

MADE IN ITALY







From an evolution of the classic JET concept a SUPER JET was born. The self-priming pump of the future!

Our Research and Development department has accomplished the evolution of the classic self-priming pump and designing the **FUTURE JET.**

FUTURE JET, which has an internationally filed patent, is able to obtain the same pressure as a classic JET whilst at the same time doubling its capacity and achieving a reduction in energy consumption of up to 50%.

- * High hydraulic efficiency
- Energy savings up to 50%
- Reduction of turbulence for a very stable operation of the pump
- * A better power/flow ratio



A BRIEF HISTORY

Self-priming ejector pumps were designed about 60 years ago. These types of pumps were a great success, mainly for two reasons:

- 1. self-priming up to 9 metres in depth
- 2. an increase in pressure because of the internal recirculation of a part of the water already under pressure thanks to the impeller

On the other hand the greatest limit of this pump is the low flow rate, actually a half of what can be reached with a classic centrifugal pump of the same power. A classic JET pump will take twice the time of a centrifugal pump to process the same amount of water, thus doubling the energy consumption.

* This limitation no longer applies with the new FUTURE JET.

PERFORMANCE RANGE

Flow rate up to 120 l/min (7.2 m³/h) Head up to 58 m

APPLICATION LIMITS

Manometric suction lift up to 9 m (HS) Liquid temperature between -10 °C and +40 °C Ambient temperature up to +40 °C Max. working pressure in pump body 6 bar Continuous service S1

INSTALLATION AND USE

Suitable for pumping clean water and liquids which are not chemically aggressive for the materials of the pump.

The self-priming **FUTURE JET** pumps are designed to pump water even in cases where air is present. Because of their reliability and the fact that they are easy to use, they are recommended for use in do-

mestic applications such as the distribution of water coupled with small or medium-sized pressure tanks for irrigating vegetable gardens or gardens, etc. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS

- *** FUTURE JET® Registered Trade Mark nº 018198453**
- * Registered EU design n° 002218610
- * Patent n° PCT/IT2019/050168

OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency
- Pumps with impeller in technopolymer

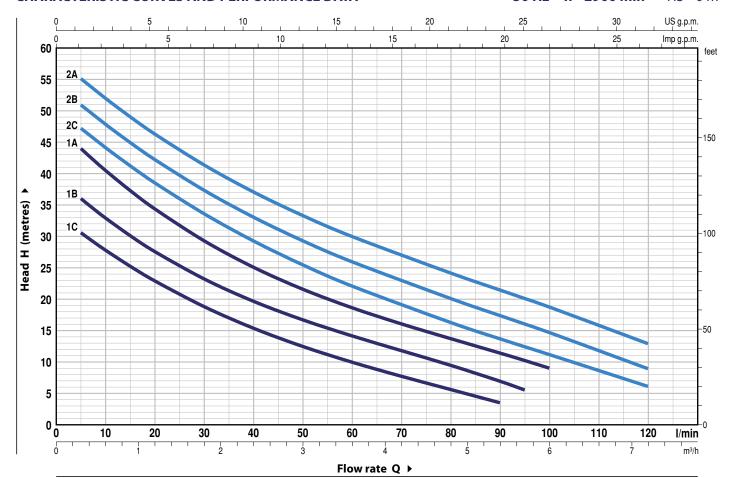
WARRANTY

2 years in accordance with our general conditions of sale



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹ HS = 0 m



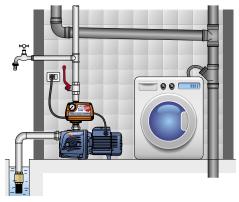
МО	DEL	PO	VER (P	2)	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	5.7	6	7.2
Single-phase	Three-phase	kW	HP	•	Q I/min	0	5	10	20	40	60	80	90	95	100	120
FUTURE JETm 1C	FUTURE JET 1C	0.37	0.50			33.5	30.5	27.7	22.9	15.4	10	6	3.5			
FUTURE JETm 1B	FUTURE JET 1B	0.48	0.65	IE2		39.5	36	33	27.6	19.7	14.2	9.5	7	5.5		
FUTURE JETm 1A	FUTURE JET 1A	0.55	0.75		H metres	48	44	40.6	34.5	25.2	18.7	13.7	11.4	10.2	9	
FUTURE JETm 2C	FUTURE JET 2C	0.75	1		n metres	50	47	43.8	38.3	29	22	16.2	13.5	12.3	11	6
FUTURE JETm 2B	FUTURE JET 2B	0.90	1.25	IE3		54	51	47.8	42.2	33	26	20.2	17.5	16	14.7	9
FUTURE JETm 2A	FUTURE JET 2A	1.1	1.5			58	55	51.8	46.2	37	30	24.2	21.5	20	18.8	13

Q = Flow rate **H** = Total manometric head **HS** = Suction height

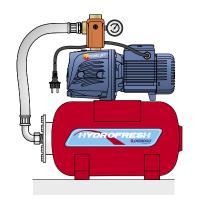
▲ Three-phase motor efficiency class (IEC 60034-30-1)

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

STANDARD INSTALLATION





















Self-priming "JET" pumps



POS.	COMPONENT	CONSTRUCTION CH	IARACTE	RISTICS			
1	PUMP BODY	Cast iron with an Epoxy (for FUTURE JET 1)		_			liance with ISO 228/
		Cast iron, with threaded	ports in co	mpliance with	ISO 228/1 (for F	UTURE JET 2)	
2	BODY BACKPLATE	Stainless steel AISI 304					
3	NOZZLE ASSEMBLY	Noryl					
4	IMPELLER	Stainless steel AISI 304					
5	MOTOR SHAFT	Stainless steel AISI 431					
6	MECHANICAL SEAL	Pump	Seal	Shaft		Materi	als
		Model	Model	Diameter	Stationary ring	Rotating ring	Elastomer
		FUTURE JET 1	AR-12	Ø 12 mm	Ceramic	Graphite	NBR
		FUTURE JET 2	AR-14	Ø 14 mm	Ceramic	Graphite	NBR
7	BEARINGS	Pump	Model				
		FUTURE JET 1	6201 ZZ	/ 6201 ZZ			
		FUTURE JET 2	6203 ZZ	/ 6203 ZZ			
8	CAPACITOR	Pump	Capacita	nce			
		Single-phase	(230 V o 24	10 V)			
		FUTURE JETm 1C	10 μF - 4	450 VL			
		FUTURE JETm 1B	12.5 μF- 4				
		FUTURE JETm 1A	14 μF - 4	450 VL			
		FUTURE JETm 2C	20 μF - 4	450 VL			
		FUTURE JETm 2B	25 μF - 4	450 VL			
		FUTURE JETm 2A	25 μF - 4	450 VL			

9 ELECTRIC MOTOR

FUTURE JETm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. **FUTURE JET**: three-phase 230/400 V - 50 Hz.

➡ the three-phase pumps are fitted with high performance motors up to P2=0.55 kW in class IE2 and from P2=0.75 kW in class IE3 (IEC 60034-30-1)

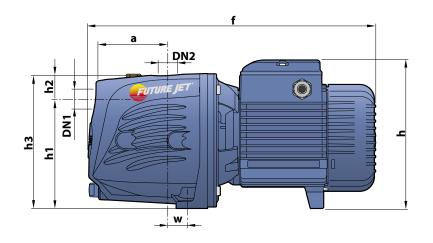
Insulation: class FProtection: IP X4



Self-priming "JET" pumps



DIMENSIONS AND WEIGHT





МС	DDEL	PO	RTS				C	IMENS	IONS mi	n				k	g
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
FUTURE JETm 1C	FUTURE JET 1C													9.7	9.7
FUTURE JETm 1B	FUTURE JET 1B			94	357	171	127	35	162	158	124	24	10	9.8	9.8
FUTURE JETm 1A	FUTURE JET 1A	1"	1"											10.7	9.8
FUTURE JETm 2C	FUTURE JET 2C	"	1											13.4	13.4
FUTURE JETm 2B	FUTURE JET 2B			96	389	200 *	147	33	180	180	142	22	10	14.0	14.0
FUTURE JETm 2A	FUTURE JET 2A													15.0	14.0

^(*) h=220 mm for single-phase version at 110 V

ELECTRICAL INPUTS

MODEL	VOL	TAGE
Single-phase	230 V	240 V
FUTURE JETm 1C	2.6 A	2.5 A
FUTURE JETm 1B	3.2 A	3.1 A
FUTURE JETm 1A	4.0 A	3.9 A
FUTURE JETm 2C	5.0 A	4.8 A
FUTURE JETm 2B	5.8 A	5.7 A
FUTURE JETm 2A	6.6 A	6.5 A

MODEL			VOL	ΓAGE		
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
FUTURE JET 1C	1.7 A	1.0 A	0.6 A	1.7 A	1.0 A	0.6 A
FUTURE JET 1B	2.1 A	1.2 A	0.7 A	2.1 A	1.2 A	0.7 A
FUTURE JET 1A	2.8 A	1.6 A	0.9 A	2.8 A	1.6 A	0.9 A
FUTURE JET 2C	3.5 A	2.0 A	1.2 A	3.4 A	1.9 A	1.1 A
FUTURE JET 2B	4.6 A	2.7 A	1.6 A	4.5 A	2.6 A	1.5 A
FUTURE JET 2A	5.1 A	3.0 A	1.7 A	4.9 A	2.8 A	1.7 A

PALLETIZATION

МС	GROUPAGE	
Single-phase	Three-phase	n° pumps
FUTURE JETm 1C	FUTURE JET 1C	98
FUTURE JETm 1B	FUTURE JET 1B	98
FUTURE JETm 1A	FUTURE JET 1A	98
FUTURE JETm 2C	FUTURE JET 2C	72
FUTURE JETm 2B	FUTURE JET 2B	72
FUTURE JETm 2A	FUTURE JET 2A	72