

VERTICAL CENTRIFUGAL PUMPS



The IM series of resin-encased vertical centrifugal pumps features high-performance pumps for fixed installations with pump immersed directly in the tank and operated by a direct-drive electric motor (max 3000 rpm) for fast fluid drainage with flow rates ranging from 6 to 75 m³/h and head up to 38 mt.

IM COMPOSITION CODES

ex. **IM095P-V0800N**
IM95 in PP, O-RING Viton, column length 800 mm, three-phase motor

IM095	P -	V	0800	N
PUMP MODEL	PUMP MATERIAL	O-RING	COLUMN LENGTH	MOTOR
IM 80 - IM 80 IM 90 - IM 90 IM 95 - IM 95 IM 110 - IM 110 IM 120 - IM 120 IM 130 - IM 130 IM 140 - IM 140 IM 150 - IM 150 IM 155 - IM 155 IM 160 - IM 160 IM 180 - IM 180	P - Polypropylene FC - PVDF+CF	D - EPDM V - Viton	0250 - 250 mm** 0500 - 500 mm 0800 - 800 mm 1000 - 1000 mm 1250 - 1250 mm	N* - Three-phase motor M - Single-phase motor A - ATEX motor

* Standard motor is the three-phase induction type with European voltage (2-pole) 50Hz -
** only available for IM 80/90 pumps

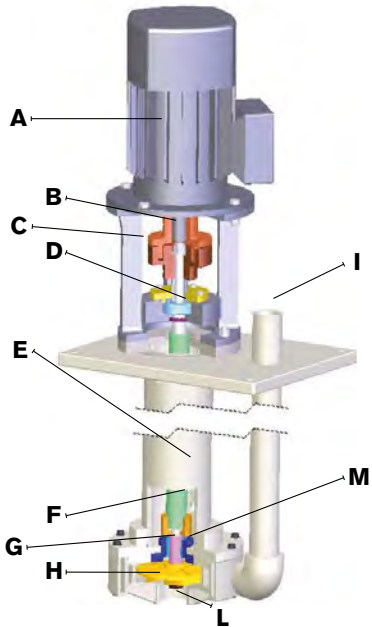
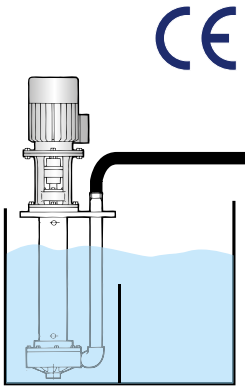
The special design of this type of pump avoids the use of internal mechanical seals (subject to heavy wear) and ensures that any accidental spillages are collected in the tank.

The open impeller allows continuous pumping even with very dirty liquids having apparent viscosity of up to 500 cps (at 20°C) and small suspended solids.

The choice of pump construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range.

HOW IT WORKS

The impeller is integral with the shaft and direct-drive electric motor and is rotated at a preset speed with the centrifugal effect producing suction on the intake side and discharge on the delivery side.



- A = electric motor
- B = drive coupling
- C = lantern
- D = radial bearing
- E = outer column
- F = shaft sleeve
- G = ceramic bushing
- H = impeller
- I = delivery duct
- L = intake duct
- M = bushing

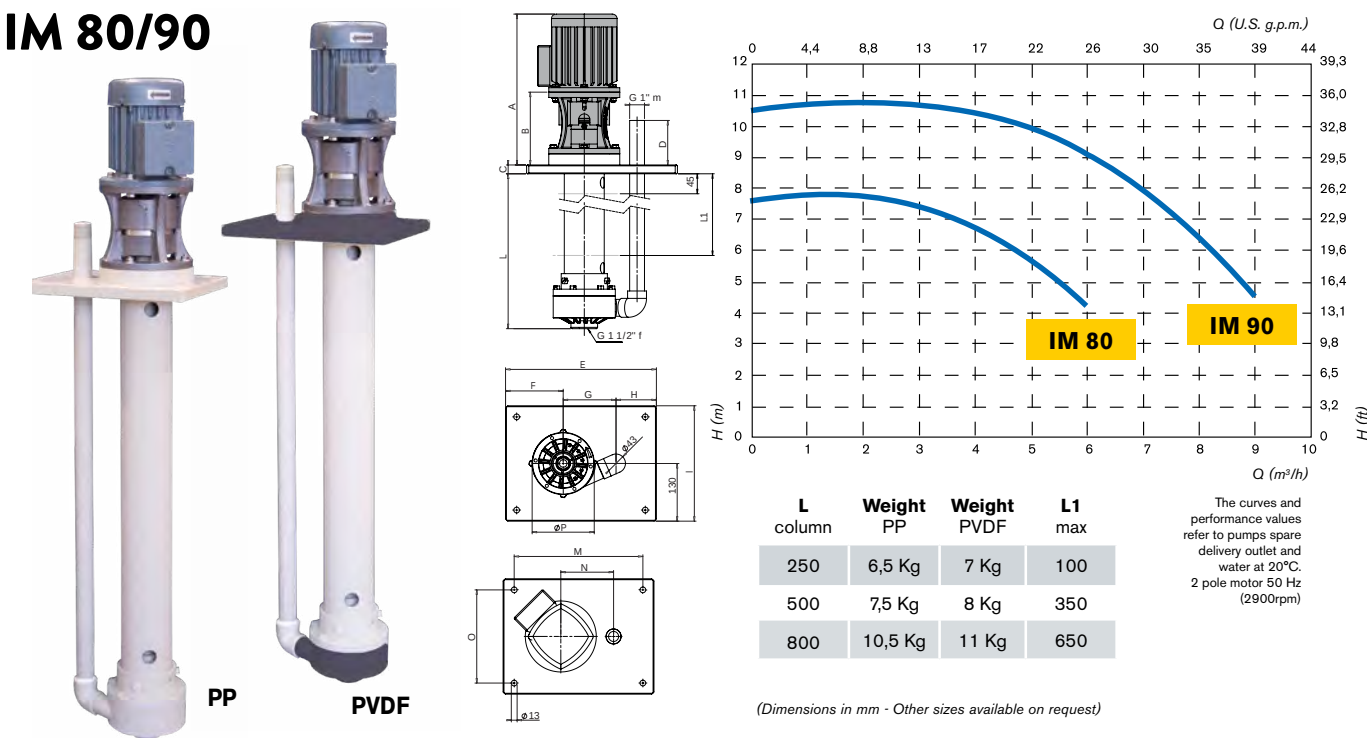
pump	motor power
IM 80	0.37 Kw - 0.5 HP
IM 90	0.55 Kw - 0.75 HP
IM 95	0.75 Kw - 1 HP
IM 110	1.1 Kw - 1.5 HP
IM 120	1.5 Kw - 2 HP
IM 130	2.2 Kw - 3 HP
IM 140	3 Kw - 4 HP
IM 150	4 Kw - 5.5 HP
IM 155	5.5 Kw - 7.5 HP
IM 160	7.5 Kw - 10 HP
IM 180	11 Kw - 15 HP

MAIN FEATURES

- Construction materials: PP, PVDF
- Pump immersed in the tank
- Motor removable even with pump installed
- Weldless
- Usable even with extremely dirty liquids
- High flow rates: from 6 to 75 m³/h
- User-friendly bushing replacement
- Quick and easy maintenance
- Also available without motor
- Max. head: 7,2 ÷ 38 m
- Viscosity: up to 500 cps
- European voltage motors: IP55 - F Class - 2-pole - 230/400 V 50/60 Hz - three-phase single phase from 0,55 kw to 2,2 Kw - 50/60 Hz
- Column length (L): 500/800/1000/1250 mm (other sizes available on request)

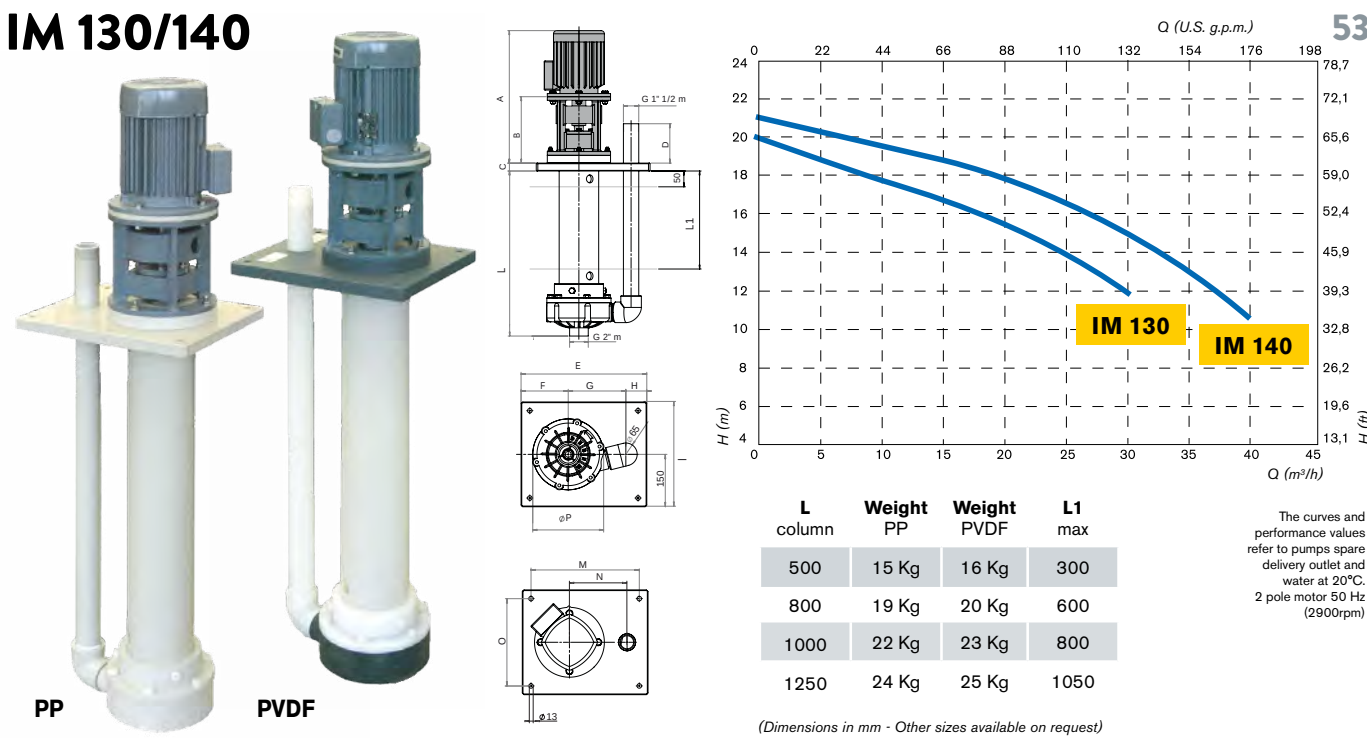
Max. operating temperature:
PP min +3°C/max +65°C
PVDF min +3°C/max +95°C

IM 80/90



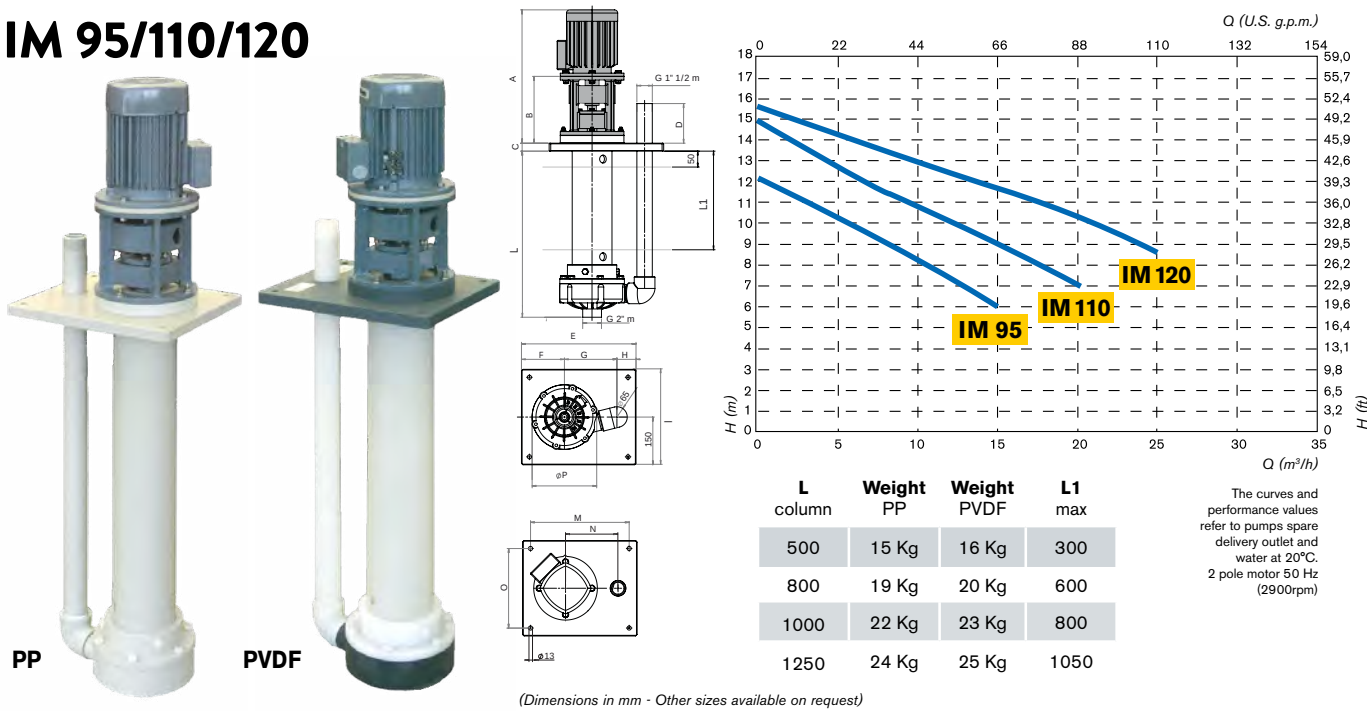
MODEL	POWER	Ø PASSING SOLIDS	A	B	C	D	E	F	G	H	I	M	N	O	P	KG MOTOR
IM 80	0.37 Kw - 0.5 HP	7	340	164	20	100	340	130	119	91	260	290	119	210	Ø140	8
IM 90	0.55 Kw - 0.75 HP	10	340	164	20	100	340	130	119	91	260	290	119	210	Ø140	8

IM 130/140



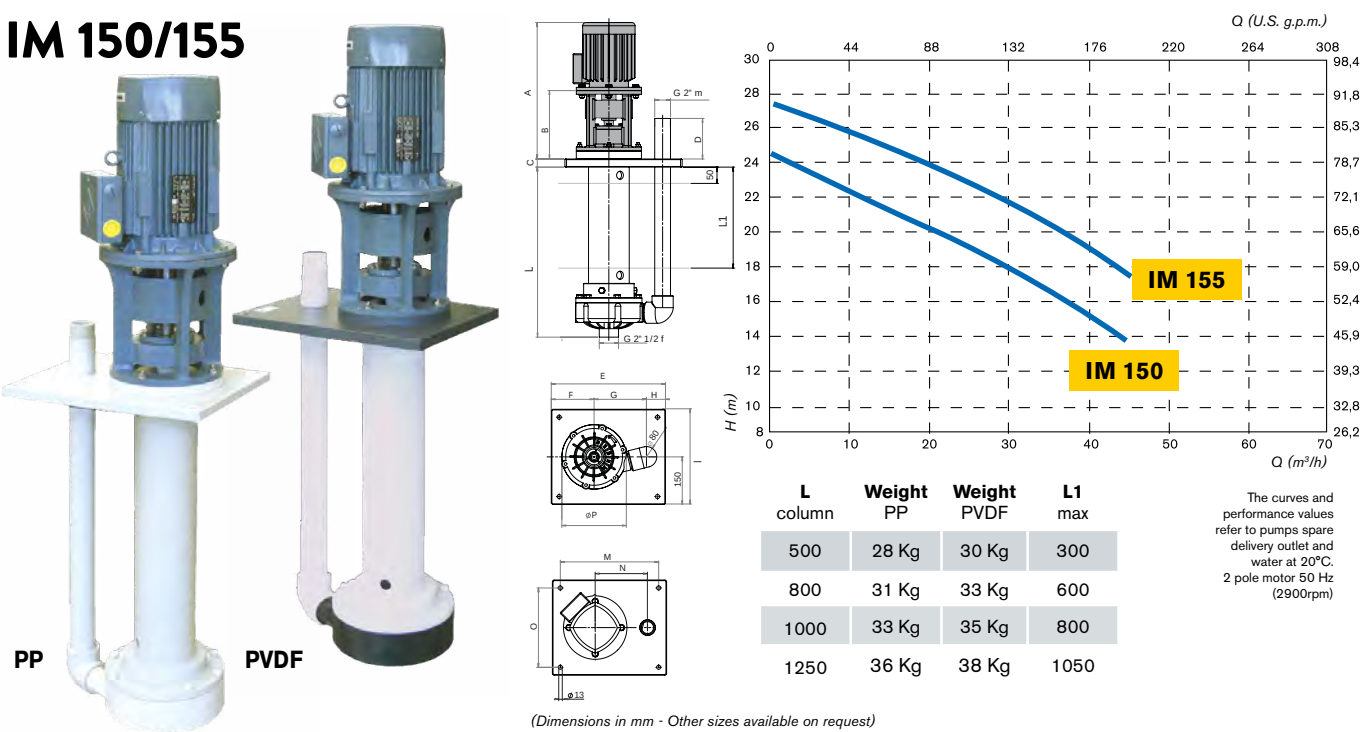
MODEL	POWER	Ø PASSING SOLIDS	A	B	C	D	E	F	G	H	I	M	N	O	P	KG MOTOR
IM1 30	2.2 Kw - 3 HP	6	467	220	25	125	360	135	165	60	300	310	165	250	Ø203	20
IM 140	3 Kw - 4 HP	12	507	235	25	120	360	135	165	60	300	310	165	250	Ø203	34

IM 95/110/120



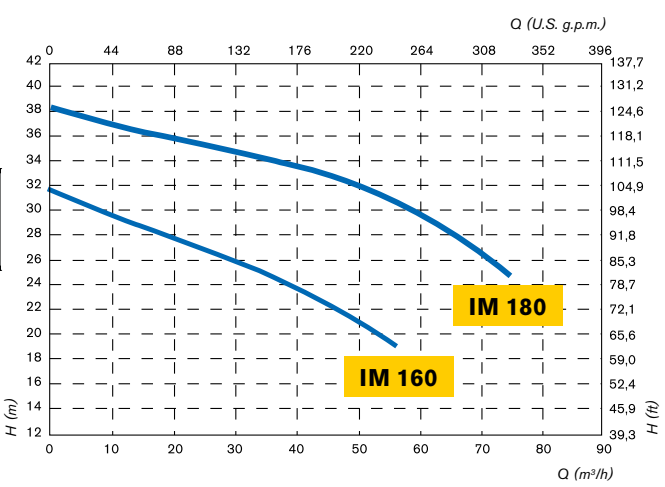
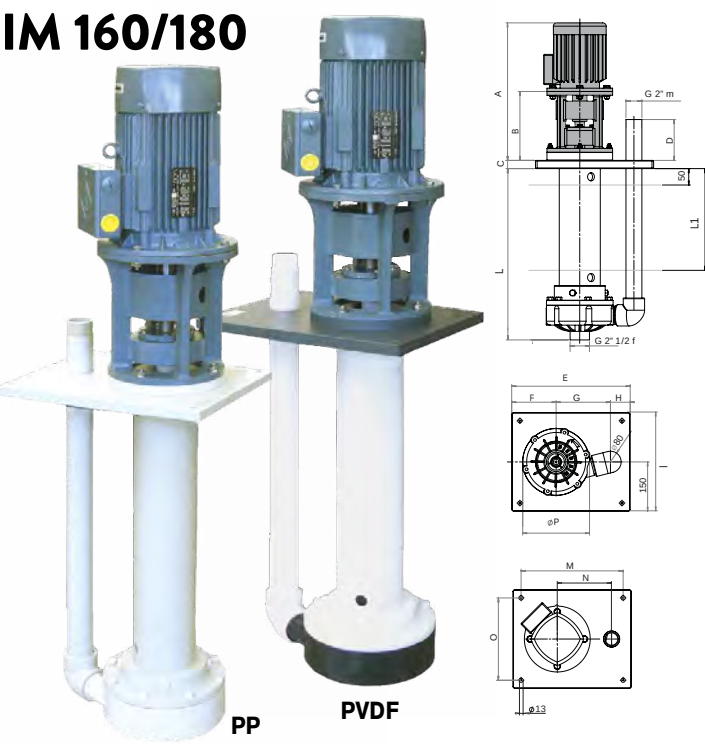
MODEL	POWER	Ø PASSING SOLIDS	A	B	C	D	E	F	G	H	I	M	N	O	P	KG MOTOR
IM 95	0.75 Kw - 1 HP	6	419	210	25	125	360	135	165	60	300	310	165	250	Ø203	12
IM 110	1.1 Kw - 1.5 HP	6	419	210	25	125	360	135	165	60	300	310	165	250	Ø203	13
IM 120	1.5 Kw - 2 HP	6	446	220	25	125	360	135	165	60	300	310	165	250	Ø203	17

IM 150/155



MODEL	POWER	Ø PASSING SOLIDS	A	B	C	D	E	F	G	H	I	M	N	O	P	KG MOTOR
IM 150	4 Kw - 5.5 HP	2	532	233	25	132	480	170	215	95	380	430	215	330	Ø275	36
IM 155	5.5 Kw - 7.5 HP	2	682	303	25	130	480	170	215	95	380	430	215	330	Ø275	53

IM 160/180



L column	Weight PP	Weight PVDF	L1 max
500	31 Kg	33 Kg	300
800	34 Kg	36 Kg	600
1000	36 Kg	38 Kg	800
1250	39 Kg	41 Kg	1050

The curves and performance values refer to pumps spare delivery outlet and water at 20°C. 2 pole motor 50 Hz (2900rpm)

(Dimensions in mm - Other sizes available on request)

MODEL	POWER	Ø PASSING SOLIDS	A	B	C	D	E	F	G	H	I	M	N	O	P	KG MOTOR
IM 160	7.5 Kw - 10 HP	9	702	303	25	130	480	170	215	95	380	430	215	330	Ø275	61
IM 180	11 Kw - 15 HP	11	752	303	25	130	480	170	215	95	380	430	215	330	Ø275	71

