Chicago Pneumatic

People.
Passion.
Performance.

Dewatering Solutions

Diesel Pumps

Dewatering Solutions

The Chicago Pneumatic pump range was developed as a result of our over 140 years' experience working with construction customers across the world. Our strategy fits perfectly with pumps. The first focus, of course, is providing efficient products. We strive to develop products that are better for you and better for the environment. Secondly, the products should be easy to take to your point of work. Therefore, we put a huge amount of focus on making products that are smaller and lighter, with features that give them maximum mobility and ease of transport.

FOCUSED ON
5 KEY CRITERIA
FOR *MAXIMUM BENEFITS*

1 COMPACT
Easy to transport features that make it easy to go wherever you need to.

2 VERSATILE
Modular designs that focus on coverage for multiple applications.

3 DURABLE
Tested, performed and verified in the toughest working conditions.

4 EFFICIENT
Reduced fuel consumption. Suitable for any environment.

5 SERVICE
Simple and easy access to all parts and consumables.

MECHANICAL SHAFT SEALS IN OIL BATH
Dry running capability without damaging shaft seals.

ROTARY VANE VACUUM PUMP
For automatic priming. Lubricated with oil recovery system and coalescing filters; no contamination of the environment.

MODULAR DESIGN
Many configurations are possible.

WEAR PLATES
Cast iron rubber wear plates, that are easy replaceable.

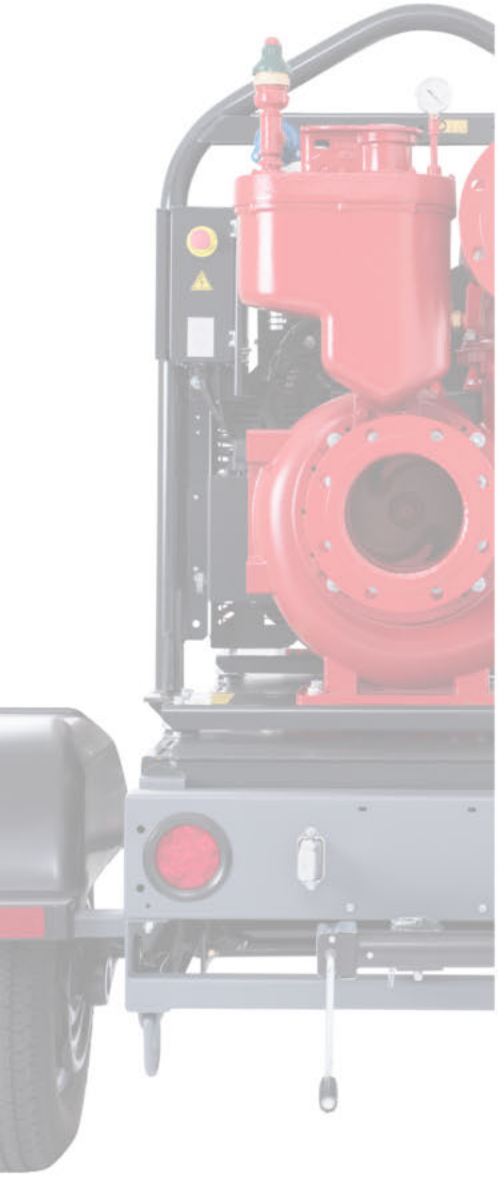
SOLIDS HANDLING
Semi-open impeller for solids handling without the risk of clogging.

HIGH EFFICIENCY HYDRAULIC END
Low fuel consumption.

Vacuum Prime Centrifugal Pumps

CPP medium flow pump range is packed with features that not only meet, but exceed the needs of the market. We are focused on an efficient, extremely versatile pump that is suitable for many industries, including construction, general dewatering and emergency applications, such as flood clean up.

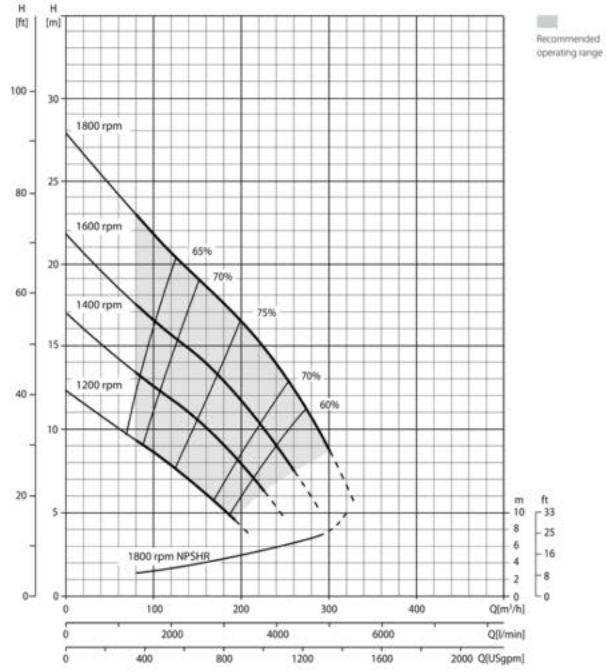
Technical Data



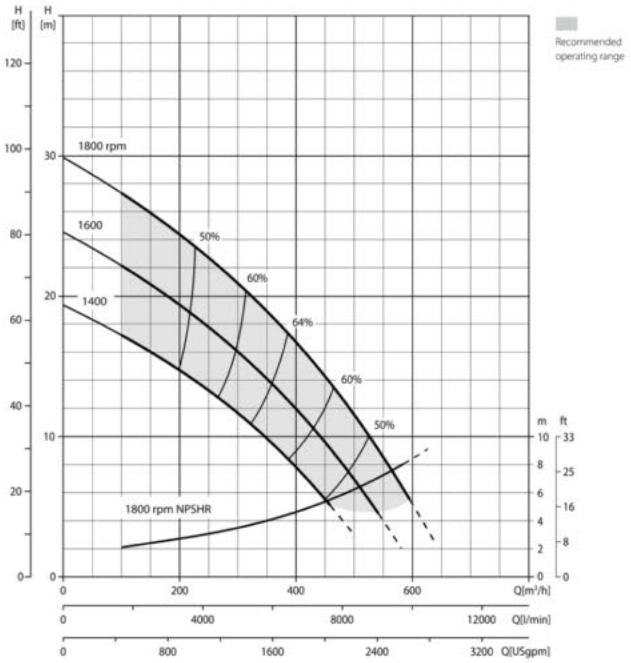
MODEL	CPP6 T4F				CPP8 T4F			
Part no.	8381 0617 15				8381 0617 16			
Qmax	1,320 gpm (300 m³/h - 5.000 l/min)				2,640 gpm (600 m³/h - 10.000 l/min)			
Hmax	91 ft (28 m)				98 ft (30 m)			
Qmax eff.	880 gpm (200 m³/h - 3.330 l/min)				1,600 gpm (370 m³/h - 6.170 l/min)			
Eff. max	75%				64%			
Suction port	Flanged - ANSI 6"				Flanged - ANSI 8"			
Delivery port	Flanged - ANSI 6"				Flanged - ANSI 8"			
Impeller type	Semi-Open, 2 vane				Semi-Open, 2 vane			
Solids handling	2" (50 mm)				3" (76 mm)			
Materials								
Casing	EN-GJL-200 cast iron				EN-GJL-200 cast iron			
Impeller	EN-GJS-400 cast iron				EN-GJS-400 cast iron			
Wear plates	EN-GJL-200 rubber lined cast iron				EN-GJL-200 rubber lined cast iron			
Number of plates	2				1			
Shaft	39NiCrMo3 steel				39NiCrMo3 steel			
Flushing	Yes							
Mechanical seal	Tungsten carbide / Tungsten carbide				Tungsten carbide / Tungsten carbide			
Elastomers	VITON							
Skid Unit Dimensions								
Length x width x height	39" x 80" x 60"				39" x 96" x 67"			
Weight	1,665 lb				2,560 lb			
Trailer Dimensions								
Length x width x height	133.45" x 69.80" x 35.6"				137.05" x 78.21" x 35.9"			
Approx. trailer weight	733.5 lbs				733.5 lbs			
Priming system								
Vacuum pump type	rotary vane				rotary vane			
Nominal air capacity	75 m³/h (44.1 cfm)				75 m³/h (44.1 cfm)			
Max vacuum	13 psi (0.9 bar)				13 psi (0.9 bar)			
Separator type	Simplex				Simplex			
Separator material	EN-GJL-200 cast iron				EN-GJL-200 cast iron			
Drives	Link belt				Link belt			
Engine								
Model	Kohler KDI 1903TCR (KL31)				Kohler KDI 1903TCR (KL31)			
Type	Diesel turbo common rail				Diesel turbo common rail			
Displacement	1.861 cm³ (114 in³)				1.861 cm³ (114 in³)			
No. cylinders	3				3			
Cooling	Liquid with radiator				Liquid with radiator			
Rpm type	Variable				Variable			
Standard speed	1,800 rpm				1,800 rpm			
US emissions	EPA T4F				EPA T4F			
Starting	Electric				Electric			
Starting voltage	12 V				12 V			
Speed [rpm]	1,200	1,400	1,600	1,800	1,200	1,400	1,600	1,800
Consumption [l/h]	5.3	6.7	7.7	8.3	5.3	6.7	7.7	8.3
Power [kW]	21.6	27.7	31.7	33.6	21.6	27.7	31.7	33.6
Power [HP]	29	37.1	42.6	45.1	29	37.1	42.6	45.1

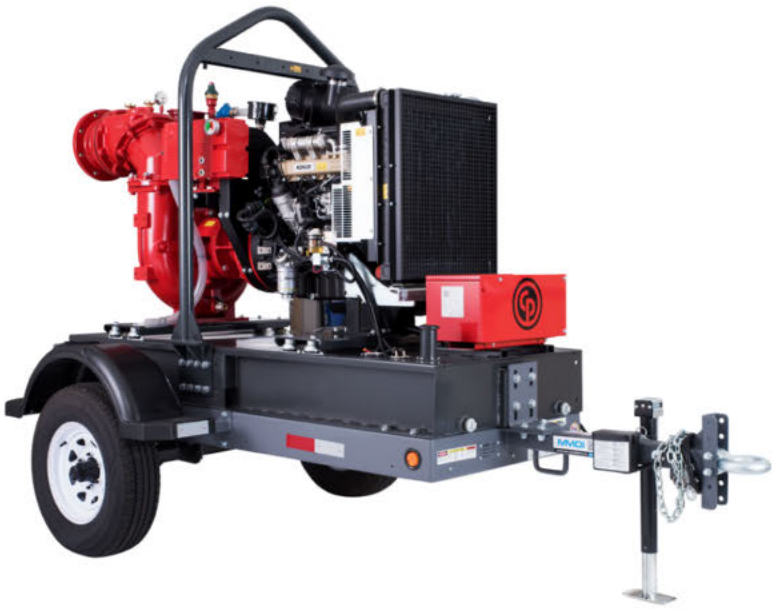
Performance Curves

CPP 6 Pump



CPP 8 Pump





Modular Design

The CPP pump system consists of a centrifugal pump and a air/water separator, which enables air to be separated from the liquid and be sucked by a vacuum pump – making automatic priming possible.

CPP dry prime pumps offer improved efficiency over longer periods of usage. They are best suited for applications where you might experience periods of running dry or intermittent flows.

Even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, the semi-open impeller, makes the CPP range is also suitable for pumping liquids with solids in suspension.

Don't just buy a pump, build a system that is made for you! Modular customization is a feature of our products.

MODULAR DESIGN

WE HAVE THREE DIFFERENT TYPES OF SKIDS AVAILABLE:

Fork lift skid
Fork lift skid with bars
Heavy duty skid

LIFTING SUPPORT MECHANISMS

Find the option which is right for you. A lifting beam comes standard on all dry prime pumps.

NEED THE PUMP ON WHEELS?

No problem, we have the right option for you.

Over 110 Plus Years of Experience

Since 1901 the Chicago Pneumatic name has represented high-performance tools and equipment designed for an extensive range of applications. Today, Chicago Pneumatic has a global reach, with local customer centers around the world. Chicago Pneumatic tools and air compressors are tailored to the needs of the industrial, vehicle service, and construction markets. Every day we develop and manufacture new products that are meant to meet your demands not only today, but tomorrow as well.

For more information contact your CP Partner:

Use only authorised parts. Any damage or malfunction caused by the use of unauthorised parts is not covered by Warranty or Product Liability.

Photos and illustrations contained herein might depict products with optional and/or extra components which are not included with the standard version of the product and, therefore, are not included in a purchase of such product unless the customer specifically purchases such optional/extra components. We reserve the right to change the specifications and design of products described in this literature without notice. Not all products are available in all markets.

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