

BASIS RANGE TMB SERIES



magnetic driven pumps



The pumps "TMB" belong to Argal's BASIS range and feature, single stage, centrifugal impeller and magnetic drive.

The range of TMB pumps includes five models to deliver flows from 15 to 70 l/min.

EXCEPTIONAL CORROSION RESISTANCE

It is made entirely of thermoplastics with outstanding chemical and mechanical resistance namely glassfibre reinforced polypropylene (GFR/PP). Ceramics for the spindle, reinforced PTFE for the bearings and FKM for the OR gasket, are the materials used for the pieces in contact with the liquids pumped.

PRINCIPLE OF OPERATION:

The drive magnet, outside the casing and keyed on the spindle, drives the magnetic impeller inside the hermetic casing. In this way, the traditional shaft seal and the consequent leakage problems are eliminated. So there is no corrosion of the outer parts (motor and bearings) in the environment.

Compact dimension, low noise, absence of seal device make these pumps ideal for application in any place or plant and can be incorporated into sophisticate equipment or "clean" environment.

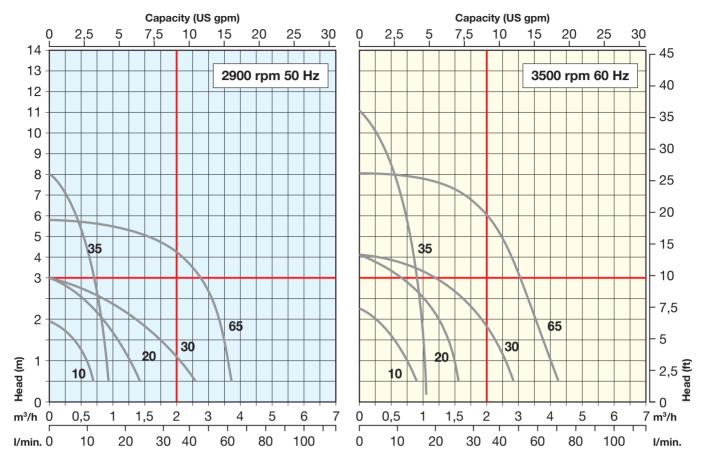


CONSTRUCTION

- The drive magnet assembly hauls ferrite magnets, revolves outside the rear casing and drives the impeller magnetically.
- The volute casing is a monolithic injection moulded part made of glass reinforced polypropylene with encapsulated front spindle bearing; the connections can be either hosed or screwed.
- The rear casing is made by the same process and the thermoplastic material of the front casing and hosts the rear spindle's bearing.
- The coupled volute casing and rear casing realise the leakage proof casing of the pump.
- The polypropylene impeller features built in ceramic spindle and ferrite magnets.

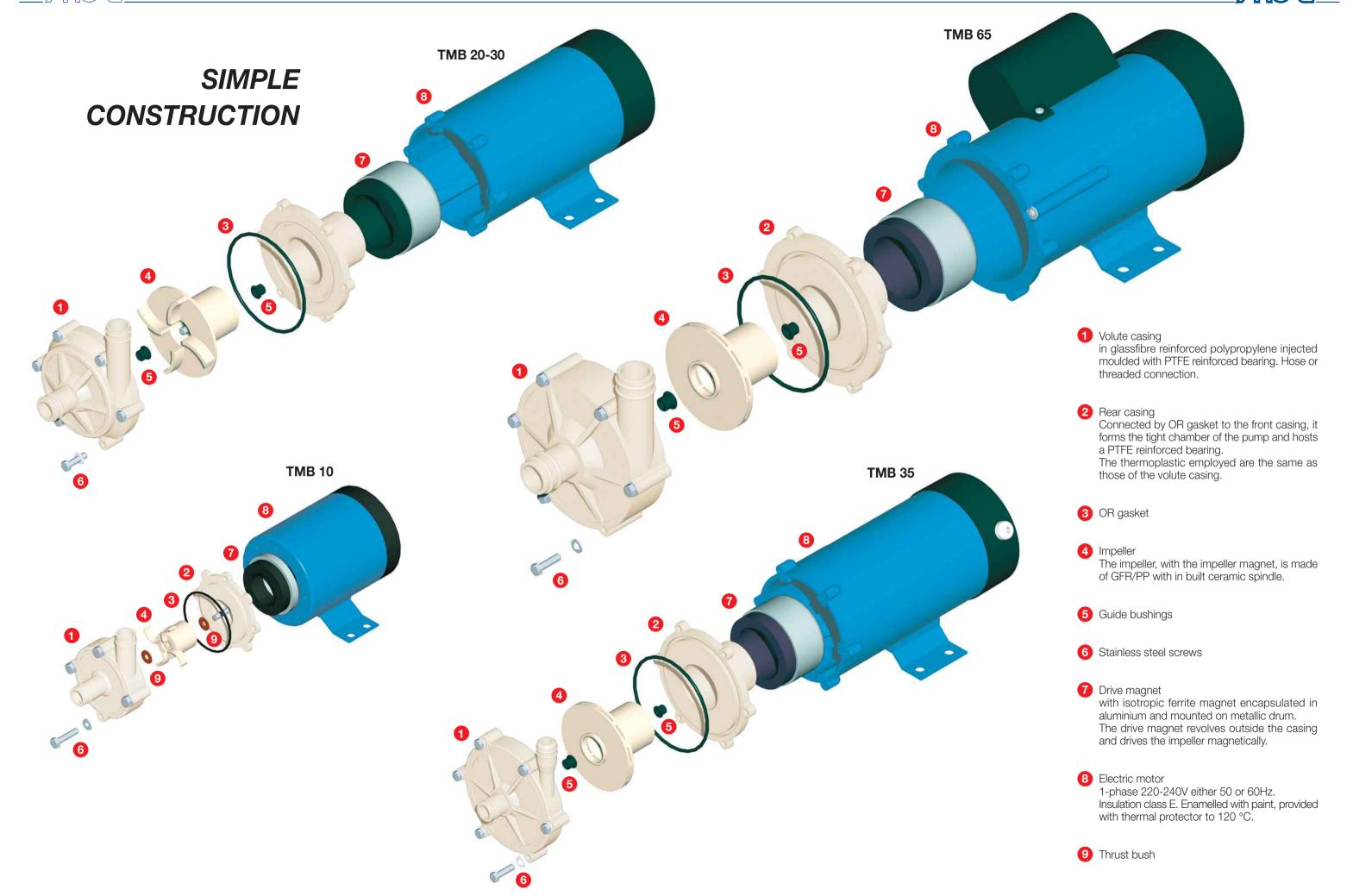
TMB models	10	20 - 30 - 35 - 65			
Execution	WR	WR			
Internal structure	N ₁	N ₁			
Volute casing					
Rear casing	GFR - PP	GFR - PP			
Centrifugal impeller					
Guide bushing	_	GFR/PTFE			
Spindle	CER	CER			
Thrust bush	GFR/PTFE	CER			
OR gasket	FKM	FKM			
Screws	Stainless steel	Stainless steel			

GENERAL PERFORMANCE CURVE



Curves referred to: water et 20 °C - viscosity 1 °E







SPECIFICATIONS

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	Ø inlet	mm	14	18	20	18	26	
		Ø outlet	mm	14	17	20	18	26	
Motor	Power IN (50 / 60Hz)		W	25 / 21	29 / 39	57 / 73	57 / 73	97 / 134	
	Power OUT (50 / 60Hz)			8/7	15 / 21	30 / 43	30 / 43	63 / 87	
	Phases No.			1					
	Std voltage V			AC 220~240 - 50/60Hz					
	Current	(50 / 60Hz)	A	0,12 / 0,10	0,13 / 0,18	0,24 / 0,36	0,24 / 0,35	0,45 / 0,63	
	Speed	(50 / 60Hz)	r.p.m.	2700 / 3200	2800 / 3200	2700 / 3100	2700 / 3100	2800 / 3300	
Pump	Max head	(50 / 60Hz)	M	1,8 / 2,2	3,0 / 4,0	3,4 / 4,5	8,0 / 11,0	6,0 / 8,2	
	Max capacity	(50 / 60Hz)	L/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 regulation	AC 120V - 60 Hz				

OPERATING LIMITS

- The admitted temperature of the liquid pumped is from 0 to 60 °C.
- The max viscosity up to 20 cPt.
- The specific weight not above 1,1 Kg/dm³ (at the max flow).
- The environmental temperature between 0 and 45 °C.

WARNINGS

- 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.

MAIN APPLICATIONS

Water treatment

Aquariums (water games)

Graphic art machinery

Cosmetic industry

Dyeing equipment

Etching equipment

Medical equipment

Storage batteries manufacturer

Electroplating

Silver recovery

Metalwork machinery

Descaling

Fungicide and pesticide

Medical equipment Solar systems
Photographic developing process Laser systems

Chemical laboratories Boats mounted refrigerator

Refrigerator Ice making machines

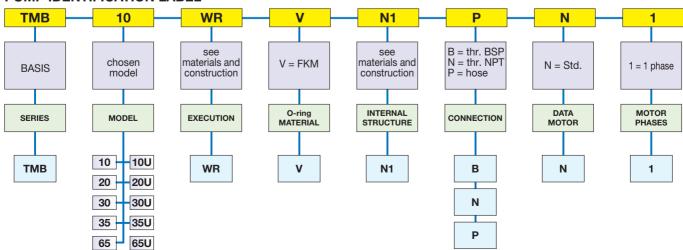
Beverage vending machine Corrosive chemical solutions

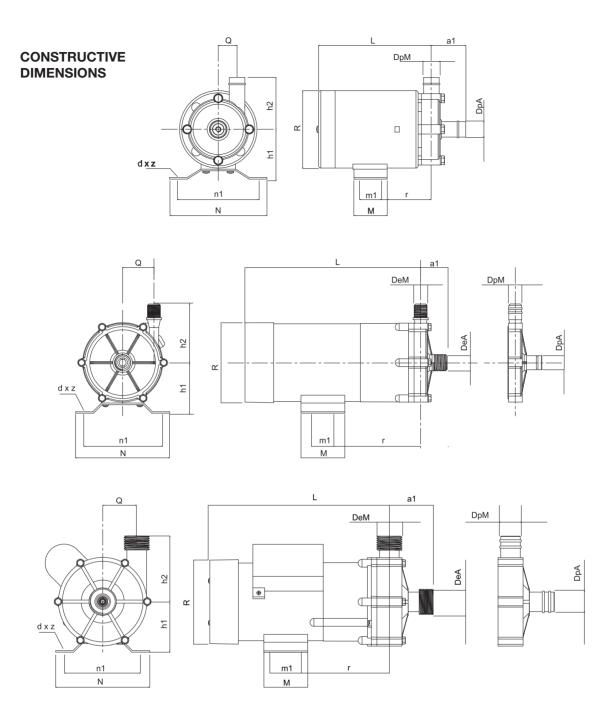
Toxic liquid Sea Water

Pure water (demineralised water) Chemicals to preserve food

Laundry

PUMP IDENTIFICATION LABEL





SPECIFICATIONS

	2011 107 1110 110						
TMB	10	20	30	35	65		
a1	31	37	48	34	62		
h1	45	55	60	60	67		
h2	47	74	75	75	84		
L	100	181	206	206	222		
m1	16	30	40	40	40		
М	30	50	64	64	68		
n1	78	70	100	100	120		
N	90	92	120	120	144		
Q	17	30	32	40	45		
r	46,5	75	94	94	115		
R	71	90	90	90	115		
d x z	Ø 5x4	Ø 6x4	Ø 8x4	Ø 8x4	Ø 8x4		
DeA	_	3/4"	3/4"	1/2"	1"		
DeM	_	3/4"	3/4"	3/8"	1"		
DpA	14	18	20	18	26		
DpM	14	17	20	18	26		

