









From an evolution of the classic JET concept a SUPER JET was born. The stainless steel 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-ST.**

FUTURE JET-ST, 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
- Stainless steel pump body and impeller

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-ST.

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-ST** 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 domestic 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 n° 018198453

※ Patent n° PCT/IT2019/050168

OPTIONS AVAILABLE ON REQUEST

Other voltages

WARRANTY

2 years in accordance with our general conditions of sale



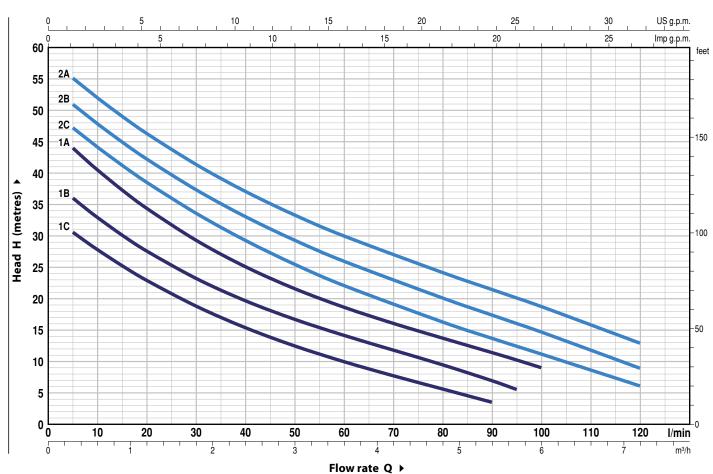




CHARACTERISTIC CURVES AND PERFORMANCE DATA

Self-priming "JET" pumps



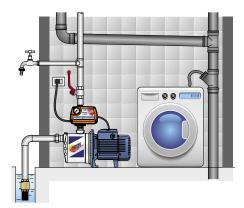


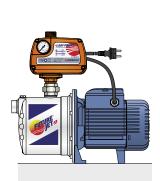
MODEL		POWER (P2)		m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	5.7	6	7.2	
Single-phase	Three-phase	kW	HP		▲ Q I/min	0	5	10	20	40	60	80	90	95	100	120
FUTURE JETm 1C-ST	FUTURE JET 1C-ST	0.37	0.50	IE2		33.5	30.5	27.7	22.9	15.4	10	6	3.5			
FUTURE JETm 1B-ST	FUTURE JET 1B-ST	0.48	0.65			39.5	36	33	27.6	19.7	14.2	9.5	7	5.5		
FUTURE JETm 1A-ST	FUTURE JET 1A-ST	0.55	0.75			48	44	40.6	34.5	25.2	18.7	13.7	11.4	10.2	9	
FUTURE JETm 2C-ST	FUTURE JET 2C-ST	0.75	1		H metres	50	47	43.8	38.3	29	22	16.2	13.5	12.3	11	6
FUTURE JETm 2B-ST	FUTURE JET 2B-ST	0.90	1.25	IE3	IE3	54	51	47.8	42.2	33	26	20.2	17.5	16	14.7	9
FUTURE JETm 2A-ST	FUTURE JET 2A-ST	1.1	1.5			58	55	51.8	46.2	37	30	24.2	21.5	20	18.8	13

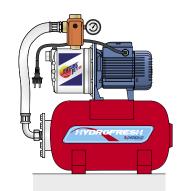
 $\mathbf{Q} = Flow rate \ \mathbf{H} = Total manometric head \ \mathbf{HS} = Suction height$

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

STANDARD INSTALLATION







COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =









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





COMPONENT CONSTRUCTION CHARACTERISTICS

PUMP BODY	Stainless steel AISI 304, with threaded ports in compliance with ISO 228/1							
BODY BACKPLATE	Stainless steel AISI 304							
NOZZLE ASSEMBLY	Noryl							
IMPELLER	Stainless steel AISI 304							
MOTOR SHAFT	Stainless steel AISI 431							
MECHANICAL SEAL	Pump	Seal	Shaft		Materi			
	Model	Model	Diameter	Stationary ring	Rotating ring	Elastomer		
	FUTURE JET 1-ST	AR-12	Ø 12 mm	Ceramic	Graphite	NBR		
	FUTURE JET 2-ST	AR-14	Ø 14 mm	Ceramic	Graphite	NBR		
BEARINGS	Pump	Model						
	FUTURE JET 1-ST	6201 ZZ	/ 6201 ZZ					
	FUTURE JET 2-ST	6203 ZZ	/ 6203 ZZ					
ELECTRIC MOTOR	FUTURE JETm-ST: singl FUTURE JET-ST: three				l protector inco	rporated into the v	winding.	
	the three-phase purple in the three-phase purple in the provide the provided the	-	-		•	1)		
	– Insulation: class F							
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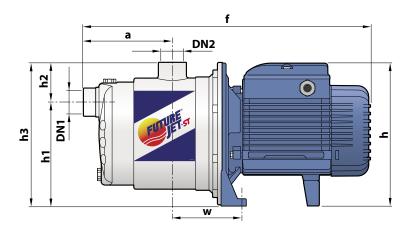
- Protection: IP X4

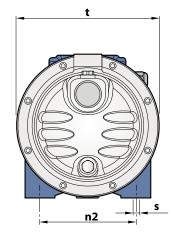




Self-priming "JET" pumps

DIMENSIONS AND WEIGHT





МО	DEL	PO	RTS				D	IMENS	IONS m	m				k	g												
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~												
FUTURE JETm 1C-ST	FUTURE JET 1C-ST		1" 1"	113	3 367	183	3 132	32 51	183	182	120	87	9	6.9	7.0												
FUTURE JETm 1B-ST	FUTURE JET 1B-ST	1"												6.9	6.9												
FUTURE JETm 1A-ST	FUTURE JET 1A-ST													7.6	6.9												
FUTURE JETm 2C-ST	FUTURE JET 2C-ST													10.2	10.0												
FUTURE JETm 2B-ST	FUTURE JET 2B-ST	1"	1"	111	111	111	111	111	111	111	111	111	111	111	111	111	393	217 *	7 * 162	162 46	208	208	142	91	10	11.1	11.0
FUTURE JETm 2A-ST	FUTURE JET 2A-ST													11.8	11.1												

(*) h=236 mm for single-phase version at 110 V

ELECTRICAL INPUTS -

MODEL			
Single-phase	220 V	110 V	127 V
FUTURE JETm 1C-ST	3.0 A	6.0 A	5.2 A
FUTURE JETm 1B-ST	3.3 A	6.6 A	5.7 A
FUTURE JETm 1A-ST	4.0 A	8.0 A	6.9 A
FUTURE JETm 2C-ST	5.0 A	10.0 A	9.0 A
FUTURE JETm 2B-ST	6.7 A	13.4 A	11.6 A
FUTURE JETm 2A-ST	6.9 A	13.8 A	12.9 A

MODEL	VOLTAGE								
Three-phase	220 V	380 V	220 V	440 V					
FUTURE JET 1C-ST	2.0 A	1.15 A	1.7 A	1.1 A					
FUTURE JET 1B-ST	2.3 A	1.3 A	2.1 A	1.2 A					
FUTURE JET 1A-ST	3.1 A	1.8 A	2.6 A	1.5 A					
FUTURE JET 2C-ST	3.8 A	2.2 A	3.6 A	2.0 A					
FUTURE JET 2B-ST	5.3 A	3.0 A	3.7 A	2.1 A					
FUTURE JET 2A-ST	5.8 A	3.3 A	5.5 A	3.1 A					

CAPACITORS -

MODEL	CAPACITANCE							
Single-phase	(220 v)	(110 v)						
FUTURE JETm 1C-ST	10 μF - 450 VL	25 μF - 250 VL						
FUTURE JETm 1B-ST	12.5 μF- 450 VL	25 μF - 250 VL						
FUTURE JETm 1A-ST	14 μF - 450 VL	25 μF - 250 VL						
FUTURE JETm 2C-ST	20 μF - 450 VL	60 μF - 300 VL						
FUTURE JETm 2B-ST	25 μF - 450 VL	60 μF - 300 VL						
FUTURE JETm 2A-ST	25 μF - 450 VL	60 μF - 300 VL						

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