



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 29 feet (9 m) 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 **31 GPM** (120 l/min) (7.2 m³/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 **14 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
- Registered EU Design No. 002218610
- Patent No. PCT/IT2019/050168

OPTIONS AVAILABLE ON REQUEST

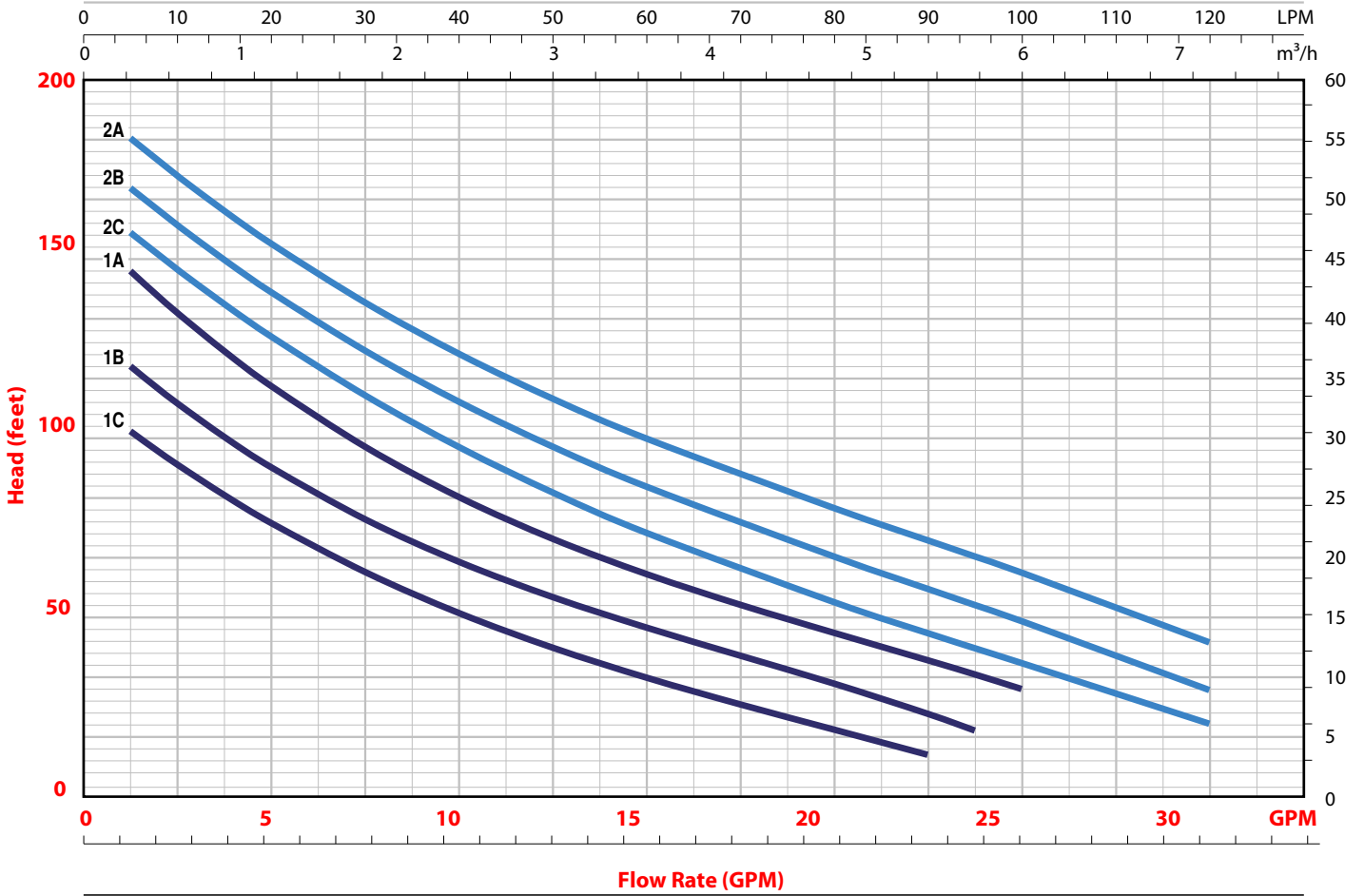
- Other Voltages
- Pumps with Impeller in Technopolymer

WARRANTY

2 YEARS in accordance with our general conditions of sale

PERFORMANCE CURVES AND DATA

60 Hz RPM = 3450

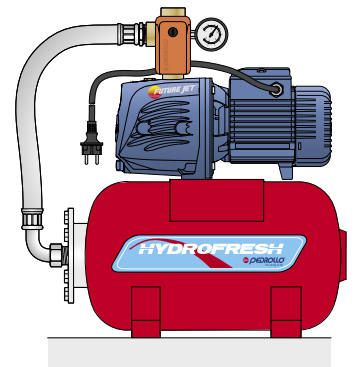
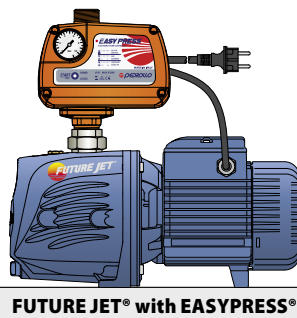
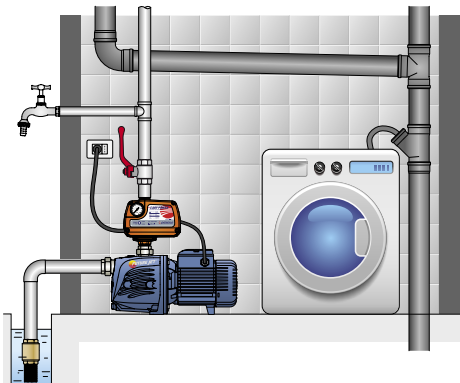


MODEL NUMBER		MOTOR SIZE			LPM	Flow Rate (GPM)												
Single-phase	Three-phase	kW	HP	EFF		GPM	0	5	10	20	40	60	80	90	95	100	120	
FUTURE JETm 1C	FUTURE JET 1C	0.37	0.50	IE2	HEAD (feet)	0	109.9	100.1	90.8	75.1	50.5	32.8	19.7	11.5				
FUTURE JETm 1B	FUTURE JET 1B	0.48	0.65			0	129.6	118.1	108.3	90.5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



COMPONENT CONSTRUCTION CHARACTERISTICS

PUMP BODY Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1 (for **FUTURE JET 1**)
Cast iron, with threaded ports in compliance with ISO 228/1 (for **FUTURE JET 2**)

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>
	FUTURE JET 1	AR-12	Ø 0.4 in	Ceramic	Graphite	NBR
	FUTURE JET 2	AR-14	Ø 0.5 in	Ceramic	Graphite	NBR

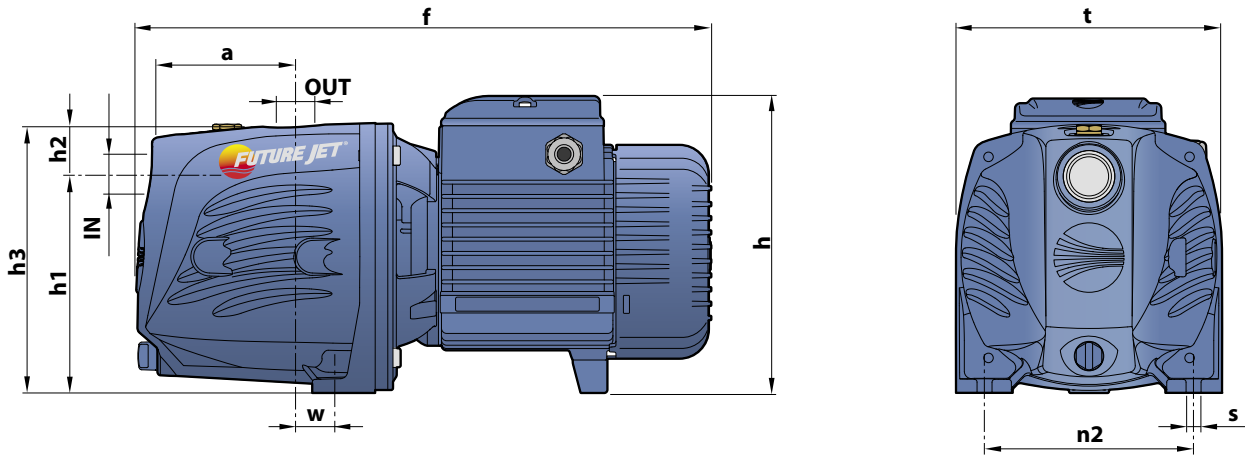
BEARINGS	<i>Pump</i>	<i>Model</i>
	FUTURE JET 1	6201 ZZ / 6201 ZZ
	FUTURE JET 2	6203 ZZ / 6203 ZZ

FUTURE JETm: single-phase 230 V - 60 Hz with thermal overload protector incorporated into the winding.
FUTURE JET: three-phase 220/380 V - 60 Hz or 230/460 V - 60Hz.

➡ **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 F
- Protection: IP X4



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	FUTURE JET 1C	1"	1"	3.7	14.1	6.7	5	1.4	6.4	6.2	4.9	0.94	0.39	21.4	21.4
FUTURE JETm 1B	FUTURE JET 1B													21.6	21.6
FUTURE JETm 1A	FUTURE JET 1A													23.6	21.6
FUTURE JETm 2C	FUTURE JET 2C			3.8	15.3	7.8 *	5.8	1.3	7.1	7.1	5.6	0.86	0.39	29.5	29.5
FUTURE JETm 2B	FUTURE JET 2B													30.8	30.8
FUTURE JETm 2A	FUTURE JET 2A													33.1	30.8

(*) h = 8.7 in (220 mm) for single-phase version at 115 V

ELECTRICAL INPUTS

MODEL	VOLTAGE		
	230 V	115 V	127 V
Single-phase	230 V	115 V	127 V
FUTURE JETm 1C	3.0 A	6.0 A	5.2 A
FUTURE JETm 1B	3.3 A	6.6 A	5.7 A
FUTURE JETm 1A	4.0 A	8.0 A	6.9 A
FUTURE JETm 2C	5.0 A	10.0 A	9.0 A
FUTURE JETm 2B	6.7 A	13.4 A	11.6 A
FUTURE JETm 2A	6.9 A	13.8 A	12.9 A

MODEL	VOLTAGE			
	230 V	380 V	230 V	460 V
Three-phase	230 V	380 V	230 V	460 V
FUTURE JET 1C	2.0 A	1.15 A	1.7 A	1.1 A
FUTURE JET 1B	2.3 A	1.3 A	2.1 A	1.2 A
FUTURE JET 1A	3.1 A	1.8 A	2.6 A	1.5 A
FUTURE JET 2C	3.8 A	2.2 A	3.6 A	2.0 A
FUTURE JET 2B	5.3 A	3.0 A	3.7 A	2.1 A
FUTURE JET 2A	5.8 A	3.3 A	5.5 A	3.1 A

CAPACITORS

MODEL	CAPACITANCE	
	(230 v)	(115 v)
Single-phase	(230 v)	(115 v)
FUTURE JETm 1C	10 μF - 450 VL	25 μF - 250 VL
FUTURE JETm 1B	12.5 μF - 450 VL	25 μF - 250 VL
FUTURE JETm 1A	14 μF - 450 VL	25 μF - 250 VL
FUTURE JETm 2C	20 μF - 450 VL	60 μF - 300 VL
FUTURE JETm 2B	25 μF - 450 VL	60 μF - 300 VL
FUTURE JETm 2A	25 μF - 450 VL	60 μF - 300 VL