement			IM 2001 B35		
No. poles			2		
Rated power			7,5 kW - 10 HP		
Degree of protection			IP55		
Markings			CE, UL, CSA, EAC		
Insulation class/Temperature			F/80°K		
Duty type		Variable - sui	Continuous - S1 itable for inverter us	e (30-60 Hz)	
Temperature sensors		PT	C, available as opti	on	

Arrangement

Model	Close-coupled N
Dimensions	360 x 775 x 428 mm (14 x 30 x 16")
Painting	Polyurethan enamel, average thickness of 100 μm
Color	RAL 5010 blue (standard)
Features	Close-coupled with rigid coupling "N"
Height connection	0.2 m (10")

Options

Flanged ports DN40 PN16 EN1092-1 Type B	cod. 10042789
Flanged ports 1 1/2" ANSI B16.1 Class 125 R.F.	cod. 10042825
Automatic mechanical seal greaser	cod. 10008316
Integrated VSD motor inverter	Available by 2021

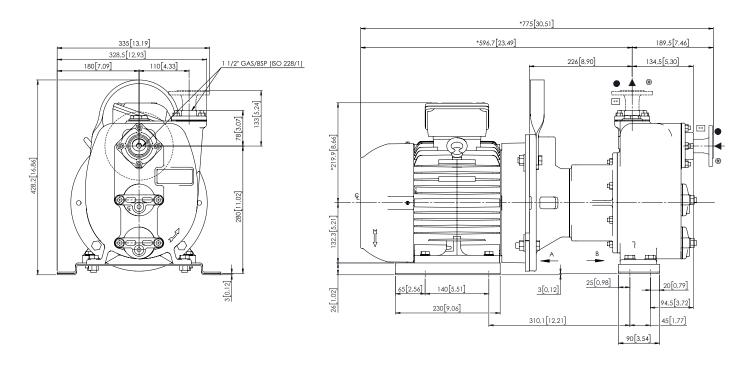
Weigh

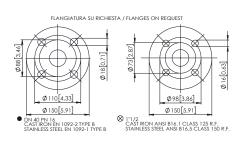
Net weight	120 kg

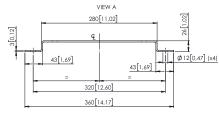


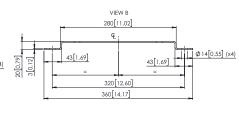
DIMENSIONS

mm [in]









PACKAGING DIMENSIONS

Dimensions

J 1-180 K20 NT22 (L x W x H mm) Gross weight (pump + packing) 720 x 270 x 480 + BOX 127 kg

