|-MPC



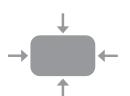




EASY TO INSTALL Plug And play solution



ECONOMIC SAVING High efficiency single-phase motor



EASY TO USE Equipped with programmable logic, the product allows programming thanks to the simple and intuitive display.

Self-priming swimming pool pumps boosting system with integrated control





Construction

Self-priming swimming pool pumps with built-in strainer and motor insulated from pumped water.

The pump is made with high quality plastic materials, corrosion and sand erosion resistant.

With stainless steel diffuser.

Base-plate kit.

Applications

For water circulation in swimming pool filtration systems. For clean or slightly dirty water with solids in suspension.

Operating conditions

Liquid temperature from 0 °C to +40 °C. Ambient temperature up to 40° C. Maximum permissible pressure in the pump casing 2,5 bar. Continuous duty.

Motor

2-pole induction motor. Nominal speed 3970 rpm - Motor: variable speed Frequency: 50-60 Hz

Single-phase 220-240V~50Hz/220V~60Hz, with thermal protector.

Cable: H07RN8-F, 3G1,5 mm2, length 1,5 m, with plug

CEI-UNEL 47166. Insulation class F. Protection IP X4.

Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Features

- · integrated frequency converter
- · high efficiency asynchronous motor
- · motor power control
- · voltage and current control
- · monitoring of maximum starting current

Protections

- · dry-run protection
- · detects the presence of air in the pump casing
- · overload control and overheating motor control
- · pump blockage
- power supply control
- · starts per hour control
- · detects small leakages in the system

Designation

Example: I-MPCM 31

I = Version with integrated frequency converter

MPC = Series

M = Singlephase version (no indication: threephase)

31 = Pump type

Materials

Components	Materials
Pump casing	Noryl PPO-GF30
Diffuser cover	Noryl PPO-GF30
Impeller	Noryl PPO-GF30
Strainer cover	Lexan
Strainer basket	Polypropylene
Diffuser funnel and wear-ring	Steel 1.4401 EN 10088 (AISI 316)
Mechanical seal	Carbon - Ceramic - FPM

Performance

Single-phase

	Q = Flow													
			m³/h	0	2	4	6	8	10	12	14	16		
Model	230V	P1	l/min	0	33,3	66,6	100	133	167	200	233	267		
	Α	kW	H (m) = Total head											
I-MPCM 31	4,6	1,05		15,6	15,6	15,2	14,4	13,4	11,9	10,2	8,1	5,6		

P1: Maximum power input.

P2: Rated motor power output.

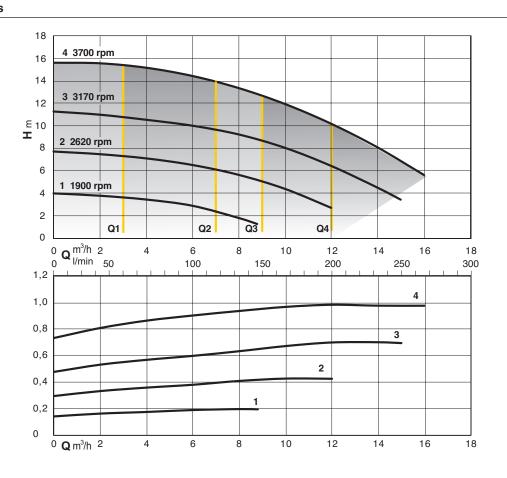
H: Total head in m.

Tolerances according to UNI EN ISO 9906:2012





Characteristic curves





Constant flow mode

Q1 - Q2 - Q3 - Q4

In this mode, the system keeps the preset flow rate constant as the pressure required by the system varies.

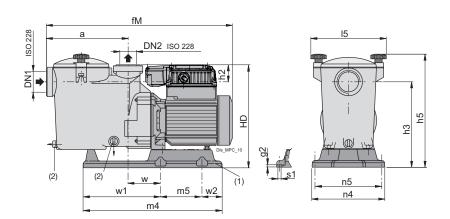


Programmable Speed Mode

1 - 2 - 3 - 4

In this mode, by changing the working frequency, it is possible to choose one of the 4 utilization curves included within the working range.

Dimensions and weights



TYPE				mm P													Kg		
	DN1	DN2	а	fM	g2	h2	h3	h5	HD	15	m4	m5	n4	n5	s1	w	w1	w2	Weight
I-MPCM 31	G2	G1 1/2	235	546	7	50	243	323	293	215	410	123	215	197	9	100	128.5	158.5	12.7





Control Panel



They allow to visualize:

- Initial screen (rUn, OFF, StB, Err)
 Motor Operating Frequency
- Supply current input
- Supply electrical power input
- Supply voltage

Features

Strong transparent Lexan strainer cover Strong Noryl pump casing Large capacity strainer basket Stainless steel AISI 316 wear-ring diffuser-funnel, for extra Diffuser with peripheral-longitudinal flow, for a quicker self-

priming

