



BASIS

TMB

SMALLEST MAG-DRIVEN CENTRIFUGAL
CHEMICALLY RESISTANT PLASTIC PUMPS
MADE OF PP

50 - 60 Hz SINGLE PHASE MOTORS

CHEMICALLY RESISTANT PLASTIC PUMPS

SINGLE PHASE MOTORS



The TMB are single stage, and magnetic driven centrifugal pumps. The range includes 5 models with capacities between 15 and 70 l/min.

WORKING PRINCIPLE

The magnetic drive is made through the rotation of a group of magnets along with the motor shaft. This action drives in rotation the second group of magnets directly connected to the impeller. This second group is separated from the first group, and thus from the pumped liquid by a diaphragm. In this way, the leakage issue is eliminated, and no corrosion affect the outer parts.

MAGNETIC DRIVE

The magnetic drive assembly hauls ferrite magnets, revolves around the rear casing and drives the impeller magnetically. TMB pumps are compact, low noise and no seal device making them ideal for application in any plant. They can also be installed into "clean" or sensitive environment.

CORROSION RESISTANCE

Basis range is entirely made of the thermoplastic Polypropylene reinforced with fiberglass, offering a great chemical resistance and mechanical strength. The shaft is made of ceramics, and the bearings are realised in PTFE whereas the OR gasket in FKM.

(*) 12V. - Available on request

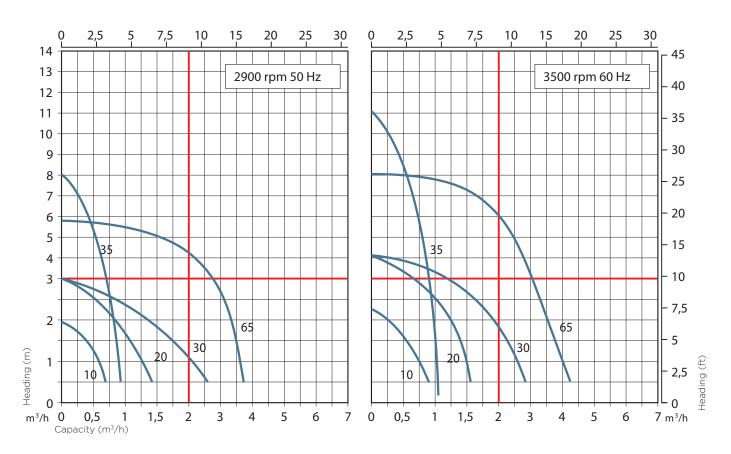
COMPONENTS

- The volute casing is realised with Polypropylene reinforced with fiberglass, by a monolithic injection in the mould and with an encapsulated front shaft bearing.
 The connections can be hosed or screwed.
- The rear casing is obtained through the same process and hosts the rear shaft bearing.
- The coupled volute and rear casing are realised to be leakage proof.
- The impeller is made of Polypropylene reinforced with GFR.

TMB Model	10	20 - 30 - 35(*) - 65	
Execution	WR	WR	
Internal structure	N ₁	N ₁	
Pump casing	GFR- PP		
Rear casing	GFR-PP	GFR-PP	
Impeller			
Guide bushings	-	GFR PTFE	
Shaft	CER	CER	
Thrust bush	GFR PTFE	CER	
OR gasket	FKM	FKM	
Screws	Stainless steel	Stainless steel	

(*) Also available in CFF-E-CTFE





ТМВ			10	20	30	35	65	
Connections	Thread	Ø inlet	BSP-NPT	-	3/4"	3/4"	1/2"	1"
		Ø outlet	BSP-NPT	=	3/4"	3/4"	3/8"	1"
	Hose con-	Ø inlet	mm	14	18	20	18	26
	nections	Ø outlet	mm	14	17	20	18	26
Motor		er IN 60 Hz)	w	25/21	29/39	57/73	57/73	97/134
	Power IN (50 - 60Hz)			8/7	15/21	30/43	30/43	63/87
	Phases n° 1		1					
	Std tension V		AC 220 - 240 - 50-60Hz					
	Power (50 - 60hz)		Α	0,12 /0,10	0,13 /0,18	0,24/0,36	0,24/0,35	0,45/0,63
	Speed (50 - 60Hz)		rpm	2700/3200	2800/3200	2700/3100	2800/3300	
Pumps	Max. heading (50 - 60Hz)		m	1,8/2,2	3,0/4,0	3,4/4,5	8,0/11,0	6,0/8,2
		apacity 60Hz)	I/min	12/14	21/25	41/45	16/18	62/70
	Weight		kg	0,9	2,2	3	3	5

ТМВ	10U	20U	30U	35U	65U
*compliant to UL normative	AC 120V - 60 HZ				

BASIS

TMB



Made of PP reinforced with fiberglass, realised with mould injection.

Hose or threaded connections

2..... **Rear casing**

It is connected to the volute casing throughout OR gaskets. It is realised like the volute casing, throughout mould injection and with the same material of construction.

3 **OR** gasket

Impeller

The impeller, along with its magnet, is made of PP reinforced with fiberglass. The shaft is made of Ceramics.

Guide bushings

Stainless steel screws

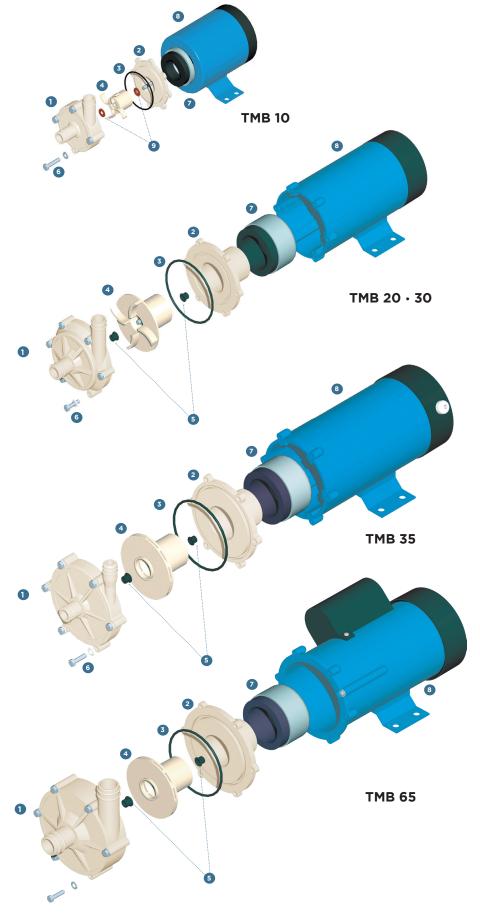
Magnet

Made of isotropic ferrite, the magnet is encapsulated in the shaft.

Electric motor 1-phase 220-240 V either 50Hz or 60Hz. Insulation class E. Enamelled with paint, provided with thermal protector to 120°C

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Thrust bush



APPLICATIONS



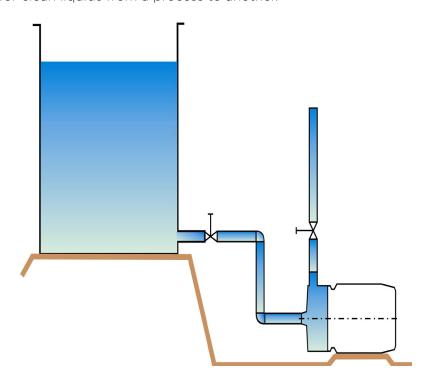
MAIN APPLICATIONS

- Water treatments
- Aquarium
- Graphic art machinery
- Cosmetic industry
- · Dyeing equipment
- · Etching equipment
- Medical equipment
- Photographic developing process
- Chemical laboratories
- Storage batteries manufacturer
- Electroplating
- Silver recovery
- Metalwork machinery
- Descaling

- Fungicide and pesticide
- Solar systems
- Laser systems
- Boats mounted refrigerator
- Refrigerator
- Ice making machines
- Beverage vending machine
- Corrosive chemical solutions
- Toxic liquid
- Sea Water
- Pure water (demineralised water)
- Chemicals to preserve food
- Laundry

TYPES OF INSTALLATION

The **TMB** pumps can be installed to operate as recirculation, filtration, mixing, heating, cooling or cleaning plumps for clean liquids from a process to another.



WARNING

- **TMB** pumps do not run dry and have to be flooded.
- pumping dirty liquid or liquid containing abrasive solids in suspension may reduce
- the operating life and/or impair the performances of these pumps.

WORKING CONDITIONS

- Admitted temperature of the liquid pumped is from 0 to 60 °C.
- Max viscosity up to 20 cPt.
- Specific weight not above 1,1 Kg/dm^3 (at the max flow).
- Environmental temperature 0°C ÷ 45 °C.

MAG-DRIVE &
MECH-SEALED
CENTRIFUGAL
PUMPS

PNEUMATIC
AODD &
METERING
PUMPS
PULSATION
DAMPENERS

SUBMERSIBLE PUMPS



SELF-PRIMING PUMPS

VERTICAL SUMP PUMPS

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cod. 01.2018 - EN