



EPM SERIES

Permanent Magnet Variable
Frequency Pumps





EBITT was born from “an idea” and turned into “an ideal”

EBITT is a specialized organization with deep expertise in pump and fluid technologies, capable of accurately interpreting both Turkish and global market demands and translating them into the right solutions.

Founded to be the ideal intersection of supply and demand in fluid technologies, EBITT goes beyond developing and marketing products. It represents a holistic business model built to meet expectations at the highest level.

More than a company, EBITT is a perspective, a system, and a spirit. Its foundation is human capital and accumulated expertise, transferred sustainably like a relay race rather than treated as a traditional capital asset.

For EBITT, innovation is not limited to technological advancement. It is a creative, value-driven approach that prioritizes responsibility, customer expectations, business efficiency, and uncompromising standards for health and safety. Every innovation emerges from this integrated understanding.

Quality, for EBITT, is a non-negotiable standard in all areas involving water and fluids—throughout life. Together with its suppliers, customers, and team members who share this philosophy, EBITT builds long-term, sustainable win-win relationships.

With this mindset, EBITT offers a wide range of products and systems, from basic solutions to process-specific equipment, serving residential, industrial, agricultural, irrigation, pool, treatment, and specialized applications. Beyond standard products, EBITT also delivers tailor-made solutions that maximize added value.

EBITT believes the ideal solution is not always the most expensive one, but the most rational—optimizing needs in the most efficient way.

Positioning itself as a trusted solution provider, EBITT stands out with its values, flexibility, and dynamic structure, ready to respond to evolving demands.

EPM

PERMANENT MAGNET VARIABLE
FREQUENCY PUMPS



Construction

- Multi-stage, centrifugal, permanent magnet driven motor, variable speed pump with a plug and play solution
- Pump body made of thickened stainless steel material which is corrosion resistant
- Microcomputer control system automatically detect and control the motor to keep always constant pressure by changing frequency
- EPM 550 / EPM 680 / EPM 880: G1" connection
- EPM 1500 / EPM 2200: G2" connection

Applications

For water supply systems domestic and commercial use for garden and irrigation

Protections

- Dry run protection
- Overland control and overheating motor control
- Power supply control
- Pump clogage prevention
- Stop delay function
- Detects small leakages in system

Features

- Integrated frequency converter
- Built-in pressure vessel
- High efficiency permanent magnet driven motor
- Motor power / voltage control
- Programmable menu
- Monitoring pressure and current

Materials

Stainless steel pump body, PPO impeller, carbon-ceramic- NBR mechanical seal

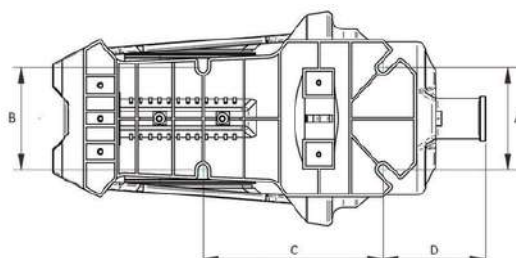
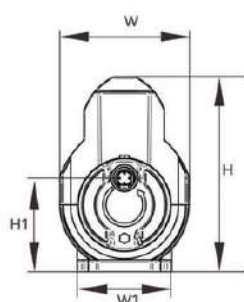
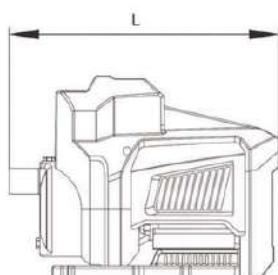
Motor

- Variable speed motor
- Max. speed: 5200 rpm
- Frequency: 50 Hz / 60 Hz
- Voltage: 165 – 260 V
- Insulation class: F
- Protection: IPX5
- Constructed in accordance with EN60034-1; EN60335-1, EN60335-2-41

Performance Table

Model	Voltage (V)	Power (kW)	Max Flow (m³/h)	Max Head (m)	Rated Flow (m³/h)	Rated Head (m)	Connection	Max Suction Lift (m)
EPM 550	165-260 V 50 Hz- 60 Hz	0,55	5	46	3	24	G1"	6
EPM 680		0,68	5,5	55	3	28	G1"	6
EPM 880		0,88	5,8	60	3	33	G1"	8
EPM 1500		1,5	18	58	8	50	G2"	8
EPM 2200		2,2	22	68	8	60	G2"	8

Dimensional Drawings

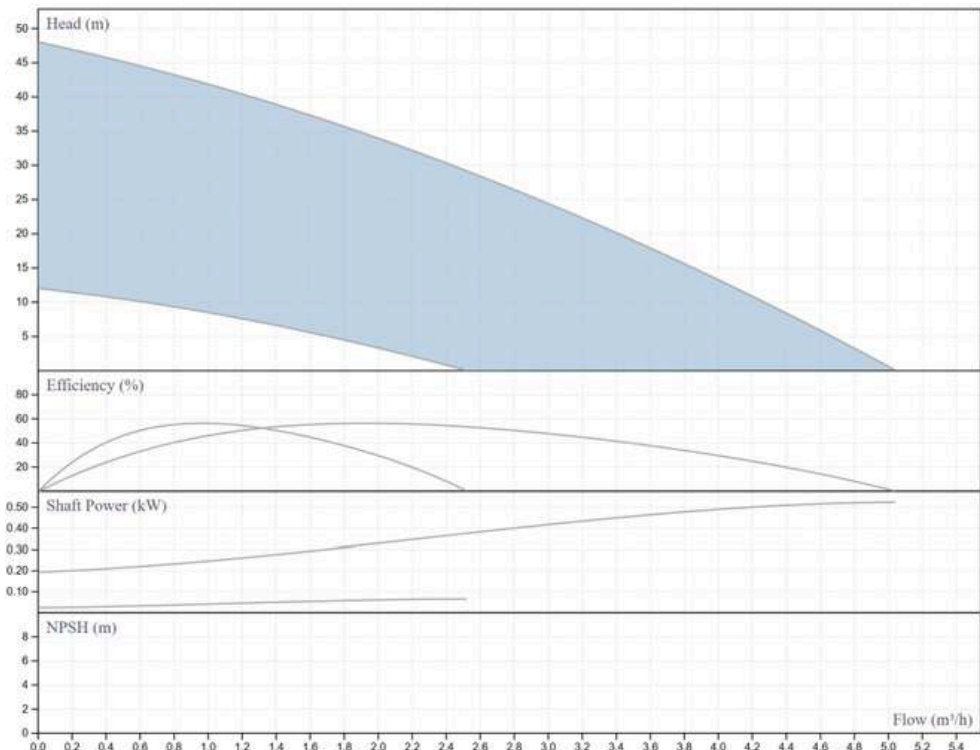


	Nominal Dia		Length	Width		Height		Net Weight	
	Suction	Discharge	L	W	W1	H	HI	Kg	lbs
mm	25	25	390	193,5	143	290	140	8,1	17,85
inch	1"	1"	15,35	7,62	5,62	11,42	5,5		

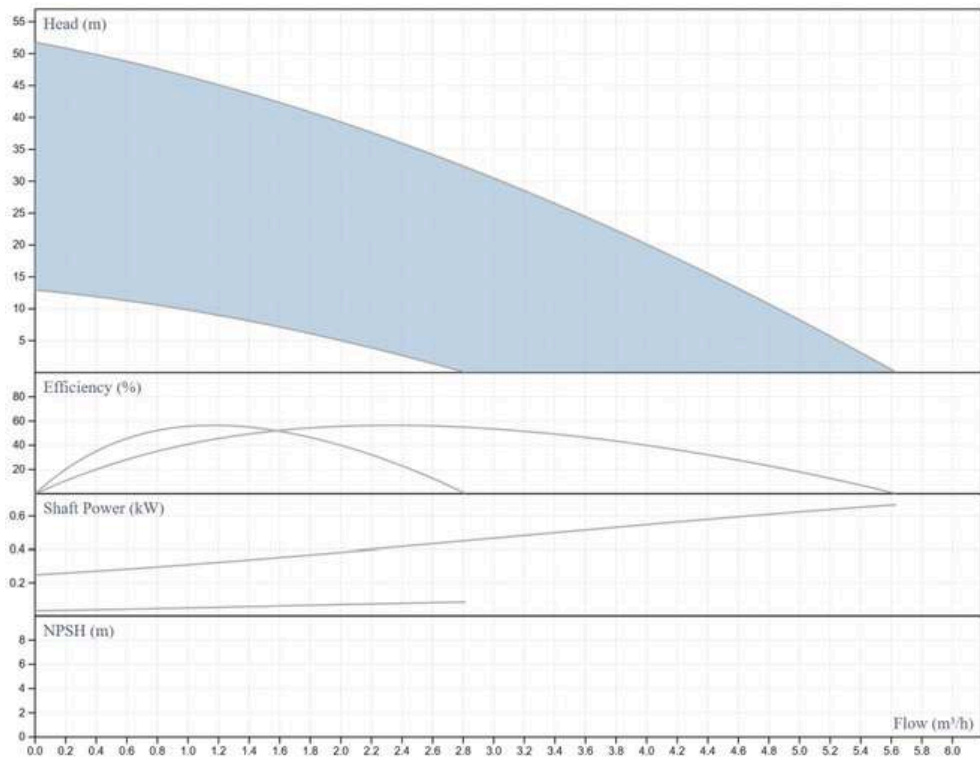
	A	B	C	D
mm	92	92	162,5	92,5
inch	3,62	3,62	6,4	3,64

Performance Curves

EPM 550

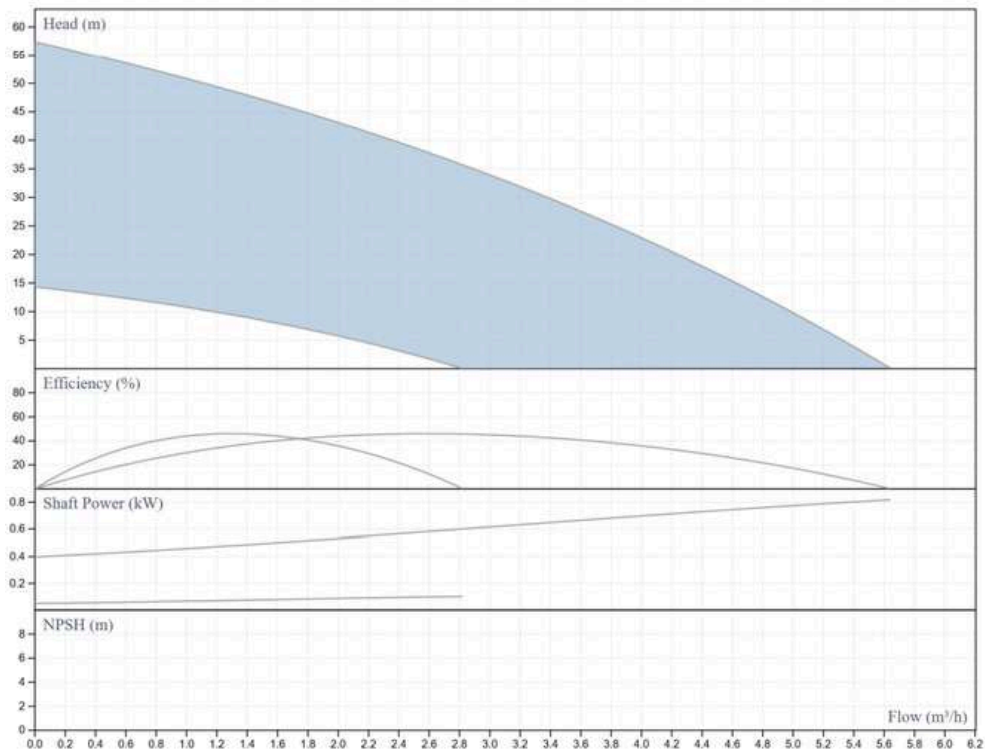


EPM 680

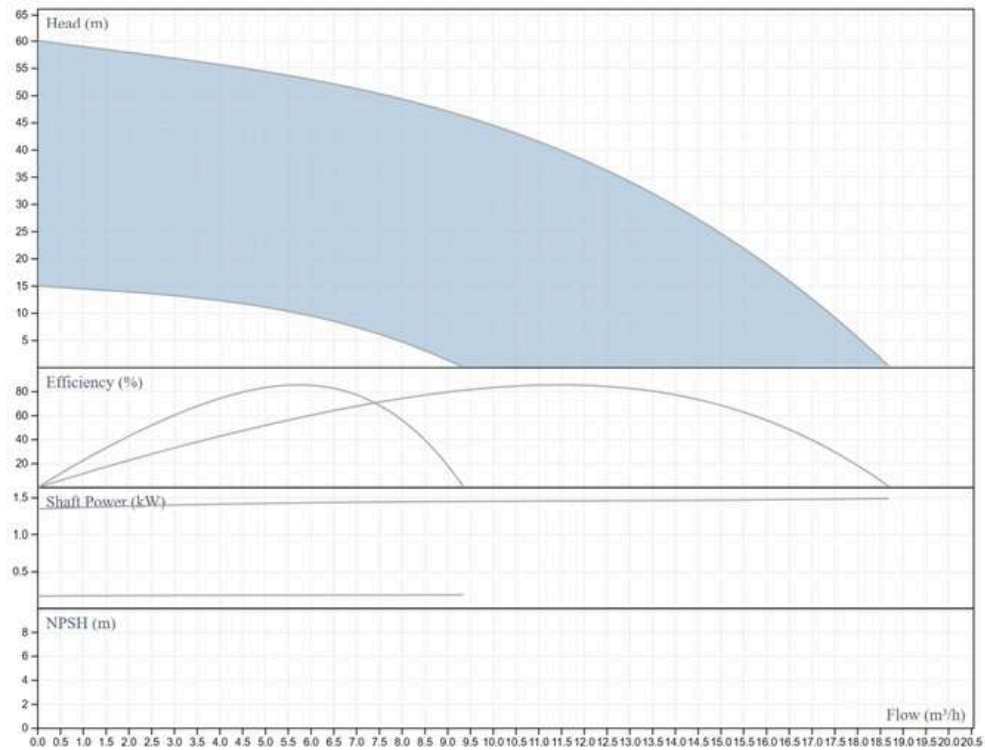


Performance Curves

EPM 880

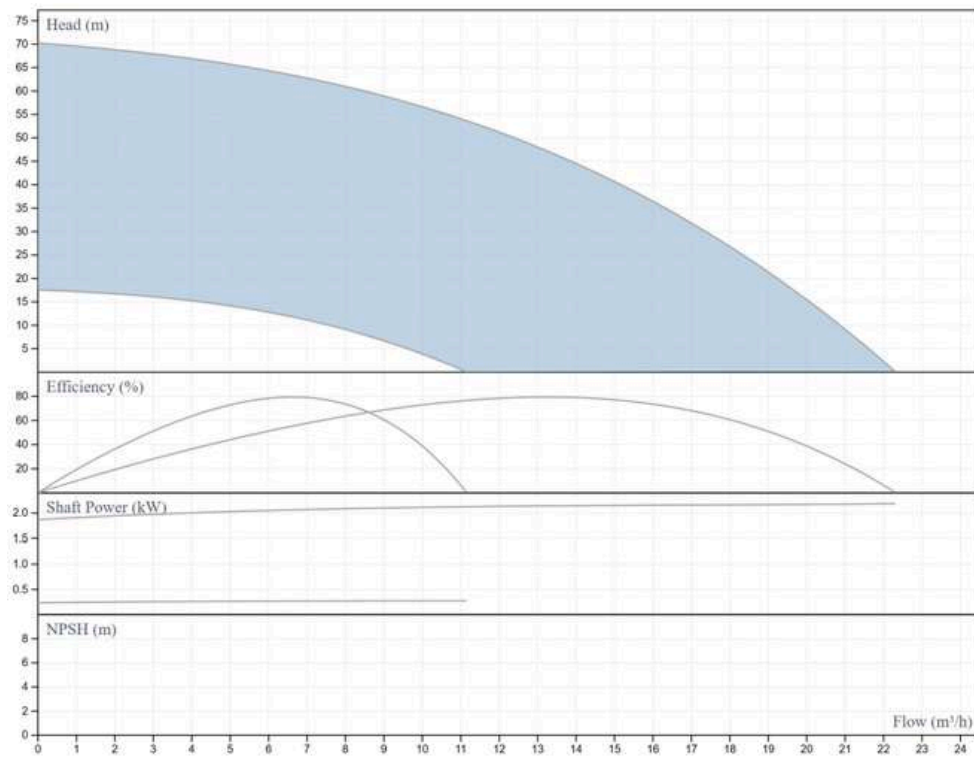


EPM 1500

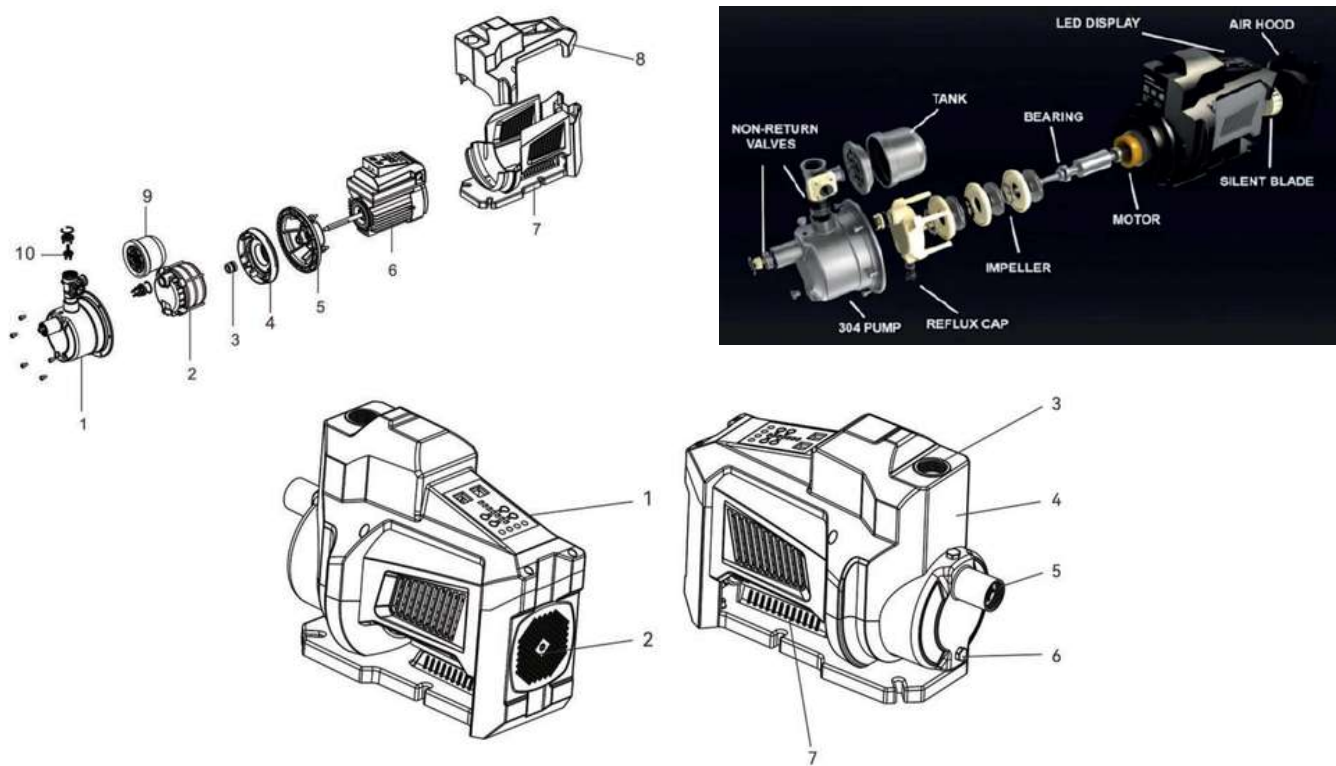


Performance Curves

EPM 2200



Exploded View - Materials



Pos.	Component name	Material
1	Pump body	AISI304
2	Chamber stack (three stages)	Composite
3	Shaft seal	Carbon / Ceramic
4	Seal holder	Composite
5	Support	Aluminium
6	Stator housing	Composite and EN 1.4301/AISI 304
7	Cover	Composite
8	Control box cover	Composite
9	Tank complete	Composite, Butyl and EN 1.4301/AISI 304
10	Non-return valve, outlet	Composite

Pos.	Description
1	Operating panel
2	Operating panel
3	Intlet opening
4	Nameplate
5	Outlet opening
6	Drain plug
7	Ventilation holes. Must not be flooded

Application Scenario



EPM 300 & 500

PERMANENT MAGNET VARIABLE
FREQUENCY PUMPS



Construction

- Multi-stage, self-priming centrifugal technology pumps equipped with high-efficiency permanent magnet motor with variable frequency conversion.
- Comfortable usage; super silent, less than 45 decibels at full power.
- Constrain pressure by means of intelligent control of voltage and frequency conversion.
- Dry-run protection; regularly check of water flow
- High temperature protection; when the motor temperature increasing the limits of insulation, pump automatically power-off.
- Antifreeze function; temperature sensor detects the water temperature when lower than 5°C, pump starts preventing freeze cracking.
- By means of easy set-up LCD display screen, all parameters can be adjusted and kept constant pressure.
- EPM 300 / EPM 500: G1" connections

Operating Conditions

- Liquid temperature: 0°C to 75°C
- Ambient temperature: 50°C
- Max. casing temperature: 8 bar
- Suction lift: 8 m

Performance Table

MODEL	EPM 300	Rated Flow	1,5 m ³ /h
VOLTAGE	165-260V	Nom. Head	20 m
FREQUENCY	50 Hz/60Hz	Max. Suction	8 m
MAX. FLOW	4 m ³ /h	Max. Power	0,3 kW
MAX. HEAD	30 m	Max. Temp	75°C
DIMENSIONS (MM)	285x183x253	WEIGHT (KG)	6,6

MODEL	EPM 500	Rated Flow	2 m ³ /h
VOLTAGE	165-260V	Nom. Head	27 m
FREQUENCY	50 Hz/60Hz	Max. Suction	8 m
MAX. FLOW	4,8 m ³ /h	Max. Power	0,5 kW
MAX. HEAD	45 m	Max. Temp	75°C
DIMENSIONS (MM)	330x205x280	WEIGHT (KG)	7,4

Applications

For water supply systems, domestic use, for garden and irrigation

Features

- Integrated frequency converter
- Built-in pressure vessel
- High efficiency permanent magnet driven motor
- Motor power / voltage control
- Programmable menu
- Monitoring pressure and current

Materials

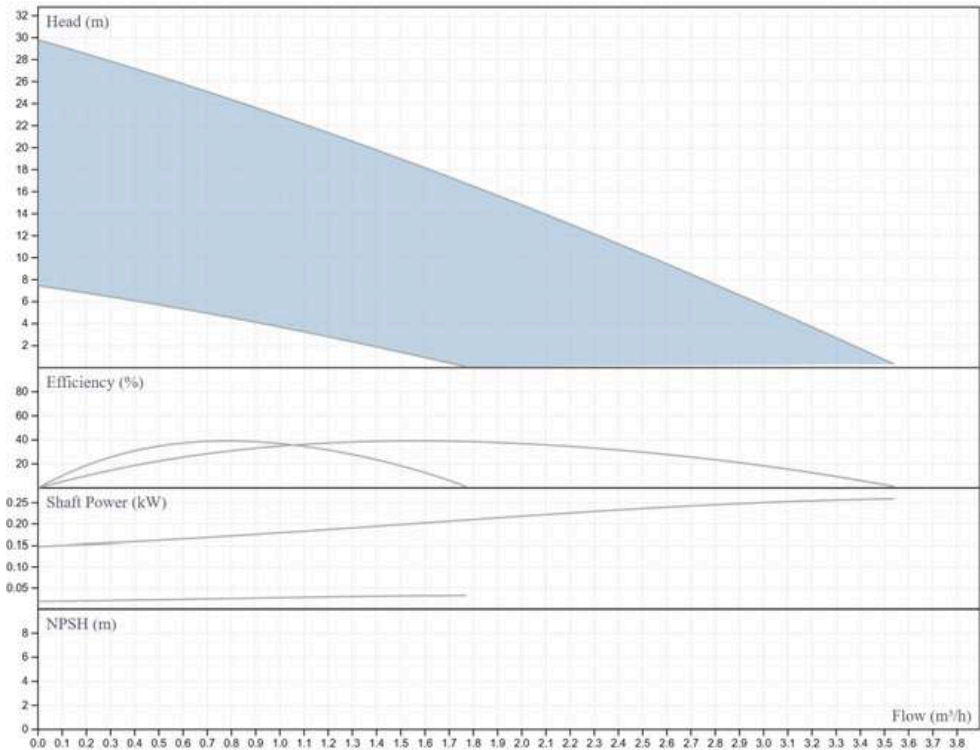
PA66 (polyamide) pump body, PPO impeller, stainless steel shaft, carbon ceramic NBR mechanical seal.

Motor

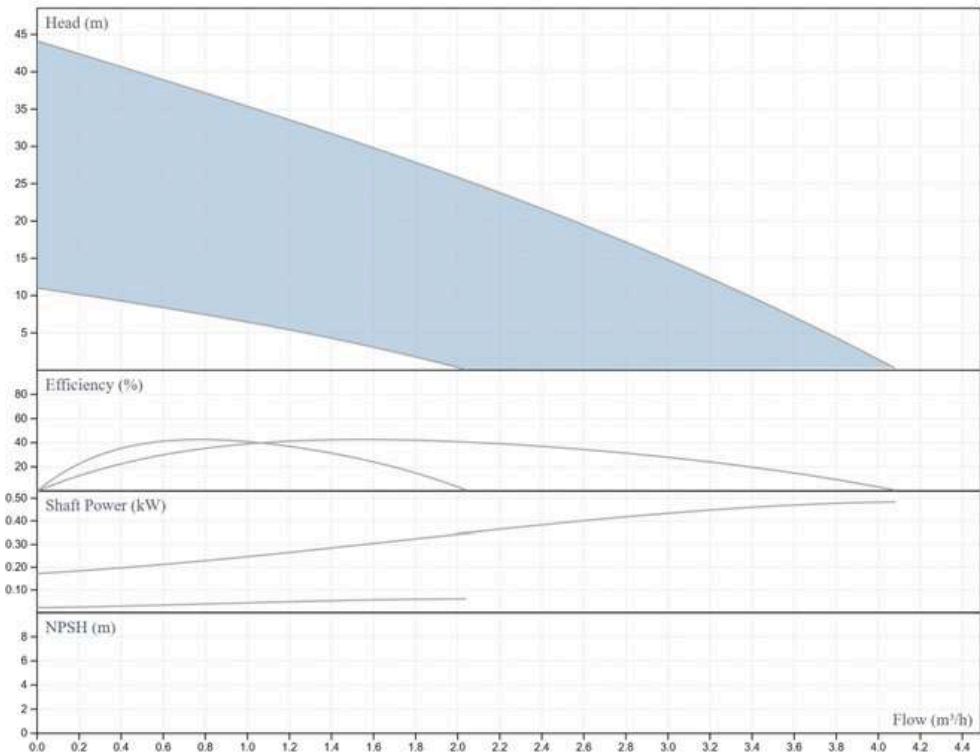
- Variable speed motor
- Max. speed: 5200 rpm
- Frequency: 50 Hz / 60 Hz
- Voltage: 165 – 260 V
- Insulation class: F
- Protection: IPX5
- Constructed in accordance with EN60034-1; EN60335-1, EN60335-2-41

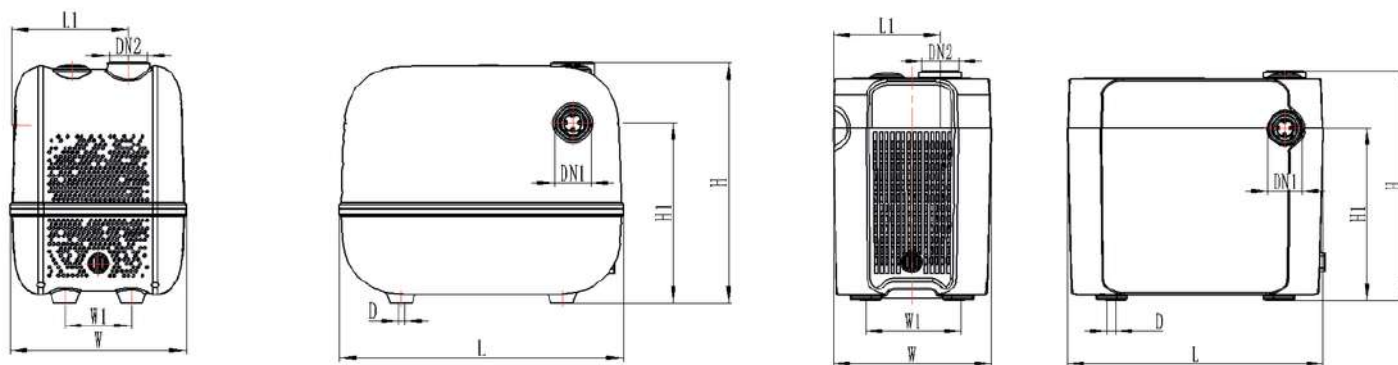
Performance Curves

EPM 300



EPM 500



Exploded View - Materials

Model	DN1	DN2	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	D
EPM 300	1"	1"	390	91	142	92	290	100	9
EPM 500									



Pos.	Part
1	Waterproof screw
2	Screw
3	Check valve
4	Pump body
5	Prop
6	Water inlet guide glade
7	Impeller
8	Guide glade
9	Impeller
10	Seal holder

Pos.	Part
11	Water proof gland
12	Pump support
13	Bearing
14	Rotor
15	Motor
16	Fan
17	Fan cover
18	Crash pad
19	Hull
20	Hull

Pos.	Part
21	Controller
22	Overhead tank
23	Screw
24	Transducer
25	Sensor bracket
26	Transducer
27	Bottom bracket
28	Water injection screw
29	Strainer
30	Check valve



EBITT EUROPE KFT

H-6782 Mórahalom, Szegedi út 108. Hungary Phone: +3662-280-926

Fax: +3662-280-927

export@ebitteurope.com

www.ebitteurope.com



**EBITTME PUMPS ENGINES VALVES & SPARE
PARTS TRADING CO. L.L.C.**

ALSUAIDI, Al Suwaidi Bldg, Al Murar - Deira

P.O. Box 453929 Dubai, UAE

emea@ebitteurope.com

+971 55-454 4187



**EBITT FINDUSTRIE (ZHE JIANG) INDUSTRIAL
ENGINEERING LIMITED COMPANY**

Hangzhou City, Zhejiang Province, China

info@ebitt.com.cn

+86 15168651662

**EBITT ASIA PACIFIC PTE LTD
(EAP Singapore)**

226 Jalan Eunos #04-128. Singapore 415869 Phone: (65) 98393745

info@ebitt-asiapac.com

EBITT TÜRKİYE

Koçullu Mah. Doğru Sok. No:6 34799 Çekmeköy / İstanbul

info@ebitt.com.tr

www.ebitt.com.tr