

## Self-priming "JET" pumps

 Clean water

 Domestic use



### PERFORMANCE RANGE

- Flow rate up to **60 l/min** (3.6 m<sup>3</sup>/h)
- Head up to **48 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 **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  
ISO 14001: ENVIRONMENT



### INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. The self-priming **JSW** 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 in combination with small or medium sized pressure tanks, and for the irrigation of gardens and orchards, etc. The pump should be installed in an enclosed environment or sheltered from inclement weather.

### PATENTS - TRADE MARKS - MODELS

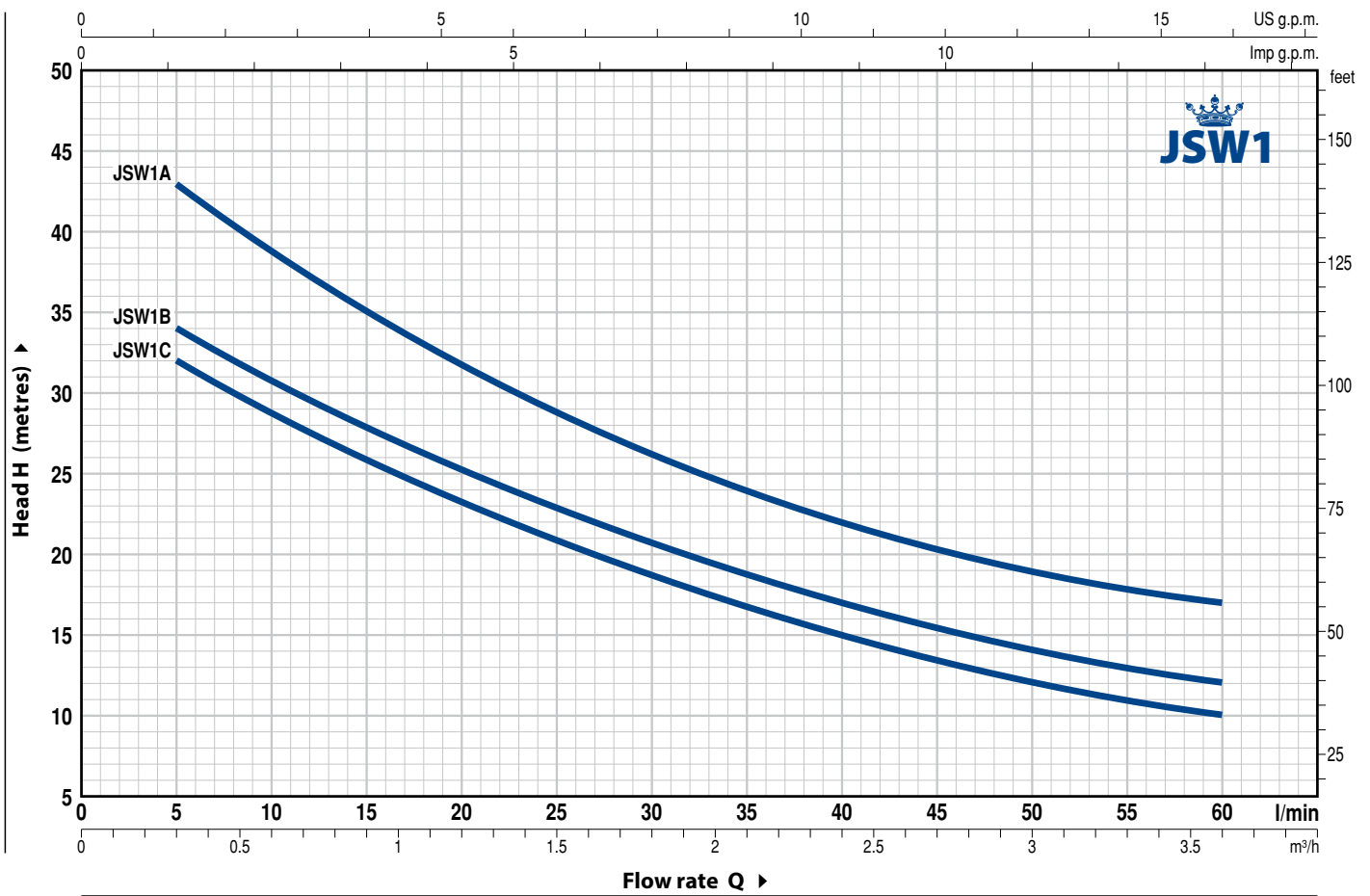
- Registered Trade Mark n. 013073135 JSW<sup>®</sup>
- Registered EU Design n. 002218610-0001
- European Patent n. 1 510 696

### OPTIONS AVAILABLE ON REQUEST

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

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm HS= 0 m

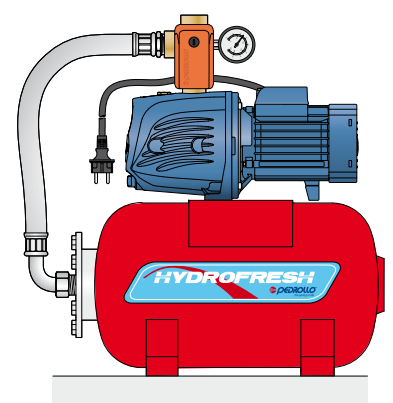
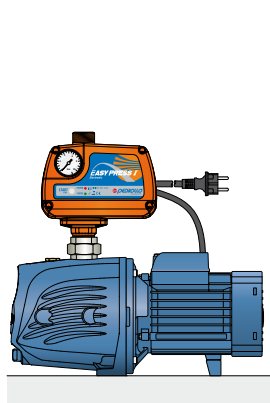
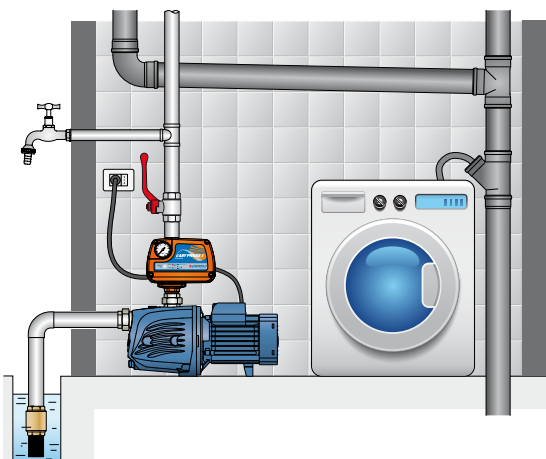


MODEL		POWER (P <sub>2</sub> )		Q	Flow rate													
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6			
					0	5	10	20	25	30	40	45	50	60				
JSWm 1C	JSW 1C	0.37	0.50	H metres	35	32	28.5	23.5	21	18.5	15	13.5	12	10				
JSWm 1B	JSW 1B	0.48	0.65		37	34	30.5	25.5	23	20.5	17	15.5	14	12				
JSWm 1A	JSW 1A	0.55	0.75		48	43	39	31.5	28.5	26	22	20.5	19	17				

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

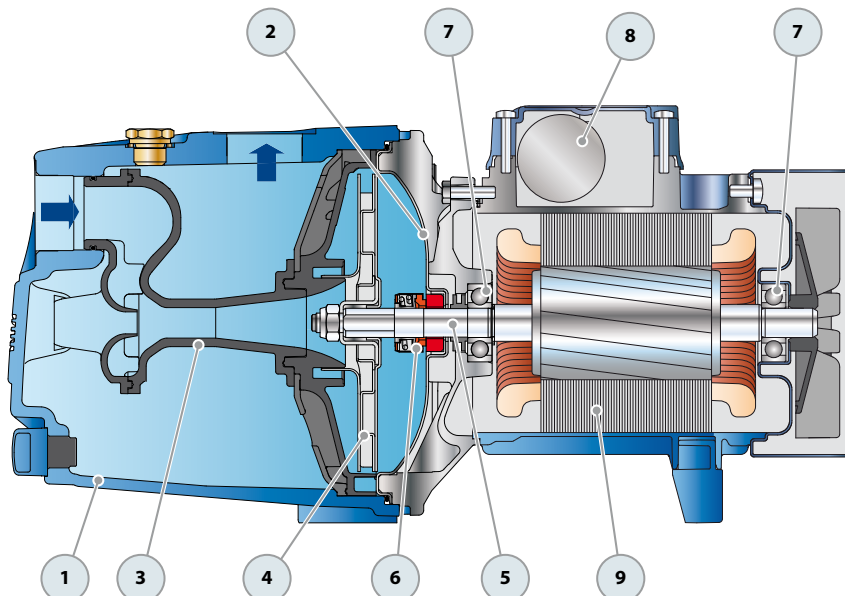
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

## STANDARD INSTALLATION

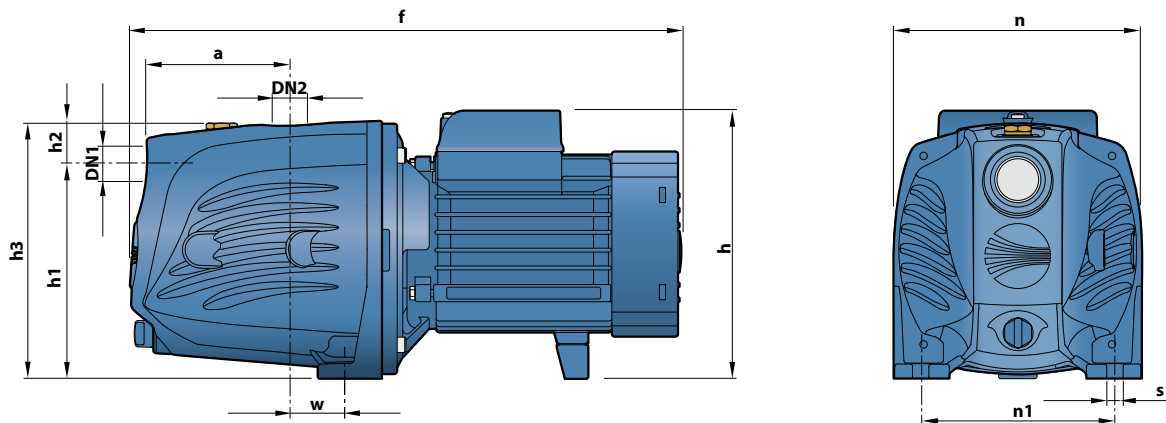


## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1				
2	<b>BODY BACKPLATE</b>	Stainless steel AISI 304				
3	<b>NOZZLE ASSEMBLY</b>	Noryl FE1520PW				
4	<b>IMPELLER</b>	Stainless steel AISI 304				
5	<b>MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104				
6	<b>MECHANICAL SEAL</b>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		AR-12	Ø 12 mm	Ceramic	Graphite	NBR
7	<b>BEARINGS</b>	<b>6201 ZZ / 6201 ZZ</b>				
8	<b>CAPACITOR</b>	<i>Pump Single-phase</i>	<i>Capacitance (230 V or 240 V)</i>	<i>(110 V)</i>		
		<b>JSWm 1C</b>	<b>10 µF - 450 VL</b>	<b>25 µF - 250 VL</b>		
		<b>JSWm 1B</b>	<b>10 µF - 450 VL</b>	<b>25 µF - 250 VL</b>		
		<b>JSWm 1A</b>	<b>14 µF - 450 VL</b>	<b>25 µF - 250 VL</b>		
9	<b>ELECTRIC MOTOR</b>	<b>JSWm:</b> single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. <b>JSW:</b> three-phase 230/400 V - 50 Hz. – 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	h3	n	n1	w	s	1~	3~
JSWm 1C	JSW 1C	1"	1"	94	352	171	127	33	160	158	124	24	10	9.9	9.9
JSWm 1B	JSW 1B													10.0	10.0
JSWm 1A	JSW 1A													10.6	10.0

## ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
JSWm 1C	2.8 A	2.7 A	5.6 A
JSWm 1B	3.1 A	3.0 A	6.0 A
JSWm 1A	3.9 A	3.8 A	7.3 A

MODEL	VOLTAGE					
	230 V	400 V	690 V	240 V	415 V	720 V
JSW 1C	2.1 A	1.2 A	0.7 A	2.0 A	1.1 A	0.6 A
JSW 1B	2.3 A	1.3 A	0.8 A	2.2 A	1.2 A	0.7 A
JSW 1A	3.0 A	1.7 A	1.0 A	2.9 A	1.6 A	0.9 A

## PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
JSWm 1C	JSW 1C	98	140
JSWm 1B	JSW 1B	98	140
JSWm 1A	JSW 1A	98	140

## Self-priming "JET" pumps

-  Clean water
-  Domestic use
-  Civil use



### PERFORMANCE RANGE

- Flow rate up to **70 l/min** (4.2 m<sup>3</sup>/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 **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  
ISO 14001: ENVIRONMENT



### INSTALLATION AND USE

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The self-priming **JSW** 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 in combination with small or medium sized pressure tanks, and for the irrigation of gardens and orchards, etc. The pump should be installed in an enclosed environment or sheltered from inclement weather.

### PATENTS - TRADE MARKS - MODELS

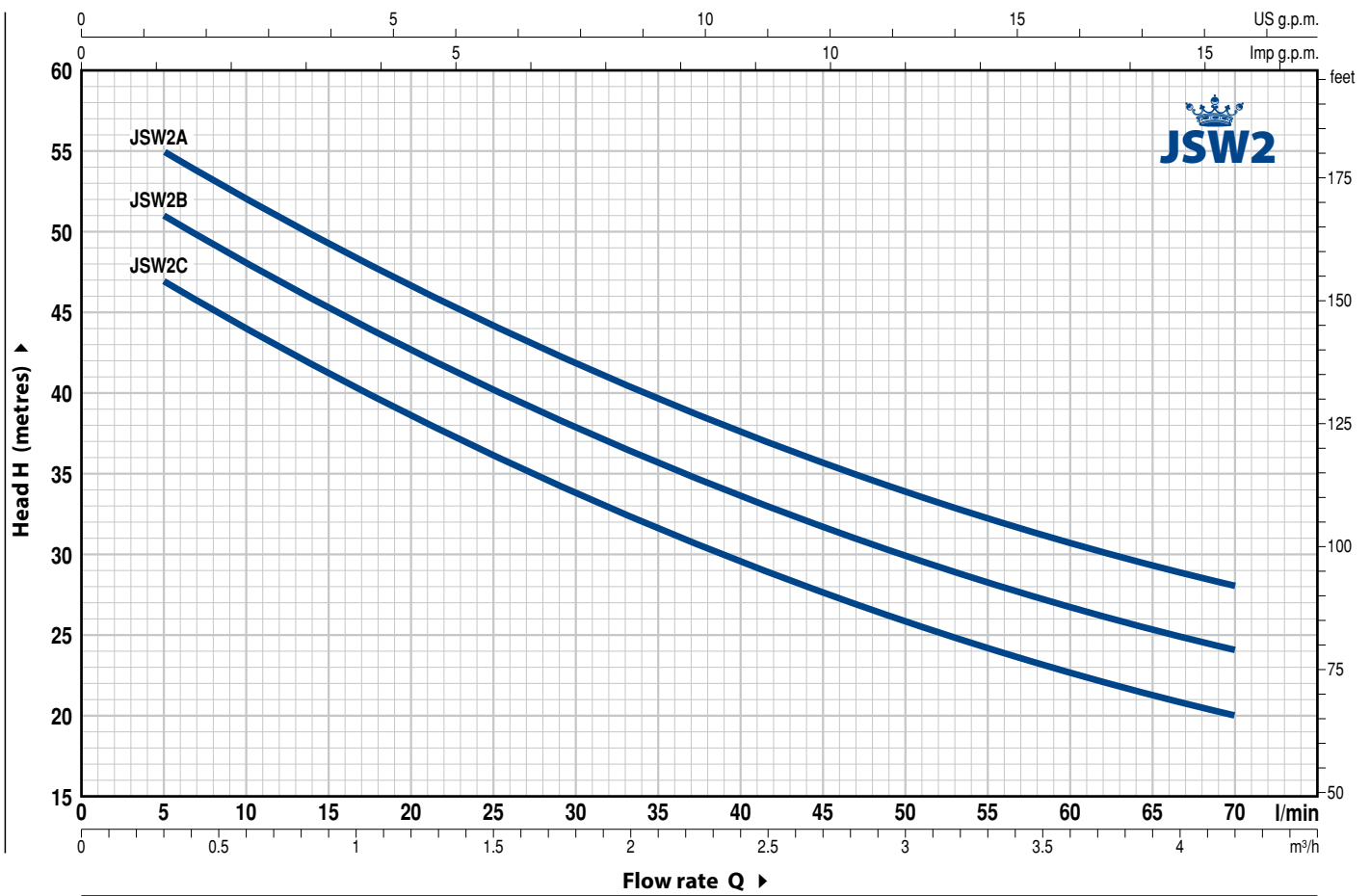
- Registered Trade Mark n. 013073135 JSW<sup>®</sup>
- Registered EU Design n. 002218610-0002
- European Patent n. 1 510 696

### OPTIONS AVAILABLE ON REQUEST

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

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm HS= 0 m

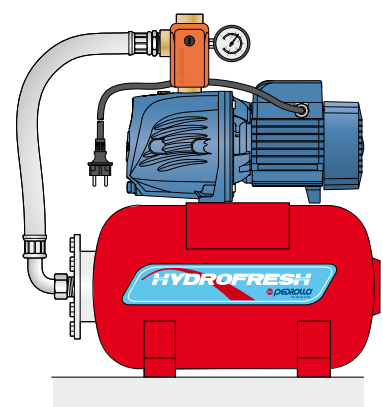
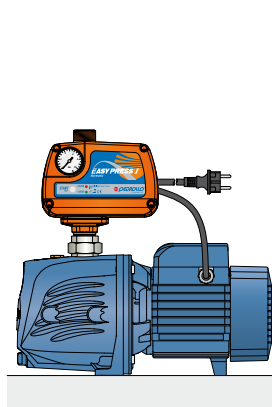
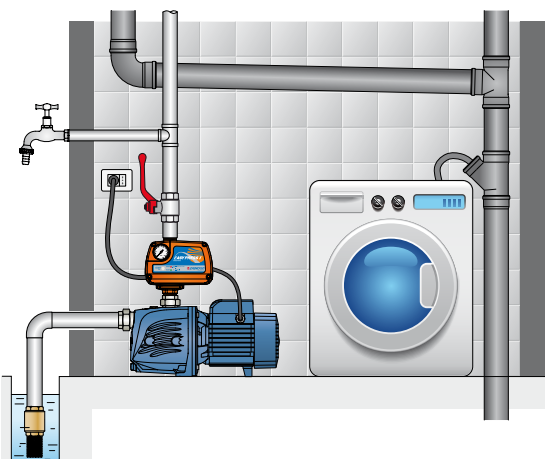


MODEL		POWER (P <sub>2</sub> )		Q	Flow rate													
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6	4.2		
				l/min	0	5	10	20	25	30	40	45	50	60	70			
JSWm 2C	JSW 2C	0.75	1	H metres	50	47	44	38.5	36	34	29.5	27.5	26	22.5	20			
JSWm 2B	JSW 2B	0.90	1.25		54	51	48	42.5	40	38	33.5	31.5	30	26.5	24			
JSWm 2A	JSW 2A	1.1	1.5		58	55	52	46.5	44	42	37.5	35.5	34	31	28			

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

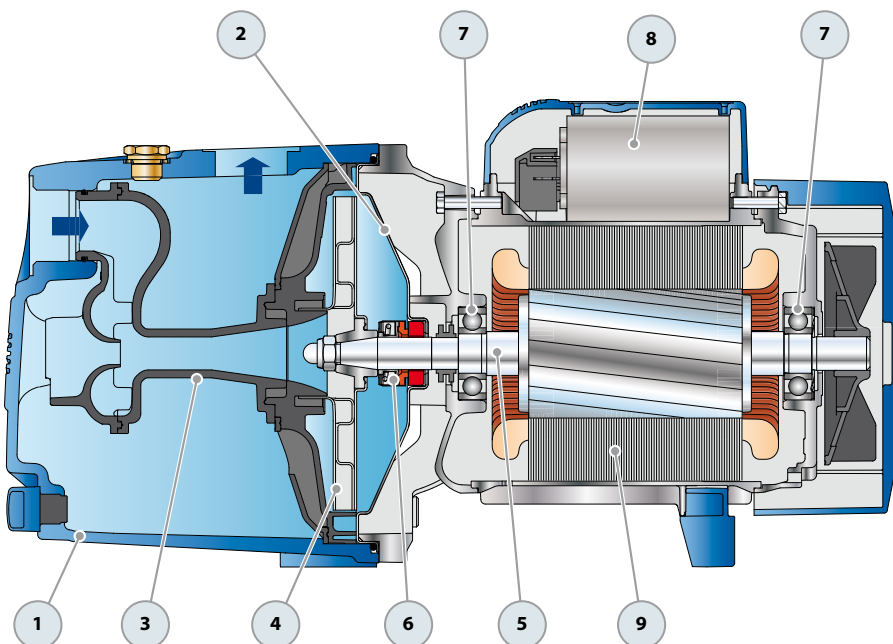
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

## STANDARD INSTALLATION

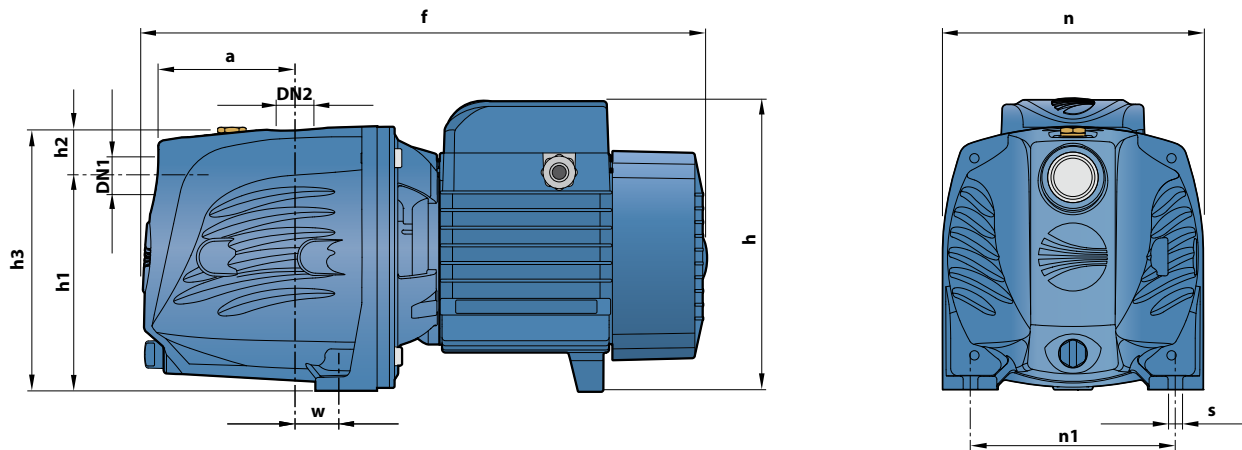


## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Cast iron, complete with threaded ports in compliance with ISO 228/1				
2	<b>BODY BACKPLATE</b>	Stainless steel AISI 304				
3	<b>NOZZLE ASSEMBLY</b>	Noryl FE1520PW				
4	<b>IMPELLER</b>	Stainless steel AISI 304				
5	<b>MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104				
6	<b>MECHANICAL SEAL</b>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		AR-14	Ø 14 mm	Ceramic	Graphite	NBR
7	<b>BEARINGS</b>	<b>6203 ZZ / 6203 ZZ</b>				
8	<b>CAPACITOR</b>	<i>Pump Single-phase</i>	<i>Capacitance (230 V or 240 V)</i>	<i>(110 V)</i>		
		<b>JSWm 2C</b>	<b>20 µF - 450 VL</b>	<b>60 µF - 300 VL</b>		
		<b>JSWm 2B</b>	<b>25 µF - 450 VL</b>	<b>60 µF - 300 VL</b>		
		<b>JSWm 2A</b>	<b>25 µF - 450 VL</b>	<b>60 µF - 300 VL</b>		
9	<b>ELECTRIC MOTOR</b>	<p><b>JSWm:</b> single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.  <b>JSW:</b> three-phase 230/400 V - 50 Hz.</p> <p>➔ <b>The three-phase pumps are fitted with high performance motors in class IE2 (IEC 60034-30)</b></p> <ul style="list-style-type: none"> <li>- Insulation: class F</li> <li>- Protection: IP X4</li> </ul>				



## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm										kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	n	n1	w	s	1~	3~
JSWm 2C	JSW 2C													13.0	13.0
JSWm 2B	JSW 2B	1"	1"	96	388	201 *	147	33	180	180	142	22	10	14.0	14.0
JSWm 2A	JSW 2A													14.2	14.2

(\*) h=220 mm for single phase versions at 110 V

## ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
JSWm 2C	4.7 A	4.5 A	9.4 A
JSWm 2B	5.8 A	5.3 A	11.6 A
JSWm 2A	6.0 A	5.5 A	12.0 A

MODEL	VOLTAGE					
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
JSW 2C	3.5 A	2.0 A	1.2 A	3.4 A	1.9 A	1.1 A
JSW 2B	4.6 A	2.7 A	1.6 A	4.4 A	2.5 A	1.5 A
JSW 2A	5.1 A	3.0 A	1.7 A	4.9 A	2.8 A	1.6 A

## PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
JSWm 2C	JSW 2C	72	96
JSWm 2B	JSW 2B	72	96
JSWm 2A	JSW 2A	72	96

## Self-priming "JET" pumps

-  Clean water
-  Domestic use
-  Civil use
-  Industrial use



### PERFORMANCE RANGE

- Flow rate up to **160 l/min** (9.6 m<sup>3</sup>/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  
ISO 14001: ENVIRONMENT



### INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. The self-priming **JSW** 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, civil and industrial applications such as the distribution of water in combination with pressure tanks, and for the irrigation of gardens and orchards, etc.

The pump should be installed in an enclosed environment or sheltered from inclement weather.

### PATENTS - TRADE MARKS - MODELS

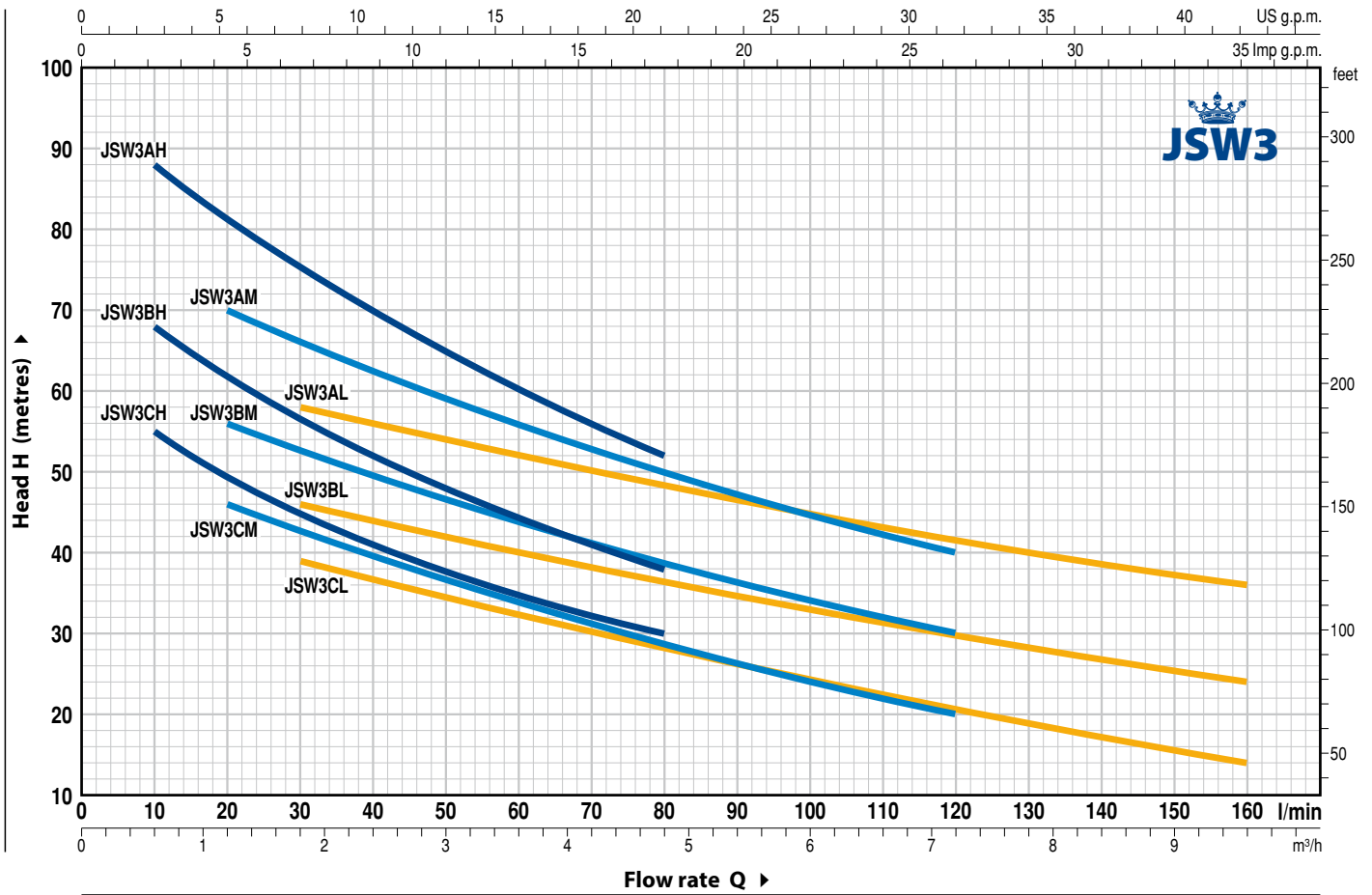
- Registered Trade Mark n. 013073135 JSW<sup>®</sup>
- Registered EU Design n. 002218610

### OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency
- IPX5 protection

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup> HS= 0 m



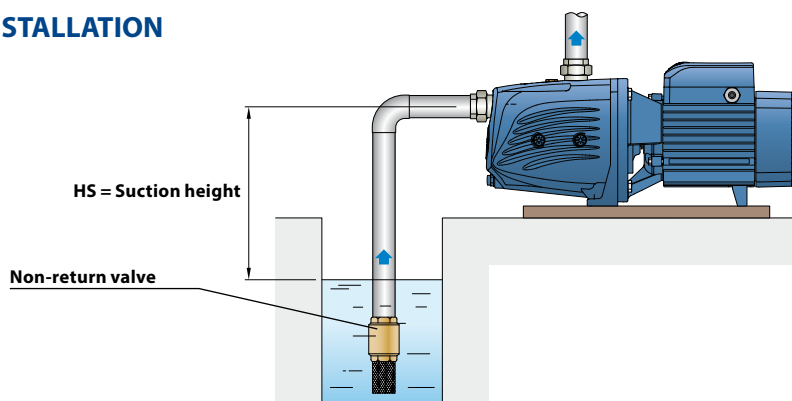
MODEL		POTENZA (P <sub>2</sub> )		▲	Q	Flow rate															
Single-phase	Three-phase	kW	HP			m <sup>3</sup> /h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	6.0	7.2	8.4	9.6		
					l/min	0	10	20	30	40	50	60	70	80	100	120	140	160			
JSWm 3CH	JSW 3CH	1.1	1.5	IE3	H metres	62	55	49	45	41	38	35	32	30							
JSWm 3BH	JSW 3BH	1.5	2			73	68	62	56.5	52	48	44	41	38							
JSWm 3AH	JSW 3AH	2.2	3			97	88	81	75	70	65	60.5	56	52							
JSWm 3CM	JSW 3CM	1.1	1.5			54	-	46	43	39.5	36.5	34	31	28.5	24	20					
JSWm 3BM	JSW 3BM	1.5	2			63	-	56	53	49.5	47.5	44	41	39	34	30					
JSWm 3AM	JSW 3AM	2.2	3			78	-	70	66	62	59	56	53	50	45	40					
JSWm 3CL	JSW 3CL	1.1	1.5			44	-	-	39	37	34	32	30	28	24	21	17	14			
JSWm 3BL	JSW 3BL	1.5	2			51	-	-	46	44	42	40	38	36	33	30	27	24			
JSWm 3AL	JSW 3AL	2.2	3			64	-	-	58	56	54	52	50	48	45	41.5	38.5	36			

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

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

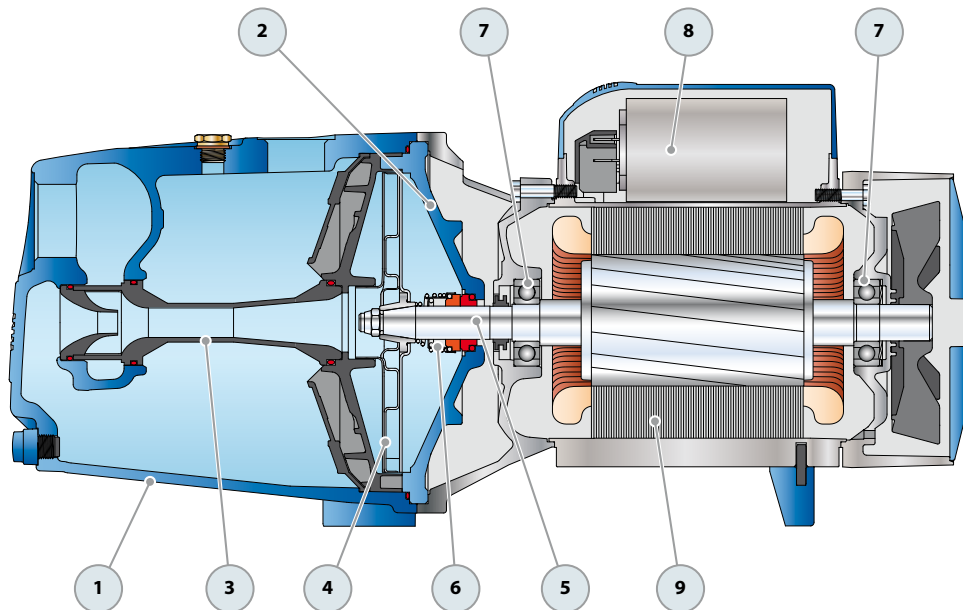
▲ Performance class of the three-phase motor (IEC 60034-30-1)

## STANDARD INSTALLATION

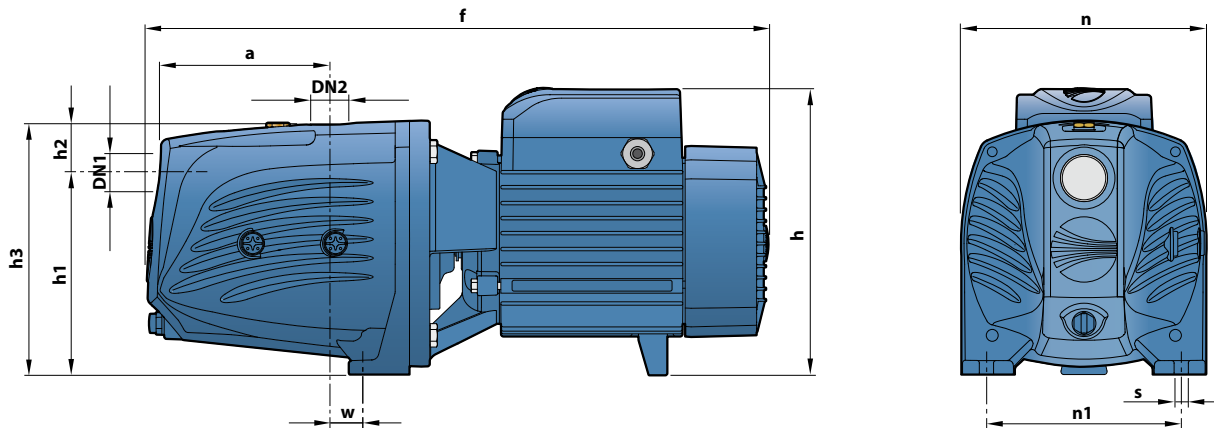


## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1				
2	<b>BODY BACKPLATE</b>	Cast iron				
3	<b>NOZZLE ASSEMBLY</b>	Noryl FE1520PW				
4	<b>IMPELLER</b>	Stainless steel AISI 304				
5	<b>MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104				
6	<b>MECHANICAL SEAL</b>	<b>Seal</b>	<b>Shaft</b>	<b>Materials</b>		
		<b>Model</b>	<b>Diameter</b>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		<b>FN-18</b>	<b>Ø 18 mm</b>	Graphite	Ceramic	NBR
7	<b>BEARINGS</b>	<b>6204 ZZ / 6204 ZZ</b>				
8	<b>CAPACITOR</b>	<b>Pump</b>	<b>Capacitance</b>			
		<i>Single-phase</i>	<i>(220-230 V or 240 V)</i>	<i>(110 V)</i>		
		<b>JSWm 3C</b>	<b>31.5 µF - 450 VL</b>	<b>60 µF - 250 VL</b>		
		<b>JSWm 3B</b>	<b>45 µF - 450 VL</b>	<b>80 µF - 250 VL</b>		
	<b>JSWm 3A</b>	<b>50 µF - 450 VL</b>	<b>-</b>			
9	<b>ELECTRIC MOTOR</b>	<b>JSWm:</b> single-phase 220-230 V - 50 Hz with thermal overload protector incorporated into the winding. <b>JSW:</b> three-phase 230/400 V - 50 Hz. <b>⇒ The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)</b> – 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	h3	n	n1	w	s	1~	3~
JSWm 3CH	JSW 3CH	1¼"	1"	141.5	522	241	165	44	209	206	164	30	11	25.3	23.3
JSWm 3BH	JSW 3BH				26.5									25.5	
JSWm 3AH	JSW 3AH				29.6									29.6	
JSWm 3CM	JSW 3CM				25.3									23.3	
JSWm 3BM	JSW 3BM				26.5									25.5	
JSWm 3AM	JSW 3AM				29.6									29.6	
JSWm 3CL	JSW 3CL				25.3									23.3	
JSWm 3BL	JSW 3BL				26.5									25.5	
JSWm 3AL	JSW 3AL				29.6									29.6	

## ABSORPTION

MODEL	VOLTAGE	
Single-phase	220-230 V	240 V
JSWm 3CH	8.1 A	7.8 A
JSWm 3BH	9.5 A	9.2 A
JSWm 3AH	12.7 A	12.4 A
JSWm 3CM	8.1 A	7.8 A
JSWm 3BM	9.7 A	9.4 A
JSWm 3AM	13.0 A	12.4 A
JSWm 3CL	8.1 A	8.1 A
JSWm 3BL	10.1 A	9.8 A
JSWm 3AL	13.6 A	13.1 A

MODEL	VOLTAGE					
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
JSW 3CH	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
JSW 3BH	6.0 A	3.5 A	2.0 A	5.8 A	3.4 A	2.0 A
JSW 3AH	8.8 A	5.1 A	2.9 A	8.5 A	4.9 A	2.8 A
JSW 3CM	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
JSW 3BM	6.0 A	3.5 A	2.0 A	5.8 A	3.4 A	2.0 A
JSW 3AM	9.0 A	5.2 A	3.0 A	8.6 A	5.0 A	2.9 A
JSW 3CL	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
JSW 3BL	6.4 A	3.7 A	2.1 A	6.1 A	3.6 A	2.1v
JSW 3AL	9.3 A	5.4 A	3.1 A	9.0 A	5.2 A	3.0 A

## PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
JSWm 3CH	JSW 3CH	35	49
JSWm 3BH	JSW 3BH	35	49
JSWm 3AH	JSW 3AH	35	49
JSWm 3CM	JSW 3CM	35	49
JSWm 3BM	JSW 3BM	35	49
JSWm 3AM	JSW 3AM	35	49
JSWm 3CL	JSW 3CL	35	49
JSWm 3BL	JSW 3BL	35	49
JSWm 3AL	JSW 3AL	35	49