

PLURIJET 80-100

Self-priming multi-stage pumps



PLURIJET 80-100

Impeller: **stainless steel AISI 304**



PLURIJET 80X-100X

Impeller: **Noryl**

 Clean water

 Domestic use

 Civil use



PERFORMANCE RANGE

- Flow rate up to **130 l/min** (7.8 m³/h)
- Head up to **52 m**

APPLICATION LIMITS

- Manometric suction lift up to **9 m** (HS)
- Liquid temperature:
 - between **-10 °C** and **+60 °C** for PLURIJET 80-100
 - between **-10 °C** and **+40 °C** for PLURIJET 80X-100X
- Ambient temperature up to **+40 °C**
- Max. working pressure **6 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

The self-priming **PLURIJET** pumps are recommended for pumping clean water even in cases where air is present and for liquids which are not chemically aggressive towards the materials from which the pump is made.

Because of their silence, reliability and low energy consumption they are recommended for domestic and civil applications, in particular for pressurising and distributing water in combination with pressure tanks, for the recovery of rain water, for irrigation systems, etc.

Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS

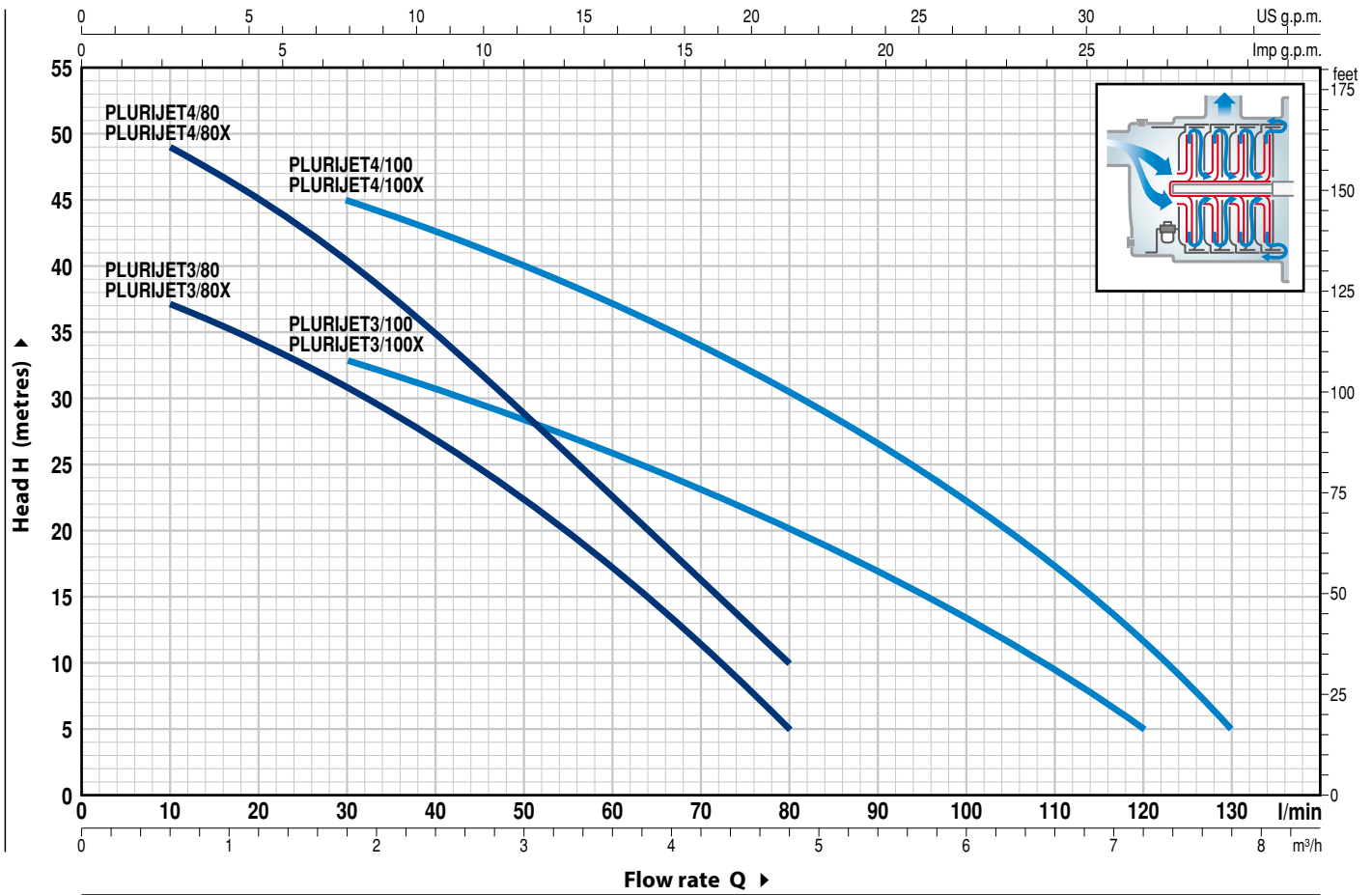
- PLURIJET® Registered Trade Mark n. 3974301

OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹ HS= 0 m



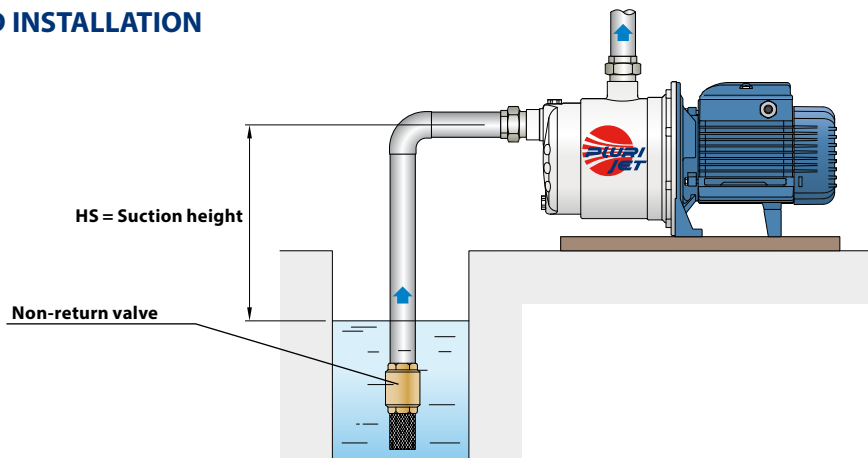
TIPO		POTENZA (P ₂)			Q	Flow rate																
Monofase	Trifase	kW	HP	▲		0	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8		
					l/min	0	5	10	20	30	40	50	60	70	80	90	100	110	120	130		
PLURIJETm 3/80 PLURIJETm 3/80X	PLURIJET 3/80 PLURIJET 3/80X	0.48	0.65	IE2	H metri	40	38	37	34.5	31	27	22.5	17	11	5							
PLURIJETm 4/80 PLURIJETm 4/80X	PLURIJET 4/80 PLURIJET 4/80X	0.55	0.75			52	50	49	44.5	40	34	28.5	22.5	16	10							
PLURIJETm 3/100 PLURIJETm 3/100X	PLURIJET 3/100 PLURIJET 3/100X	0.55	0.75	38		37	36	34.5	33	31	28	26	23	20	17	13.5	10	5				
PLURIJETm 4/100 PLURIJETm 4/100X	PLURIJET 4/100 PLURIJET 4/100X	0.75	1	IE3		50	50	49	47	45	42	39.5	37	34	30.5	26.5	22	17	11	5		

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

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

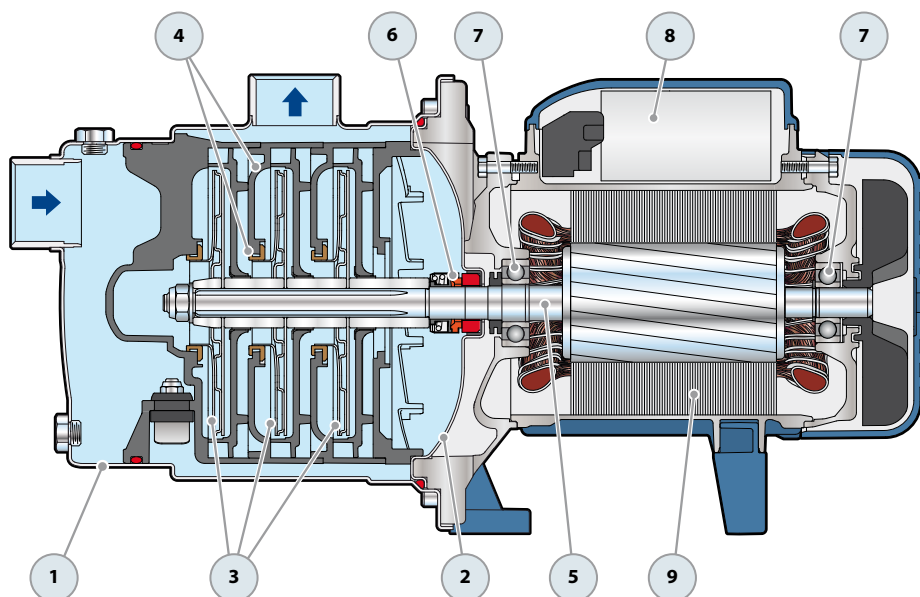
▲ Three-phase motor efficiency class (IEC 60034-30-1)

STANDARD INSTALLATION

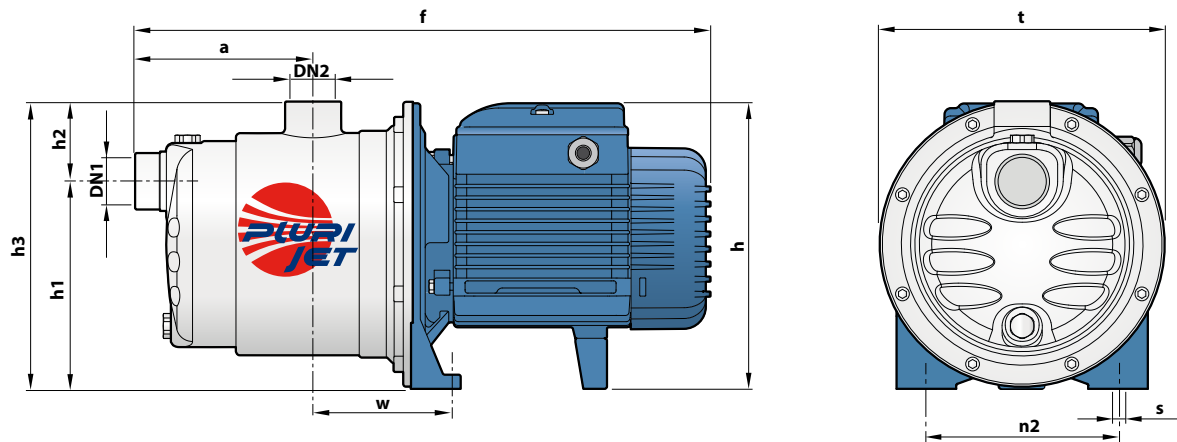


PLURIJET 80-100

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	BODY BACKPLATE	Stainless steel AISI 304				
3	IMPELLERS	Stainless steel AISI 304				
4	DIFFUSERS	Noryl complete with anti-wear ring				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	MECHANICAL SEAL	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Materials</i> <i>Elastomer</i>
		AR-13	Ø 13 mm	Ceramic	Graphite	NBR
7	BEARINGS	<i>Pump</i>	<i>Model</i>			
		PLURIJET 3/80	6202 ZZ - C3 / 6201 ZZ			
		PLURIJET 3/100	6202 ZZ - C3 / 6201 ZZ			
		PLURIJET 4/80	6203 ZZ / 6203 ZZ			
8	CAPACITOR	<i>Pump</i>	<i>Capacitance</i>			
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>		
		PLURIJETm 3/80	12.5 µF - 450 VL	25 µF - 250 VL		
		PLURIJETm 4/80	14 µF - 450 VL	25 µF - 250 VL		
8	CAPACITOR	PLURIJETm 3/100	14 µF - 450 VL	25 µF - 250 VL		
		PLURIJETm 4/100	20 µF - 450 VL	60 µF - 300 VL		
9	ELECTRIC MOTOR	<p>PLURIJETm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.</p> <p>PLURIJET: three-phase 230/400 V - 50 Hz.</p> <p>⇒ 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)</p> <p>– Insulation: class F</p> <p>– Protection: IP X4</p>				



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm										kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
PLURIJETm 3/80	PLURIJET 3/80	1"	1"	113	367	182	132	51	183	182	120	87	9	7.8	7.8
PLURIJETm 4/80	PLURIJET 4/80			138	392									9.2	8.7
PLURIJETm 3/100	PLURIJET 3/100			113	367									8.5	7.9
PLURIJETm 4/100	PLURIJET 4/100			138	410	202 *								10	11.7

(*) h=221 mm for single-phase versions at 110 V

ABSORPTION

TIPO	TENSIONE		
	230 V	240 V	110 V
Monofase			
PLURIJETm 3/80	3.3 A	3.1 A	6.4 A
PLURIJETm 4/80	3.9 A	3.8 A	7.8 A
PLURIJETm 3/100	3.9 A	3.8 A	7.8 A
PLURIJETm 4/100	6.0 A	5.8 A	12.0 A

TIPO	TENSIONE					
	230 V	400 V	690 V	240 V	415 V	720 V
Trifase						
PLURIJET 3/80	2.5 A	1.5 A	0.9 A	2.4 A	1.4 A	0.8 A
PLURIJET 4/80	3.4 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A
PLURIJET 3/100	3.4 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A
PLURIJET 4/100	4.5 A	2.6 A	1.5 A	4.3 A	2.5 A	1.4 A

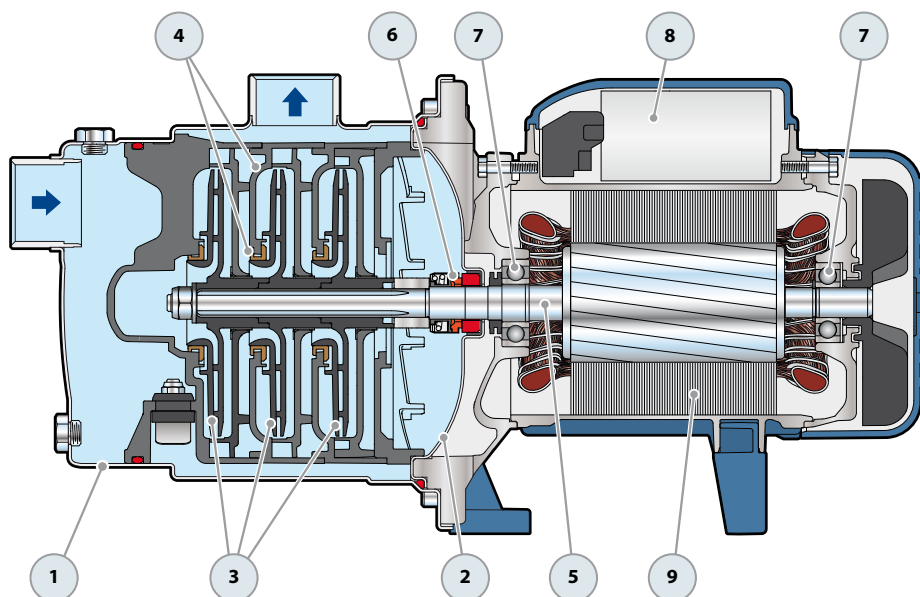
PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
PLURIJETm 3/80	PLURIJET 3/80	84	108
PLURIJETm 4/80	PLURIJET 4/80	72	108
PLURIJETm 3/100	PLURIJET 3/100	84	108
PLURIJETm 4/100	PLURIJET 4/100	72	108

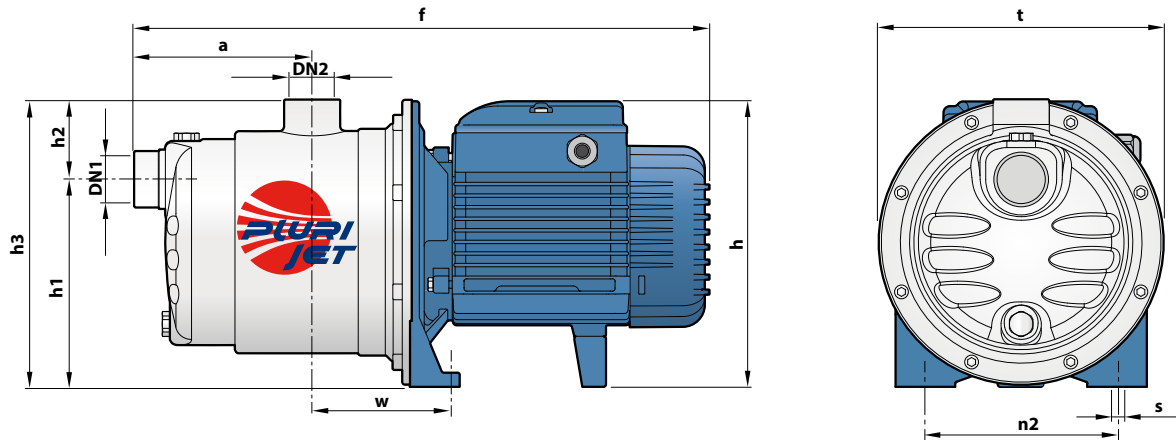
PLURIJET 80X-100X

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	BODY BACKPLATE	Stainless steel AISI 304				
3	IMPELLERS	Noryl				
4	DIFFUSERS	Noryl complete with anti-wear ring				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	MECHANICAL SEAL	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Materials Rotational ring</i>	<i>Elastomer</i>
		AR-13	Ø 13 mm	Ceramic	Graphite	NBR
7	BEARINGS	<i>Pump</i>				<i>Model</i>
		PLURIJET 3/80X				6202 ZZ - C3 / 6201 ZZ
		PLURIJET 3/100X				
		PLURIJET 4/80X				6203 ZZ / 6203 ZZ
		PLURIJET 4/100X				
8	CAPACITOR	<i>Pump</i>	<i>Capacitance</i>			
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>		
		PLURIJETm 3/80X	12.5 µF - 450 VL	25 µF - 250 VL		
		PLURIJETm 4/80X	14 µF - 450 VL	25 µF - 250 VL		
		PLURIJETm 3/100X	14 µF - 450 VL	25 µF - 250 VL		
		PLURIJETm 4/100X	20 µF - 450 VL	60 µF - 300 VL		
9	ELECTRIC MOTOR	<p>PLURIJETm X: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.</p> <p>PLURIJET X: three-phase 230/400 V - 50 Hz.</p> <p>⇒ 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)</p> <p>- Insulation: class F</p> <p>- Protection: IP X4</p>				



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm										kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
PLURIJETm 3/80X	PLURIJET 3/80X	1"	1"	113	367	182	132	51	183	182	120	87	9	7.3	7.3
PLURIJETm 4/80X	PLURIJET 4/80X			138	392									8.6	8.0
PLURIJETm 3/100X	PLURIJET 3/100X			113	367									8.0	7.5
PLURIJETm 4/100X	PLURIJET 4/100X			138	410	202 *								10	11.1

(*) h=221 mm for single-phase versions at 110 V

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
PLURIJETm 3/80X	3.3 A	3.1 A	6.4 A
PLURIJETm 4/80X	3.9 A	3.8 A	7.8 A
PLURIJETm 3/100X	3.9 A	3.8 A	7.8 A
PLURIJETm 4/100X	6.0 A	5.8 A	12.0 A

MODEL	VOLTAGE					
	230 V	400 V	690 V	240 V	415 V	720 V
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
PLURIJET 3/80X	2.5 A	1.5 A	0.9 A	2.4 A	1.4 A	0.8 A
PLURIJET 4/80X	3.4 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A
PLURIJET 3/100X	3.4 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A
PLURIJET 4/100X	4.5 A	2.6 A	1.5 A	4.3 A	2.5 A	1.4 A

PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
PLURIJETm 3/80X	PLURIJET 3/80X	84	108
PLURIJETm 4/80X	PLURIJET 4/80X	72	108
PLURIJETm 3/100X	PLURIJET 3/100X	84	108
PLURIJETm 4/100X	PLURIJET 4/100X	72	108

PLURIJET 90-130-200

STAINLESS STEEL IMPELLERS

Self-priming multi-stage pumps

 Clean water

 Domestic use

 Civil use



PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **97 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 **10 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

The self-priming **PLURIJET** pumps are recommended for pumping clean water even in cases where air is present and for liquids which are not chemically aggressive towards the materials from which the pump is made.

Because of their silence, reliability and low energy consumption they are recommended for domestic and civil applications, in particular for pressurising and distributing water in combination with pressure tanks, for the recovery of rain water, for irrigation systems, etc.

Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS

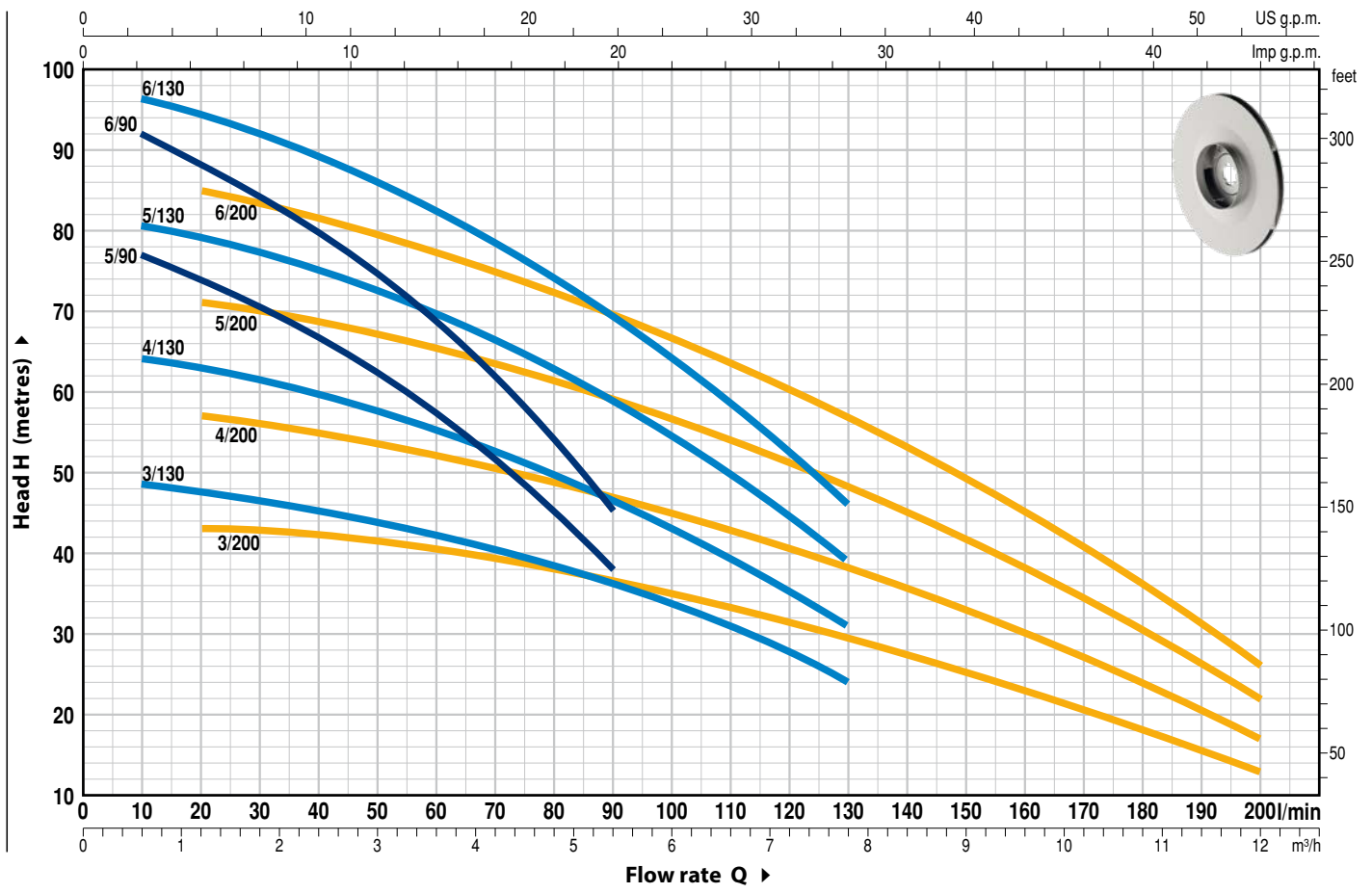
- PLURIJET® Registered Trade Mark n. 3974301
- Patent Pending n. EP14755156.8

OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency
- IPX5 class protection

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n = 2900 min⁻¹ HS = 0 m



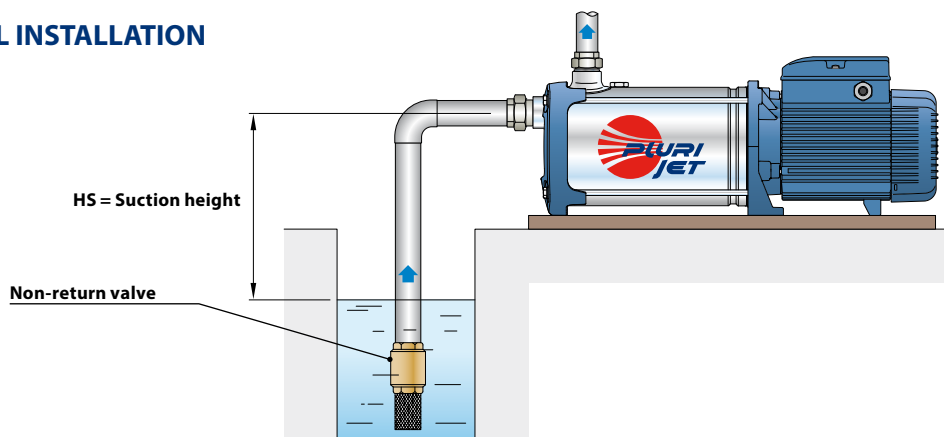
MODEL		POWER (P ₂)		Q	H metres													
Single-phase	Three-phase	kW	HP		0	0.3	0.6	1.2	2.4	3.6	5.4	6.0	7.8	8.4	9.6	10.8	12.0	
				l/min	0	5	10	20	40	60	90	100	130	140	160	180	200	
PLURIJETm 5/90	PLURIJET 5/90	1.1	1.5	IE3	80	78	77	74	67	57	38							
PLURIJETm 6/90	PLURIJET 6/90	1.5	2		96	94	92	88	80	69	45							
PLURIJETm 3/130	PLURIJET 3/130	1.1	1.5		49	49	48.5	47.5	45	42.5	36	33.5	24					
PLURIJETm 4/130	PLURIJET 4/130	1.5	2		65	65	64	63	60	56	46	43	31					
PLURIJETm 5/130	PLURIJET 5/130	1.8	2.5		81	81	80.5	79	75	70	59	54	39					
-	PLURIJET 6/130	2.2	3		97	97	96.5	94.5	90	83	69	64	46					
PLURIJETm 3/200	PLURIJET 3/200	1.1	1.5		44	43.5	43.5	43	42	40.5	37	35	29	27.5	23	18	13	
PLURIJETm 4/200	PLURIJET 4/200	1.5	2		58	57.5	57.5	57	55	52.5	47	45	38	35.5	30	24	17	
PLURIJETm 5/200	PLURIJET 5/200	1.8	2.5		73	72	71.5	71	69	65.5	59	56.5	48	44.5	38	30	22	
-	PLURIJET 6/200	2.2	3		87	86	85.5	85	82	78	69	67	57	53	45	36	26	

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

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

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

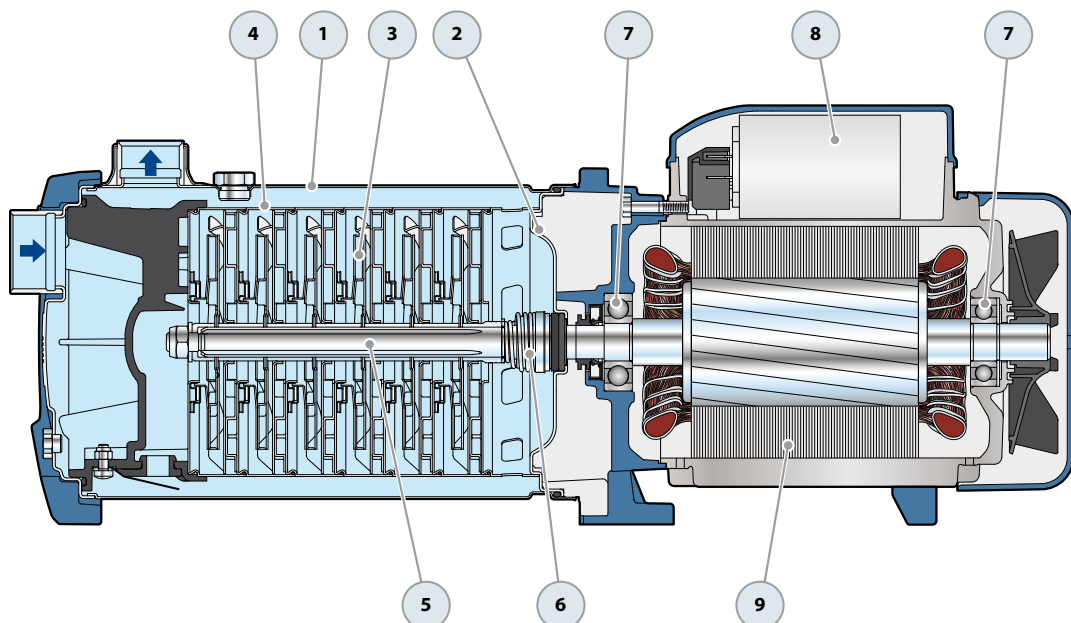
TYPICAL INSTALLATION



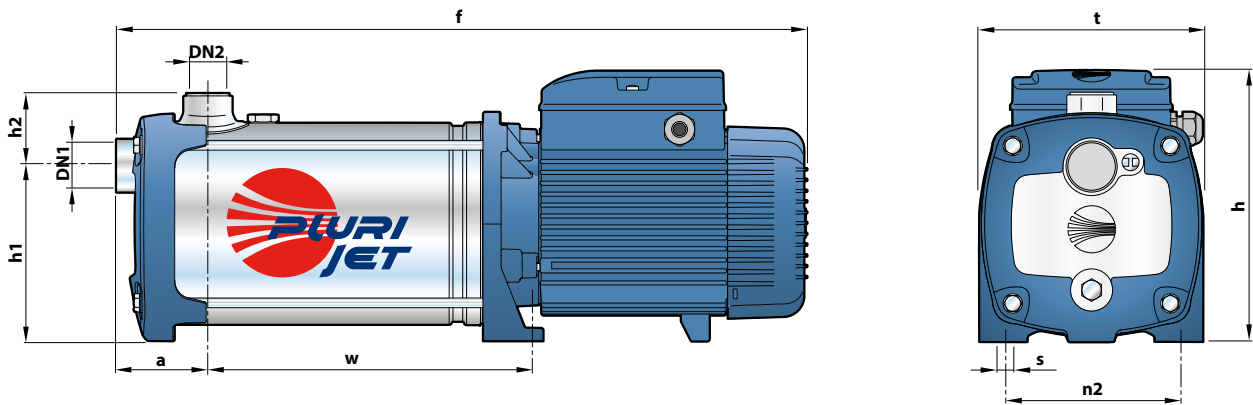
PLURIJET 90-130-200

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	BODY BACKPLATE	Stainless steel AISI 304				
3	IMPELLERS	Stainless steel AISI 304				
4	DIFFUSERS	Stainless steel AISI 304				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	MECHANICAL SEAL	Seal	Shaft	Materials		
		Model	Diameter	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		FN-18	Ø 18 mm	Graphite	Ceramic	NBR
7	BEARINGS	6304 2RS - C3 / 6204 ZZ - C3E				
8	CAPACITOR	Pump	Capacitance			
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>		
		PLURIJETm 5/90	31.5 µF - 450 VL	60 µF - 250 VL		
		PLURIJETm 3/130				
		PLURIJETm 3/200				
		PLURIJETm 6/90	45 µF - 450 VL	80 µF - 250 VL		
PLURIJETm 4/130						
PLURIJETm 4/200						
PLURIJETm 5/130	50 µF - 450 VL	-				
PLURIJETm 5/200						
9	ELECTRIC MOTOR	<p>PLURIJETm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. PLURIJET: three-phase 230/400 V - 50 Hz.</p> <p>⇒ The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)</p> <ul style="list-style-type: none"> - Insulation: class F - Protection: IP X4 				



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm									kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	t	n2	w	s	1~	3~
PLURIJETm 5/90	PLURIJET 5/90	1 1/4"	1"	75	549	228	145	59	185	145	243	11	20.4	20.5
PLURIJETm 6/90	PLURIJET 6/90				573						269		22.7	22.5
PLURIJETm 3/130	PLURIJET 3/130				497						191		18.5	18.6
PLURIJETm 4/130	PLURIJET 4/130				523						217		20.5	20.6
PLURIJETm 5/130	PLURIJET 5/130				569						243		23.7	24.2
-	PLURIJET 6/130				595						269		-	25.3
PLURIJETm 3/200	PLURIJET 3/200				497						191		18.5	18.6
PLURIJETm 4/200	PLURIJET 4/200				523						217		20.6	20.6
PLURIJETm 5/200	PLURIJET 5/200				569						243		24.7	24.0
-	PLURIJET 6/200				595						269		-	25.0

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
PLURIJETm 5/90	9.3 A	9.0 A	18.6 A
PLURIJETm 6/90	11.0 A	10.7 A	22.0 A
PLURIJETm 3/130	8.5 A	8.1 A	17.0 A
PLURIJETm 4/130	10.3 A	9.9 A	20.6 A
PLURIJETm 5/130	12.5 A	12.0 A	-
PLURIJETm 3/200	8.7 A	8.3 A	17.4 A
PLURIJETm 4/200	10.5 A	10.1 A	21.0 A
PLURIJETm 5/200	12.5 A	12.2 A	-

MODEL	VOLTAGE					
	230 V	400 V	690 V	240 V	415 V	720 V
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
PLURIJET 5/90	6.1 A	3.5 A	2.0 A	5.9 A	3.4 A	1.9 A
PLURIJET 6/90	7.3 A	4.2 A	2.4 A	6.9 A	4.0 A	2.3 A
PLURIJET 3/130	5.6 A	3.2 A	1.8 A	5.4 A	3.1 A	1.8 A
PLURIJET 4/130	6.9 A	4.0 A	2.3 A	6.6 A	3.8 A	2.2 A
PLURIJET 5/130	9.0 A	5.2 A	3.0 A	8.6 A	5.0 A	2.9 A
PLURIJET 6/130	9.9 A	5.7 A	3.3 A	9.5 A	5.5 A	3.2 A
PLURIJET 3/200	5.9 A	3.4 A	2.0 A	5.7 A	3.3 A	1.9 A
PLURIJET 4/200	7.3 A	4.2 A	2.4 A	6.9 A	4.0 A	2.3 A
PLURIJET 5/200	9.4 A	5.4 A	3.1 A	9.0 A	5.2 A	3.0 A
PLURIJET 6/200	10.2 A	5.9 A	3.4 A	9.8 A	5.7 A	3.3 A