PERIPHERAL PUMPS

PE SERIES

Description

C.R.I. Peripheral Pumps are non-self-priming monoblock pumps designed with high efficiency and low operating cost. Engineered with a peripheral impeller, these pumps deliver consistent and efficient operation, making them ideal for pumping clean water from sumps and shallow wells. A brass impeller combined with a high-precision mechanical seal enhances the pump's durability and operational efficiency. All single-phase models in the series are equipped with thermal overload protection to safeguard the motor winding.

Model Identification Code (MIC)

P X X - X (N or NE or NA)

Product Category
P = Peripheral Pump

Suction Type
E - End Suction Non Self Priming
R - Side Suction Non Self Priming
S - Side Suction Self Priming
W - Wonder Suction Self Priming

Phase
M = Single Phase
T = Three Phase

Power
3 = 0.37 kW
7 = 0.75 kW

This digit is applicable only for new and modified design.



Description:
PEM-3NE, 0.37kW, 50Hz, 230V, 1Ph, 1" x 1" Peripheral End Suction Pump
PEM-7N, 0.75kW, 50 Hz, 230V, 1Ph, 1" x 1" Peripheral End Suction pump



Technical Specifications

Power Range	0.37 & 0.75kW
Speed	2850 rpm
Versions	Single phase, 220 - 230V, 50Hz
Type of Duty	S1 Continuous Duty
Degree of Protection	IP 54
Class of Insulation	B
Flow Range	1 - 2.4 m^3/h
Head Range	5 - 55m
Maximum Suction Lift	6m
Shaft Seal	Mechanical seal
Maximum Liquid Temperature	35°C
Maximum Ambient Temperature	40°C
Maximum Opearting Pressure	5.5bar
Suction Flange Size	1"
Delivery Flange Size	1"

Material of Construction

Part Name	Material (EN / DIN / SAE)
Pump Body	Aluminum - ADC-12 / ASTM A383 ADC-12
Impeller	CW612N / 2.0380 / ASTM B287 C37700
Shaft	EN8 / CK45 / ASTM A1045
Pump Support & Back Cover	Cast Iron - EN-GJL220 / GG20 / ASTM A48 Class 30B
Terminal Cover	Engineering Plastic
O Rings	NBR (Buna - N)
Mechanical seal	Ceramic & Carbon

Key Features

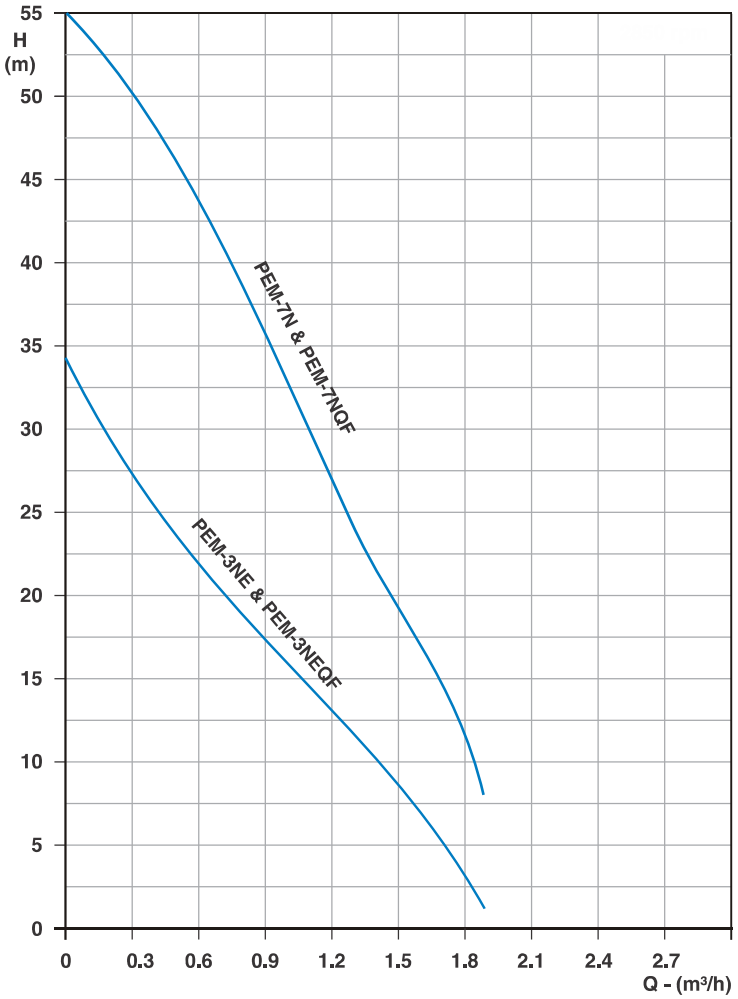
- Silent operation
- Sturdy and compact design
- Thermal protection

Applications

- Residential
- Garden
- Fountain
- Pressure boosting
- Landscaping
- Feed water supply in domestic RO

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

Performance Curves



Performance Table

Pump Model		Power		Voltage (V)	Current (Amps)	Suction & Delivery Size (Inches)	Flow (Q)	lpm	0	8.3	13.3	16.7	21.7	25	30	31.7
		kW	HP					m³/h	0	0.5	0.8	1	1.3	1.5	1.8	1.9
PEM-3NE	PEM-3N-QF	0.37	0.5	220V, 50Hz	2.5	1 x 1	Head(m)		34.7	24.3	18.7	15.3	11.9	6.5	2.75	1.42
PEM-7N	PEM-7N-QF	0.75	1	220V, 50Hz	4.5	1 x 1			55	46	38	30	24	18	12	8

Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 3B

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