

# CPWE pumps

Submersible pumps



People.  
Passion.  
Performance.



Chicago  
Pneumatic

# CPWE pumps Submersible pumps

CPWE pumps have evolved from a long history of improvements and are designed be portable, easy, reliable and efficient. They cater to a wide range of dewatering application from mines, process water, municipal and general dewatering. Low weight and high performance becomes a game changer when you have move pumps to multiple



Powerful & portable



Up to 700 gpm



Designed for easy service



Up 15% lighter



High corrosion resistance

locations. This is where CPWE pumps make the difference and become a preferred choice of customers. The modular design helps in servicing the pump with ease. With the inbuilt electrical protections inside a sealed unit, installing the pump is a matter of minutes. These small things make a difference when have to be quick and flexible in the field.

**CPWE  
(SUBMERSIBLE PUMPS)**

**CP  
(PNEUMATIC PUMPS)**



**CPWE D**

**CPWE S**

**CP**



**Media:**  
Water density up to 68.67 lb/cu ft

**Design:**  
Top discharge

**Solid Handling:**  
0.16 - 0.47 inch  
PH values: from 5 to 8

**Media:**  
Water density up to 87.4 lb/cu ft

**Design:**  
Bottom side discharge

**Solid Handling:**  
1-2 inch  
PH values: from 5 to 8

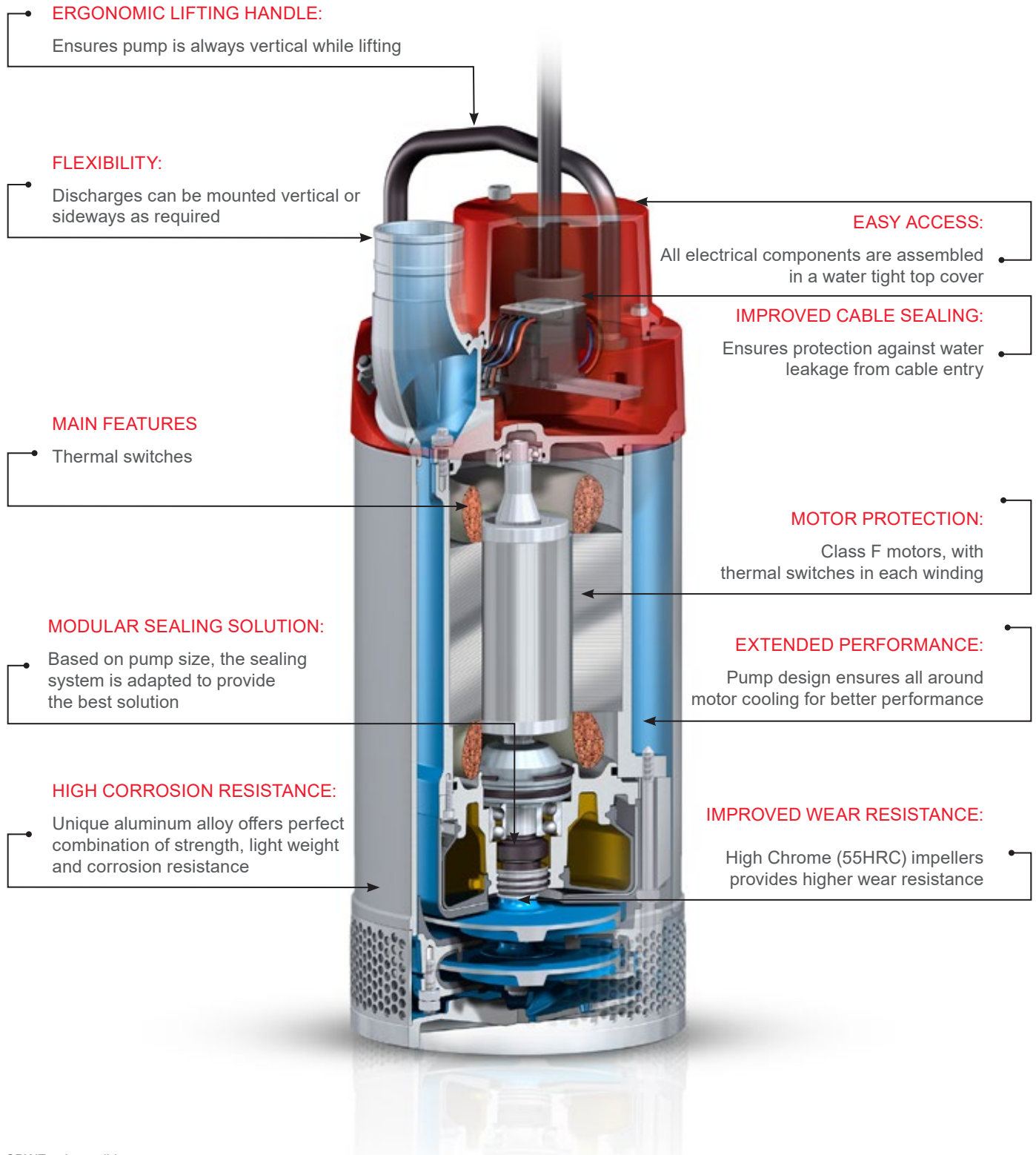
**Media:**  
Abrasive media with high solid content

**Design:**  
Bottom side discharge

**Solid Handling:**  
Up to 1 inch

# CPWE D Pumps – Product features

The CPWE D pumps are designed for drainage applications in tough environments such as mines, construction or tunnels sites.





# CPWE S Pumps – Product features

The CPWE S pumps are designed for pumping water with high content of solids, up to 2 inches of size in hard environments like quarries, mines or tunnel sites.

## ERGONOMIC LIFTING HANDLE:

Ensures pump is always vertical while lifting

## EASY ACCESS:

All electrical components assembled in a water tight top cover

## MOTORPROTECTION:

Class F motors, with thermal switches in each winding

## HIGHER SOLID HANDLING:

Sludge pumps can handle solids upto 50mm

## ROBUST DESIGN:

Base of the pump ensure stability while able to pass large solids.

## IMPROVED CABLE SEALING:

Ensures protection against water leakage from cable entry

## MAIN FEATURES

Thermal switches

## DRY RUNNING CAPABILITIES:

improved rib design offers external cooling to motor for extended running time

## EASY INSPECTION:

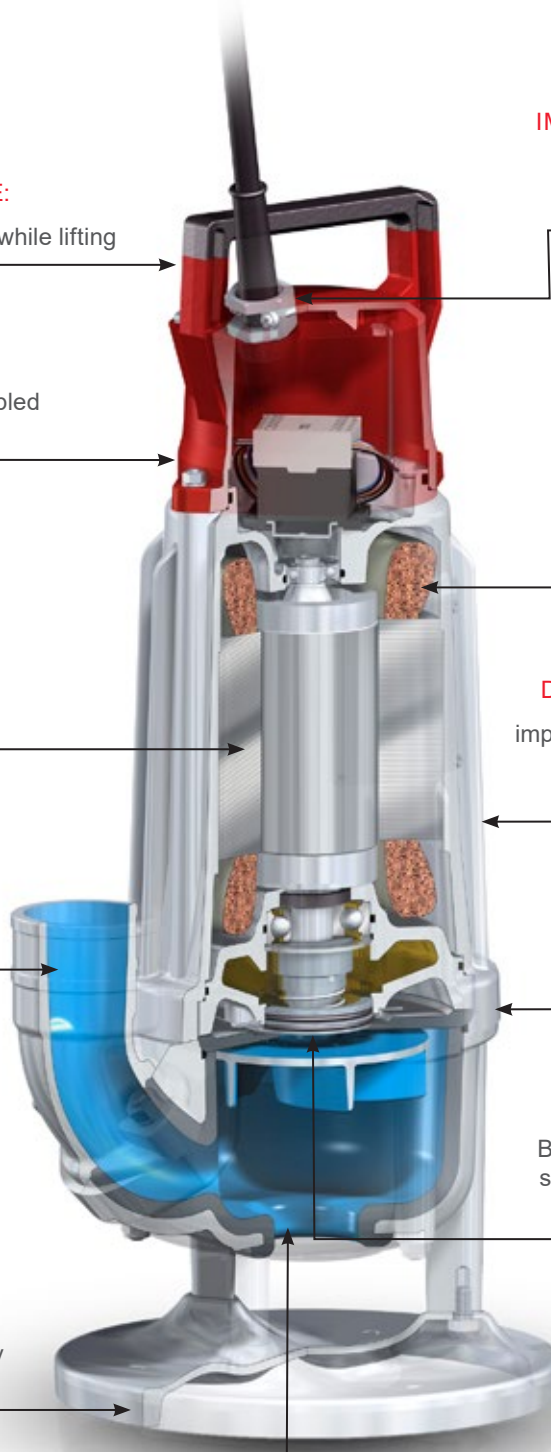
External oil inspection plug for quick inspection of oil

## MODULAR SEALING SOLUTION:

Based on pump size, the sealing system is adapted to provide the best solution

## SUSTAINABLE PERFORMANCE:

High Chrome (55HRC) impellers provides higher wear resistance



# CPWE D Pumps

## Technical Specifications



## CPWE D PUMPS

	CPWE D04N	CPWE D04BN	CPWE D08N	CPWE D10N		CPWE D30L	
	1ph	1ph	1ph	1ph	3ph	1ph	3ph

### Specifications

Specification	Unit	CPWE D04N	CPWE D04BN	CPWE D08N	CPWE D10N (1ph)	CPWE D10N (3ph)	CPWE D30L (1ph)	CPWE D30L (3ph)
Max. head	ft	39.4	39.4	53.3	52	52	58	58
Max. flow	US gpm	67.6	59.4	79.3	117	119	370	370
	m <sup>3</sup> /h	15.0	13.5	19.5	28	29	75	75
Rated output	hp	0.5	0.5	1.0	1.5	1.3	3.0	3.0
Max. power input	kW	0.65	0.65	1.2	1.5	1.2	3.1	2.9
Discharge connection	in	2"	1" (2" optional)	2"	2"	2"	3" (4")	3" (4")
Max solid handling size	in	0.3"	0.18"	0.3"	0.16"	0.16"	0.27"	0.27"

### Weight and dimensions

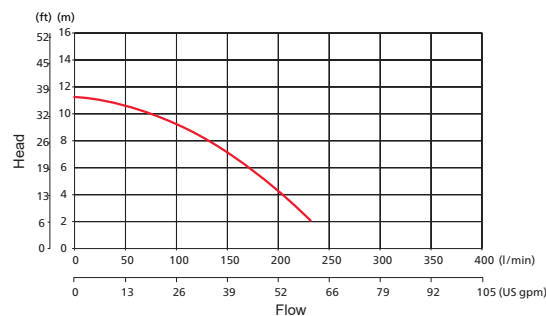
Dimension	Unit	CPWE D04N	CPWE D04BN	CPWE D08N	CPWE D10N (1ph)	CPWE D10N (3ph)	CPWE D30L (1ph)	CPWE D30L (3ph)
Weight	lbs	20.0	21.0	27.4	27.5	27.5	44.0	44.0
Height	in	13.4	16.4	14.1	15.5	15.5	20.6	20.6
Width	in	8.3	10.0	8.3	8.8	8.8	11.4	11.4
Diameter	in	7.2	8.7	7.3	7.3	7.3	8.7	8.7

## Applications

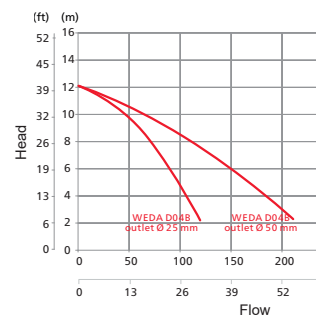
- General dewatering
- General construction
- Mining
- Tunneling

## Performance Curves

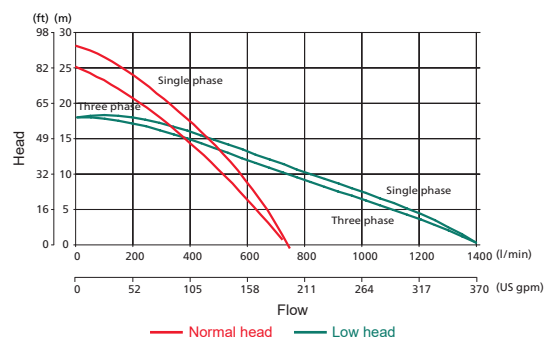
### CPWE D04N



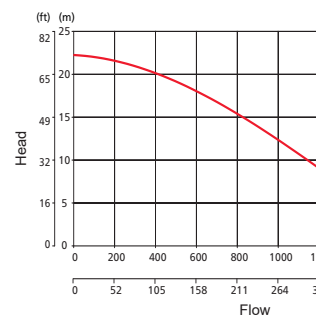
### CPWE D04BN



### CPWE D30L, CPWE D30N



### CPWE D40N



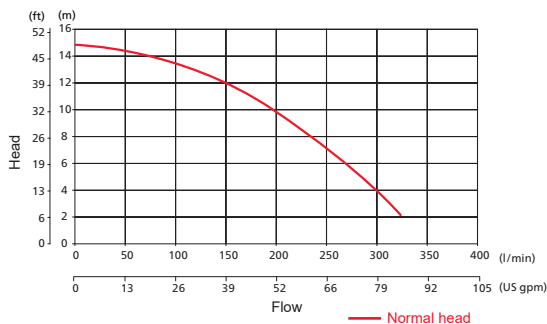


CPWE D30N		CPWE D40N	CPWE D50N	CPWE D50H	CPWE D60N	CPWE D60H	CPWE D60SH
1ph	3ph	3ph	3ph	3ph	3ph	3ph	3ph

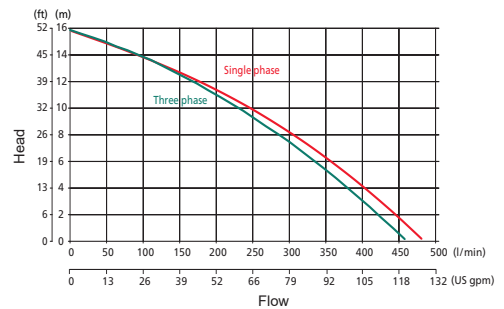
90	83	72	83	135	100	170	250
200	190	450	620	310	700	340	260
51	51	79	138	72	156	90	63
2.7	2.5	4.3	8.5	8.5	11.5	11.5	11.5
3.0	2.6	4.0	7.5	7.5	10.0	10.0	10.0
3" (4")	3" (4")	3" (4")	4" (3")	3" (4")	4" (3")	3" (4")	3" (4")
0.27"	0.27"	0.27"	0.32"	0.32"	0.32"	0.32"	0.32"

44.0	44.0	55.0	122.0	122.0	134.0	134.0	138.0
19.4	19.4	20.6	28.3	28.3	29.9	29.9	29.9
11.4	11.4	11.4	13.0	11.9	13	11.9	11.9
8.7	8.7	8.7	10.9	10.9	10.9	10.9	10.9

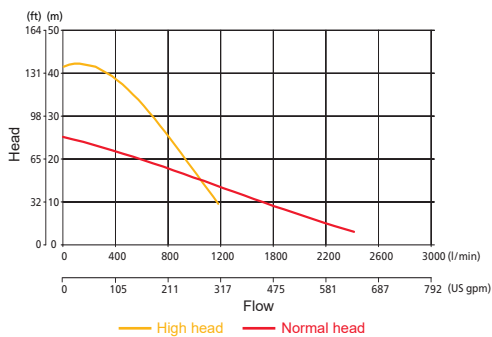
**CPWE D08N**



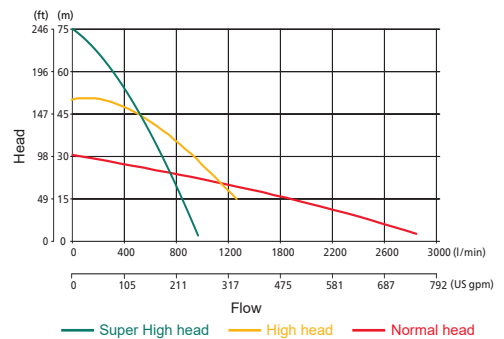
**CPWE D10N**



**CPWE D50N, CPWE D50H**



**CPWE D60N, CPWE D60H, CPWE D60SH**



# CPWE S pumps

## Technical Specifications



## CPWE S PUMPS

CPWE S04N	CPWE S08N	CPWE S30N		CPWE S60N
1ph	1ph	1ph	3ph	3ph

### Specifications

Max. head	ft	32.8	48.6	51	61	100
Max. flow	US gpm	58.1	76.6	190	230	420
	m <sup>3</sup> /h	16.2	19.0	43	52	95
Rated output	hp	0.5	1.0	3.0	4.0	9.2
Max. power input	kW	-	-	2.8	3.6	8.0
Discharge connection	in	2"	2"	3"	3"	3" (4")
Max solid handling size	in	1"	1"	2"	2"	2"

### Weight and dimensions

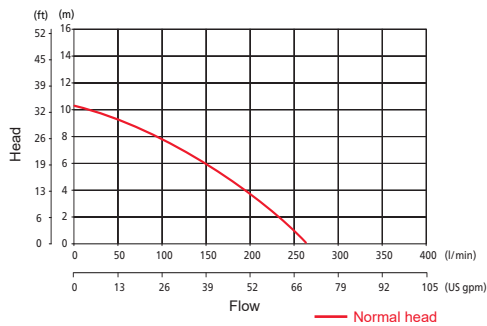
Weight	lbs	22.1	28.7	55	55	143
Height	in	14.7	16.38	24.3	24.3	34.2
Width	in	10.9	10.9	12.8	12.8	17.7
Diameter	in	9.5	9.5	9.8	9.8	13.8

## Applications

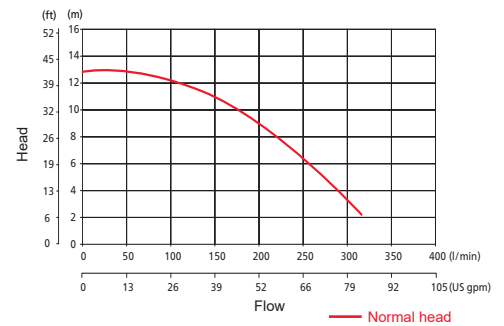
- Construction
- Mining
- Tunneling
- Tank clean-out
- Trench and pond cleaning

## Performance Curves

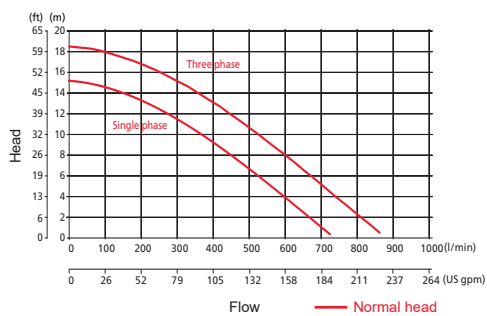
### CPWE S04N



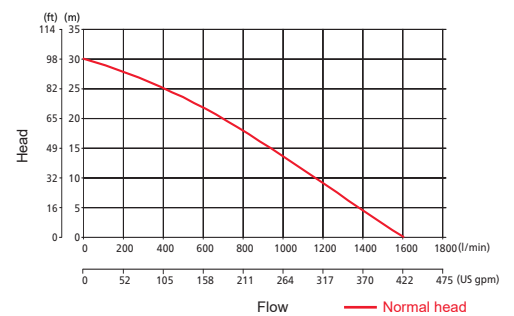
### CPWE S08N



### CPWE S30N



### CPWE S60N







# Pneumatic pumps

Chicago Pneumatic's pneumatic pumps are suitable for pumping sea water and certain corrosive chemicals as well as water from trenches, ditches, manholes, etc. They can be used in industrial sumps and excavations: wet drilling applications where the pumped liquid contains rock fragments or other solids. The sludge pump can handle liquids containing up to 15 percent solids and including particles up to 1" (25 mm) in size. The pump should not be used to pump flammable liquids.



## PNEUMATIC PUMPS

		CP 10	CP 20	CP 77
Power	kW	2,2	2,9	-
Weight	kg	19,5	30,5	69
Min opening needed	mm	210x230	230x240	584X268
Min water depth	mm	22	22	-
Max suction lift	m	-	-	6,1
Max head	m	30,5	27,4	53
Air consumption	l/s	47	51	40
Air inlet	inch	3/4" NPT	3/4" NPT	3/4" NPT
Air outlet	inch	1" NPT	1 1/4" NPT	1" NPT
Discharge inlet	inch	-	-	3" BSP
Discharge outlet	inch	(2" NPT)	2½" BSP	2 1/2" NPT
Max solid content		-	-	15%
Sound power level guaranteed (2000/14/EC) 1)	dB(A)	122	122	111
Sound pressure level (ISO 11203) 1)	dB(A)	109	109	98
Sound power uncertainty value K	dB(A)	2,5	2,5	2,5
Recommended air supply hose size	mm	19	25	25

### Key features:

- Cast-iron housing
- Integral oiler provides continuous lubrication
- No damage running without load
- Long life/low maintenance
- Extremely durable

### CPWE 10, CPW 20:

- Bronze impeller
- Direct driven single stage centrifugal unit driven by powerful vane motor
- Integral strainer, air inlet valve
- Double seals protect bearings and motor from water and mud
- Safe to use in most environments

### CPWE 77:

- Has no motor or diaphragm to wear out
- Operates on venturi/ejector principle
- Exhaust muffler reduces noise level





