



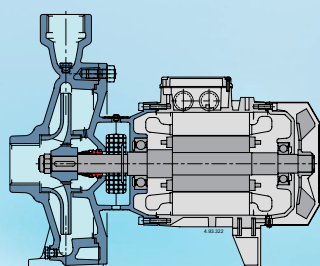
End Suction Centrifugal Pumps with Threaded Ports

Features

SINGLE IMPELLER

The compact design of the Single Impeller allows for easy installation, even in confined or restricted spaces.

The mechanical structure of the hydraulic parts that come into contact with pumped liquids are dimensioned to guarantee maximum resistance to mechanical stress.



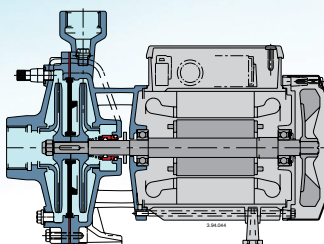
The lantern bracket design prevents contact with the pumps rotating parts, providing protection to the end-user while allowing for the inspection of the mechanical seal.

The bearing and shaft are designed to reduce stress and provide high reliability under all operating conditions.



TWO BACK-TO-BACK IMPELLER

The option to choose between cast iron or bronze materials for the hydraulic parts that come into contact with pumped liquids allows the Two Back-to-Back Impeller series pumps to be used with different types of liquids.



The mechanical structure of the hydraulic parts that make contact with pumped liquids are dimensioned to guarantee the maximum resistance to mechanical stress.

The bearing and shaft are designed to provide stress reduction and high reliability under all operating conditions.

Construction

- Close-coupled, centrifugal pumps; electric motor with extended shaft directly connected to the pump.
- Single-impeller
- Two back-to-back impellers (with axial thrust balancing).
- Connections: threaded ports NPT.

Motor

- 2-pole induction motor, 60 Hz ($n \approx 3450$ rpm).
- Three-phase 230/460 V.
- Single-phase 115/230 V, 115 V, 230 V.
- Insulation class F.
- Protection IP 44.

Special Features Available Upon Request

- Other voltages.
- Special mechanical seal.
- Higher or lower liquid or ambient temperatures.

Applications

- For clean liquids without abrasives, which are non-aggressive for the pump materials (solids content up to 0.2%).
- For water supply.
- For heating, air-conditioning, cooling and circulation plants.
- For civil and industrial applications.
- For irrigation.

Operating Conditions

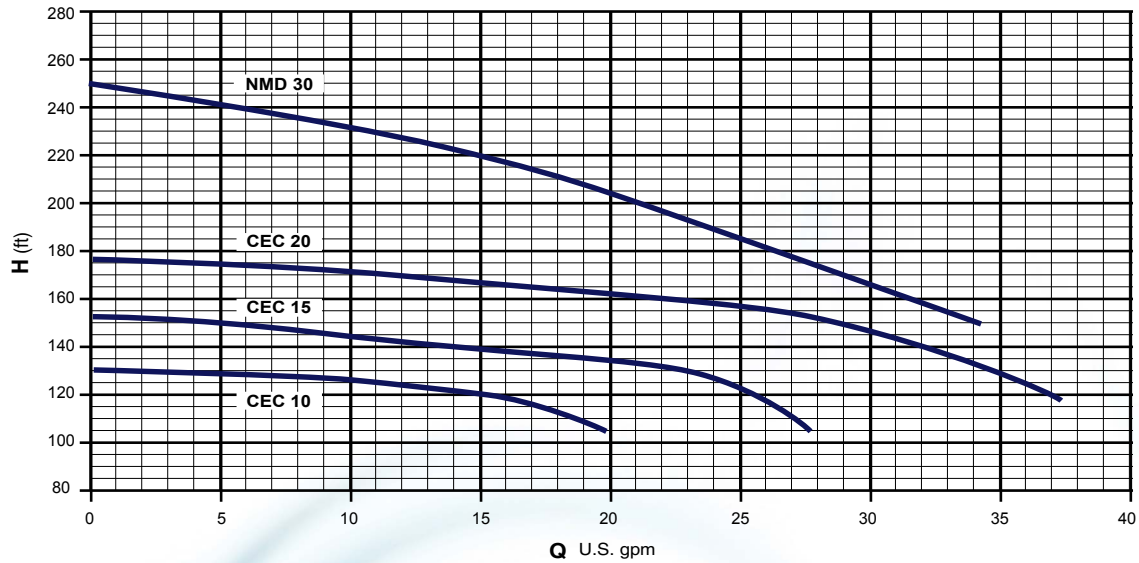
- Liquid temperature from 14 °F to 194 °F.
- Ambient temperature up to 104 °F.
- Total suction lift up to 23 ft.
- Maximum permissible working pressure up to 145 psi (232 psi for pumps NMD 25/190).
- Continuous duty.

Materials

COMPONENT	MATERIAL
Pump Casing	Cast iron
Lantern Bracket	GJL 200 EN 1561
Impeller	Brass CW510L (lead free public LAW 111-380)
Shaft	Cr steel AISI 430
	Cr Ni steel AISI 303 1 - 1.5 - 2.5 - 3 HP
Mechanical Seal	Carbon - Ceramic - NBR

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Performance Curves | n= 3450 rpm

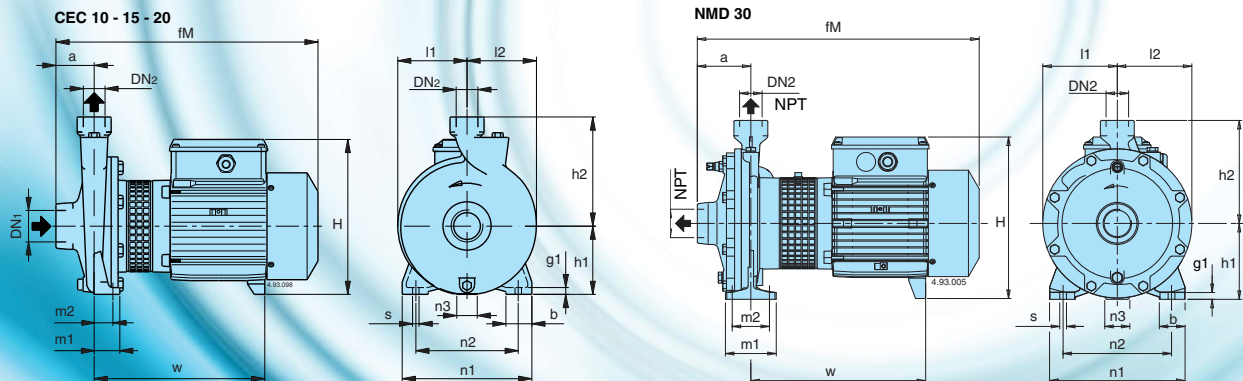


Nominal Currents

MODEL	P2 HP	3 ~		1 ~			
		230 / 460V In A	I _A / In	115V In A	230V In A	115 / 230V In A	I _A / In
CEC 10	1	5.5/3.2	5.5		8.5		2.8
CEC 15	1.5	8.3/4.8	5.4		10.6		3.8
CEC 20	2	9.9/5.7	7.3		13.5		4.5
NMD 30	3	9.9/5.7	7.3				

P2 Rated motor power output. | I_A / In D.O.L. starting current / Rated current.

Weights and Dimensions



MODEL	DN1	DN2	DIMENSIONS INCHES															NET WEIGHT LBS		
	NPT		a	fM	h1	h2	H	m1	m2	n1	n2	n3	b	s	l1	l2	w	g1	3 ~	1 ~
CEC 10 / CEC 15	1	1	1.97	14.76	4.41	7.09	9.45	2.17	1.69	9.65	8.07	1.46	1.77	0.45	4.33	4.45	9.61	9.61	50.4 / 55.2	52.8 / 57.2
CEC 20	1	1	1.97	16.34	4.41	7.09	9.45	2.17	1.69	9.65	8.07	1.46	1.77	0.45	4.33	4.45	11.18	11.18		63.1
NMD 30	1.5	1	3.82	19.17	5.51	7.09	10.55	-	-	9.45	7.48	1.27	1.97	0.55	5.24	5.24	12.36	0.51	92.4	