



STAINLESS STEEL  
Self-Priming "JET" Pumps

INTERNATIONAL  
PATENT

ENERGY SAVING  
UP TO 50%



MADE IN ITALY



60 Hz



- Clean Water
- Residential
- Commercial

## Self-priming "JET" pumps

**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 29 feet (9 m) in depth;
2. 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 **31 GPM** (120 l/min) (7.2 m<sup>3</sup>/h)  
Head up to **190 feet** (58 m)

### APPLICATION LIMITS

Maximum Suction Lift up to **29 feet** (9 m)  
Liquid Temperature between **14°F** (-10°C) and **104°F** (+40°C)  
Ambient Temperature up to **104°F** (+40°C)  
Maximum Working Pressure in Pump Body **87 psi** (6 bar)  
Continuous Duty Rating **S1**

### FEATURES AND BENEFITS

- Clean water that does not contain abrasive particles
- Liquids that are not chemically aggressive
- Easy to Use
- Includes Flap Check Valve

### APPLICATIONS AND MARKETS

- Residential
- Irrigation
- Water Distribution
- Small Pressure Tanks
- Water Well Service
- Pressure Boosting Systems
- OEM Equipment

### PATENTS - TRADE MARKS - MODELS

- ※ **FUTURE JET® Registered Trade Mark No. 018198453**
- ※ **Patent No. PCT/IT2019/050168**

### OPTIONS AVAILABLE ON REQUEST

- Other voltages

### WARRANTY

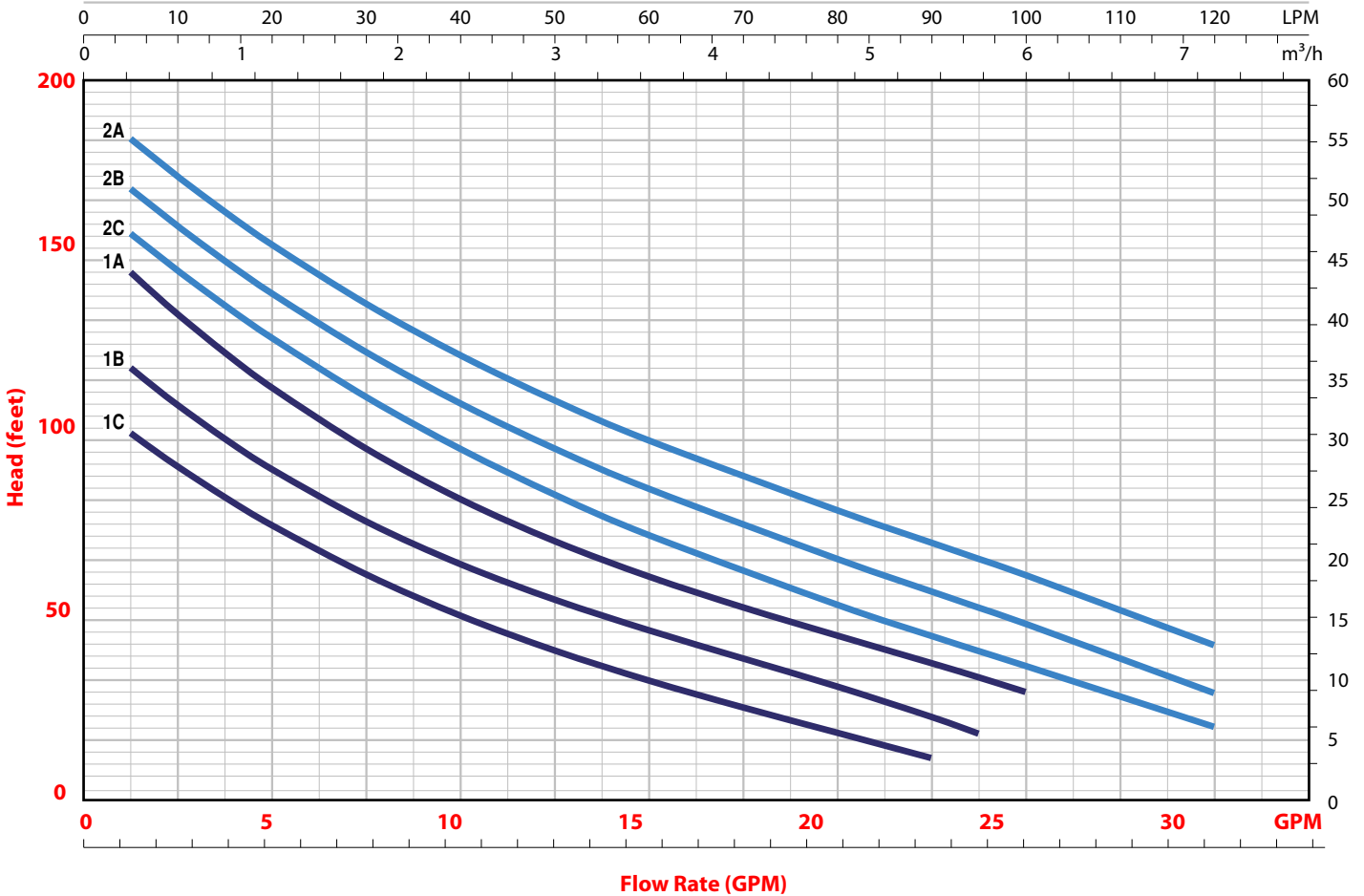
**2 YEARS** in accordance with our general conditions of sale



# Self-priming "JET" Pumps

## PERFORMANCE CURVES AND DATA

60 Hz RPM = 3450

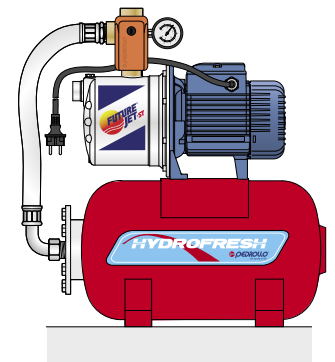
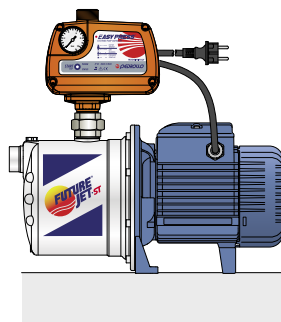
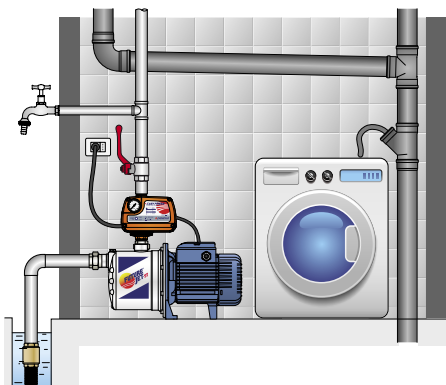


MODEL NUMBER		MOTOR SIZE			LPM	Flow Rate (GPM)												
Single-phase	Three-phase	kW	HP	EFF		GPM	0	5	10	20	40	60	80	90	95	100	120	
FUTURE JETm 1C	FUTURE JET 1C	0.37	0.50	IE2	HEAD (feet)	0	1.3	2.6	5.3	10.6	15.8	21.1	23.8	25.1	26.4	31.7		
FUTURE JETm 1B	FUTURE JET 1B	0.48	0.65			109.9	100.1	90.8	75.1	50.5	32.8	19.7	11.5					
FUTURE JETm 1A	FUTURE JET 1A	0.55	0.75			129.6	118.1	108.3	90.5	64.6	46.6	31.2	22.9	18.0				
FUTURE JETm 2C	FUTURE JET 2C	0.75	1.00	IE3		157.5	144.4	133.2	113.2	82.7	61.4	44.9	37.4	33.5	29.5			
FUTURE JETm 2B	FUTURE JET 2B	0.90	1.25			164.0	154.2	143.7	125.6	95.1	72.2	53.1	44.3	40.3	36.1	19.7		
FUTURE JETm 2A	FUTURE JET 2A	1.10	1.50			177.2	167.3	167.3	138.4	108.3	85.3	66.3	57.4	52.5	48.2	29.5		
					190.3	180.4	169.9	151.6	121.4	98.4	79.4	70.5	65.6	61.7	42.6			

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

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

## STANDARD INSTALLATION



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



## 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	<i>Pump</i>	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>		
	<i>Model</i>	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotating ring</i>	<i>Elastomer</i>
	<b>FUTURE JET 1-ST</b>	<b>AR-12</b>	<b>Ø 0.4 in</b>	Ceramic	Graphite	NBR
	<b>FUTURE JET 2-ST</b>	<b>AR-14</b>	<b>Ø 0.5 in</b>	Ceramic	Graphite	NBR

BEARINGS	<i>Pump</i>	<i>Model</i>
		<b>FUTURE JET 1-ST</b>
	<b>FUTURE JET 2-ST</b>	<b>6203 ZZ / 6203 ZZ</b>

**ELECTRIC MOTOR** **FUTURE JETm-ST:** single-phase 230 V - 60 Hz with thermal overload protector incorporated into the winding.  
**FUTURE JET-ST:** three-phase 230 V/460 V - 60 Hz.

→ **the three-phase pumps are fitted with high performance motors up to P<sub>2</sub>=0.55 kW in class IE2 and from P<sub>2</sub>=0.75 kW in class IE3 (IEC 60034-30-1)**

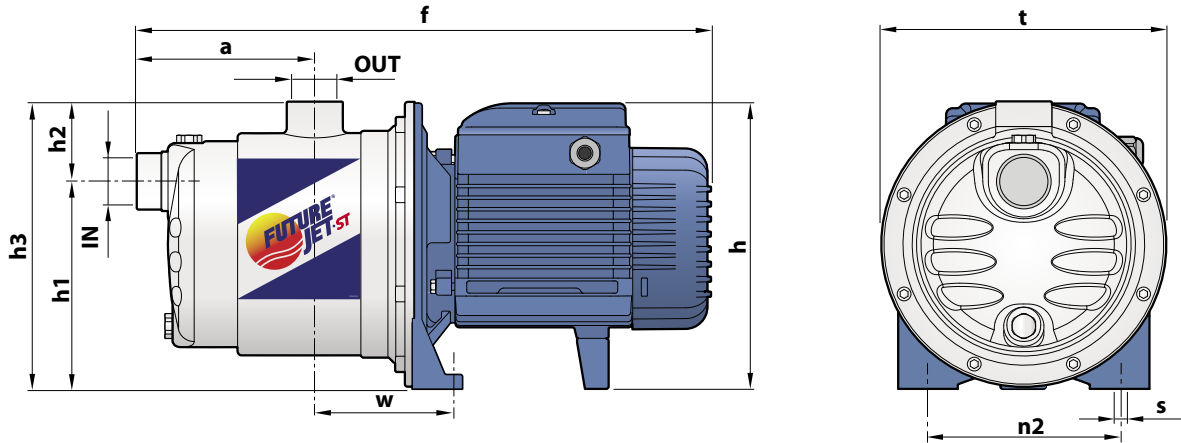
- Insulation: class F
- Protection: IP X4





## Self-priming "JET" Pumps

### DIMENSIONS AND WEIGHT



MODEL NUMBER		PORTS		DIMENSIONS (inches)										Lbs	
Single-phase	Three-phase	IN	OUT	a	f	h	h1	h2	h3	t	n2	w	s	1-PH	3-PH
FUTURE JETm 1C-ST	FUTURE JET 1C-ST	1"	1"	4.4	14.4	7.2	5.2	2.0	7.2	7.2	4.7	3.4	0.3	15.2	15.4
FUTURE JETm 1B-ST	FUTURE JET 1B-ST													15.2	15.2
FUTURE JETm 1A-ST	FUTURE JET 1A-ST													16.7	15.2
FUTURE JETm 2C-ST	FUTURE JET 2C-ST	1"	1"	4.4	15.5	8.5 *	6.4	1.8	8.2	8.2	5.6	3.6	0.4	22.5	22.0
FUTURE JETm 2B-ST	FUTURE JET 2B-ST													24.5	24.3
FUTURE JETm 2A-ST	FUTURE JET 2A-ST													26.0	24.5

(\*) h = 9.3 in (236 mm) for single-phase version at 115 V

### ELECTRICAL INPUTS

MODEL NUMBER	VOLTAGE		
	Single-phase	230 V	115 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 NUMBER	VOLTAGE			
	Three-phase	220 V	380 V	230 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