FUTURE JET®

The self-priming pump of the future!

Clean water

Domestic use

Civil use

※ **Reduction of energy consumption by up to 50%**



From an evolution of the classic JET concept, a SUPER JET was born.

※ **High hydraulic efficiency**
※ **Better consumption/performance ratio**
※ **Reducing turbulence**
※ **Noise reduction**

PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **72 m**

FUTURE JET

Developed by our innovative research and development team, this pump revolutionizes the classic self-priming design.
With an international registered patent, the **FUTURE JET** not only matches the pressure of a traditional JET pump, it surpasses it. Moreover, it doubles the flow rate while reducing energy consumption by up to 50%.

INSTALLATION AND USE

FUTURE JET self-priming pumps are designed to draw water and liquids that contain air.

They are reliable and easy to operate. They are a favorite for domestic use, particularly effective for water distribution with small to medium-sized pressure tanks and suitable for irrigation.

APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure:
  – **6 bar** for FUTURE JET 1
  – **7 bar** for FUTURE JET 2

AVAILABLE UPON REQUEST

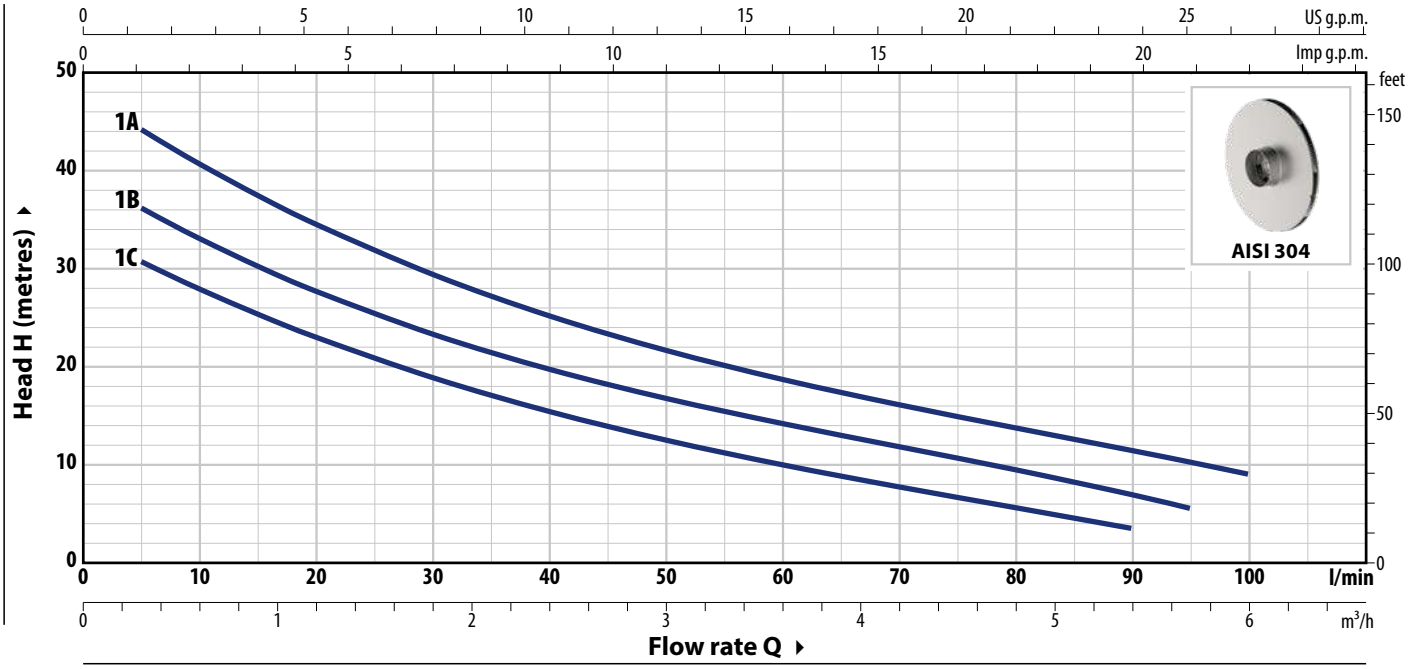
※ Technopolymer impeller (cost-effective version)
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

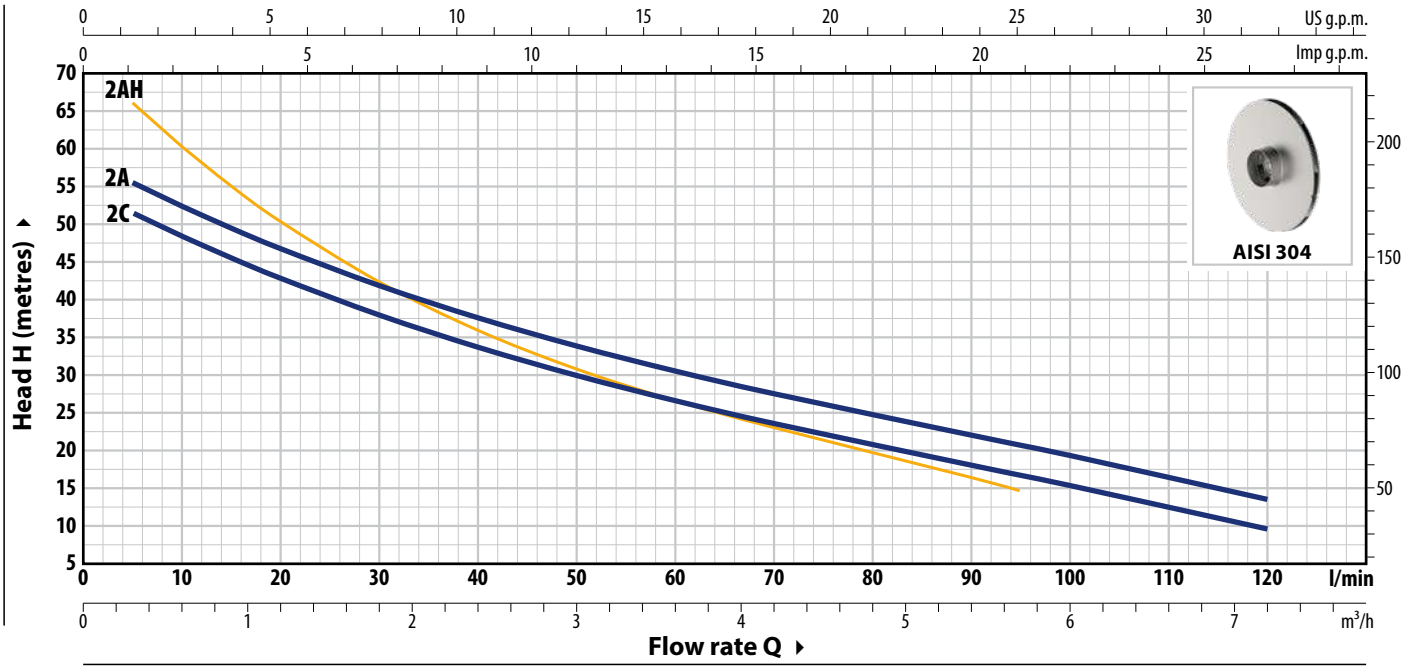
- FUTURE JET® Registered Trade mark No. 018198453
- Registered Community Model No. 002218610
- European Patent No. 1 510 696
- Patent No. PCT/IT2019/050168

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	5.7	6.0
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**95**	**100**
FUTURE JETm 1C	**FUTURE JET 1C**	0.37	0.50					33.5	30.5	28	23	15.4	10	6	3.5		
FUTURE JETm 1B	**FUTURE JET 1B**	0.48	0.65	**IE2**	**IE3**	**H**	metres	40	36	33	27.6	19.7	14.2	9.5	7	5.5	
FUTURE JETm 1A	**FUTURE JET 1A**	0.55	0.75					48	44	40.6	34.5	25.2	18.7	13.7	11.4	10.2	9



TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	5.7	6.0	7.2
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**95**	**100**	**120**
FUTURE JETm 2C	**FUTURE JET 2C**	0.75	1					55	52	49	43	34	27	20.5	18.3	17	15.5	10
FUTURE JETm 2A	**FUTURE JET 2A**	0.90	1.25	**IE2**	**IE3**	**H**	metres	59	56	53	47	38	32	25	22.3	21	19.5	13.7
FUTURE JETm 2AH	**FUTURE JET 2AH**	0.90	1.25					72	66	60	50.5	36	27	20	16.8	15		

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

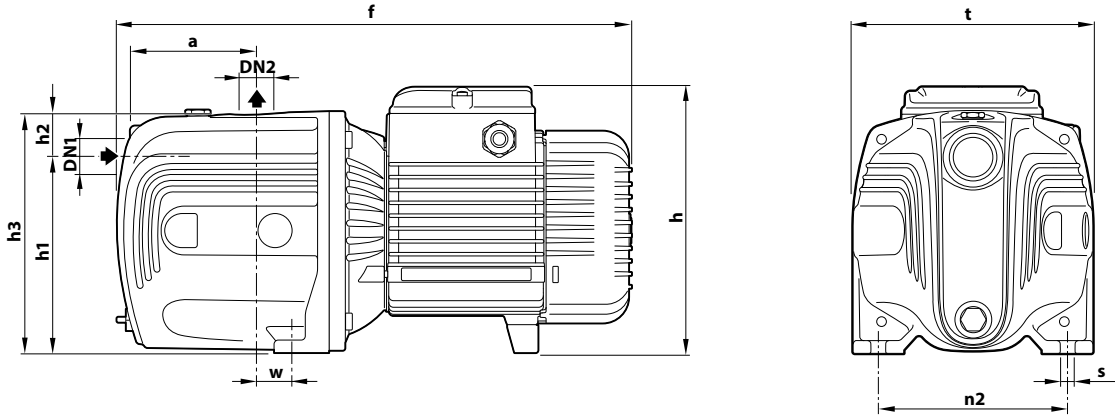
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
FUTURE JETm 1C	2.6 A
FUTURE JETm 1B	3.2 A
FUTURE JETm 1A	4.0 A
FUTURE JETm 2C	5.8 A
FUTURE JETm 2A	6.6 A
FUTURE JETm 2AH	6.6 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
FUTURE JET 1C	1.7 A	1.0 A
FUTURE JET 1B	2.1 A	1.2 A
FUTURE JET 1A	2.8 A	1.6 A
FUTURE JET 2C	4.7 A	2.7 A
FUTURE JET 2A	5.2 A	3.0 A
FUTURE JET 2AH	5.2 A	3.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
FUTURE JETm 1C	**FUTURE JET 1C**	**1"**	**1"**	94	357	173	127	35	162	158	124	24	10	9.7	9.7
FUTURE JETm 1B	**FUTURE JET 1B**													9.8	9.8
FUTURE JETm 1A	**FUTURE JET 1A**													10.7	10.0
FUTURE JETm 2C	**FUTURE JET 2C**			96	391	201 *	147	33	180	180	142	22	10	14.5	14.5
FUTURE JETm 2A	**FUTURE JET 2A**													15.5	14.5
FUTURE JETm 2AH	**FUTURE JET 2AH**													15.5	14.5

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

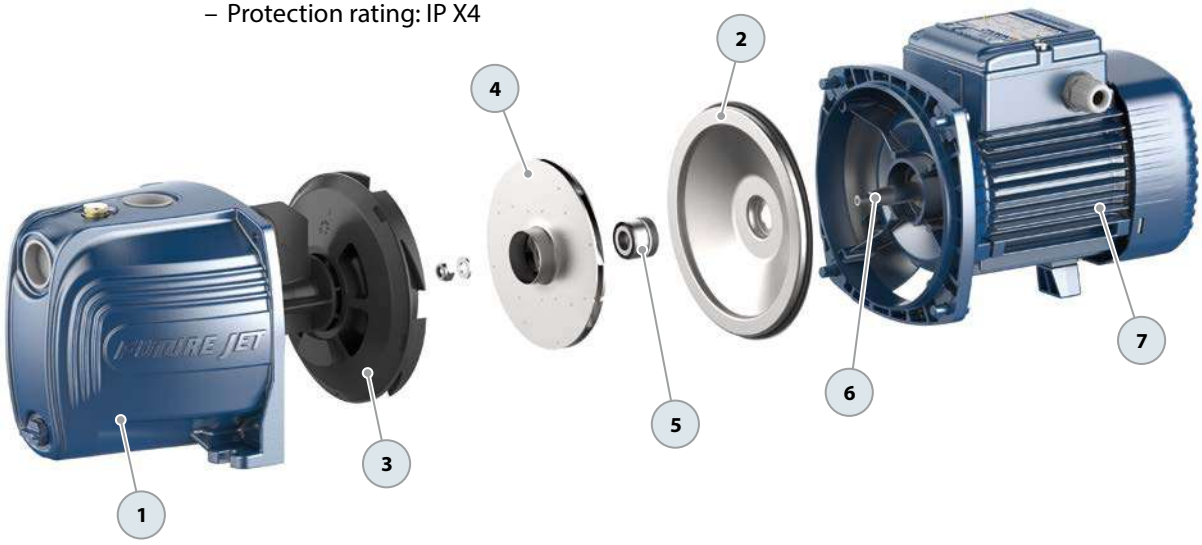
PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
FUTURE JETm 1C	**FUTURE JET 1C**	98
FUTURE JETm 1B	**FUTURE JET 1B**	98
FUTURE JETm 1A	**FUTURE JET 1A**	98
FUTURE JETm 2C	**FUTURE JET 2C**	72
FUTURE JETm 2A	**FUTURE JET 2A**	72
FUTURE JETm 2AH	**FUTURE JET 2AH**	72

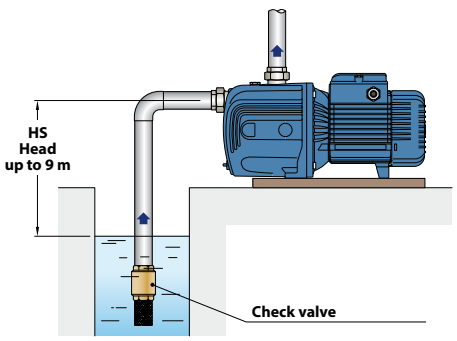
MATERIALS AND COMPONENTS

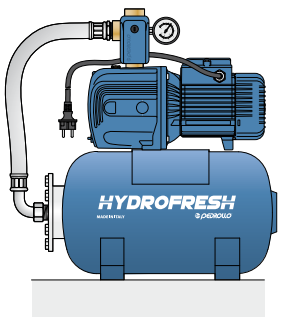
1	**Pump body**	FUTURE JET 1: cast iron with cataphoretic treatment, provided with ISO 228/1 threaded ports FUTURE JET 2: cast iron with ISO 228/1 threaded ports start of production with new design 07.2024
2	**Cover**	Stainless steel **AISI 304**
3	**Ejector unit**	Noryl™
4	**Impeller**	Stainless steel **AISI 304**
5	**Mechanical seal**	
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**FUTURE JETm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **FUTURE JET**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP X4

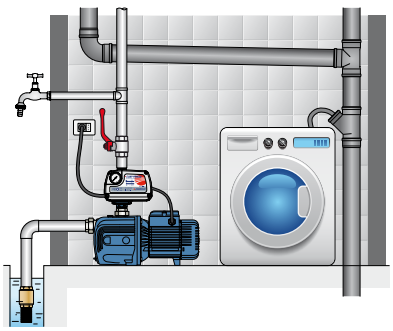
Water pump	Seal	Shaft	Materials
FUTURE JET 1	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR
FUTURE JET 2	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR



EXAMPLES OF INSTALLATION







JET "self-priming pumps

Clean water

Domestic use

Civil use



PERFORMANCE RANGE

- Flow rate up to **70 l/min** (4.2 m³/h)
- Head up to **58 m**

INSTALLATION AND USE

JSW self-priming pumps are designed to draw water and liquids that contain air.

They are reliable and easy to operate. They are a favorite for domestic use, particularly effective for water distribution with small to medium-sized pressure tanks and suitable for irrigation..

APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST

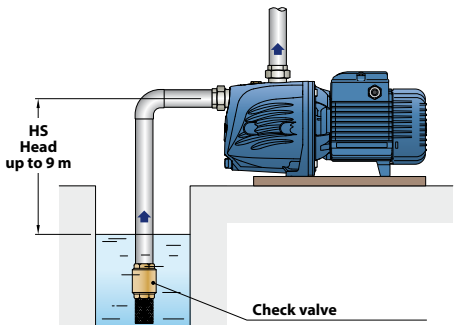
※ Technopolymer impeller (JSW X) (cost-effective version)

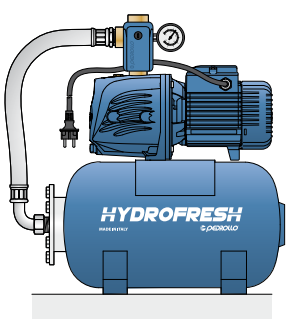
※ Different voltage requirements 60 Hz frequency

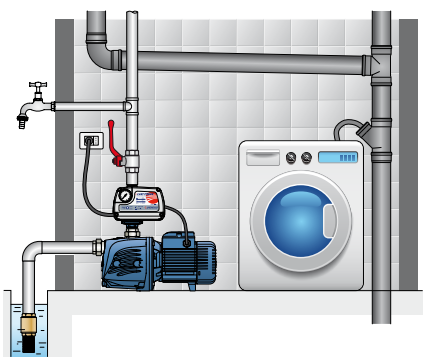
PATENTS - TRADE MARKS - MODELS

- **JSW**® Registered trademark No. 013073135
- Registered Community Model No. 002218610
- European Patent No. 1 510 696

EXAMPLES OF INSTALLATION

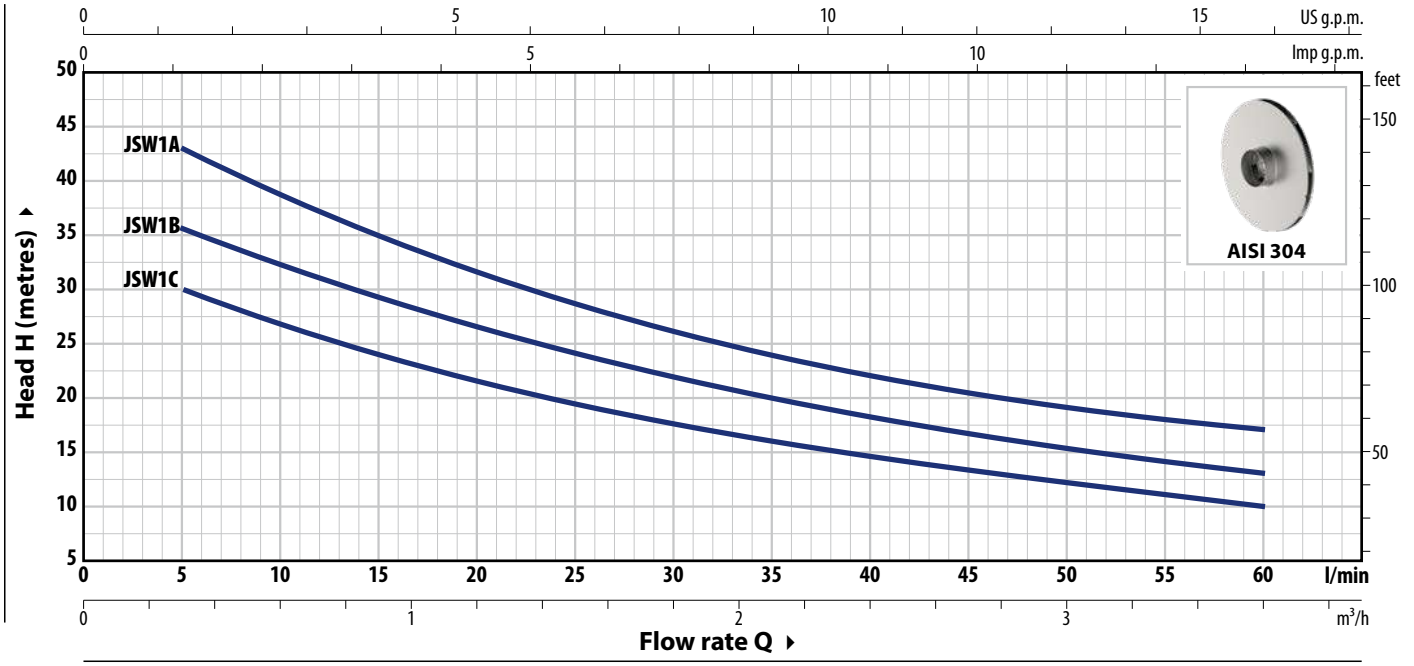




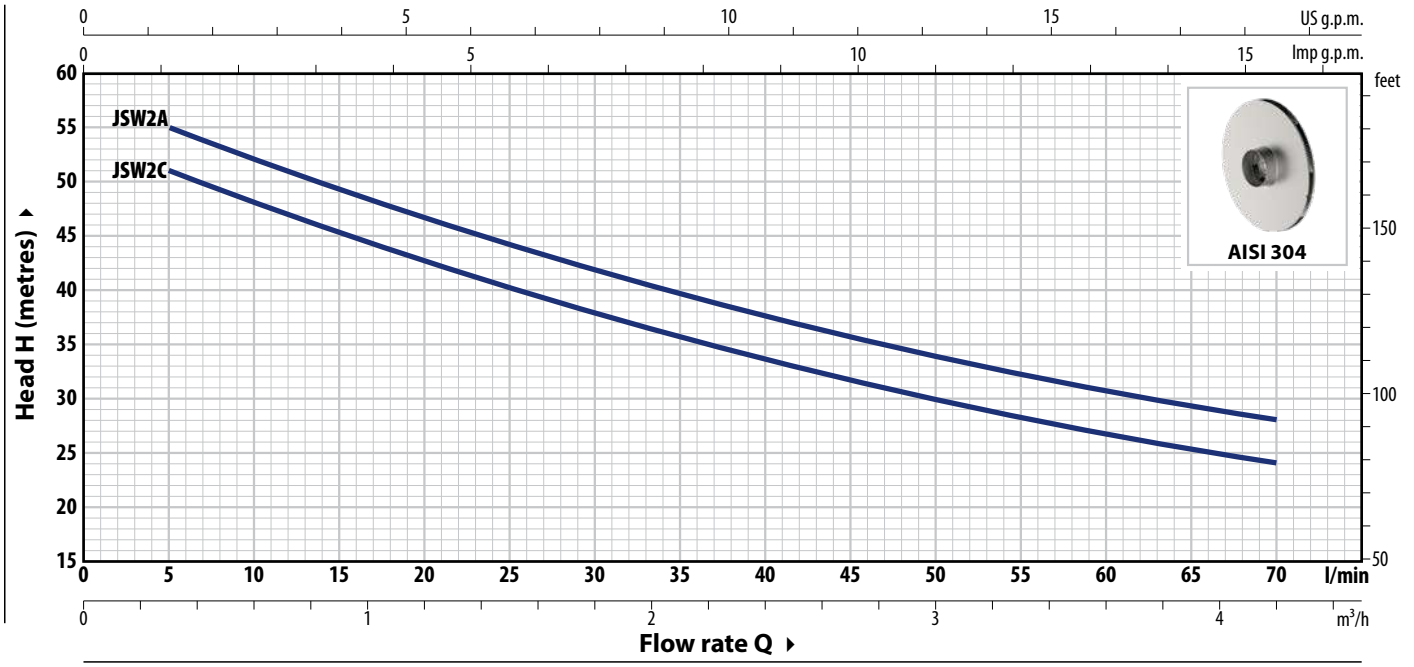


CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q m³/h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6
Single-ph.	Three-ph.	kW	HP	1~	3~	l/min	**0**	**5**	**10**	**20**	**25**	**30**	**40**	**45**	**50**	**60**
JSWm 1C	JSW 1C	0.37	0.50	IE2	IE3	H metres	34	30	27	21.7	19.5	17.7	14.7	13.4	12.2	10
JSWm 1B	JSW 1B	0.48	0.65				39.5	35.5	32.4	26.6	24.2	22	18.3	16.7	15.3	13
JSWm 1A	JSW 1A	0.55	0.75				48	43	39	31.5	28.5	26	22	20.5	19	17



TYPE		POWER (P2)				Q m³/h	0	0.3	0.6	1.2	1.8	2.4	2.7	3.0	3.6	4.2
Single-ph.	Three-ph.	kW	HP	1~	3~	l/min	**0**	**5**	**10**	**20**	**30**	**40**	**45**	**50**	**60**	**70**
JSWm 2C	JSW 2C	0.75	1	IE2	IE3	H metres	54	51	48	42.5	38	33.5	31.5	30	26.5	24
JSWm 2A	JSW 2A	0.90	1.25				58	55	52	46.5	42	37.5	35.5	34	31	28

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

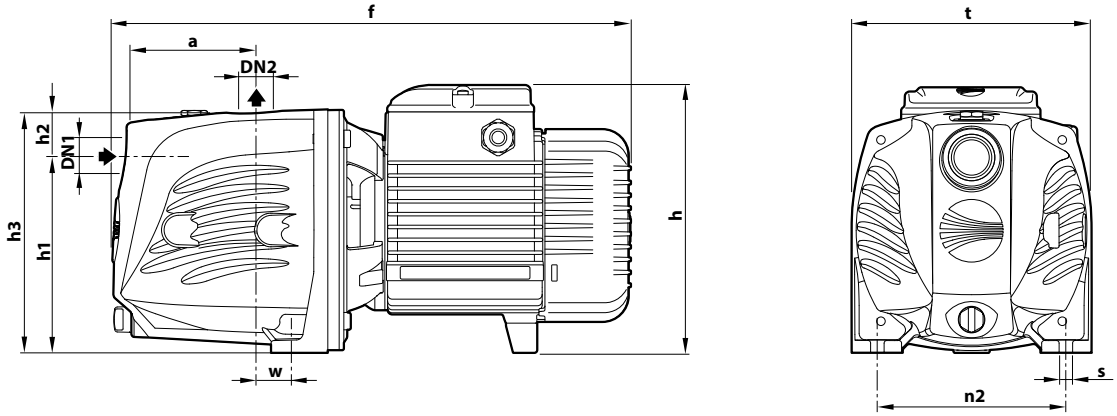
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
JSWm 1C	2.6 A
JSWm 1B	3.2 A
JSWm 1A	3.6 A
JSWm 2C	5.8 A
JSWm 2A	6.0 A

TYPE	VOLTAGE	
Three-ph.	**230 V - Δ**	**400 V - Y**
JSW 1C	1.7 A	1.0 A
JSW 1B	2.1 A	1.2 A
JSW 1A	2.8 A	1.6 A
JSW 2C	4.7 A	2.7 A
JSW 2A	5.2 A	3.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	**Three- ph.**	**DN1**	**DN2**	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
JSWm 1C	**JSW 1C**	**1"**	**1"**	94	357	171	127	35	162	158	124	24	10	9.7	9.7
JSWm 1B	**JSW 1B**													9.8	9.8
JSWm 1A	**JSW 1A**													10.7	10.0
JSWm 2C	**JSW 2C**	**1"**	**1"**	96	389	200 *	147	33	180	180	142	22	10	14.0	14.0
JSWm 2A	**JSW 2A**													15.0	14.0

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

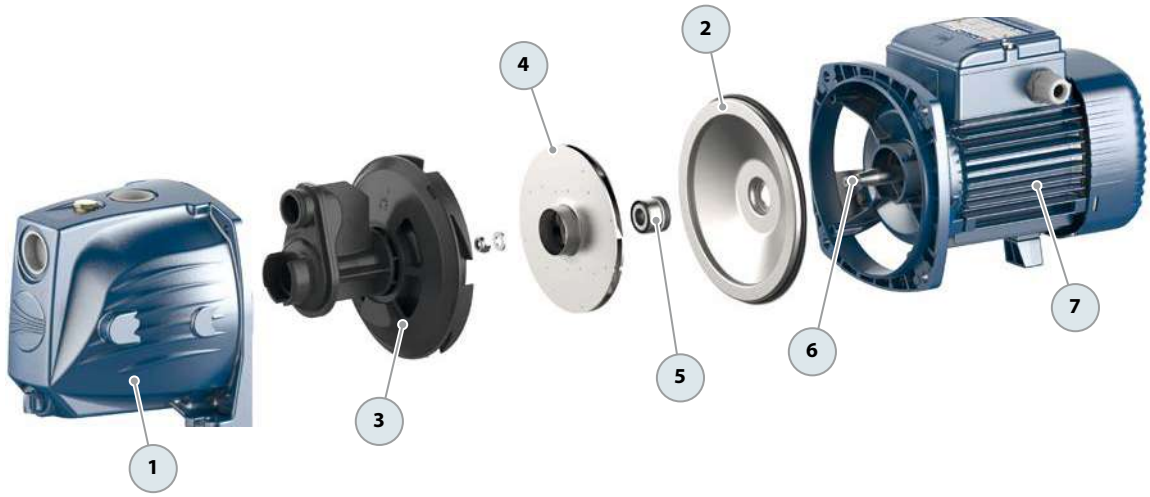
PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
JSWm 1C	**JSW 1C**	98
JSWm 1B	**JSW 1B**	98
JSWm 1A	**JSW 1A**	98
JSWm 2C	**JSW 2C**	72
JSWm 2A	**JSW 2A**	72

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoretic treatment, provided with ISO 228/1 threaded ports (for JSW 1) Cast iron with ISO 228/1 threaded ports (for JSW 2)
2	**Cover**	Stainless steel **AISI 304**
3	**Ejector unit**	Noryl™
4	**Impeller**	Stainless steel **AISI 304**
5	**Mechanical seal**	
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**JSWm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **JSW**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP X4

Water pump	Seal	Shaft	Materials
JSW1	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR
JSW2	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR



JET "self-priming pumps

Clean water
Domestic use
Civil use
Industrial use



PERFORMANCE RANGE

- Flow rate up to **160 l/min** (9.6 m³/h)
- Head up to **97 m**

INSTALLATION AND USE

JSW self-priming pumps are designed to draw water and liquids that contain air.

They are reliable and easy to operate. They are a favorite for domestic use, particularly effective for water distribution with small to medium-sized pressure tanks and suitable for irrigation.

APPLICATION LIMITS

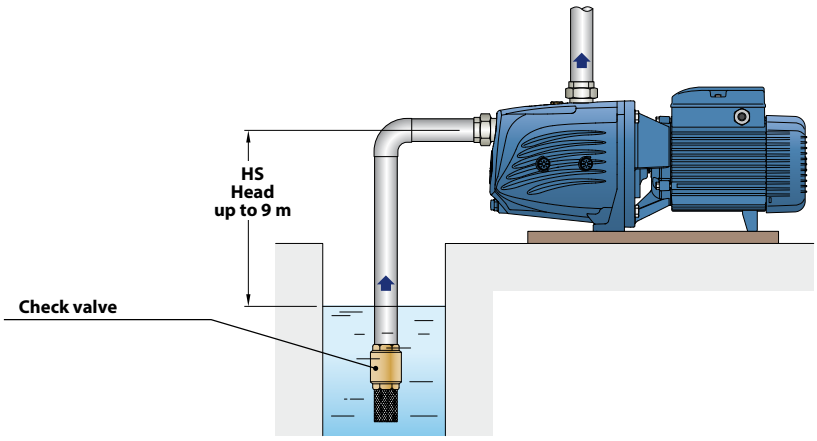
- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **10 bar**

AVAILABLE UPON REQUEST

※ IPX5 protection
※ Different voltage requirements 60 Hz frequency

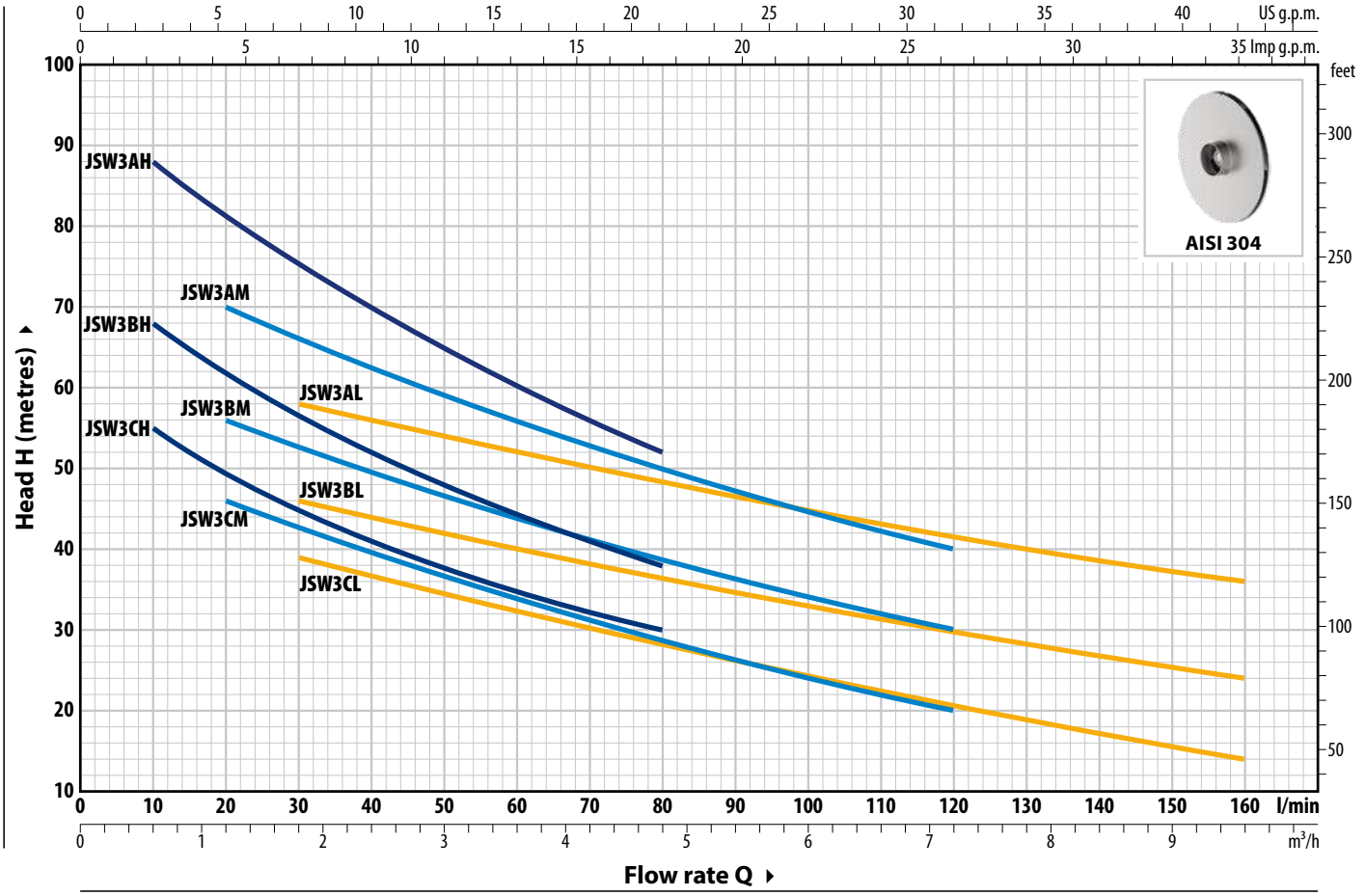
PATENTS - TRADE MARKS - MODELS

- JSW®Registered trademark No. 013073135
- Registered Community Model No. 002218610



CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/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
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**100**	**120**	**140**	**160**
JSWm 3CH	**JSW 3CH**	1.1	1.5					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	**IE2**	**IE3**	**H**	metres	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

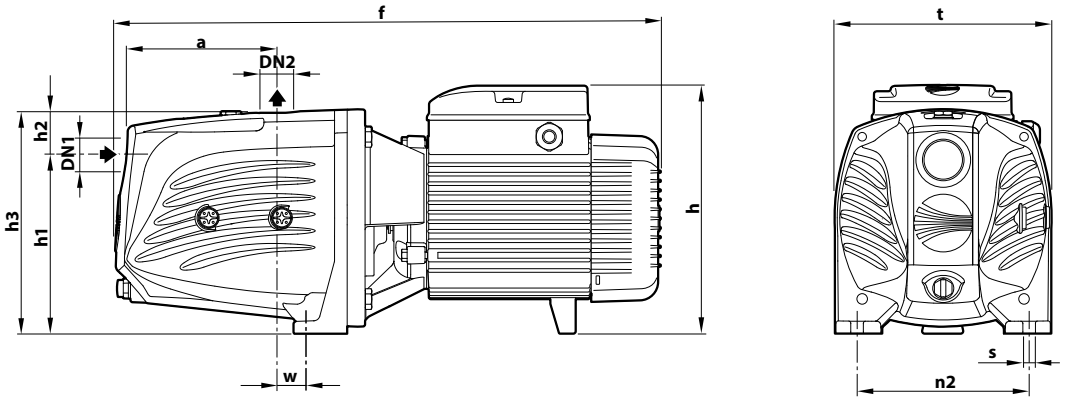
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
JSWm 3CH	8.1 A
JSWm 3BH	9.5 A
JSWm 3AH	12.7 A
JSWm 3CM	8.1 A
JSWm 3BM	9.7 A
JSWm 3AM	13.0 A
JSWm 3CL	8.1 A
JSWm 3BL	10.1 A
JSWm 3AL	13.6 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
JSW 3CH	5.2 A	3.0 A
JSW 3BH	6.1 A	3.5 A
JSW 3AH	8.8 A	5.1 A
JSW 3CM	5.2 A	3.0 A
JSW 3BM	6.1 A	3.5 A
JSW 3AM	9.0 A	5.2 A
JSW 3CL	5.2 A	3.0 A
JSW 3BL	6.4 A	3.7 A
JSW 3AL	9.3 A	5.4 A

DIMENSIONS AND WEIGHT



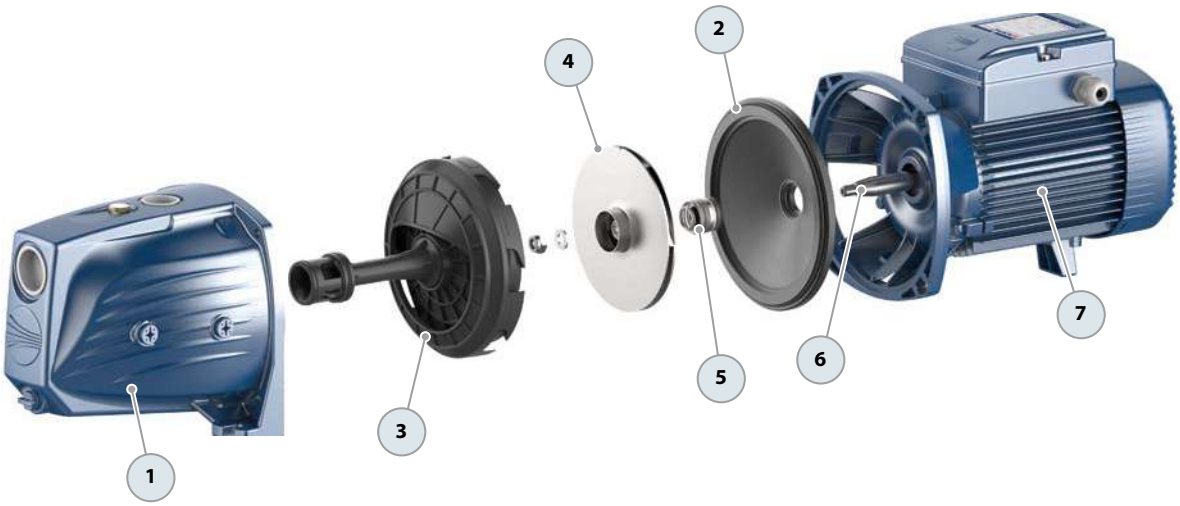
TYPE		PORTS		DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
JSWm 3CH	**JSW 3CH**	**1¼"**	**1"**	143	522	240	165	39	204	206	164	30	11	24.5	24.4
JSWm 3BH	**JSW 3BH**													25.6	25.7
JSWm 3AH	**JSW 3AH**				542									28.4	28.4
JSWm 3CM	**JSW 3CM**				522									24.6	24.4
JSWm 3BM	**JSW 3BM**													25.7	25.7
JSWm 3AM	**JSW 3AM**				542									28.4	28.4
JSWm 3CL	**JSW 3CL**				522									24.5	24.4
JSWm 3BL	**JSW 3BL**													25.8	25.7
JSWm 3AL	**JSW 3AL**				542									28.4	28.4

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
JSWm 3CH	**JSW 3CH**	35
JSWm 3BH	**JSW 3BH**	35
JSWm 3AH	**JSW 3AH**	35
JSWm 3CM	**JSW 3CM**	35
JSWm 3BM	**JSW 3BM**	35
JSWm 3AM	**JSW 3AM**	35
JSWm 3CL	**JSW 3CL**	35
JSWm 3BL	**JSW 3BL**	35
JSWm 3AL	**JSW 3AL**	35

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded ports
2	**Cover**	Cast iron with cataphoresis treatment
3	**Ejector unit**	Noryl™
4	**Impeller**	Stainless steel **AISI 304**
5	**Mechanical seal**	Seal: **FN-18** — Shaft: Ø 18 mm — Materials: Graphite / Ceramic / NBR
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**JSWm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **JSW**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models, class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP X4



FUTURE JET·ST®

The self-priming pump of the future!

Clean water

Domestic use

Civil use

※ Reduction of energy consumption by up to 50%



From an evolution of the classic JET pump concept, a SUPER JET was born.

※ Stainless steel pump body and impeller
※ Better consumption/performance ratio
※ High hydraulic efficiency
※ Noise reduction

PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **59 m**

FUTURE JET-ST

Developed by our innovative research and development team, this pump revolutionizes the classic self-priming design.
With an international registered patent, the **FUTURE JET-ST** not only matches the pressure of a traditional JET pump, it surpasses it. Moreover, it doubles the flow rate while reducing energy consumption by up to 50%.

INSTALLATION AND USE

FUTURE JET-ST self-priming pumps are designed to draw water and liquids that contain air.

They are reliable and easy to operate. They are a favorite for domestic use, particularly effective for water distribution with small to medium-sized pressure tanks and suitable for irrigation.

APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST

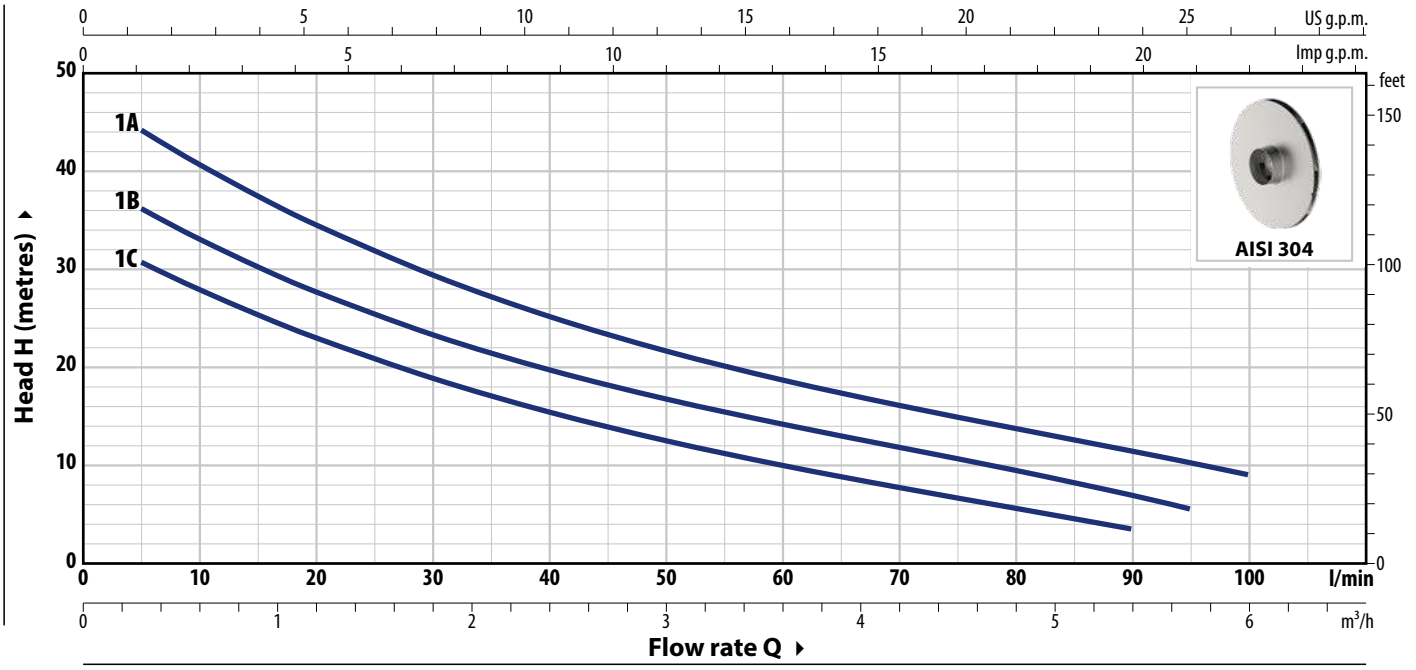
※ Technopolymer impeller (cost-effective version)
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

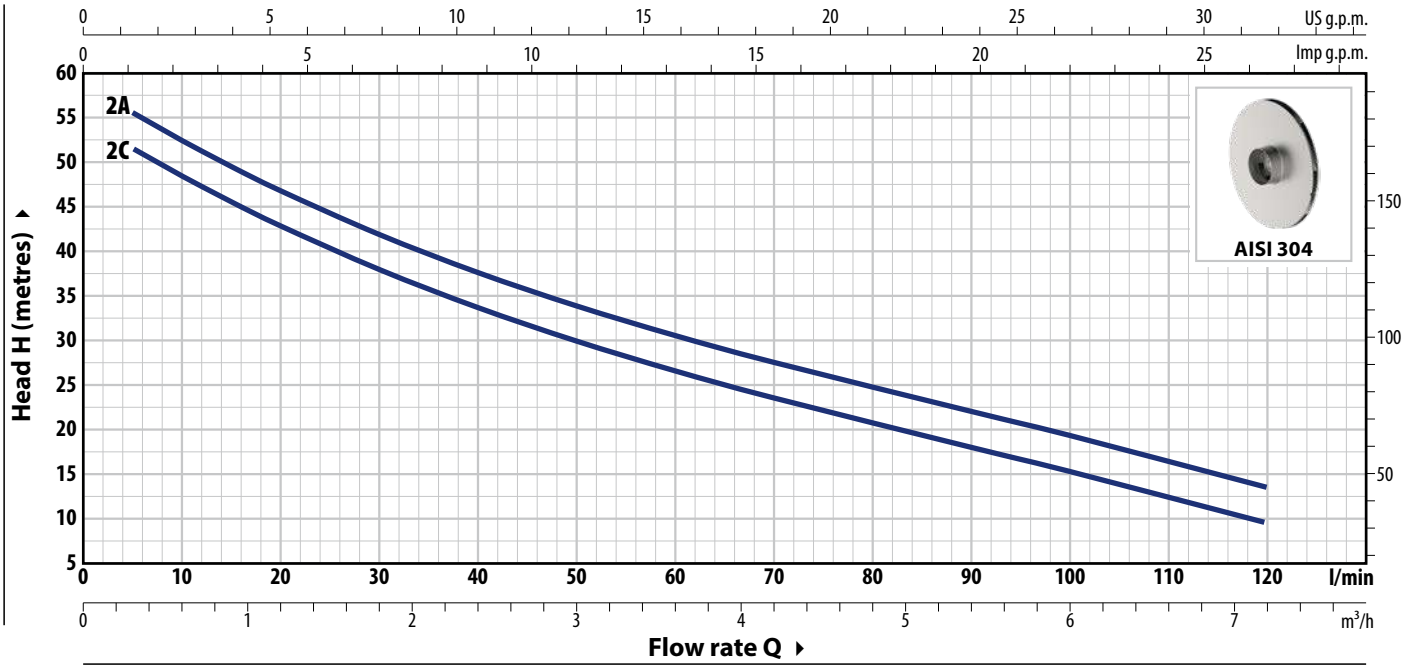
- FUTURE JET® Registered Trade mark No. 018198453
- European Patent No. 1 510 696
- Patent No. PCT/IT2019/050168

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	5.7	6.0
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**95**	**100**
FUTURE JETm 1C-ST	**FUTURE JET 1C-ST**	0.37	0.50	**IE2**	**IE3**	**H**	metres	33.5	30.5	28	23	15.4	10	6	3.5		
FUTURE JETm 1B-ST	**FUTURE JET 1B-ST**	0.48	0.65					40	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



TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	5.7	6.0	7.2
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**95**	**100**	**120**
FUTURE JETm 2C-ST	**FUTURE JET 2C-ST**	0.75	1	**IE2**	**IE3**	**H**	metres	55	52	49	43	34	27	20.5	18.3	17	15.5	10
FUTURE JETm 2A-ST	**FUTURE JET 2A-ST**	0.90	1.25					59	56	53	47	38	32	25	22.3	21	19.5	13.7

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

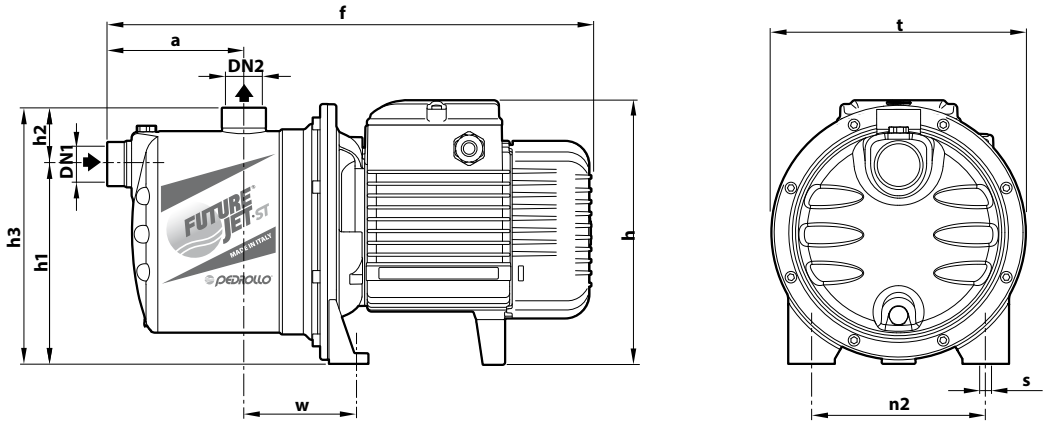
FUTURE JET-ST Technical data

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
FUTURE JETm 1C-ST	2.6 A
FUTURE JETm 1B-ST	3.2 A
FUTURE JETm 1A-ST	4.0 A
FUTURE JETm 2C-ST	5.8 A
FUTURE JETm 2A-ST	6.6 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
FUTURE JET 1C-ST	1.7 A	1.0 A
FUTURE JET 1B-ST	2.1 A	1.2 A
FUTURE JET 1A-ST	2.8 A	1.6 A
FUTURE JET 2C-ST	4.7 A	2.7 A
FUTURE JET 2A-ST	5.2 A	3.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
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	367	183	132	51	183	182	120	87	9	7.1	7.1
FUTURE JETm 1B-ST	**FUTURE JET 1B-ST**													7.1	7.1
FUTURE JETm 1A-ST	**FUTURE JET 1A-ST**													7.8	7.1
FUTURE JETm 2C-ST	**FUTURE JET 2C-ST**	**1"**	**1"**	111	393	217 *	162	46	208	208	142	91	10	11.2	11.2
FUTURE JETm 2A-ST	**FUTURE JET 2A-ST**													12.0	11.2

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

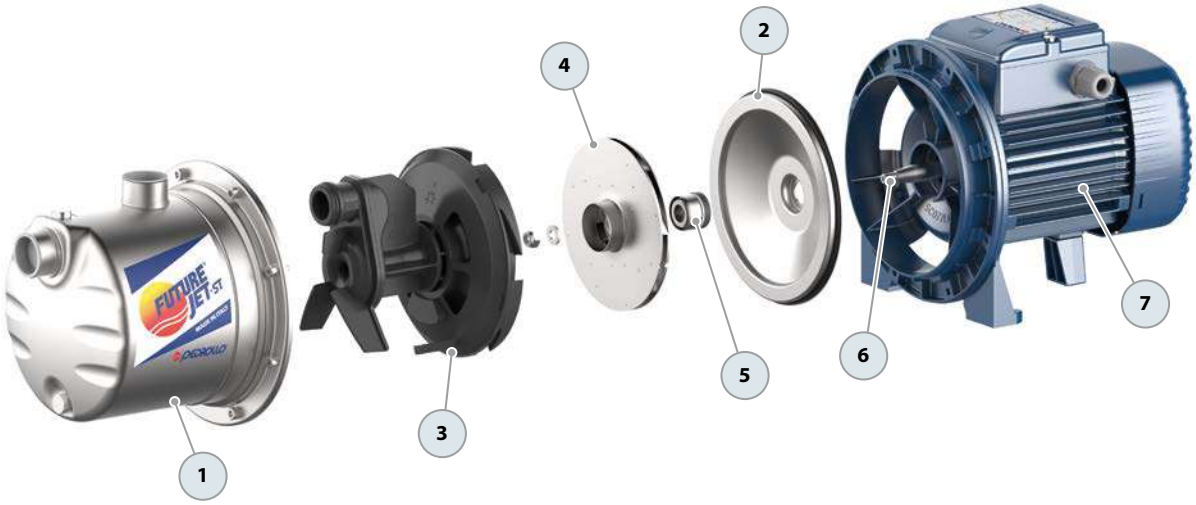
PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
FUTURE JETm 1C-ST	**FUTURE JET 1C-ST**	84
FUTURE JETm 1B-ST	**FUTURE JET 1B-ST**	84
FUTURE JETm 1A-ST	**FUTURE JET 1A-ST**	84
FUTURE JETm 2C-ST	**FUTURE JET 2C-ST**	60
FUTURE JETm 2A-ST	**FUTURE JET 2A-ST**	60

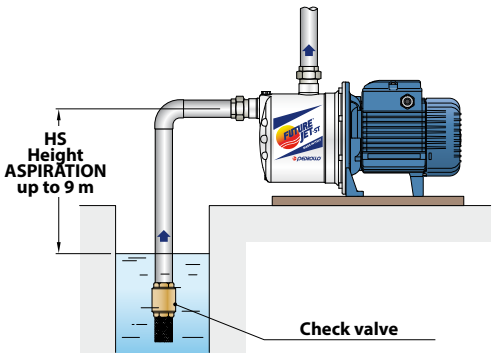
MATERIALS AND COMPONENTS

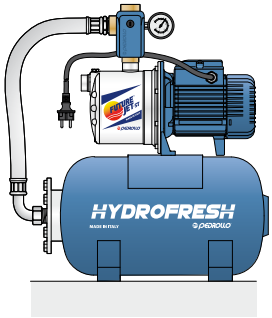
1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**Ejector unit**	Noryl™
4	**Impeller**	Stainless steel **AISI 304**
5	**Mechanical seal**	
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**FUTURE JETm-ST**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **FUTURE JET-ST**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP X4

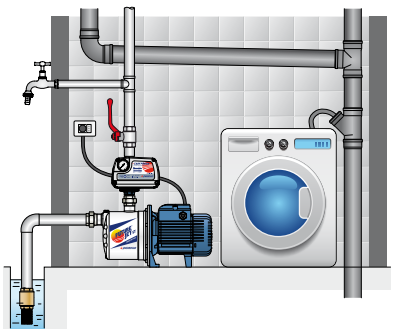
Water pump	Seal	Shaft	Materials
FUTURE JET 1-ST	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR
FUTURE JET 2-ST	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR



EXAMPLES OF INSTALLATION







Clean water

Domestic use

Civil use



PERFORMANCE RANGE

- Flow rate up to **70 l/min** (4.2 m³/h)
- Head up to **60 m**

INSTALLATION AND USE

JCR self-priming pumps are designed to draw water and liquids that contain air.

They are reliable and easy to operate. They are a favorite for domestic use, particularly effective for water distribution with small to medium-sized pressure tanks and suitable for irrigation.

APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST

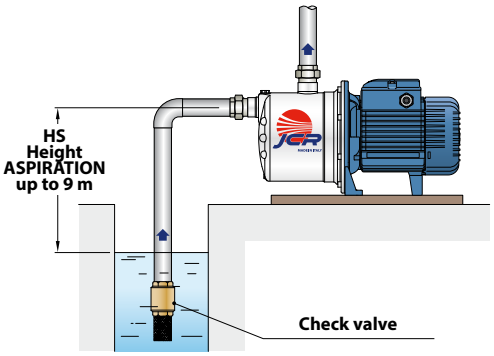
※ Different voltage requirements 60 Hz frequency

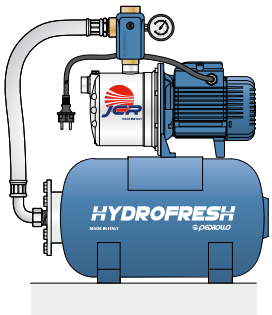
※ Certified pumps WRAS

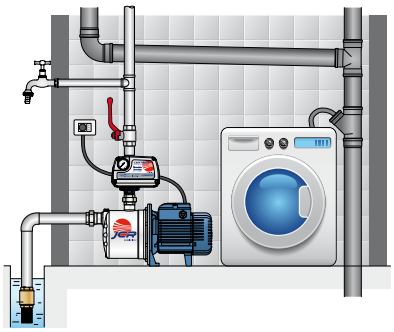
PATENTS - TRADE MARKS - MODELS

- European Patent No. 1 510 696

EXAMPLES OF INSTALLATION

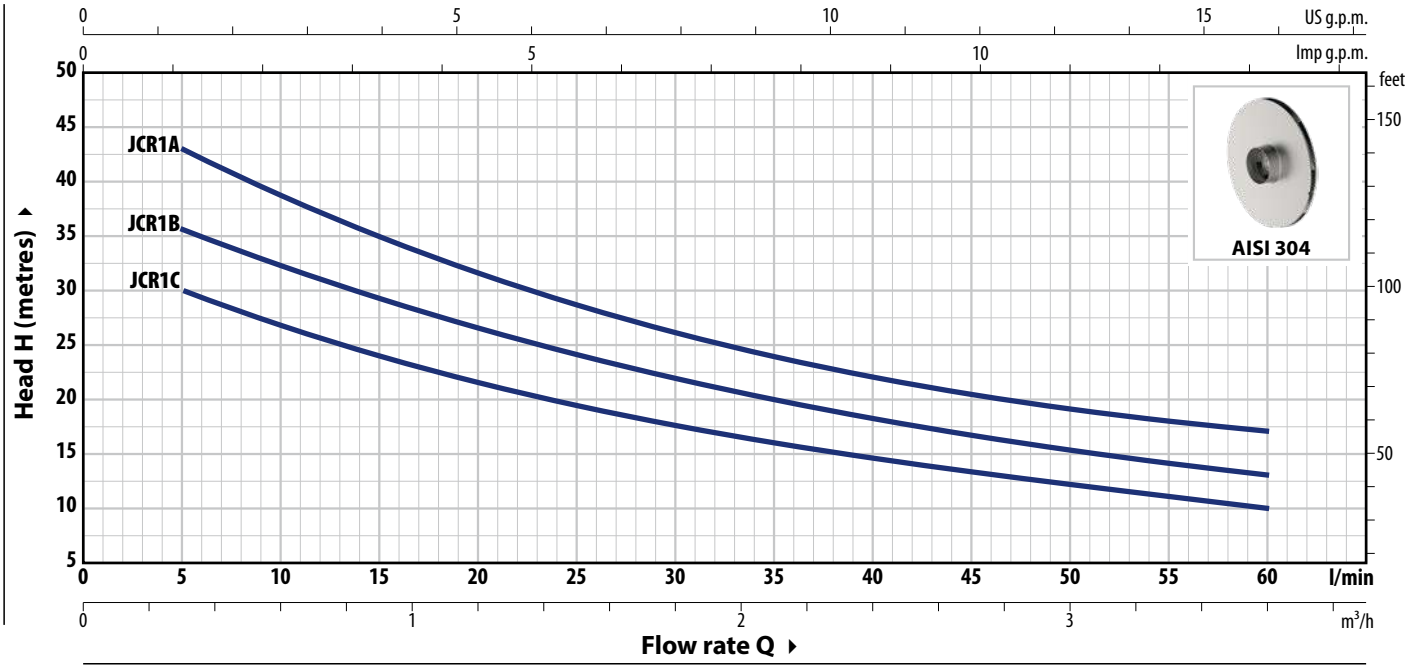




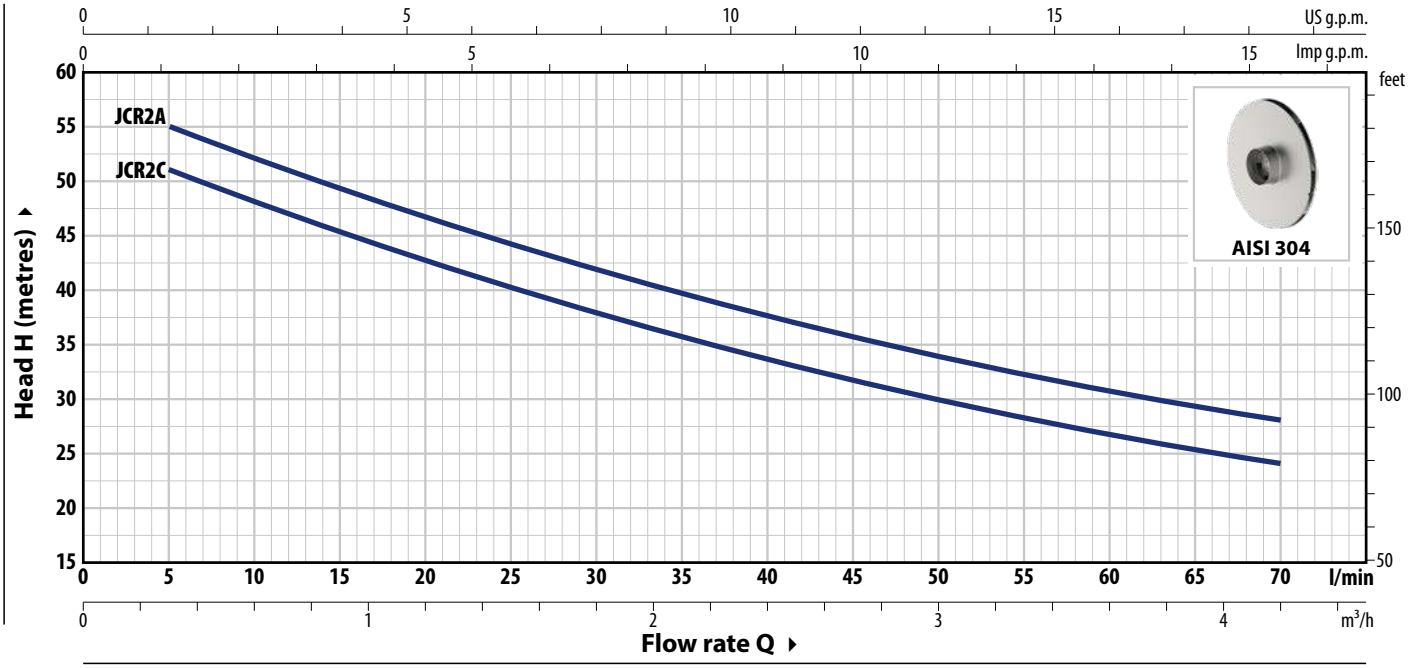


CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q m³/h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**	l/min	**0**	**5**	**10**	**20**	**25**	**30**	**40**	**45**	**50**	**60**
JCRm 1C	**JCR 1C**	0.37	0.50				34	30	27	21.7	19.5	17.7	14.7	13.4	12.2	10
JCRm 1B	**JCR 1B**	0.48	0.65	**IE2**	**IE3**	**H** metres	39.5	35.5	32.4	26.6	24.2	22	18.3	16.7	15.3	13
JCRm 1A	**JCR 1A**	0.55	0.75				48	43	39	31.5	28.5	26	22	20.5	19	17



TYPE		POWER (P2)				Q m³/h	0	0.3	0.6	1.2	1.8	2.4	2.7	3.0	3.6	4.2
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**	l/min	**0**	**5**	**10**	**20**	**30**	**40**	**45**	**50**	**60**	**70**
JCRm 2C	**JCR 2C**	0.75	1				54	51	48	42.5	38	33.5	31.5	30	26.5	24
JCRm 2A	**JCR 2A**	0.90	1.25	**IE2**	**IE3**	**H** metres	58	55	52	46.5	42	37.5	35.5	34	31	28

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

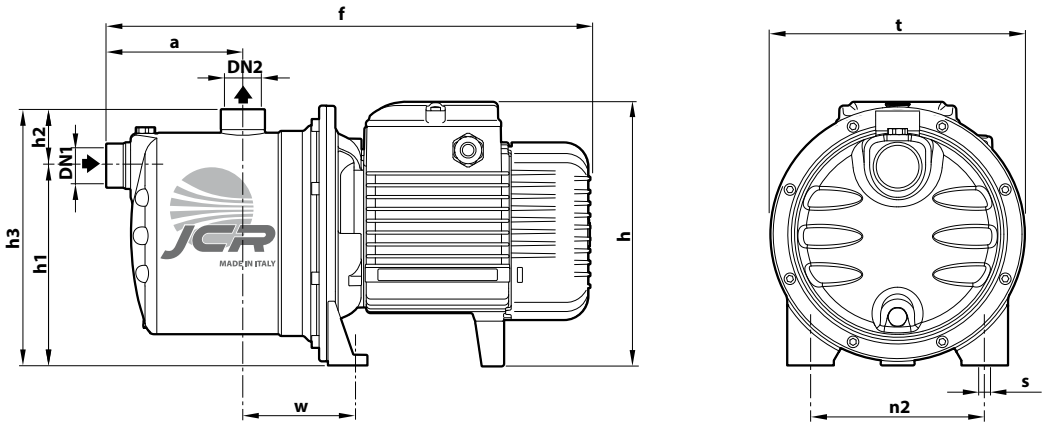
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
JCRm 1C	2.6 A
JCRm 1B	3.2 A
JCRm 1A	3.6 A
JCRm 2C	5.8 A
JCRm 2A	6.2 A

TYPE	VOLTAGE	
Three-ph.	**230 V - Δ**	**400 V - Y**
JCR 1C	1.7 A	1.0 A
JCR 1B	2.1 A	1.2 A
JCR 1A	2.8 A	1.6 A
JCR 2C	4.7 A	2.7 A
JCR 2A	5.2 A	3.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
JCRm 1C	**JCR 1C**	**1"**	**1"**	113	367	183	132	51	183	182	120	87	9	7.1	7.1
JCRm 1B	**JCR 1B**													7.1	7.1
JCRm 1A	**JCR 1A**													7.8	7.1
JCRm 2C	**JCR 2C**	**1"**	**1"**	111	393	217 *	162	46	208	208	142	91	10	11.2	11.2
JCRm 2A	**JCR 2A**													12.0	11.2

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

PALLET CAPACITY

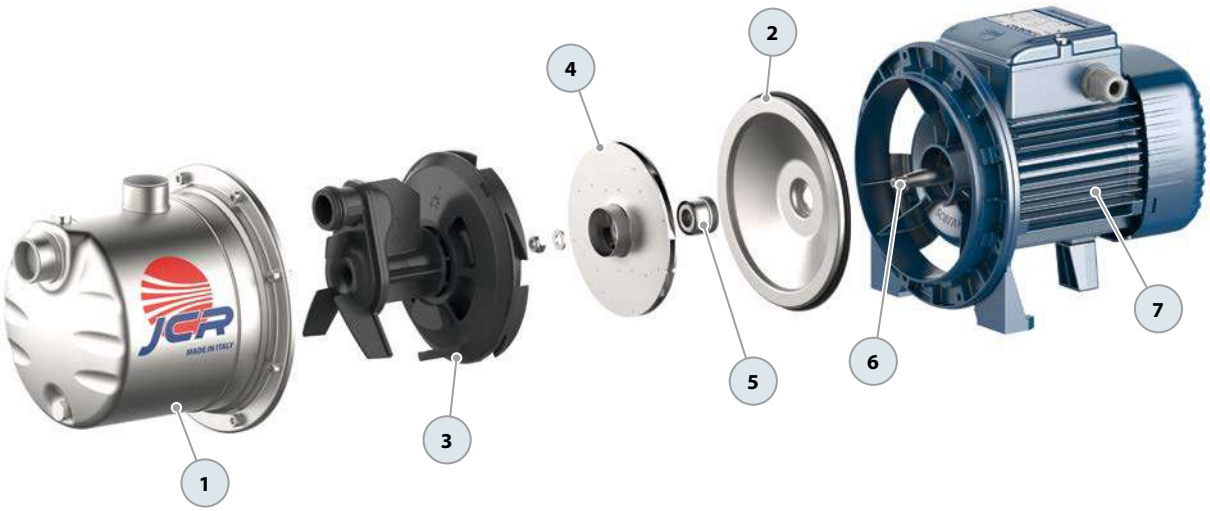
TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
JCRm 1C	**JCR 1C**	84
JCRm 1B	**JCR 1B**	84
JCRm 1A	**JCR 1A**	84
JCRm 2C	**JCR 2C**	60
JCRm 2A	**JCR 2A**	60

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**Ejector unit**	Noryl™
4	**Impeller**	Stainless steel **AISI 304**
5	**Mechanical seal**	

Water pump	Seal	Shaft	Materials
JCR1	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR
JCR2	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR

6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**JCRm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **JCR**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP X4



MAGNIFICA

Self-priming swimming pool pumps

Swimming pools residential

Swimming pools Department

※ **For pools up to 180 m³**



※ **Robust electric pumps constructed with high-quality components and thick materials for extended durability and quiet operation.**

※ **High water flow rate paired with low energy consumption.**

※ **Double insulation between the pump and electric motor ensures maximum safety, with the pump/motor shaft always insulated from water.**

※ **Pre-filter equipped with a transparent cover for easy visual inspection, featuring an extra-large filter basket to reduce cleaning frequency.**

※ **High resistance to heat, chemicals, and salt corrosion.**

※ **Supplied with 2" GAS threaded ISO 228/1 connection fittings and AISI 316 screws**

PERFORMANCE RANGE

- Flow rate up to **700 l/min** (42 m³/h)
- Head up to **23 m**

INSTALLATION AND USE

Self-priming pump with a built-in filter, designed for water circulation in residential swimming pools up to 180 m³.

APPLICATION LIMITS

- Swimming pool water (pH 6.5 8.4).
- Manometric suction head up to **4 m** (HS)
- Liquid temperature up to **+45 °C**
- Ambient temperature up to **+50 °C**
- Maximum working pressure **2.5 bar**

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors, **IE2** for single-phase motors, class F insulation and IP55 protection.

AVAILABLE UPON REQUEST

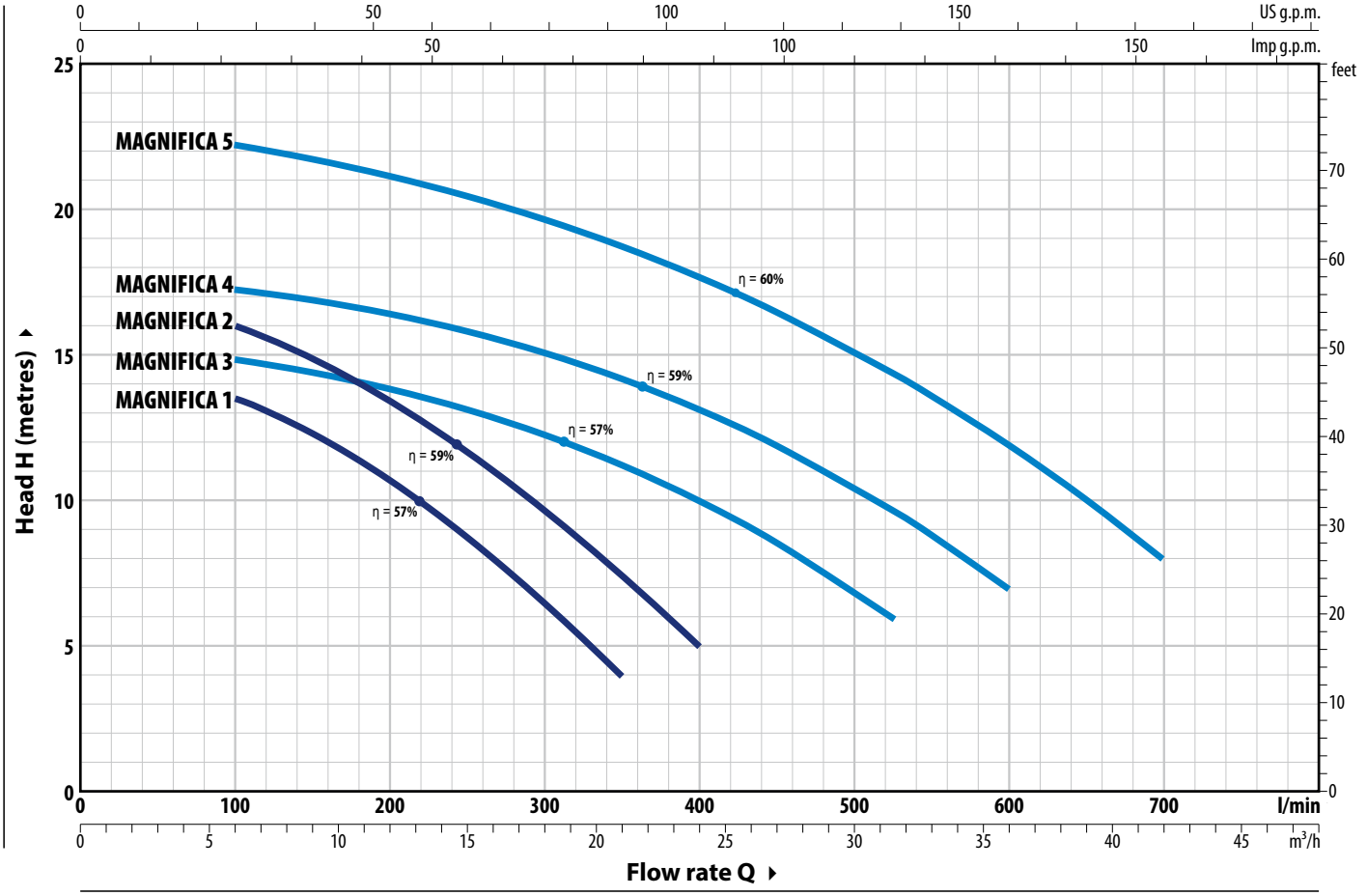
※ Different voltage requirements 60 Hz frequency
※ Smooth connection fitting **63 mm**
※ Smooth connection fitting **2" BS**
※ Threaded connection fitting **2" NPT**

PATENTS - TRADE MARKS - MODELS

- **MAGNIFICA®** Registered trademark no. 018159079
- Registered Community Model No. 007671839

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	6.0	9.0	12	15	18	21	24	30	36	42
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**525**	**600**	**700**
MAGNIFICA 1m	**MAGNIFICA 1**	0.55	0.75					14.5	13.5	12.3	10.7	8.8	6.5	4				
MAGNIFICA 2m	**MAGNIFICA 2**	0.75	1					17	16	15	13.5	11.7	9.7	7.4	5			
MAGNIFICA 3m	**MAGNIFICA 3**	1.1	1.5	**IE2**	**IE3**	**H**	metres	15.5	15	14.4	14	13.2	12.3	11.3	10	6		
MAGNIFICA 4m	**MAGNIFICA 4**	1.5	2					17.7	17.3	17	16.4	15.8	15	14.2	13	9.6	7	
MAGNIFICA 5m	**MAGNIFICA 5**	2.2	3					23	22.2	21.8	21.2	20.5	19.7	18.8	17.7	14.4	12	8

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

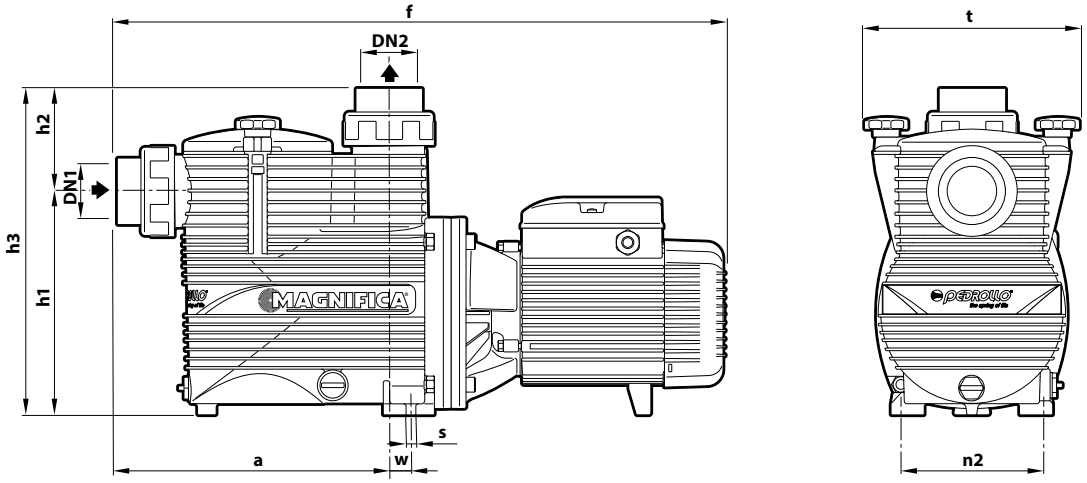
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
MAGNIFICA 1m	4.2 A
MAGNIFICA 2m	5.6 A
MAGNIFICA 3m	8.2 A
MAGNIFICA 4m	9.7 A
MAGNIFICA 5m	13.0 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
MAGNIFICA 1	2.8 A	1.6 A
MAGNIFICA 2	3.6 A	2.1 A
MAGNIFICA 3	5.4 A	3.1 A
MAGNIFICA 4	7.3 A	4.2 A
MAGNIFICA 5	8.6 A	5.0 A

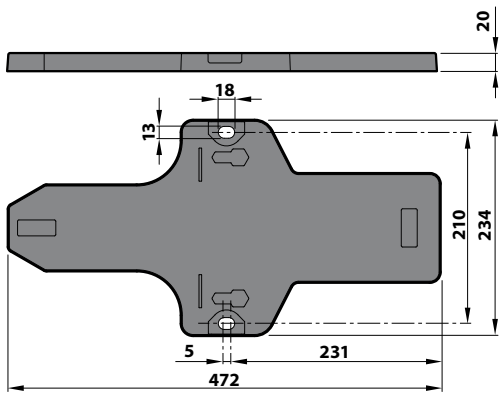
DIMENSIONS AND WEIGHT



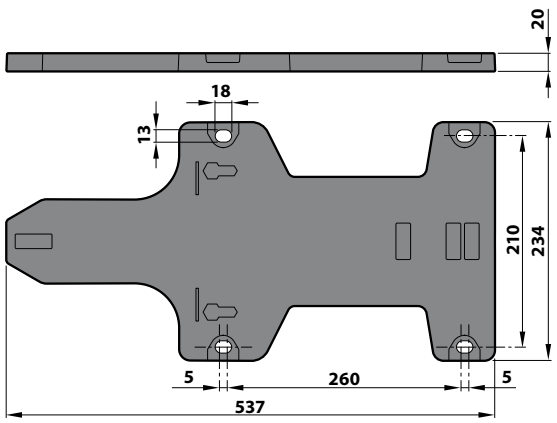
TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3	n1	w	s	t	1~	3~
MAGNIFICA 1m	**MAGNIFICA 1**	**2"**	**2"**	294	583	240	113	353	155	4.3	10.5	235	14.1	14.1
MAGNIFICA 2m	**MAGNIFICA 2**												15.0	15.0
MAGNIFICA 3m	**MAGNIFICA 3**			294	657	240	113	353	155	15.8	10.5	235	19.4	19.4
MAGNIFICA 4m	**MAGNIFICA 4**												20.6	20.6
MAGNIFICA 5m	**MAGNIFICA 5**				677								23.3	23.3

BASEMENT (mm)

Stand for MAGNIFICA 1-2



Stand for MAGNIFICA 3-4-5



MATERIALS AND COMPONENTS

1	**Pump body**	Glass-fibre reinforced polypropylene with ISO 228/1 threaded ports
2	**Seal insert**	Glass-fibre reinforced polypropylene
3	**Diffuser**	Noryl™
4	**Impeller**	Noryl™
5	**Mechanical seal**	

Water pump	Seal	Shaft	Materials
MAGNIFICA 1-2	**AR-17**	Ø 17	Ceramic / Graphite / NBR
MAGNIFICA 3-4-5	**AR-20R**	Ø 20	Ceramic / Graphite / NBR

6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**MAGNIFICA m**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **MAGNIFICA**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**
8	**O-Ring (OR)**	NBR
9	**Cover**	Polycarbonate
10	**Pre-filter**	Polypropylene
11	**Closing knob**	Nylon
12	**Fittings**	PVC-U
13	**Base**	Polypropylene



PRIMA Self-priming swimming pool pumps

Swimming pools residential

※ **For pools up to 70 m³**



※ **Robust electric pumps constructed with high-quality components and thick materials for extended durability and quiet operation.**

※ **Pre-filter equipped with a transparent cover for easy visual inspection, featuring an extra-large filter basket to reduce cleaning frequency.**

※ **High resistance to heat, chemicals, and salt corrosion.**

※ **Motor case painted with cataphoresis for added protection**

※ **Supplied with 1½" GAS threaded ISO 228/1 connection fittings and AISI 304 screws**

PERFORMANCE RANGE

- Flow rate up to **310 l/min** (18.6 m³/h)
- Head up to **16 m**

INSTALLATION AND USE

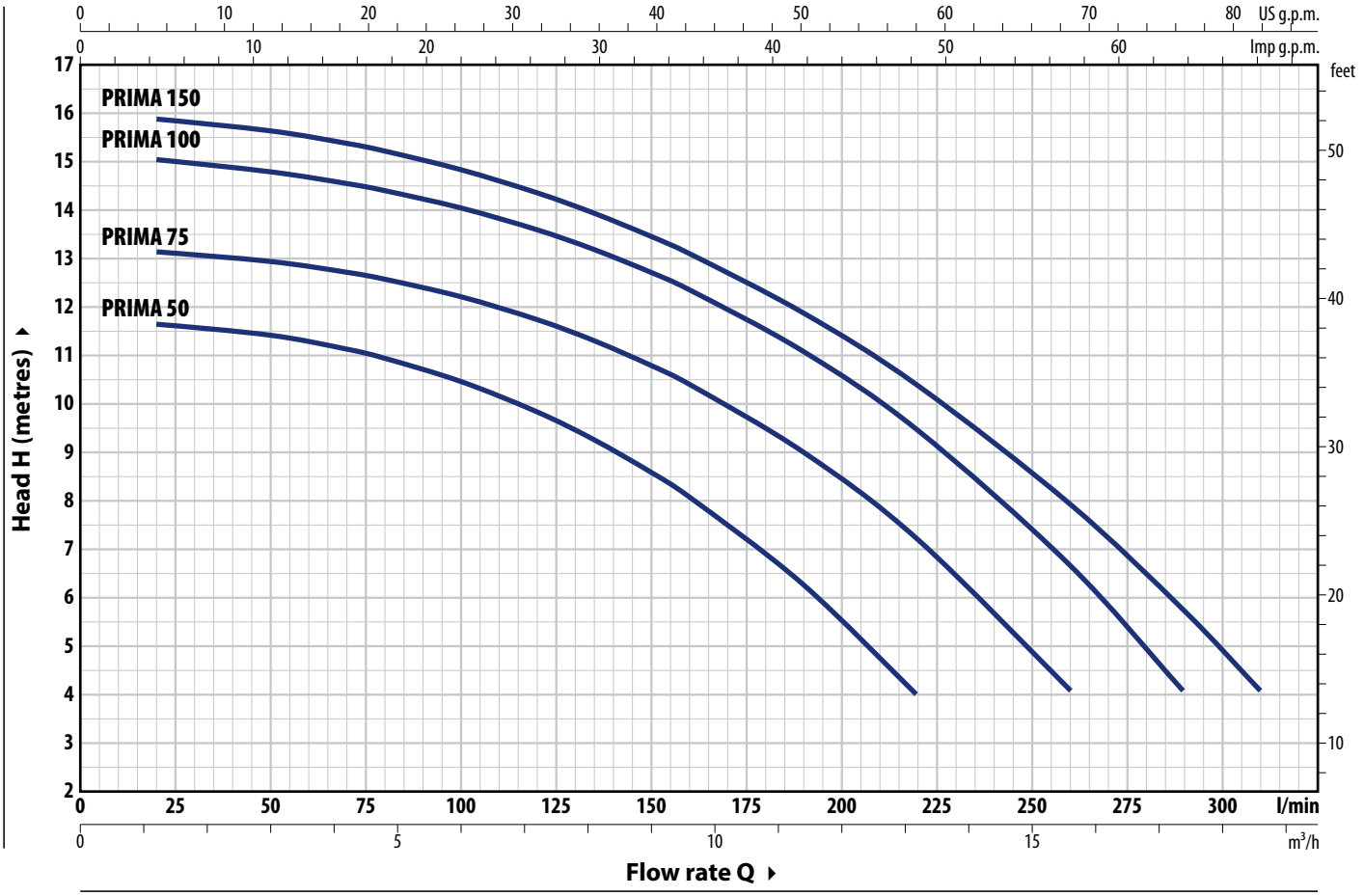
Self-priming pump with a built-in filter, designed for water circulation in residential swimming pools up to **70 m³**.

APPLICATION LIMITS

- Manometric suction head up to **4 m** (HS)
- Liquid temperature up to **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **2.5 bar**
- Swimming pool water (pH 6.5 8.4).

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	1.2	3	4.2	4.8	6	7.2	9	9.6	11.4	13.2	15.6	17.4	18.6
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**20**	**50**	**70**	**80**	**100**	**120**	**150**	**160**	**190**	**220**	**260**	**290**	**310**
PRIMA 50m	**PRIMA 50**	0.37	0.50					11.7	11.6	11.4	11.1	10.9	10.4	9.8	8.6	8	6.3	4			
PRIMA 75m	**PRIMA 75**	0.55	0.75					13.2	13.1	13	12.7	12.6	12.2	11.7	10.8	10.4	9	7	4		
PRIMA 100m	**PRIMA 100**	0.75	1	**IE2**	**IE3**	**H**	metres	15	15	14.8	14.5	14.4	14	13.6	12.7	12.3	11	9.4	6.6	4	
PRIMA 150m	**PRIMA 150**	1.1	1.5					16	15.8	15.6	15.3	15.2	14.8	14.3	13.4	13	11.8	10.3	8	5.7	4

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

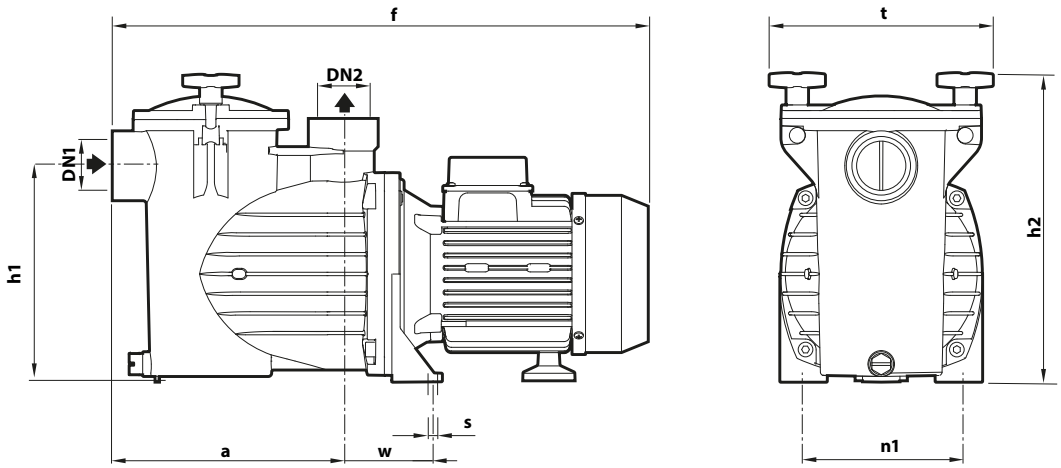
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
PRIMA 50m	3.0 A
PRIMA 75m	3.8 A
PRIMA 100m	4.8 A
PRIMA 150m	5.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
PRIMA 50	2.6 A	1.5 A
PRIMA 75	2.8 A	1.6 A
PRIMA 100	2.9 A	1.7 A
PRIMA 150	4.0 A	2.3 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	n1	w	s	t	1~	3~
PRIMA 50m	**PRIMA 50**	**1½"**	**1½"**	205	476	191	275	140	68	9	197	8.8	8.8
PRIMA 75m	**PRIMA 75**											9.8	9.8
PRIMA 100m	**PRIMA 100**												
PRIMA 150m	**PRIMA 150**												

MATERIALS AND COMPONENTS

1	**Pump body**	Glass-fibre reinforced polypropylene
2	**Seal insert**	Glass-fibre reinforced polypropylene
3	**Diffuser**	Glass-fibre reinforced polypropylene
4	**Impeller**	Noryl™
5	**Mechanical seal**	Seal: **AR-17** — Shaft: Ø 17 — Materials: Graphite / Alumina Oxide / NBR
6	**Motor shaft**	Stainless steel **AISI 316**
7	**Electric motor**	**PRIMA m:** single-phase 230 V - 50 Hz with winding integrated thermal motor protection **PRIMA:** three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP 55
8	**O-Ring (OR)**	NBR
9	**Cover**	Polycarbonate
10	**Pre-filter**	Polypropylene
11	**Closing knob**	Nylon
12	**Fittings**	PVC



VILLABELLA

Self-priming swimming pool pumps

Swimming pools residential

※ **For pools up to 135 m³**



- ※ **Robust electric pumps constructed with high-quality components and thick materials for extended durability and quiet operation.**
- ※ **Pre-filter equipped with a transparent cover for easy visual inspection, featuring an extra-large filter basket to reduce cleaning frequency.**
- ※ **High resistance to heat, chemicals, and salt corrosion.**
- ※ **Motor case painted with cataphoresis for added protection**
- ※ **Supplied with 2" GAS threaded ISO 228/1 connection fittings and AISI 304 screws**

PERFORMANCE RANGE

- Flow rate up to **600 l/min** (36 m³/h)
- Head up to **21 m**

INSTALLATION AND USE

Self-priming pump with a built-in filter, designed for water circulation in residential swimming pools up to **135 m³**.

APPLICATION LIMITS

- Manometric suction head up to **4 m** (HS)
- Liquid temperature up to **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **2.5 bar**
- Swimming pool water (pH 6.5 – 8.4).

AVAILABLE UPON REQUEST

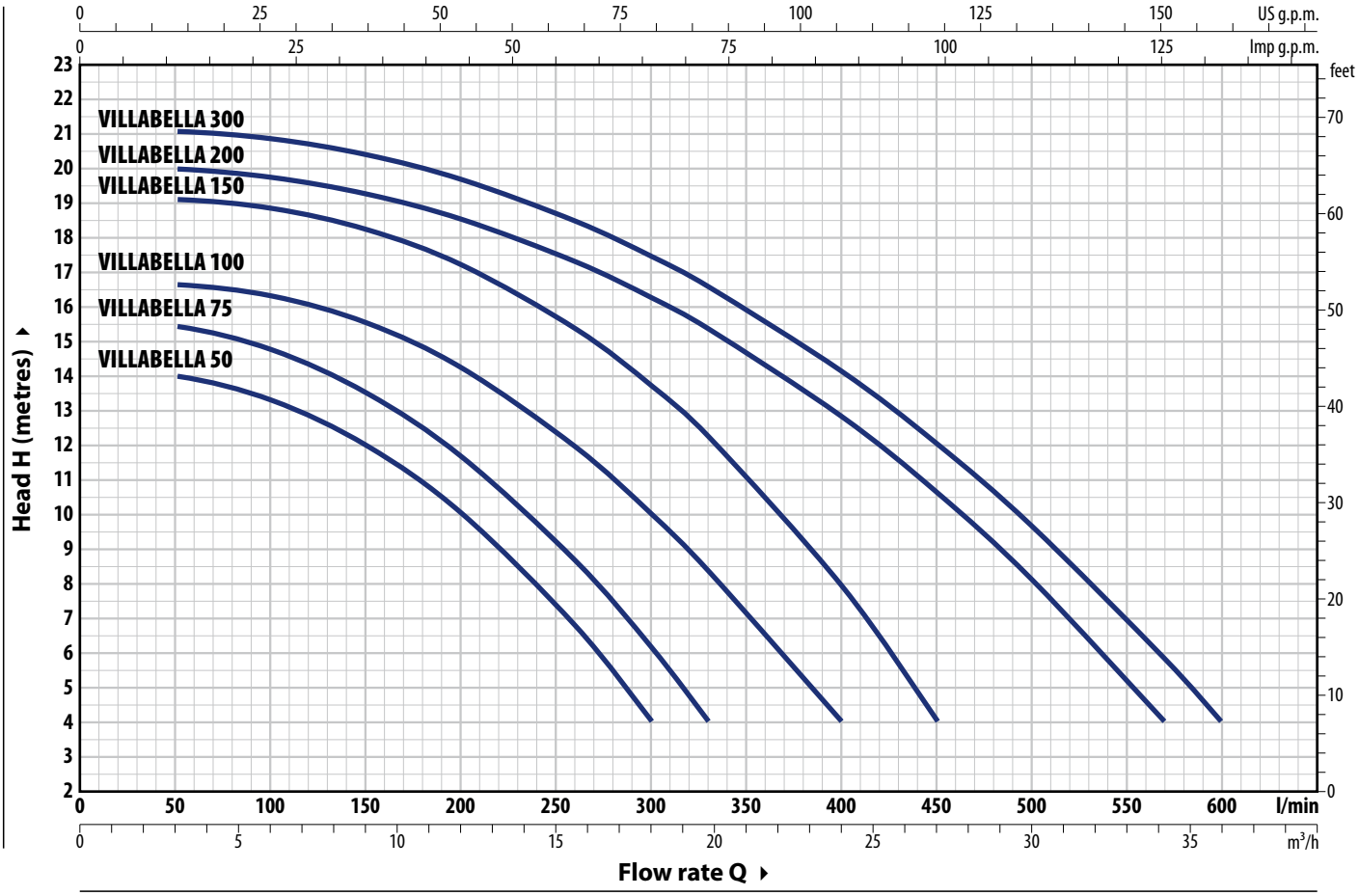
※ Smooth connection fitting **63 mm**
※ Smooth connection fitting **2" BS**

Key to open the pre-filter cover included.



CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	3	6	9	12	15.6	18	19.8	24	27	34.2	36
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**50**	**100**	**150**	**200**	**260**	**300**	**330**	**400**	**450**	**570**	**600**
VILLABELLA 50m	**VILLABELLA 50**	0.37	0.50					14	14	13.3	12	10	6.8	4					
VILLABELLA 75m	**VILLABELLA 75**	0.55	0.75					15.5	15.5	14.8	13.5	11.7	8.7	6	4				
VILLABELLA 100m	**VILLABELLA 100**	0.75	1					16.5	16.4	16.3	15.6	14.2	12	10	8.3	4			
VILLABELLA 150m	**VILLABELLA 150**	1.1	1.5	**IE2**	**IE3**	**H**	metres	19	18.9	18.8	18.2	17.2	15.3	13.7	12.2	8	4		
VILLABELLA 200m	**VILLABELLA 200**	1.5	2					20	19.9	19.8	19.3	18.5	17.3	16.3	15.4	12.8	10.6	4	
VILLABELLA 300m	**VILLABELLA 300**	2.2	3					21	20.9	20.8	20.4	19.7	18.5	17.4	16.6	14	12	5.8	4

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

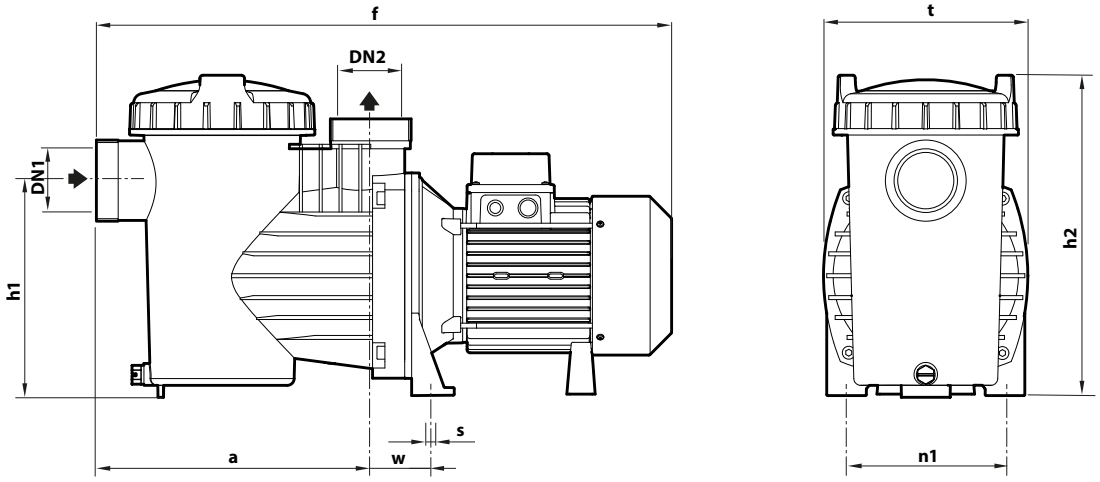
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
VILLABELLA 50m	4.2 A
VILLABELLA 75m	4.7 A
VILLABELLA 100m	6.0 A
VILLABELLA 150m	7.5 A
VILLABELLA 200m	9.5 A
VILLABELLA 300m	10.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
VILLABELLA 50	2.8 A	1.6 A
VILLABELLA 75	2.9 A	1.7 A
VILLABELLA 100	3.5 A	2.0 A
VILLABELLA 150	4.8 A	2.8 A
VILLABELLA 200	6.6 A	3.8 A
VILLABELLA 300	7.4 A	4.3 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	n1	w	s	t	1~	3~
VILLABELLA 50m	**VILLABELLA 50**	**2"**	**2"**	277	550	216	315	160	84	9	206	11.7	11.7
VILLABELLA 75m	**VILLABELLA 75**											11.5	11.5
VILLABELLA 100m	**VILLABELLA 100**											12.9	12.9
VILLABELLA 150m	**VILLABELLA 150**				580							13.9	13.9
VILLABELLA 200m	**VILLABELLA 200**											14.9	14.9
VILLABELLA 300m	**VILLABELLA 300**				630							17.4	17.4

MATERIALS AND COMPONENTS

1	**Pump body**	Glass-fibre reinforced polypropylene
2	**Seal insert**	Glass-fibre reinforced polypropylene
3	**Diffuser**	Glass-fibre reinforced polypropylene
4	**Impeller**	Noryl™
5	**Mechanical seal**	Seal: **AR-15** — Shaft: Ø 15 — Materials: Graphite / Alumina Oxide / NBR
6	**Motor shaft**	Stainless steel **AISI 316**
7	**Electric motor**	**VILLABELLA m**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **VILLABELLA**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE3** for three-phase models – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP 55
8	**O-Ring (OR)**	NBR
9	**Cover**	Polycarbonate
10	**Pre-filter**	Polypropylene
11	**Fittings**	PVC



MAXIMA

Self-priming swimming pool pumps

Swimming pools Department

※ **For pools up to 1080 m³**



- ※ **Robust electric pumps constructed with high-quality components and thick materials for extended durability and quiet operation.**
- ※ **Pre-filter equipped with a transparent cover for easy visual inspection, featuring an extra-large filter basket to reduce cleaning frequency.**
- ※ **Special anti-corrosion plastic base that provides stable support for the pump and piping.**
- ※ **High resistance to heat, chemicals, and salt corrosion.**
- ※ **Motor case with cataphoresis treatment**
- ※ **AISI 316 screws**

PERFORMANCE RANGE

- Flow rate up to **2400 l/min** (180 m³/h)
- Head up to **16 m**

INSTALLATION AND USE

Self-priming pump with a built-in filter, designed for water circulation in residential swimming pools up to **1080 m³** in size.

APPLICATION LIMITS

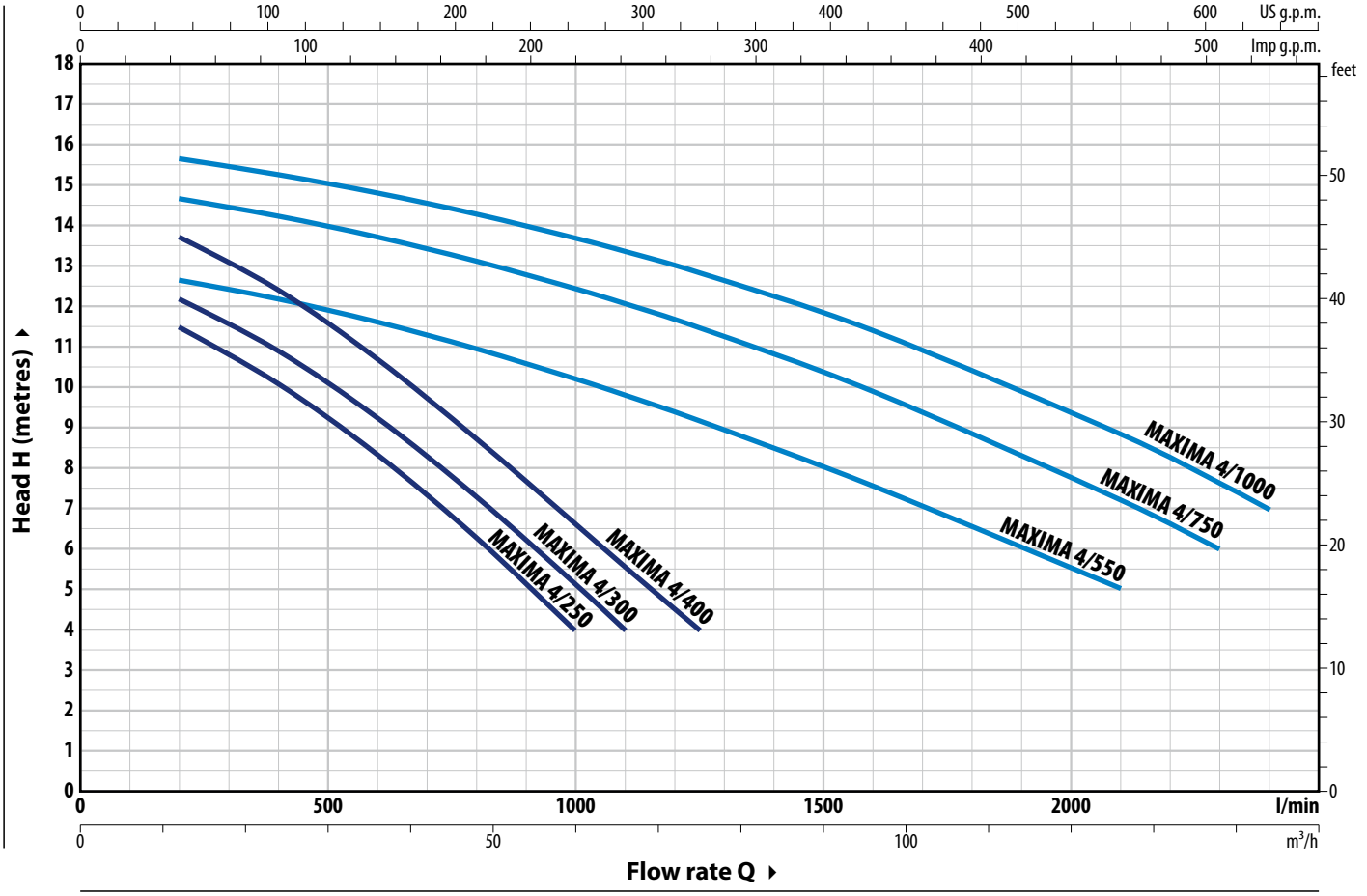
- Manometric suction head up to **4 m** (HS)
- Liquid temperature up to **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **2.5 bar**
- Swimming pool water (pH 6.5 – 8.4).

AVAILABLE UPON REQUEST

※ Bronze impeller

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz – n= 1450 min^{-1}



TYPE	POWER (P2)			Q	m³/h	0	12	36	48	60	66	75	96	126	138	144
Three-phase	kW	HP	3~		l/min	**0**	**200**	**600**	**800**	**1000**	**1100**	**1250**	**1600**	**2100**	**2300**	**2400**
MAXIMA 4/250	1.8	2.5				12.5	11.5	8.4	6.3	4						
MAXIMA 4/300	2.2	3				13	12	9.2	7.3	5	4					
MAXIMA 4/400	3	4				14.5	13.5	10.7	8.7	6.6	5.6	4				
MAXIMA 4/550	4	5.5	IE3	H	metres	13	12.5	11.6	11	10.2	9.8	9	7.5	5		
MAXIMA 4/750	5.5	7.5				15	14.5	13.7	13	12.4	12	11.5	10	7.2	6	
MAXIMA 4/1000	7.5	10				16	15.5	14.8	14.3	13.7	13.4	12.8	11.4	8.8	7.6	7

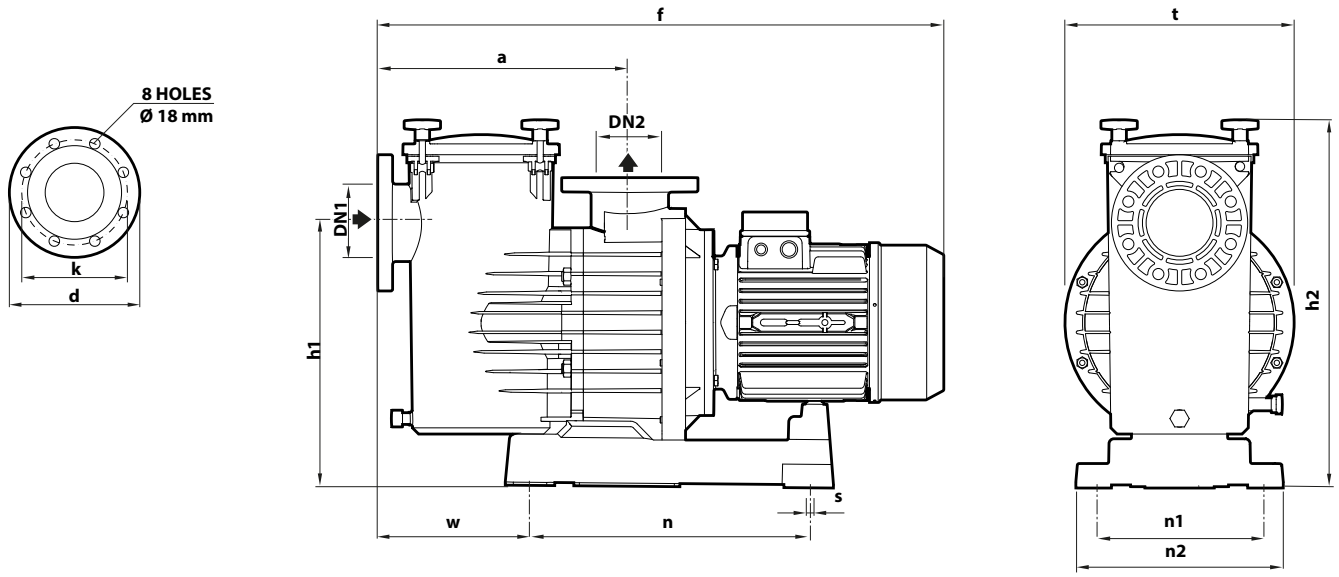
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
MAXIMA 4/250	8.1 A	4.7 A	–	–
MAXIMA 4/300	7.8 A	4.5 A	–	–
MAXIMA 4/400	11.2 A	6.5 A	–	–
MAXIMA 4/550	15.6 A	9.0 A	–	–
MAXIMA 4/750	–	–	12.5 A	7.2 A
MAXIMA 4/1000	–	–	14.5 A	8.4 A

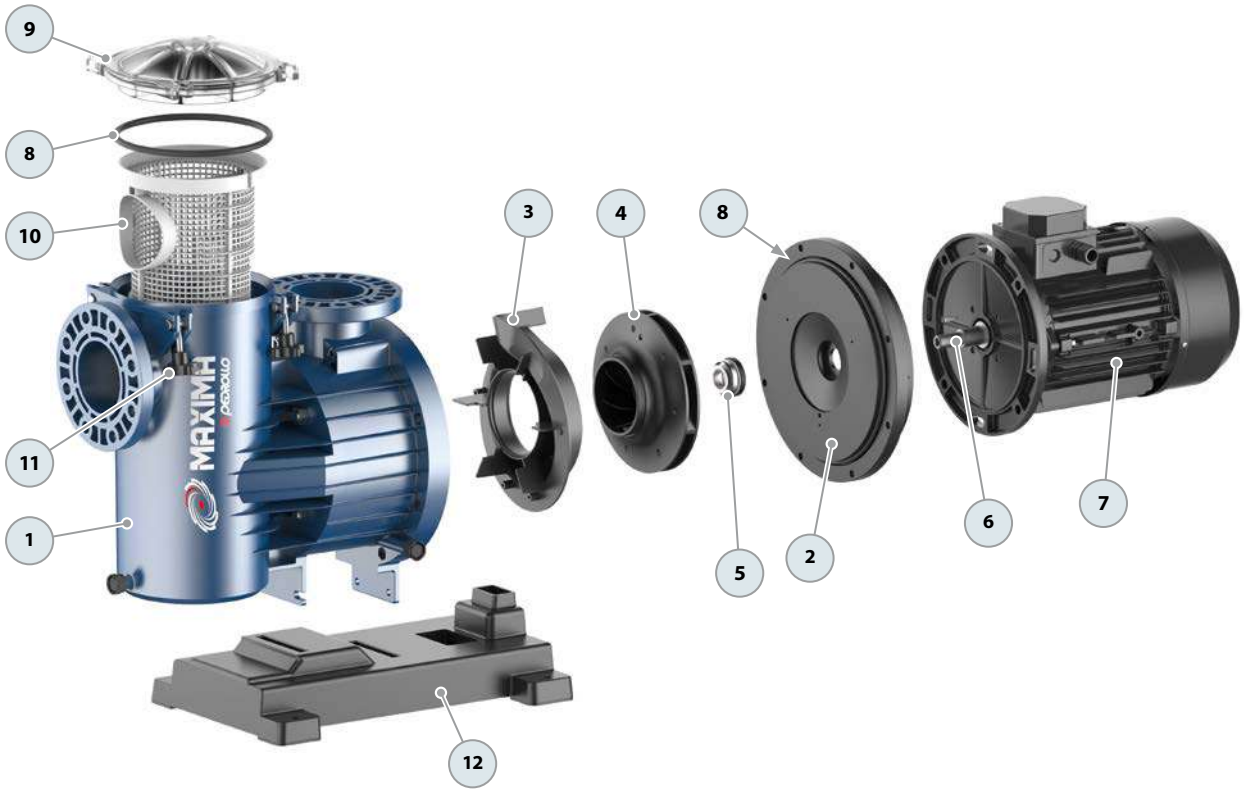
DIMENSIONS AND WEIGHT



TYPE	PORTS		DIMENSIONS mm												kg
Three-phase	**DN1**	**DN2**	a	f	h1	h2	n	n1	n2	s	t	w	d	k	
MAXIMA 4/250	**110**	**110**	407	838	425	596	450	300	335	11	368	246	218	180	42.0
MAXIMA 4/300															42.5
MAXIMA 4/400															44.5
MAXIMA 4/550				863											53.4
MAXIMA 4/750				913											66.0
MAXIMA 4/1000															76.0

MATERIALS AND COMPONENTS

1	**Pump body**	Glass-fibre reinforced polypropylene
2	**Seal insert**	Glass-fibre reinforced polypropylene
3	**Diffuser**	Glass-fibre reinforced polypropylene
4	**Impeller**	Noryl™
5	**Mechanical seal**	Seal: **AR-30** · Shaft: Ø 30 · Materials: Graphite / Alumina Oxide / NBR
6	**Motor shaft**	Stainless steel **AISI 316**
7	**Electric motor**	**MAXIMA**: three-phase 230/400 V - 50 Hz up to 4 kW 400/690 V - 50 Hz 5.5 to 7.5 kW – Continuous running duty **S1** – Insulation: CLASS F – Protection rating: IP 55
8	**O-Ring (OR)**	NBR
9	**Cover**	Polycarbonate
10	**Pre-filter**	Polypropylene
11	**Closing knob**	Nylon
12	**Base**	Noryl™



SPRINKLER

Self-priming centrifugal pumps

Clean water

Domestic use

Civil use



PERFORMANCE RANGE

- Flow rate up to **300 l/min** (18.0 m³/h)
- Head up to **25.5 m**

INSTALLATION AND USE

SPRINKLER, a versatile self-priming pump designed to effortlessly draw water, even when air is present in the liquid.

With its reliable performance and user-friendly operation, **SPRINKLER** is ideal for various applications, including domestic, civil, and irrigation.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection

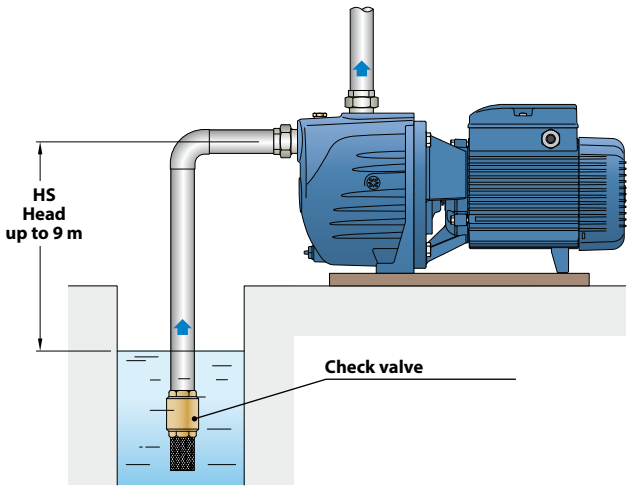
APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **10 bar**

AVAILABLE UPON REQUEST

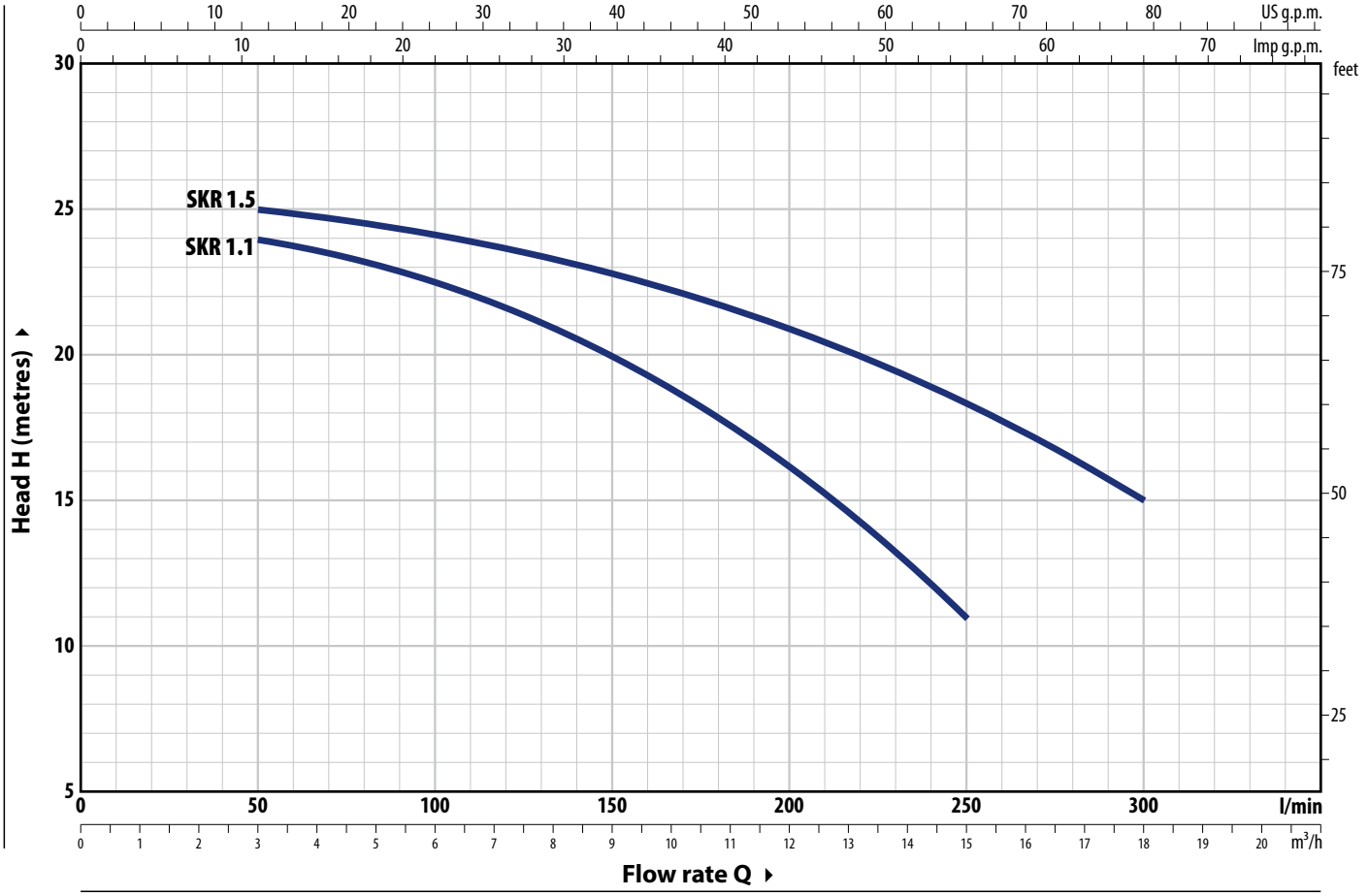
※ IPX5 protection

※ Other voltage and frequency 60 Hz



CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q							
Single-ph.	Three-ph.	kW	HP	1~	3~	m³/h	0	3	6	9	12	15	18
						l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**
SKRm 1.1	**SKR 1.1**	1.1	1.5	IE2	IE3	**H** metres	24.5	24	22.5	20	16.3	11	
SKRm 1.5	**SKR 1.5**	1.5	2				25.5	25	24	22.7	20.8	18.2	15

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

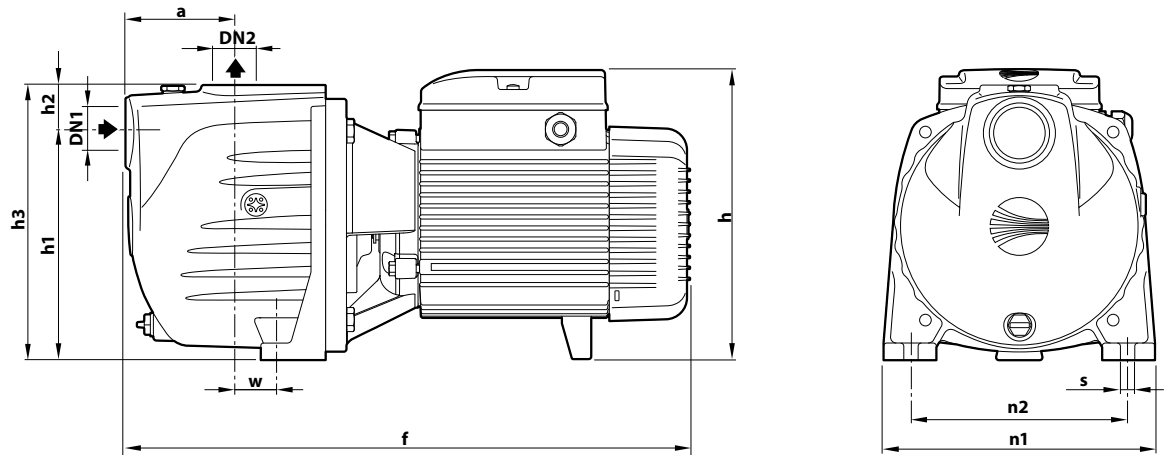


ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
SKRm 1.1	7.5 A
SKRm 1.5	10.3 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
SKR 1.1	5.0 A	2.9 A
SKR 1.5	6.7 A	3.9 A

DIMENSIONS AND WEIGHT



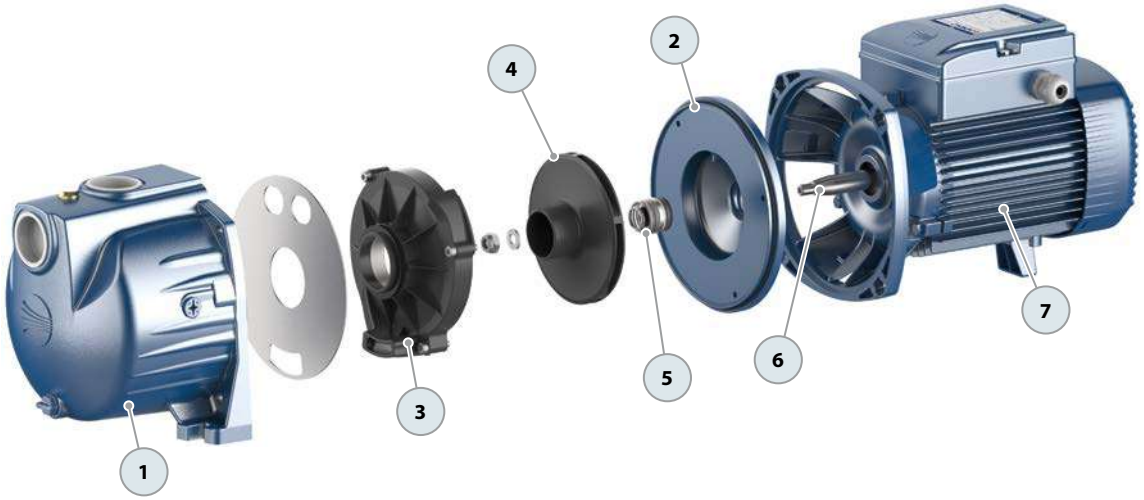
TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h	h1	h2	h3	n1	n2	w	s	1~	3~
SKRm 1.1	**SKR 1.1**	**1½"**	**1½"**	91	465	241	186	39	225	223	178	37.5	11	24.5	24.5
SKRm 1.5	**SKR 1.5**													25.8	25.8

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
SKRm 1.1	**SKR 1.1**	35
SKRm 1.5	**SKR 1.5**	35

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded ports
2	**Cover**	Cast iron with cataphoresis treatment
3	**Diffuser**	Noryl™
4	**Impeller**	Noryl™
5	**Mechanical seal**	Seal: **FN-18** · Shaft: Ø 18 mm · Materials: Graphite / Ceramic / NBR
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**SKRm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **SKR**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



PLURIJET Multi-stage self-priming pumps

Clean water

Domestic use

Civil use



※ VERSATILE
PLURIJET pumps are designed to handle any domestic water task with ease. With exceptional suction capacity, they can prime up to 9 metres deep, making them perfect for any household water requirement.

※ EFFICIENT
Get the job done efficiently with PLURIJET pumps. Their high hydraulic efficiency means they consume significantly less electricity compared to self-priming JET pumps, ensuring you have all the water you need without draining your power supply.

※ RELIABLE
Stainless steel components that you can count on for reliability and durability.

※ SILENT
Featuring multi-cellular hydraulics for maximum pressure with minimal power consumption, these pumps are significantly quieter, with noise levels between 48 and 54 dBA.

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

INSTALLATION AND USE
PLURIJET self-priming pumps are designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components. They are suitable for both domestic and civil applications, particularly for water distribution along pressure tanks to increase overall network pressure, rainwater recovery, and irrigation.

ELECTRIC MOTOR
Three-phase pumps are equipped with high-efficiency motors (IEC 60034-30-1).
Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

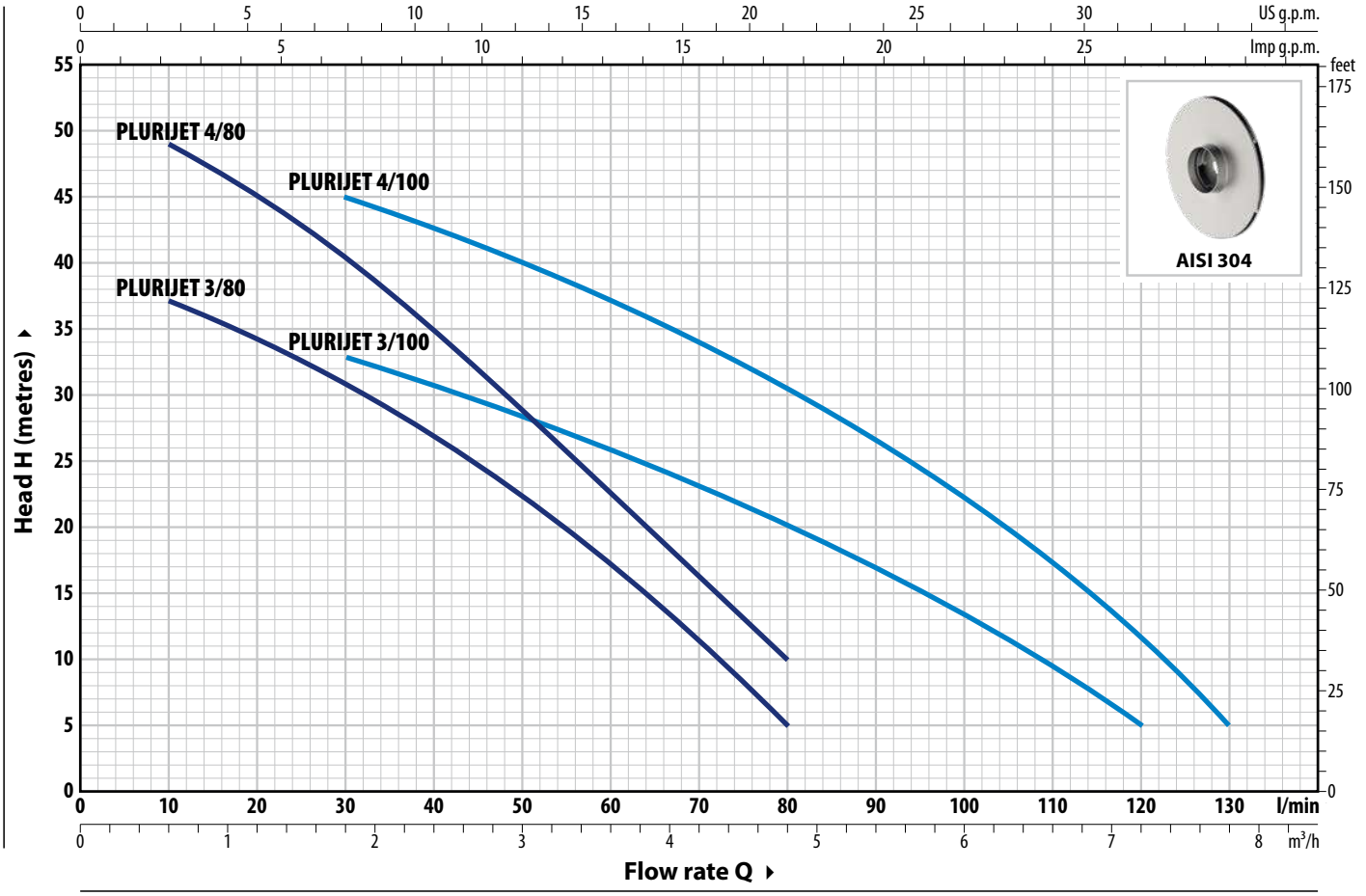
APPLICATION LIMITS
- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST
※ Technopolymer impeller (cost-effective version)
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS
- PLURIJET® Registered trademark No. 3974301
- Patent Pending No. 102023000019836

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

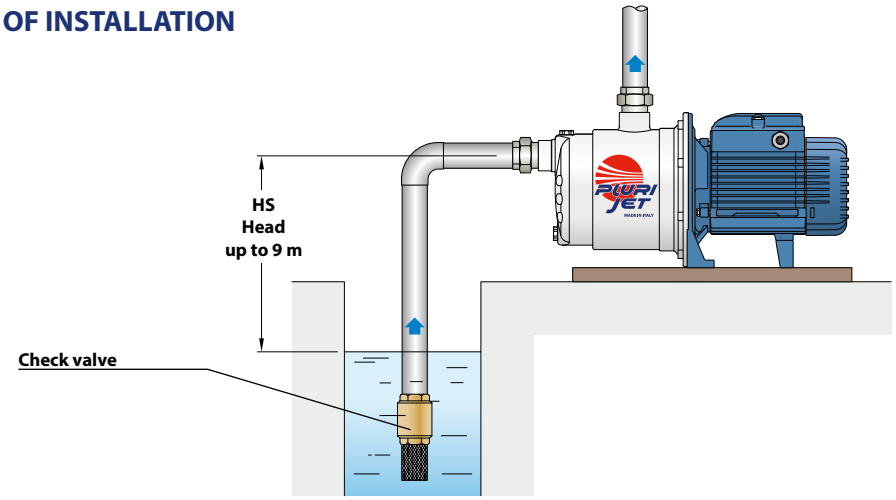


TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**
PLURIJETm 3/80	**PLURIJET 3/80**	0.48	0.65	IE2	IE3	H metres		40	38	37	34.5	31	27	22.5	17	11	5					
PLURIJETm 4/80	**PLURIJET 4/80**	0.55	0.75					52	50	49	44.5	40	34	28.5	22.5	16	10					
PLURIJETm 3/100	**PLURIJET 3/100**	0.55	0.75					38	37	36	34.5	33	31	28	26	23	20	17	13.5	10	5	
PLURIJETm 4/100	**PLURIJET 4/100**	0.75	1					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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

EXAMPLE OF INSTALLATION

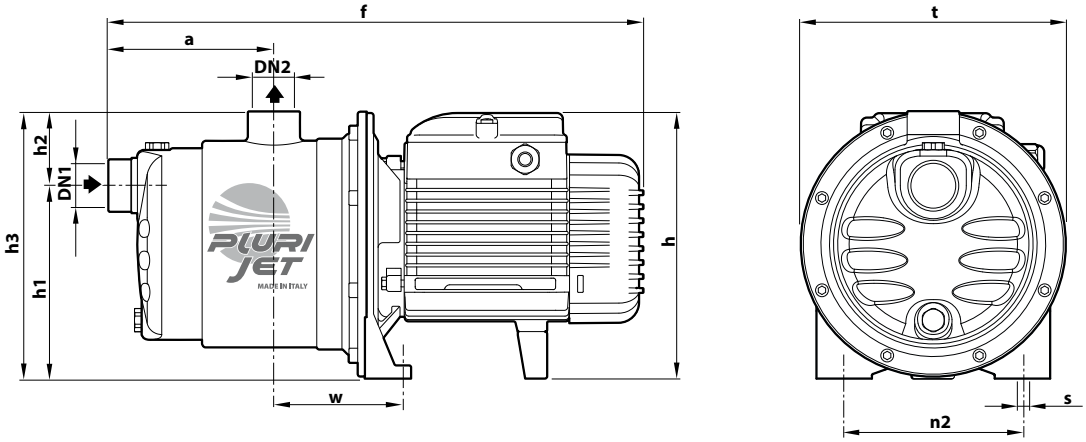


ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
PLURIJETm 3/80	3.2 A
PLURIJETm 4/80	3.9 A
PLURIJETm 3/100	4.1 A
PLURIJETm 4/100	5.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
PLURIJET 3/80	2.6 A	1.5 A
PLURIJET 4/80	3.5 A	2.0 A
PLURIJET 3/100	3.5 A	2.0 A
PLURIJET 4/100	4.0 A	2.3 A

DIMENSIONS AND WEIGHT



TYPE		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									9.1	8.4
PLURIJETm 3/100	**PLURIJET 3/100**			113	367									8.6	7.9
PLURIJETm 4/100	**PLURIJET 4/100**			138	410	202 *							10	11.6	11.6

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

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
PLURIJETm 3/80	**PLURIJET 3/80**	84
PLURIJETm 4/80	**PLURIJET 4/80**	72
PLURIJETm 3/100	**PLURIJET 3/100**	84
PLURIJETm 4/100	**PLURIJET 4/100**	72

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**Impellers**	Stainless steel **AISI 304**
4	**Diffusers**	Noryl™ complete with wear rings

5 Mechanical seal

Seal	Shaft	Materials
AR-13	Ø 13 mm	Ceramic / Graphite / NBR

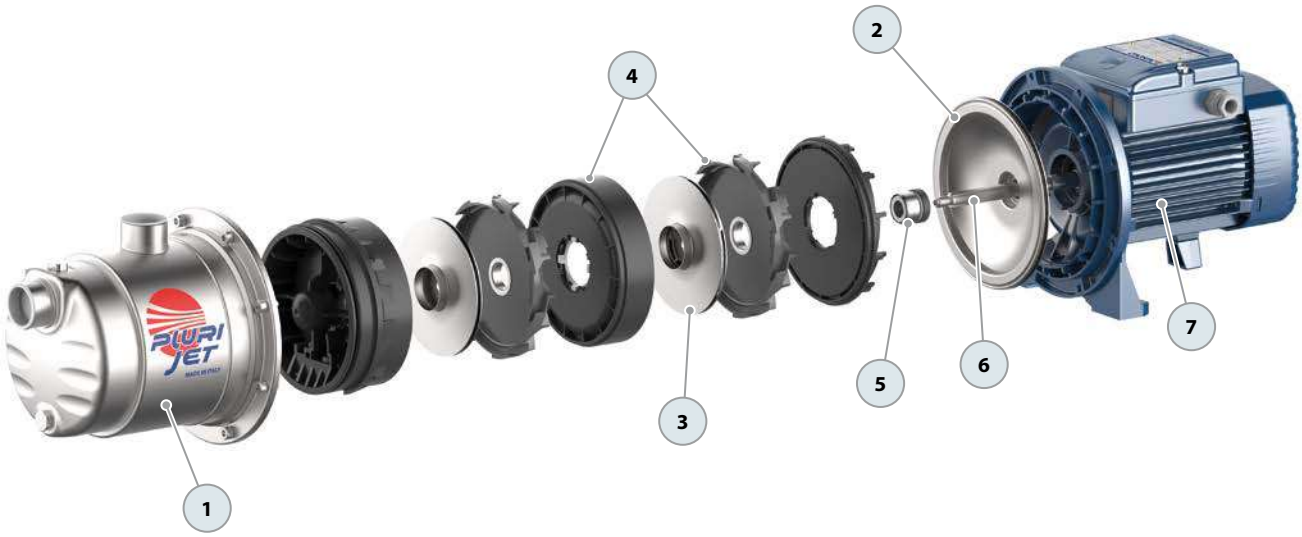
6	**Motor shaft**	Stainless steel **AISI 431**

7 Electric motor

PLURIJETm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
PLURIJET: three-phase 230/400 V - 50 Hz

※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
class **IE2** for single-phase models
class **IE3** for three-phase models

Continuous running duty **S1**



PLURIJET Multi-stage self-priming pumps

Clean water

Domestic use

Civil use



※ PLURIJET high-efficiency pumps with stainless steel impellers are as essential as water. Thanks to their reliability, quiet operation, and cost-effectiveness, they provide the best and most effective solution for your domestic needs.

※ VERSATILE

PLURIJET pumps are designed to handle any domestic water task with ease. With exceptional suction capacity, they can prime up to 9 metres deep, making them perfect for any household water requirement.

※ EFFICIENT

Get the job done efficiently with PLURIJET pumps. Their high hydraulic efficiency means they consume significantly less electricity compared to self-priming JET pumps, ensuring you have all the water you need without draining your power supply.

※ SILENT

Featuring multi-cellular hydraulics for maximum pressure with minimal power consumption, these pumps operate with significantly reduced noise levels, ensuring a quiet performance.

PERFORMANCE RANGE

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

INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and safe liquids that will not damage any of the pump's components. Highly reliable and quiet, they are suitable for domestic applications.
They work seamlessly with small to medium-sized pressure tanks, offering an ideal setup for all irrigation requirements.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST

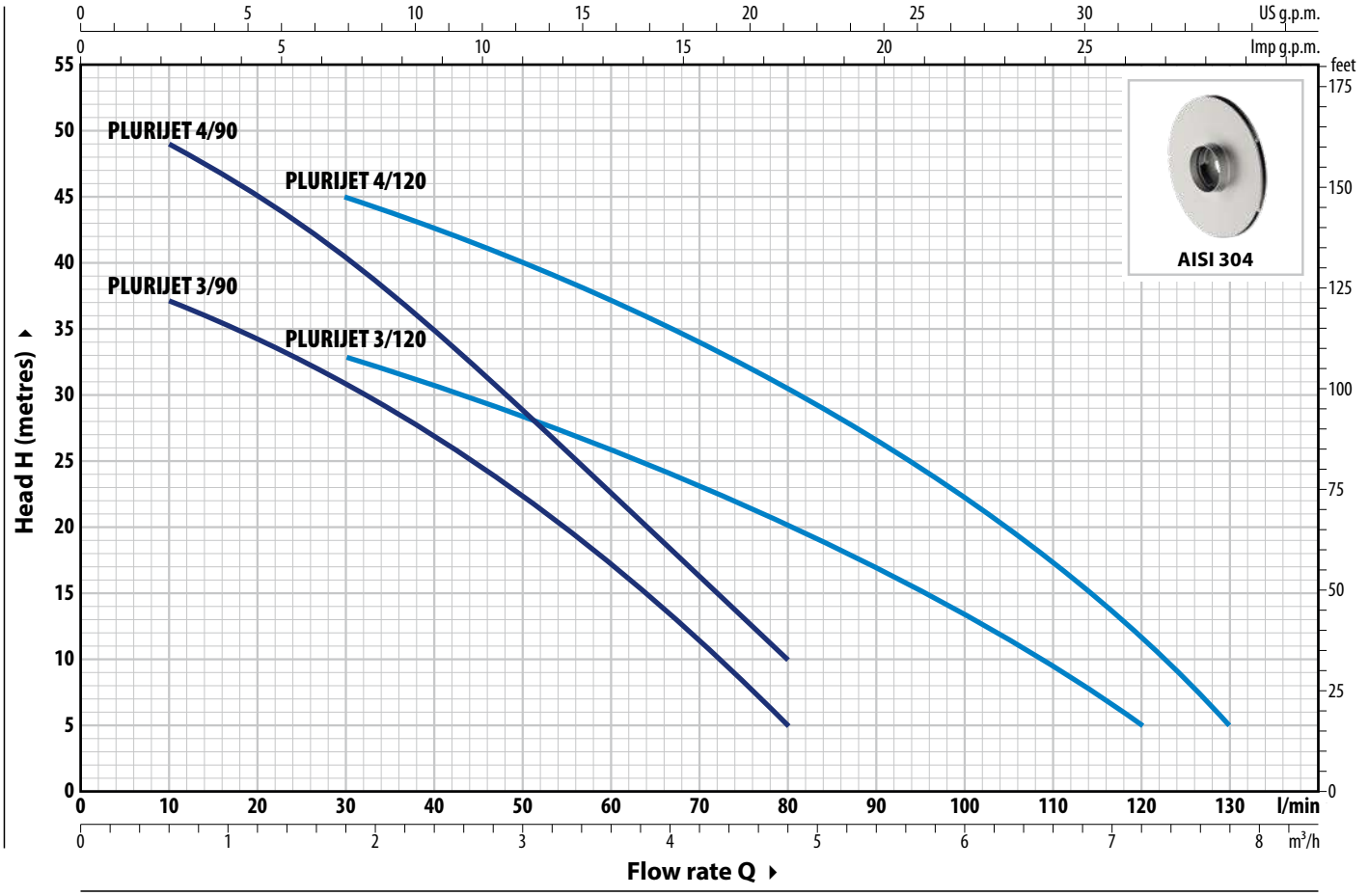
※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- **PLURIJET®**Registered trademark No. 3974301
- Patent Pending No. 102023000019836

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

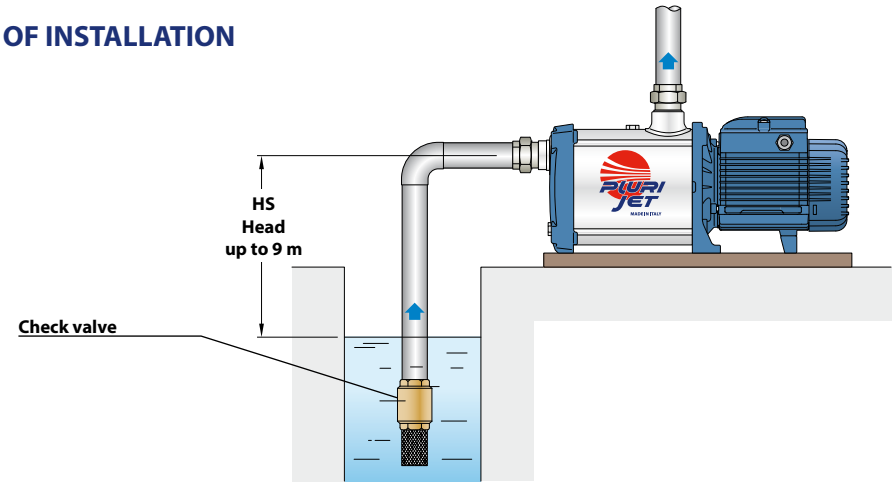


TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**
PLURIJETm 3/90	**PLURIJET 3/90**	0.48	0.65	**IE2**	**IE3**	**H** metres		40	38	37	34.5	31	27	22.5	17	11	5					
PLURIJETm 4/90	**PLURIJET 4/90**	0.55	0.75					52	50	49	44.5	40	34	28.5	22.5	16	10					
PLURIJETm 3/120	**PLURIJET 3/120**	0.55	0.75					38	37	36	34.5	33	31	28	26	23	20	17	13.5	10	5	
PLURIJETm 4/120	**PLURIJET 4/120**	0.75	1					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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

EXAMPLE OF INSTALLATION

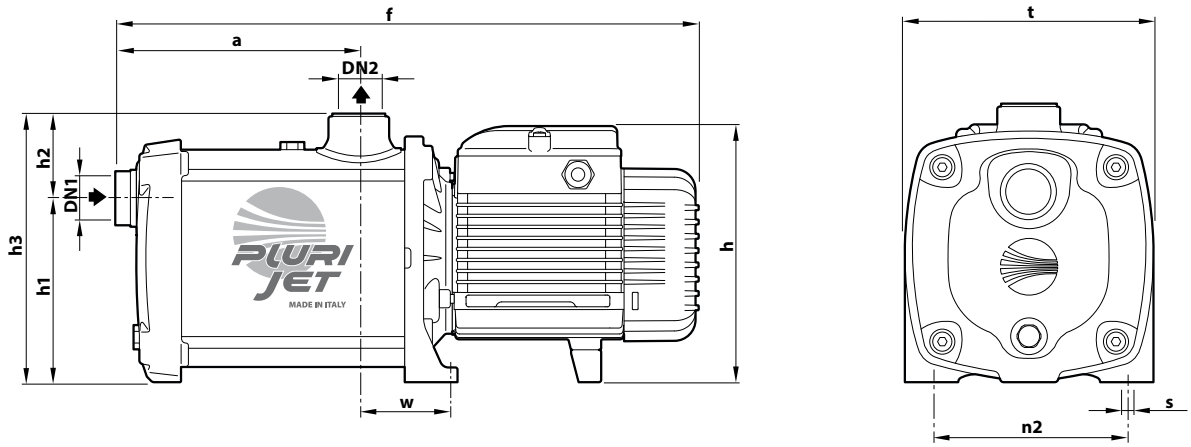


ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
PLURIJETm 3/90	3.2 A
PLURIJETm 4/90	3.9 A
PLURIJETm 3/120	3.9 A
PLURIJETm 4/120	5.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
PLURIJET 3/90	2.2 A	1.3 A
PLURIJET 4/90	2.9 A	1.7 A
PLURIJET 3/120	2.9 A	1.7 A
PLURIJET 4/120	4.0 A	2.3 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
PLURIJETm 3/90	**PLURIJET 3/90**	**1"**	**1"**	132	358	171	122	56	178	160	125	56.5	9	8.4	8.4
PLURIJETm 4/90	**PLURIJET 4/90**			157	383									9.7	9.0
PLURIJETm 3/120	**PLURIJET 3/120**			132	358									9.2	8.5
PLURIJETm 4/120	**PLURIJET 4/120**			157	402	189								12.2	12.2

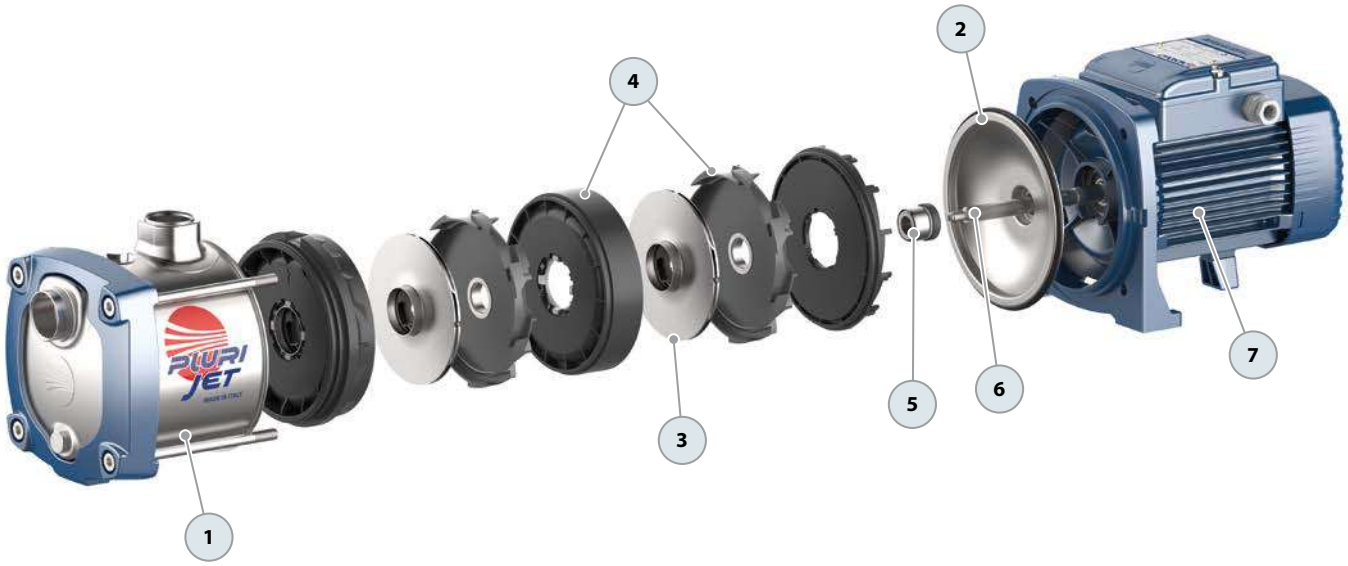
(*) h=221 mm for single-phase 110 V versions

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**Impellers**	Stainless steel **AISI 304**
4	**Diffusers**	Noryl™ complete with wear rings
5	**Mechanical seal**	

Seal	Shaft	Materials
AR-13	Ø 13 mm	Ceramic / Graphite / NBR

6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**PLURIJETm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **PLURIJET**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



PLURIJET Multi-stage self-priming pumps

Clean water

Domestic use

Civil use



※ PLURIJET high-efficiency pumps with stainless steel impellers are as essential as water. Thanks to their reliability, quiet operation, and cost-effectiveness, they provide the best and most effective solution for your domestic needs.

PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **97 m**

INSTALLATION AND USE

PLURIJET self-priming pumps are designed to draw water and liquids that contain air, and clean water and liquids that will not damage the pump's components. Reliable and energy-efficient, they are suitable for both domestic and civil applications, particularly for water distribution along pressure tanks to increase overall network pressure, rainwater recovery, and irrigation.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

- Manometric suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **10 bar**

AVAILABLE UPON REQUEST

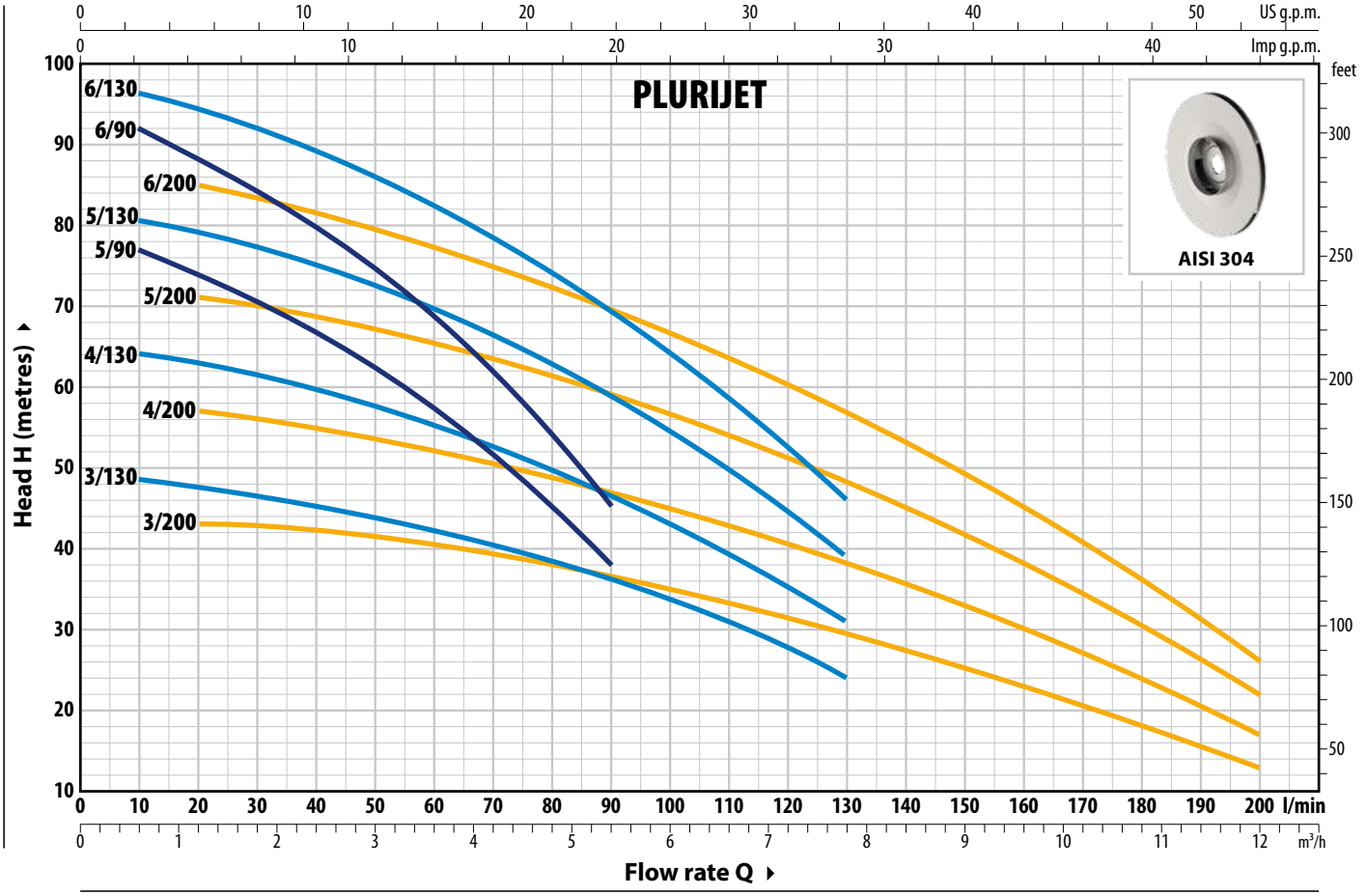
※ Technopolymer impeller (cost-effective version)
※ Different voltage requirements 60 Hz frequency
※ IPX5 protection
※ Certified pumps WRAS APPROVED PRODUCT

PATENTS - TRADE MARKS - MODELS

- PLURIJET® Registered trademark No. 3974301
- Patent Pending No. 102023000019836

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

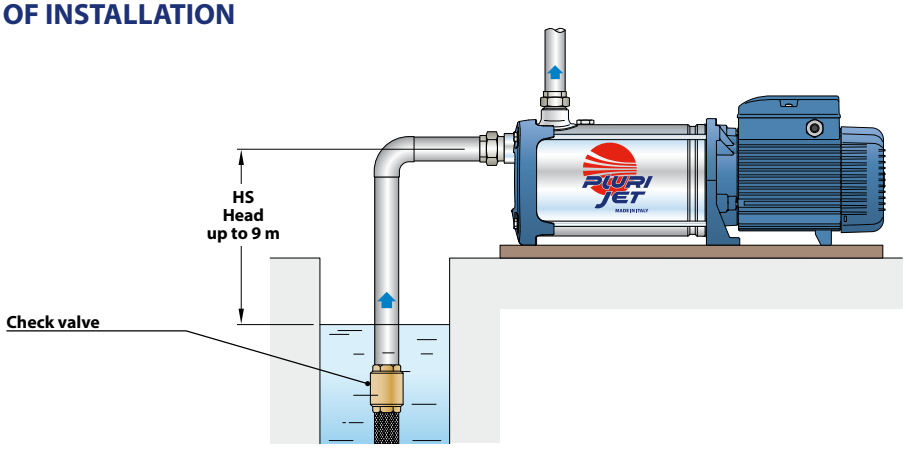


TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	5.4	6.0	7.8	8.4	9.6	10.8	12.0
Single-phase	Three-phase	kW	HP	1~	3~		l/min	0	5	10	20	40	60	90	100	130	140	160	180	200
PLURIJETm 5/90	PLURIJET 5/90	1.1	1.5	IE2	IE3	H metres		80	78	77	74	67	57	38						
PLURIJETm 6/90	PLURIJET 6/90	1.5	2					96	94	92	88	80	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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

EXAMPLE OF INSTALLATION



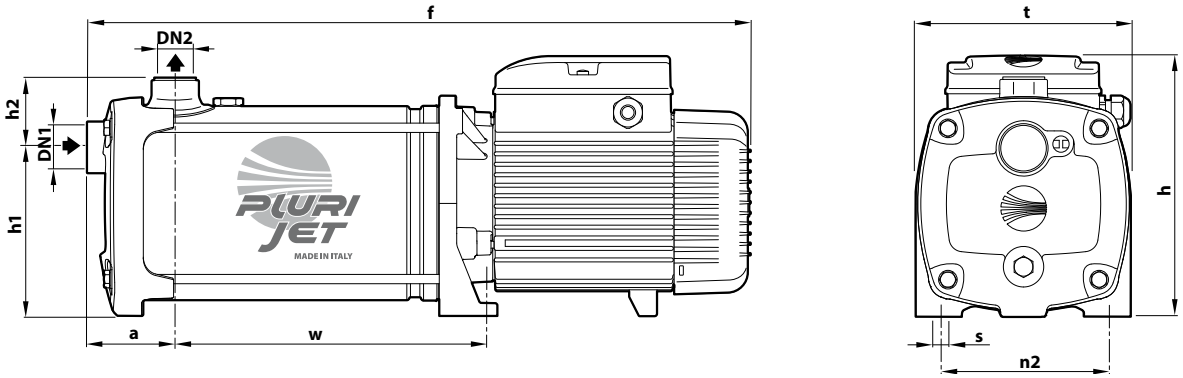
PLURIJET 90-130-200 Technical data

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
PLURIJETm 5/90	9.3 A
PLURIJETm 6/90	11.0 A
PLURIJETm 3/130	8.5 A
PLURIJETm 4/130	10.3 A
PLURIJETm 5/130	12.5 A
PLURIJETm 3/200	8.7 A
PLURIJETm 4/200	10.5 A
PLURIJETm 5/200	12.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
PLURIJET 5/90	6.1 A	3.5 A
PLURIJET 6/90	7.3 A	4.2 A
PLURIJET 3/130	5.5 A	3.2 A
PLURIJET 4/130	6.9 A	4.0 A
PLURIJET 5/130	9.0 A	5.2 A
PLURIJET 6/130	9.9 A	5.7 A
PLURIJET 3/200	5.9 A	3.4 A
PLURIJET 4/200	7.3 A	4.2 A
PLURIJET 5/200	9.3 A	5.4 A
PLURIJET 6/200	10.2 A	5.9 A

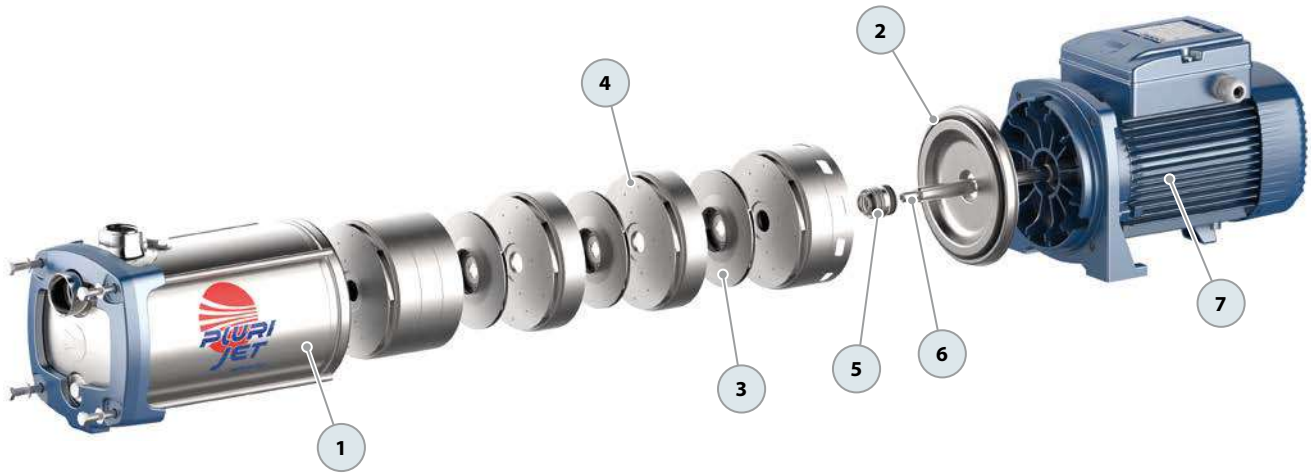
DIMENSIONS AND WEIGHT



TYPE		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**	**1¼"**	**1"**	75	549	228	145	59	185	145	243	11	20.8	20.8
PLURIJETm 6/90	**PLURIJET 6/90**				573						269		22.8	22.8
PLURIJETm 3/130	**PLURIJET 3/130**				497						191		18.8	18.8
PLURIJETm 4/130	**PLURIJET 4/130**				523						217		20.8	20.8
PLURIJETm 5/130	**PLURIJET 5/130**				569						243		24.2	24.2
–	**PLURIJET 6/130**				595						269		–	25.2
PLURIJETm 3/200	**PLURIJET 3/200**				497						191		18.8	18.8
PLURIJETm 4/200	**PLURIJET 4/200**				523						217		20.7	20.7
PLURIJETm 5/200	**PLURIJET 5/200**				569						243		24.2	24.2
–	**PLURIJET 6/200**				595						269		–	25.2

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**Impellers**	Stainless steel **AISI 304**
4	**Diffusers**	Stainless steel **AISI 304**
5	**Mechanical seal**	Seal: **FN-18** · Shaft: Ø 18 mm · Materials: Graphite / Ceramic / NBR
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**PLURIJETm**: single-phase 230 V - 50Hz with winding integrated thermal motor protection **PLURIJET**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



NGA Cast-iron centrifugal pumps with open impeller

Domestic use

Agricultural use

Industrial use



PERFORMANCE RANGE

- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **20.5 m**

INSTALLATION AND USE

Designed to transfer liquids that will not damage the pump's components, NGAS pumps feature an open impeller design.

This allows them to efficiently handle impurity-laden fluids without clogging, making them ideal for various applications including transfers from channels, rivers, tanks, basins, and more.

NGAs pumps are particularly suitable for pumping non-entirely clean liquids, facilitating the movement of solid particles up to **20 mm** in size.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** up and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure:
  - **6 bar** for NGA1 and NGA2
  - **10 bar** for NGA3
- Passing solid in suspension up to:
  - **Ø 12 mm** for NGA1 and NGA2
  - **Ø 20 mm** for NGA3

AVAILABLE UPON REQUEST

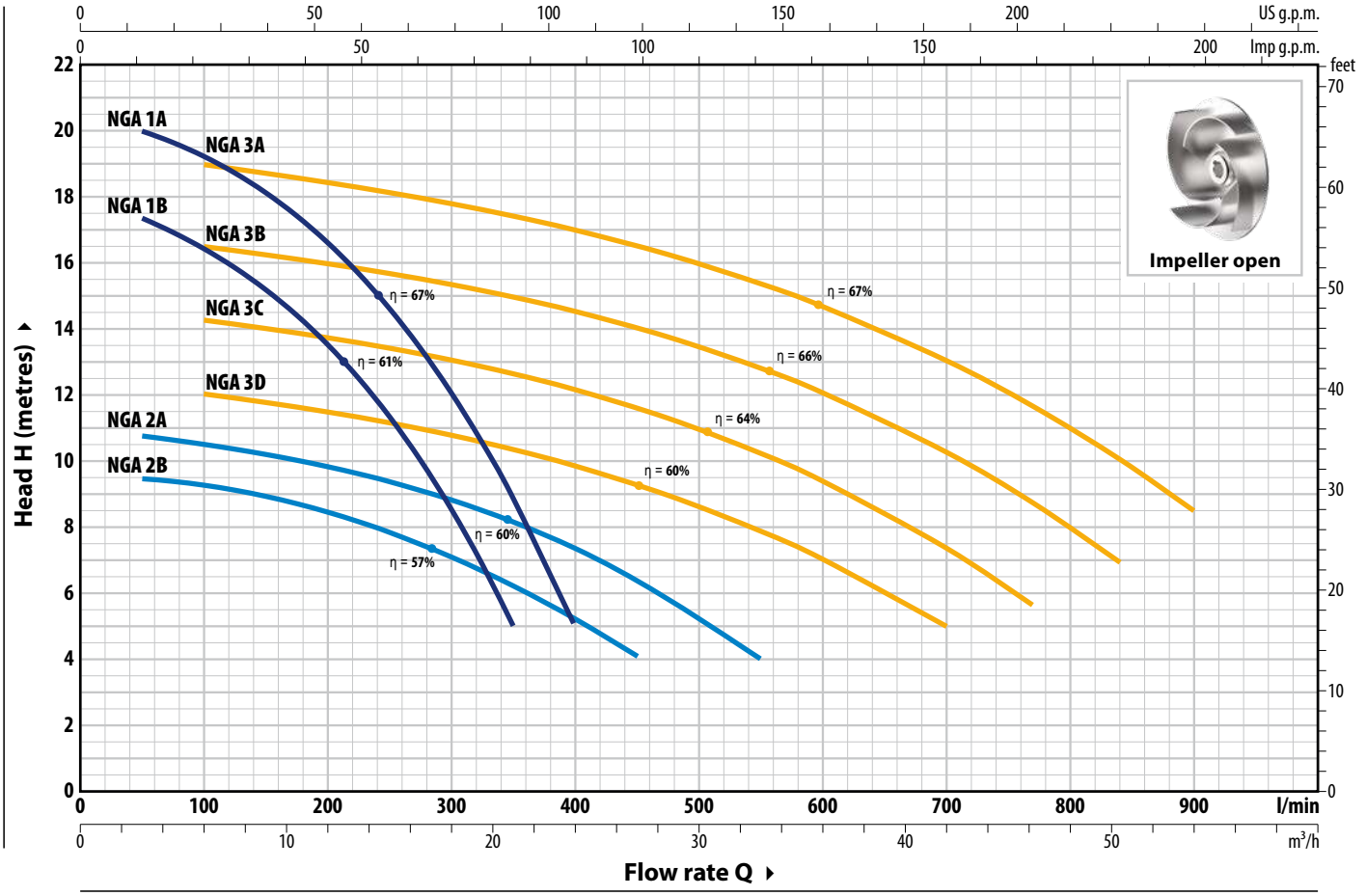
※ Mechanical seal options available
※ Pump body with NPT threaded ports ANSI B 1.20.1
※ On request up to **110 °C**
※ **IP X5** protection for **NGA 3**
※ Different voltage requirements 60 Hz frequency

※ Supply of ISO 228/1 flanges for suction and delivery ports in AISI 304 stainless steel



CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	3	6	9	12	15	18	21	24
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
NGAm 1B	NGA 1B	0.55	0.75	IE2	IE3	H metres		18	17.4	16.4	15.2	13.5	11.3	8.7	5	
NGAm 1A	NGA 1A	0.75	1					20.5	20	19.3	18	16.6	14.7	12	9	5

TYPE		POWER (P2)				Q	m³/h	0	3	6	12	18	24	27	33	42	46	51	54
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**50**	**100**	**200**	**300**	**400**	**450**	**550**	**700**	**770**	**840**	**900**
NGAm 2B	NGA 2B	0.55	0.75	IE2	IE3	H metres		9.5	9.4	9.3	8.4	7	5.2	4					
NGAm 2A	NGA 2A	0.75	1					11	10.8	10.5	9.8	8.8	7.4	6.4	4				
NGAm 3D	NGA 3D	1.1	1.5					12.5	–	12	11.5	10.8	9.8	9.3	7.8	5			
NGAm 3C	NGA 3C	1.5	2					14.8	–	14.4	13.8	13.1	12.2	11.7	10.3	7.4	5.7		
NGAm 3B	NGA 3B	1.8	2.5					17	–	16.5	16	15.3	14.5	14	12.8	10.3	8.8	7	
NGAm 3A	NGA 3A	2.2	3					19.5	–	19	18.4	17.8	17	16.5	15.4	13	11.5	10	8.5

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

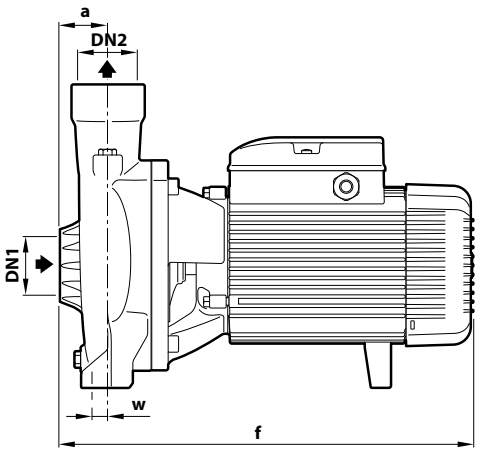
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

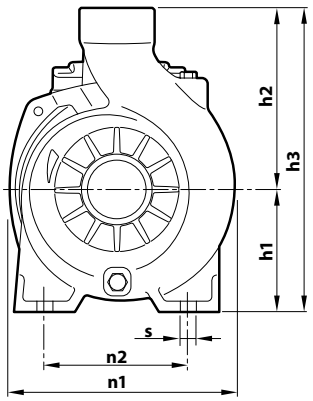
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
NGAm 1B	5.5 A
NGAm 1A	6.0 A
NGAm 2B	5.0 A
NGAm 2A	5.7 A
NGAm 3D	7.5 A
NGAm 3C	9.5 A
NGAm 3B	10.5 A
NGAm 3A	12.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
NGA 1B	3.8 A	2.2 A
NGA 1A	4.2 A	2.4 A
NGA 2B	3.5 A	2.0 A
NGA 2A	4.0 A	2.3 A
NGA 3D	5.0 A	2.9 A
NGA 3C	6.1 A	3.5 A
NGA 3B	7.8 A	4.5 A
NGA 3A	8.3 A	4.8 A

DIMENSIONS AND WEIGHT



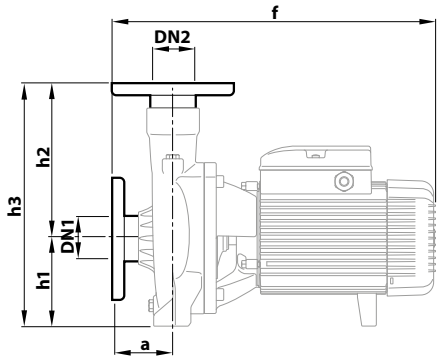


WITH THREADED PORTS

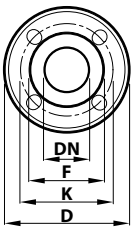
TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3	n1	n2	w	s	1~	3~
NGAm 1B	**NGA 1B**	**1½"**	**1½"**	40	299	92	135	227	190	160	6	11	12.6	12.6
NGAm 1A	**NGA 1A**												12.7	12.6
NGAm 2B	**NGA 2B**			32									12.7	12.6
NGAm 2A	**NGA 2A**												12.7	12.6
NGAm 3D	**NGA 3D**	**2"**	**2"**	48	387	120	178	298	217	140	18	11.5	22.0	21.2
NGAm 3C	**NGA 3C**												22.9	22.9
NGAm 3B	**NGA 3B**				407								25.4	25.5
NGAm 3A	**NGA 3A**												25.5	25.5

WITH FLANGED PORTS

TYPE		PORTS		DIMENSIONS mm				
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3
NGAm 1B	**NGA 1B**	**40**	**40**	60	334	92	156	248
NGAm 1A	**NGA 1A**							
NGAm 2B	**NGA 2B**			52	342			
NGAm 2A	**NGA 2A**							
NGAm 3D	**NGA 3D**	**50**	**50**	70	408	120	200	320
NGAm 3C	**NGA 3C**							
NGAm 3B	**NGA 3B**				428			
NGAm 3A	**NGA 3A**							



FLANGE	D	K	F	HOLES	
DN	mm	mm	mm	N°	Ø (mm)
40	150	110	78	4	18
50	165	125	99	4	18



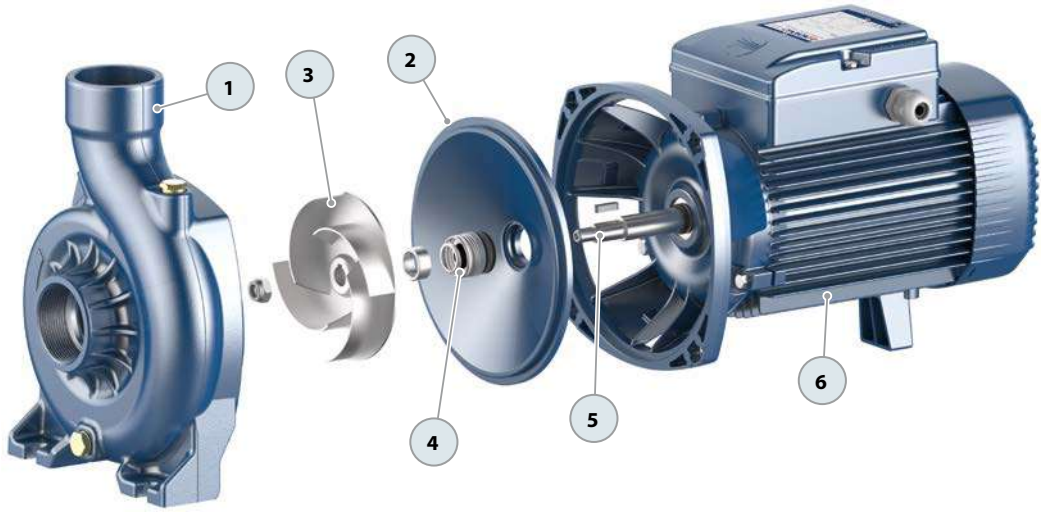
MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron JL 250 with cataphoresis treatment with ISO 228/1 threaded ports
2	**Cover**	Cast iron JL 200 for NGA3 **AISI 304** stainless steel for NGA1 and NGA2
3	**Impeller**	Open impeller in **AISI 316** stainless steel (from January 2024)

4 Mechanical seal

Water pump	Seal	Shaft	Materials
NGA1 NGA2	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR
NGA3	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**NGAm**: single-phase 230 V - 50Hz with winding integrated thermal motor protection **NGA**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



NGA-PRO

Stainless steel pumps with open impeller

Civil use

Agricultural use

Industrial use

※ **Pump entirely made of AISI316 stainless steel**



PERFORMANCE RANGE

- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **20.5 m**

INSTALLATION AND USE

Designed to transfer liquids that will not damage the pump's components, NGA-PRO pumps feature an open impeller design. This allows them to efficiently handle impurity-laden fluids without clogging, making them ideal for various applications including transfers from channels, rivers, tanks, basins, and more.

All components in contact with pumped liquids are constructed from **AISI 316** stainless steel.

NGA-PRO pumps are particularly suitable for pumping non-entirely clean liquids, facilitating the movement of solid particles up to **20 mm** in size.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure:
  - **6 bar** for NGA1-PRO and NGA2-PRO
  - **10 bar** for NGA3-PRO
- Passing solid in suspension up to:
  - **Ø 12 mm** for NGA1-PRO and NGA2-PRO
  - **Ø 20 mm** for NGA3-PRO

AVAILABLE UPON REQUEST

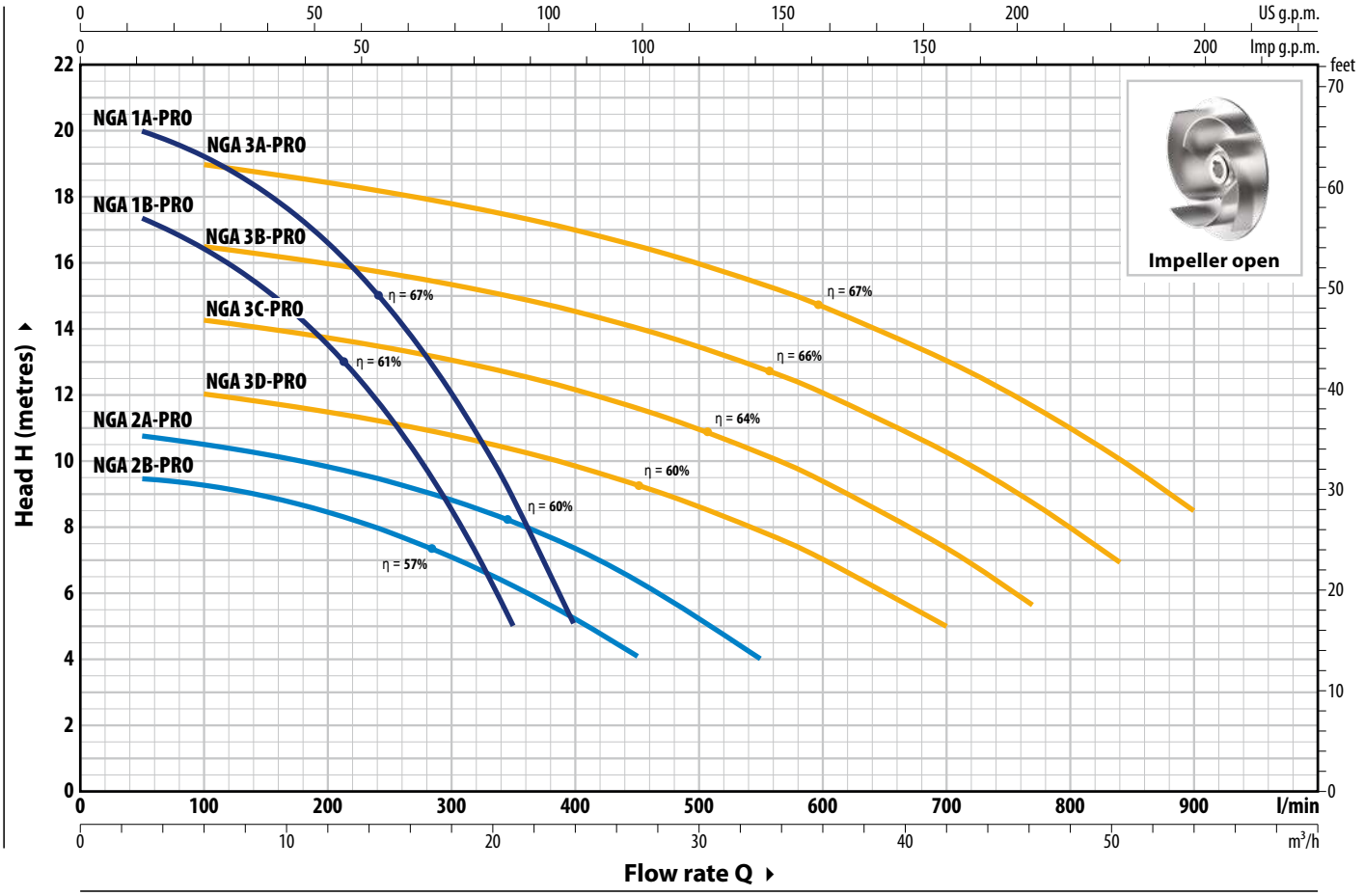
※ Mechanical seal options available
※ Standardised mechanical seal with anti-rotation (NGA3-PRO)
※ Pump body with NPT threaded ports ANSI B 1.20.1
※ On request up to **110 °C**
※ **IP X5** protection for **NGA 3-PRO**
※ Different voltage requirements 60 Hz frequency

※ ISO 228/1 standard flanges for suction and discharge openings, made of AISI 304 stainless steel



CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q m³/h	0	3	6	9	12	15	18	21	24
Single-phase	Three-phase	kW	HP	1~	3~	Q l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
NGAm 1B - PRO	NGA 1B - PRO	0.55	0.75	IE2	IE3	H metres	18	17.4	16.4	15.2	13.5	11.3	8.7	5	
NGAm 1A - PRO	NGA 1A - PRO	0.75	1				20.5	20	19.3	18.1	16.6	14.7	12.1	9	5

TYPE		POWER (P2)				Q m³/h	0	3	6	12	18	24	27	33	42	46	51	54
Single-phase	Three-phase	kW	HP	1~	3~	Q l/min	**0**	**50**	**100**	**200**	**300**	**400**	**450**	**550**	**700**	**770**	**840**	**900**
NGAm 2B - PRO	NGA 2B - PRO	0.55	0.75	IE2	IE3	H metres	9.5	9.4	9.3	8.4	7	5.2	4					
NGAm 2A - PRO	NGA 2A - PRO	0.75	1				11	10.8	10.5	9.8	8.8	7.4	6.4	4				
NGAm 3D - PRO	NGA 3D - PRO	1.1	1.5				12.5	–	12	11.5	10.8	9.8	9.3	7.8	5			
NGAm 3C - PRO	NGA 3C - PRO	1.5	2				14.8	–	14.4	13.8	13.1	12.2	11.7	10.3	7.4	5.7		
NGAm 3B - PRO	NGA 3B - PRO	1.8	2.5				17	–	16.5	16	15.3	14.5	14	12.8	10.3	8.8	7	
NGAm 3A - PRO	NGA 3A - PRO	2.2	3				19.5	–	19	18.4	17.8	17	16.5	15.4	13	11.5	10	8.5

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

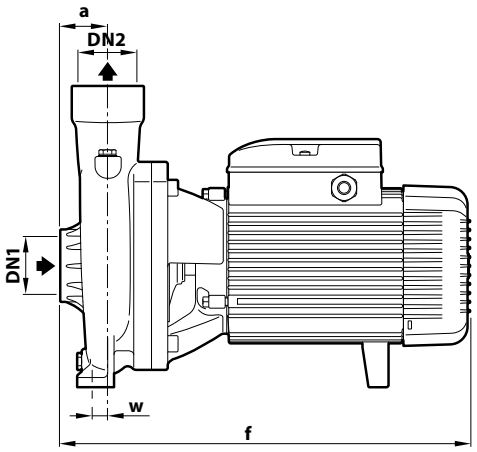
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

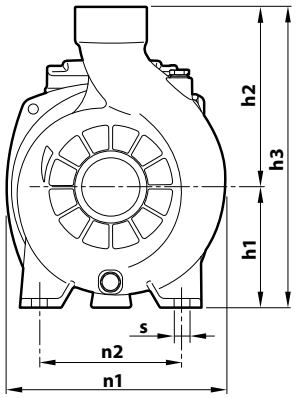
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
NGAm 1B - PRO	5.5 A
NGAm 1A - PRO	6.0 A
NGAm 2B - PRO	5.0 A
NGAm 2A - PRO	5.7 A
NGAm 3D - PRO	7.5 A
NGAm 3C - PRO	9.5 A
NGAm 3B - PRO	10.5 A
NGAm 3A - PRO	12.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
NGA 1B - PRO	3.8 A	2.2 A
NGA 1A - PRO	4.2 A	2.4 A
NGA 2B - PRO	3.5 A	2.0 A
NGA 2A - PRO	4.0 A	2.3 A
NGA 3D - PRO	5.0 A	2.9 A
NGA 3C - PRO	6.1 A	3.5 A
NGA 3B - PRO	7.8 A	4.5 A
NGA 3A - PRO	8.3 A	4.8 A

DIMENSIONS AND WEIGHT



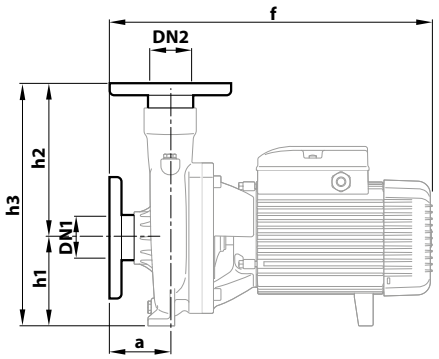


※ WITH THREADED PORTS

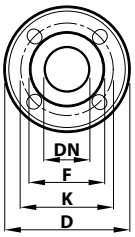
TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3	n1	n2	w	s	1~	3~
NGAm 1B - PRO	**NGA 1B - PRO**	**1½"**	**1½"**	40	299	92	135	227	190	160	6	11	12.7	12.7
NGAm 1A - PRO	**NGA 1A - PRO**												12.7	12.7
NGAm 2B - PRO	**NGA 2B - PRO**			32									12.7	12.7
NGAm 2A - PRO	**NGA 2A - PRO**												12.7	12.7
NGAm 3D - PRO	**NGA 3D - PRO**	**2"**	**2"**	48	387	120	178	298	217	140	18	11.5	22.0	21.2
NGAm 3C - PRO	**NGA 3C - PRO**												22.9	22.9
NGAm 3B - PRO	**NGA 3B - PRO**				407								25.4	25.5
NGAm 3A - PRO	**NGA 3A - PRO**												25.5	25.5

※ WITH FLANGED PORTS

TYPE		PORTS		DIMENSIONS mm				
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3
NGAm 1B - PRO	**NGA 1B - PRO**	**40**	**40**	60	334	92	156	248
NGAm 1A - PRO	**NGA 1A - PRO**							
NGAm 2B - PRO	**NGA 2B - PRO**			52	342			
NGAm 2A - PRO	**NGA 2A - PRO**							
NGAm 3D - PRO	**NGA 3D - PRO**	**50**	**50**	70	408	120	200	320
NGAm 3C - PRO	**NGA 3C - PRO**							
NGAm 3B - PRO	**NGA 3B - PRO**				428			
NGAm 3A - PRO	**NGA 3A - PRO**							



FLANGE	D	K	F	HOLES	
DN	mm	mm	mm	N°	Ø (mm)
40	150	110	78	4	18
50	165	125	99	4	18



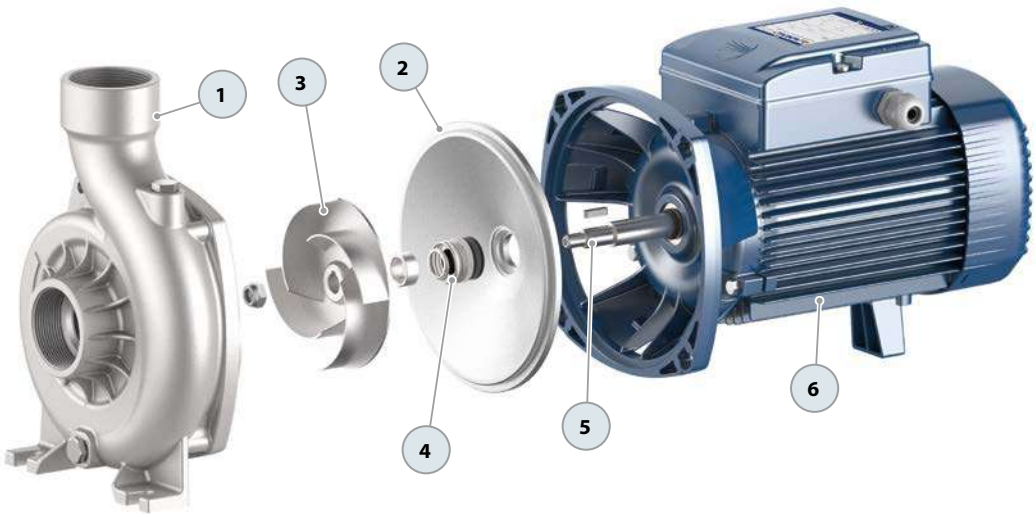
MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 316** with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 316**
3	**Impeller**	Open impeller in **AISI 316** stainless steel (from January 2024)

4 Mechanical seal

Water pump	Seal	Shaft	Materials
NGA1-PRO NGA2-PRO	**AR-14S**	Ø 14 mm	Ceramic / Graphite / Viton
NGA3-PRO	**FN-18 V6**	Ø 18 mm	Graphite / Ceramic / Viton

5	**Motor shaft**	Stainless steel **AISI 316L**
6	**Electric motor**	**NGAm-PRO**: single-phase 230 V - 50Hz with winding integrated thermal motor protection **NGA-PRO**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



HF Centrifugal pumps

Medium range

Clean water

Agricultural use

Industrial use



PERFORMANCE RANGE

- Flow rate up to **700 l/min** (42 m³/h)
- Head up to **39 m**

INSTALLATION AND USE

Designed for civil and agricultural use.

Their high-efficiency levels and capability for continuous operation make them an ideal choice for furrow and sprinkler irrigation, in addition to drawing water from lakes, rivers, and wells. They are also suitable for a wide range of industrial applications that require substantial flow rates at medium-low head pressures.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

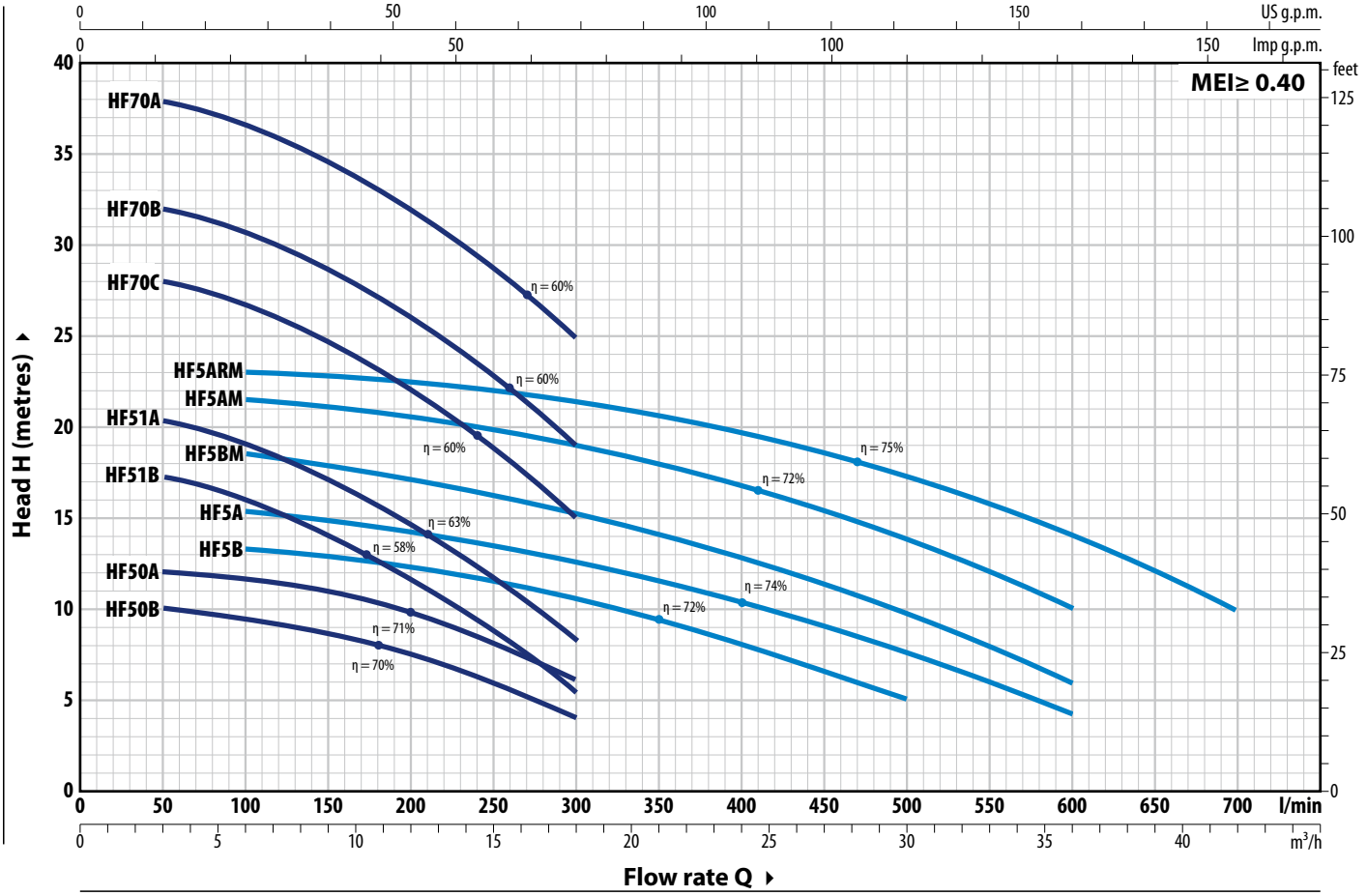
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure:
  - **6 bar** for HF 5-50-51
  - **10 bar** for HF 5M-70

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ IP X5 protection for HF 5M-70

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	3	6	9	12	15	18	21	24	30	36	42
Single-ph.	Three-ph.	kW	HP	1~	3~		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**500**	**600**	**700**
HFm 50B	**HF 50B**	0.37	0.50					10	10	9.5	8.5	7.5	6	4					
HFm 50A	**HF 50A**	0.55	0.75					12	12	11.5	11	9.6	8	6					
HFm 51B	**HF 51B**	0.55	0.75					18.2	17.2	16	14	11.5	9	5.4					
HFm 51A	**HF 51A**	0.75	1					21.2	20.2	19	17	14.5	11.6	8.4					
HFm 70C	**HF 70C**	1.1	1.5					29	28	26.5	24.5	22	18.5	15					
HFm 70B	**HF 70B**	1.5	2					33	32	30.5	28.5	26	22.5	19					
–	**HF 70A**	2.2	3	**IE2**	**IE3**	**H**	metres	39	38	36.5	34.5	32	28.5	25					
HFm 5B	**HF 5B**	0.75	1					13.7	–	13.2	13	12.5	11.6	10.5	9.2	8	5		
HFm 5A	**HF 5A**	0.90	1.25					16	–	15.4	15	14.2	13.5	12.6	11.5	10.4	7.6	4.3	
HFm 5BM	**HF 5BM**	1.1	1.5					19	–	18.5	18	17	16	15.2	14	12.8	9.7	6	
HFm 5AM	**HF 5AM**	1.5	2					22	–	21.5	21	20.5	19.8	19	18	16.8	13.8	10	
HFm 5ARM	**HF 5ARM**	2.2	3					23.5	–	23	22.6	22.2	21.7	21	20.2	19.3	17	13.9	10

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

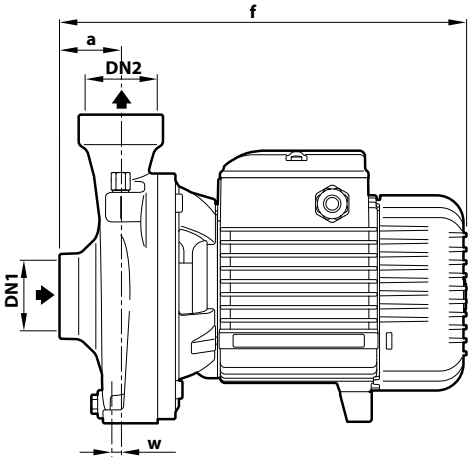
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

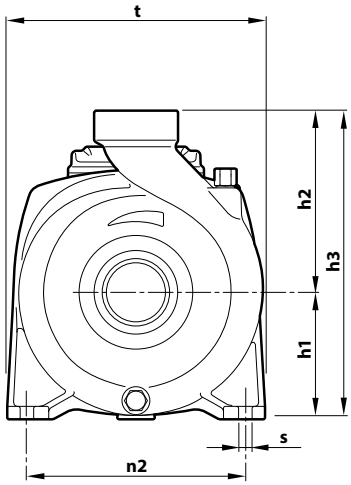
ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
HFm 50B	2.8 A
HFm 50A	3.8 A
HFm 51B	4.7 A
HFm 51A	5.6 A
HFm 70C	8.0 A
HFm 70B	10.0 A
HFm 5B	5.0 A
HFm 5A	6.0 A
HFm 5BM	7.7 A
HFm 5AM	10.1 A
HFm 5ARM	11.5 A

TYPE	VOLTAGE	
Three-ph.	**230 V - Δ**	**400 V - Y**
HF 50B	2.1 A	1.2 A
HF 50A	2.9 A	1.7 A
HF 51B	3.6 A	2.1 A
HF 51A	4.3 A	2.5 A
HF 70C	6.1 A	3.5 A
HF 70B	7.4 A	4.3 A
HF 70A	9.5 A	5.5 A
HF 5B	3.6 A	2.1 A
HF 5A	4.0 A	2.3 A
HF 5BM	5.7 A	3.3 A
HF 5AM	7.1 A	4.1 A
HF 5ARM	8.0 A	4.6 A

DIMENSIONS AND WEIGHT





TYPE		PORTS		DIMENSIONS mm									kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h1	h2	h3	t	n2	w	s	1~	3~
HFm 50B	**HF 50B**	**1½"**	**1½"**	42	270	82	118	200	166	135	-8	10	8.1	8.1
HFm 50A	**HF 50A**												8.9	8.2
HFm 51B	**HF 51B**			45	303	92	133	225	190	160	2		12.9	12.7
HFm 51A	**HF 51A**												13.2	13.2
HFm 70C	**HF 70C**			48.5	373	114	155	269	216	171	12	12	20.0	20.0
HFm 70B	**HF 70B**												21.5	21.5
–	**HF 70A**				393								–	24.3
HFm 5B	**HF 5B**	**2"**	**2"**	43	316	97	141	238	192	160	-68	10	14.1	14.1
HFm 5A	**HF 5A**												15.1	14.1
HFm 5BM	**HF 5BM**			59	386	110	150	260	208		12.5	11	20.3	20.3
HFm 5AM	**HF 5AM**												21.8	21.8
HFm 5ARM	**HF 5ARM**				406								24.6	24.6

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304** (cast iron for HF 5M-70)
3	**Impeller**	Stainless steel **AISI 304** (HF50 Start of production 06.2024) (HF51 Start of production 06.2024) (HF70 Start of production 04.2024) (HF5ARM Start of production 06.2024)
4	**Mechanical seal**	

Water pump	Seal	Shaft	Materials
HF 50	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR
HF 5-51	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR
HF 5M-70	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**HFm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **HF**: three-phase 230/400 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



HF Centrifugal pumps

High flow rates

Clean water

Agricultural use

Industrial use



PERFORMANCE RANGE

- Flow rate up to **2400 l/min** (144 m³/h)
- Head up to **24.5 m**

INSTALLATION AND USE

Designed for civil and agricultural use.

Their high-efficiency levels and capability for continuous operation make them an ideal choice for furrow and sprinkler irrigation, in addition to drawing water from lakes, rivers, and wells. They are also suitable for a wide range of industrial applications that require substantial flow rates at medium-low head pressures.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure:
  - **6 bar** for HF 4
  - **10 bar** for HF 6-8-20-30

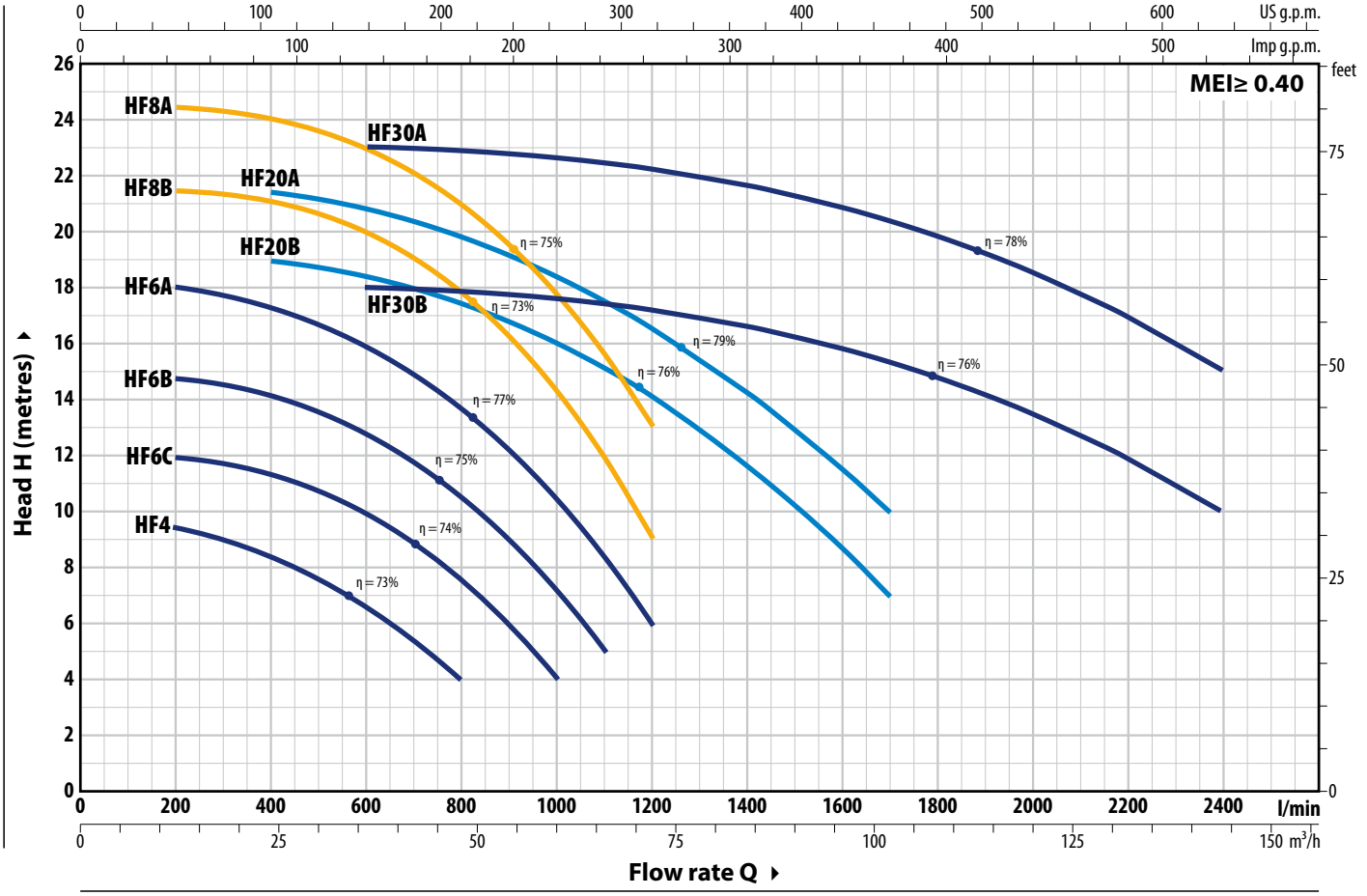
AVAILABLE UPON REQUEST

※ Mechanical seal options available

※ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	12	18	24	30	36	42	48	60	66	72	102	114	144
Single-ph.	Three-ph.	kW	HP	1~	3~		l/min	**0**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**1000**	**1100**	**1200**	**1700**	**1900**	**2400**
HFm 4	**HF 4**	0.75	1					9.8	9.5	9	8.5	7.6	6.6	5.4	4						
HFm 6C	**HF 6C**	1.1	1.5					12	12	11.8	11.4	10.8	10	9	7.6	4					
HFm 6B	**HF 6B**	1.5	2					14.8	14.8	14.6	14.2	13.6	12.8	11.8	10.5	7.2	5				
HFm 6A	**HF 6A**	2.2	3					18.5	18	17.8	17.4	16.8	16	15	13.7	10.4	8.4	6			
–	**HF 8B**	3	4	**IE2**	**IE3**	**H** metres		21.5	21.5	21.4	21	20.7	20	19	17.8	14.3	12	9			
–	**HF 8A**	4	5.5					24.5	24.5	24.4	24	23.6	23	22	21	17.7	15.6	13			
–	**HF 20B**	3	4					19	–	–	19	18.8	18.4	18	17.5	16	15.2	14.2	7		
–	**HF 20A**	4	5.5					21.5	–	–	21.5	21.3	21	20.5	20	18.5	17.6	16.6	10		
–	**HF 30B**	5.5	7.5					18	–	–	–	–	18	17.9	18	17.6	17.4	17.2	15.3	14.2	10
–	**HF 30A**	7.5	10					23	–	–	–	–	23	23	22.8	22.6	22.4	22.2	20.4	19.2	15

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

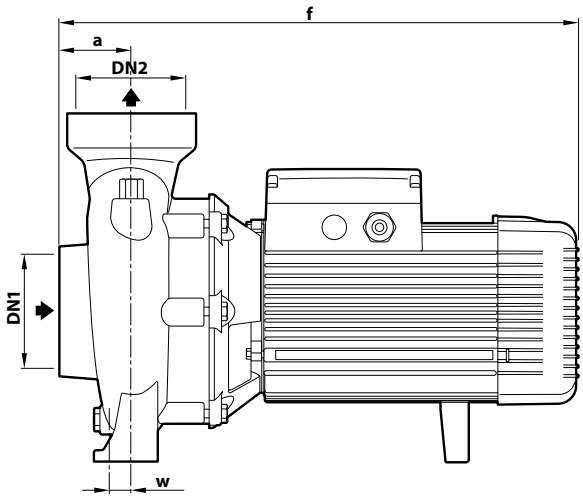
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

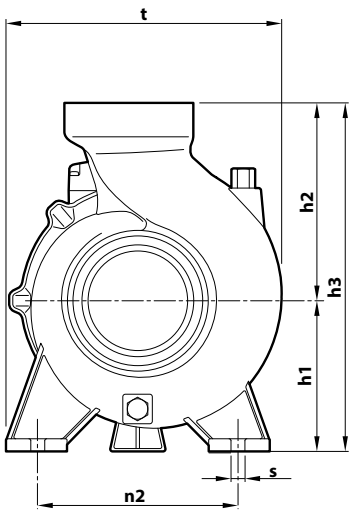
ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
HFm 4	5.9 A
HFm 6C	8.8 A
HFm 6B	10.4 A
HFm 6A	13.5 A

TYPE	VOLTAGE			
Three-ph.	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
HF 4	4.3 A	2.5 A	–	–
HF 6C	6.2 A	3.6 A	–	–
HF 6B	7.8 A	4.5 A	–	–
HF 6A	9.0 A	5.2 A	–	–
HF 8B	13.0 A	7.5 A	–	–
HF 8A	15.7 A	9.1 A	–	–
HF 20B	14.7 A	8.5 A	–	–
HF 20A	15.2 A	8.8 A	–	–
HF 30B	–	–	12.3 A	7.1 A
HF 30A	–	–	16.5 A	9.5 A

DIMENSIONS AND WEIGHT





TYPE		PORTS		DIMENSIONS mm									kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h1	h2	h3	t	n2	w	s	1~	3~
HFm 4	**HF 4**	**2½"**	**2½"**	47	317	97	143	240	198	155	-63	10	14.5	14.5
HFm 6C	**HF 6C**	**3"**	**3"**	68	408	120	190	310	240	178	5	12	25.7	25.7
HFm 6B	**HF 6B**												26.8	26.8
HFm 6A	**HF 6A**				428								29.6	29.6
–	**HF 8B**	**4"**	**4"**	71	474	132	180	312	245	190	27	14	–	37.6
–	**HF 8A**												–	41.0
–	**HF 20B**				479				255				–	37.6
–	**HF 20A**												–	41.0
–	**HF 30B**			76.5	497	160	210	370	292	212	27	14	–	52.0
–	**HF 30A**				547								–	58.0

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with ISO 228/1 threaded ports
2	**Cover**	Cast iron (**AISI 304** stainless steel for HF 4)
3	**Impeller**	Stainless Steel **AISI 304** for HF 4-6 Brass for HF 8 Cast iron for HF 20, HF 30

4 Mechanical seal

Water pump	Seal	Shaft	Materials
HF 4	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR
HF 6	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR
HF 8, HF 20	**FN-20**	Ø 20 mm	Graphite / Ceramic / NBR
HF 30	**FN-24**	Ø 24 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**HFm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **HF**: three-phase 230/400 V - 50 Hz up to 4 kW 400/690 V - 50 Hz from 5.5 to 7.5 kW. ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**



WR IN-LINE close-coupled centrifugal pumps

Clean water
Agricultural use
Civil use
Industrial use



FIELD PERFORMANCE

- Flow rate up to **700 l/min** (42 m³/h)
- Head up to **26 m**

INSTALLATION AND USE

WR centrifugal pumps are designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.
Suitable for civil and industrial applications such as **heating, air conditioning, cooling, and circulation** systems.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

INCLUDES

※ Pump's impeller directly mounted on the motor shaft.
※ Pump body with suction and discharge ports of identical diameter.

APPLICATION LIMITS

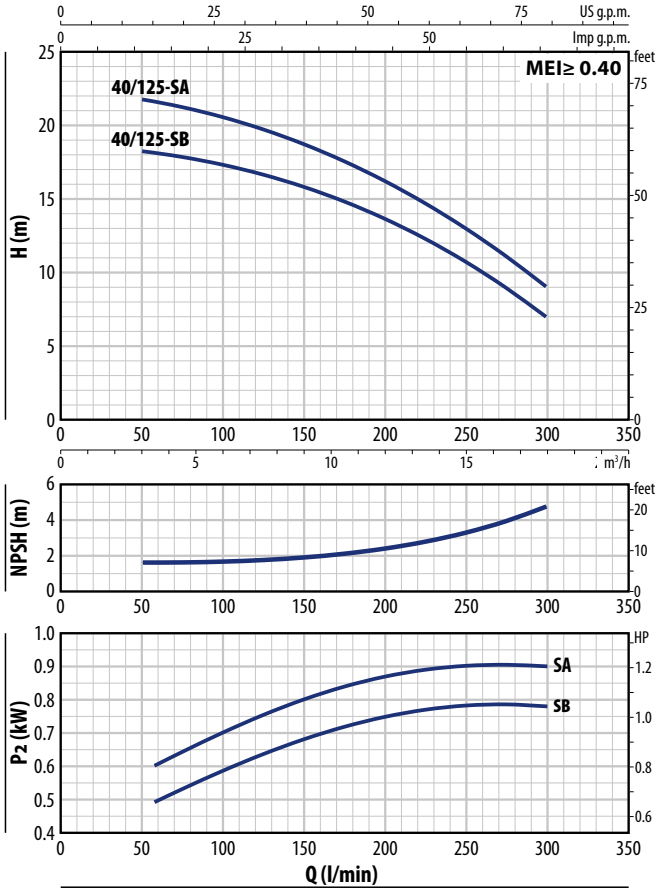
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+110 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar** (PN10)

AVAILABLE UPON REQUEST

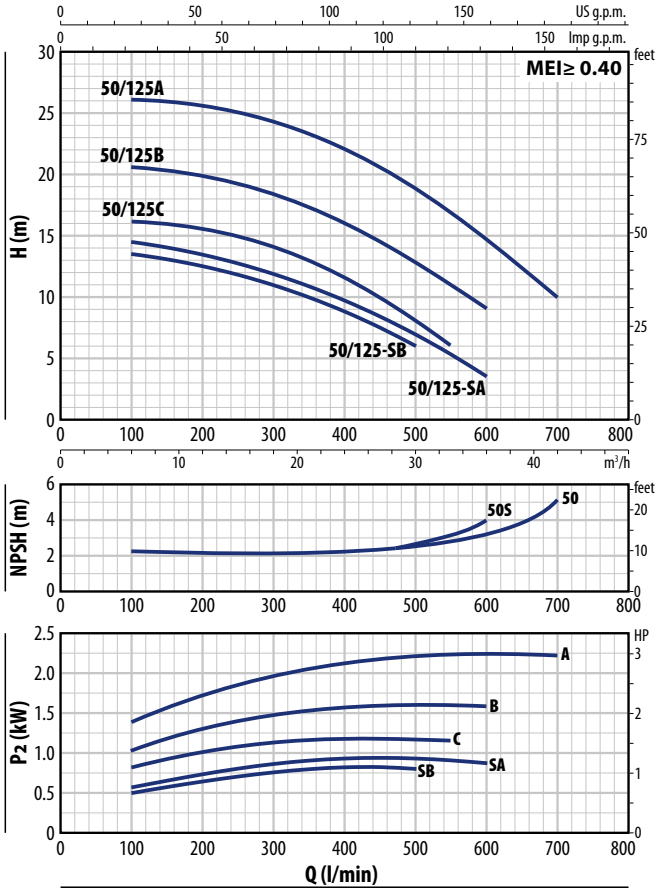
※ Counterflange KIT including screws, nuts and gaskets
※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – HS=0 m – n = 2900 min^{-1} 50 Hz

WR 40/125



WR 50/125



WR 40/125

TYPE		POWER (P2)				Q	m³/h	0	3	6	9	12	15	18
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**
WRm 40/125-SB	**WR 40/125-SB**	0.55	0.75	**IE2**	**IE3**	**H**	metres	18.7	18.2	17.3	15.8	13.7	10.7	7
WRm 40/125-SA	**WR 40/125-SA**	0.75	1					22.4	21.8	20.6	18.7	16.2	13	9

WR 50/125

TYPE		POWER (P2)				Q	m³/h	0	6	12	18	24	30	33	36	39	42
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**100**	**200**	**300**	**400**	**500**	**550**	**600**	**650**	**700**
WRm 50/125-SB	**WR 50/125-SB**	0.55	0.75	**IE2**	**IE3**	**H**	metres	14	13.5	12.5	11	8.8	6				
WRm 50/125-SA	**WR 50/125-SA**	0.75	1					15	14.5	13.5	11.8	9.7	7	5.5	3.5		
WRm 50/125C	**WR 50/125C**	1.1	1.5					16	16	15.5	14	11.5	8	6			
WRm 50/125B	**WR 50/125B**	1.5	2					20.5	20.5	19.8	18.5	16	12.8	11	9		
WRm 50/125A	**WR 50/125A**	2.2	3					26	26	25.5	24	22	18.5	17	14.5	12.5	10

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

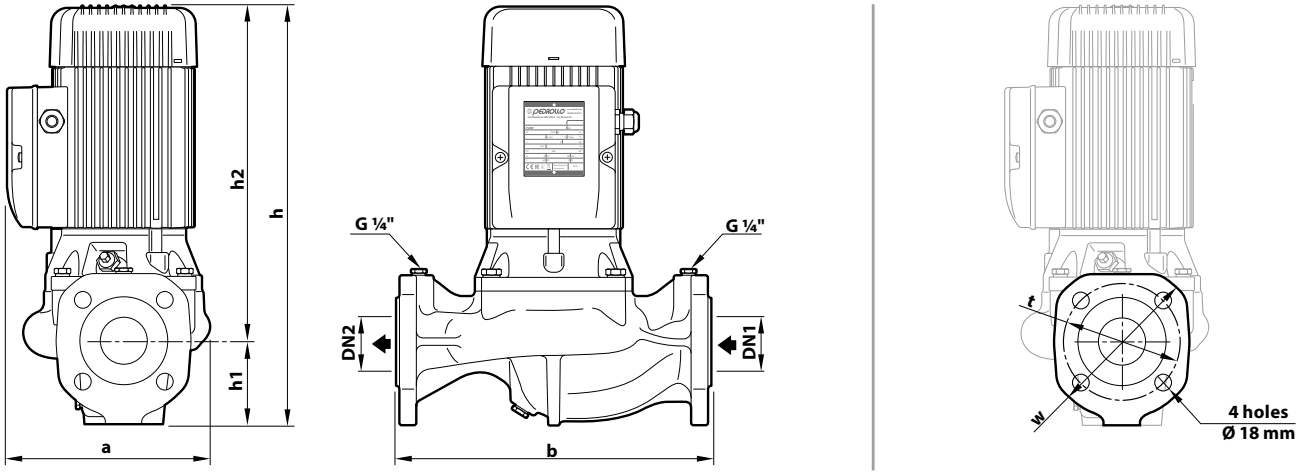
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
WR 40/125-SB	5.2 A
WR 40/125-SA	6.0 A
WR 50/125-SB	5.2 A
WR 50/125-SA	6.0 A
WR 50/125C	8.0 A
WR 50/125B	10.0 A
WR 50/125A	13.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
WR 40/125-SB	3.6 A	2.1 A
WR 40/125-SA	4.0 A	2.3 A
WR 50/125-SB	3.6 A	2.1 A
WR 50/125-SA	4.0 A	2.3 A
WR 50/125C	5.2 A	3.0 A
WR 50/125B	7.8 A	4.5 A
WR 50/125A	9.0 A	5.2 A

DIMENSIONS



TYPE		PORTS		DIMENSIONS mm							kg
Single-phase	**Three-phase**	**DN1**	**DN2**	a	b	h	h1	h2	w	t	
WRm 40/125-SB	**WR 40/125-SB**	**DN 40**	**DN 40**	195	320	350	81	269	150	110	21.1
WRm 40/125-SA	**WR 40/125-SA**										
WRm 50/125-SB	**WR 50/125-SB**	**DN 50**	**DN 50**		340	362	90	272	165	125	23.4
WRm 50/125-SA	**WR 50/125-SA**										
WRm 50/125C	**WR 50/125C**			220	340	432	90	342	165	125	29.0
WRm 50/125B	**WR 50/125B**										30.0
WRm 50/125A	**WR 50/125A**					452		362			32.0

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment, provided with flanged ports
2	**Cover**	Cast iron with cataphoresis treatment
3	**Impeller**	Stainless steel **AISI 304**
4	**Shaft**	Stainless steel **AISI 431**

5 Mechanical seal

Water pump	Seal	Shaft	Materials
WR 40/125-S WR 50/125-S	**FNC-14**	Ø 14 mm	Graphite / Ceramic / EPDM
WR 50/125	**FN-20**	Ø 20 mm	Graphite / Ceramic / EPDM

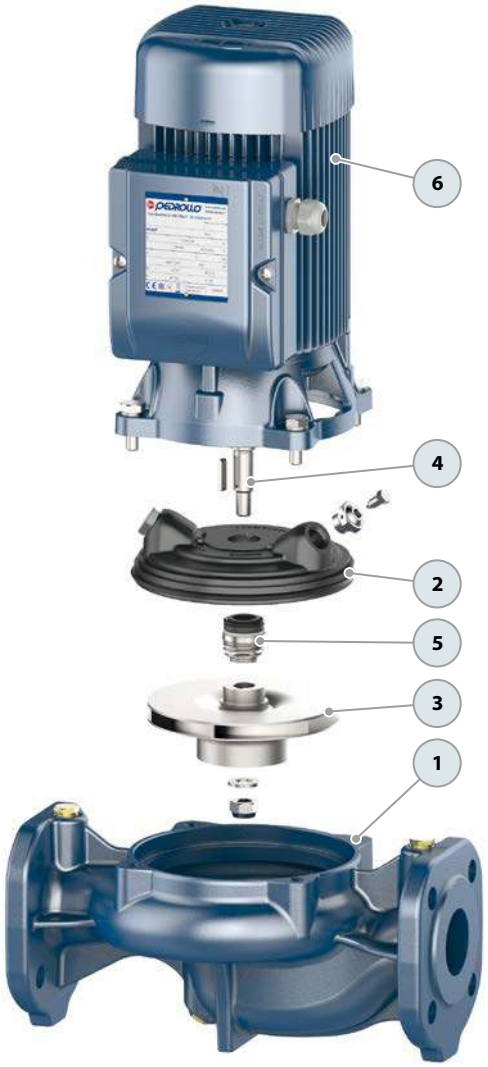
6 Electric motor

WRm: single-phase 230 V - 50 Hz with capacitor and winding integrated thermal motor protection

WR: three-phase 230/400 V - 50 Hz

※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
class **IE2** for single-phase models
class **IE3** for three-phase models

Continuous running duty **S1**



Clean water
Civil use
Industrial use



PERFORMANCE RANGE

- Flow rate up to **5750 l/min** (345 m³/h)
- Head up to **98 m**
- Power from **1.5** to **75 kW**

INSTALLATION AND USE

Close-coupled centrifugal electric pumps with flanges constructed according to the EN733 standard.

- For clean water free from abrasive particles and liquids that will not damage the pump's components
- Water supply
- Pressurization
- Irrigation
- Water circulation in air conditioning systems
- Power washing systems
- Firefighting systems
- Industrial applications
- Agriculture applications

Installation should be carried out in well-ventilated indoor or protected areas.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phacse motors, **IE2** for single-phase motors, class F insulation and IP55 protection.

APPLICATION LIMITS

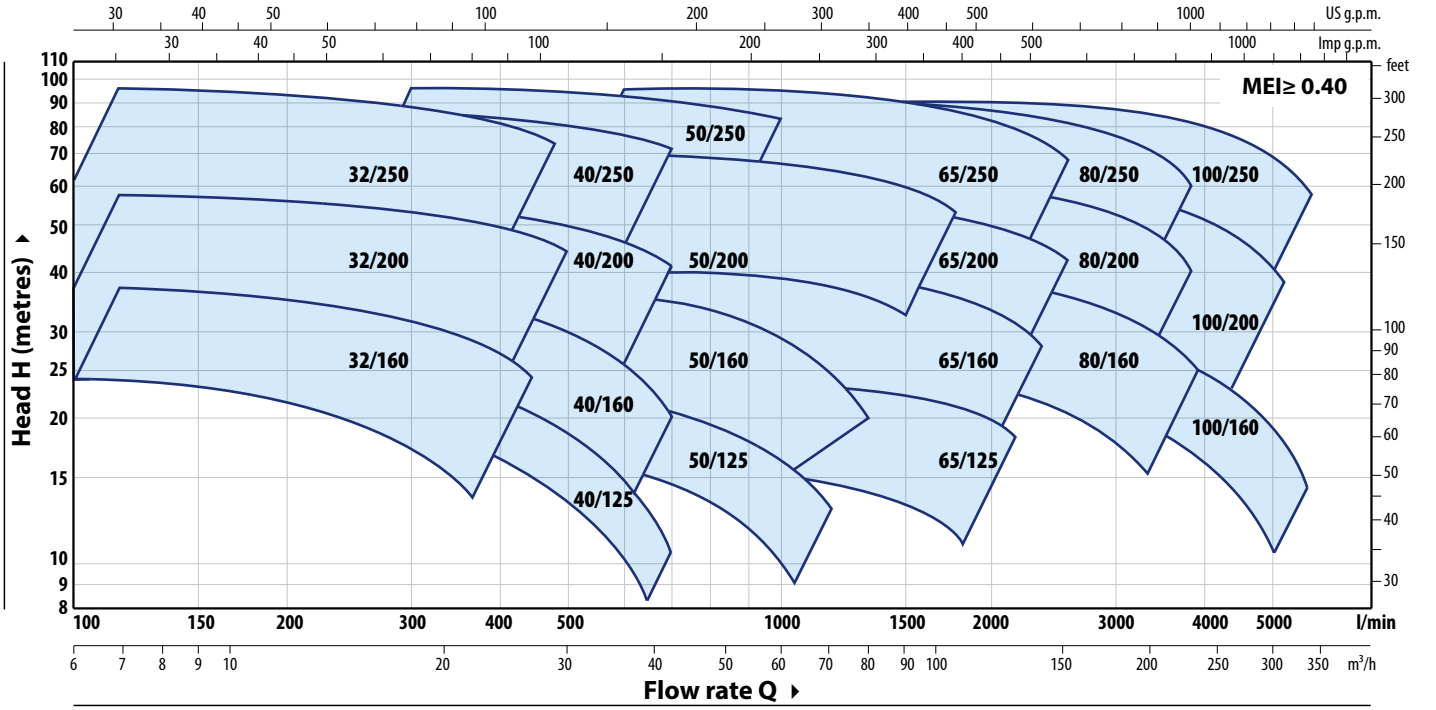
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar** (PN10)

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ Handling of liquids with higher or lower temperatures
※ Adaptability to operate in high or low temperature environments
※ Counterflange KIT including screws, nuts and gasketsg



PERFORMANCE RANGE – n= 2900 min^{-1} 50 Hz



PERFORMANCE DATA – n= 2900 min^{-1} 50 Hz

TYPE	POWER (P2)		PERFORMANCE	
	kW	HP	Q l/min	H metres
F 32/160C	1.5	2	100 – 350	24 – 14
F 32/160B	2.2	3	100 – 400	30 – 17
F 32/160A	3	4	100 – 450	37 – 24
F 32/200C	4	5.5	100 – 450	44 – 31.5
F 32/200B	5.5	7.5	100 – 500	51 – 36
F 32/200A	7.5	10	100 – 500	57 – 44
F 32/200BH	3	4	100 – 300	45 – 37
F 32/200AH	4	5.5	100 – 320	55 – 44
F 32/250C	9.2	12.5	100 – 450	75 – 60
F 32/250B	11	15	100 – 500	87 – 70
F 32/250A	15	20	100 – 500	97 – 80
F 40/125C	1.1	1.5	100 – 550	16 – 6
F 40/125B	1.5	2	100 – 600	20.5 – 9
F 40/125A	2.2	3	100 – 700	26 – 10
F 40/160C	2.2	3	100 – 600	27 – 14
F 40/160B	3	4	100 – 600	32 – 20
F 40/160A	4	5.5	100 – 700	38 – 20
F 40/200B	5.5	7.5	100 – 700	47 – 28
F 40/200A	7.5	10	100 – 700	55 – 41
F 40/250C	9.2	12.5	100 – 700	64 – 47
F 40/250B	11	15	100 – 700	71 – 55
F 40/250A	15	20	100 – 700	88 – 72
F 50/125C	2.2	3	300 – 1200	17.5 – 6
F 50/125B	3	4	300 – 1200	20.7 – 9
F 50/125A	4	5.5	300 – 1200	23.5 – 13
F 50/160C	4	5.5	300 – 1000	27 – 16
F 50/160B	5.5	7.5	300 – 1200	32 – 18
F 50/160A	7.5	10	300 – 1350	37.5 – 20
F 50/200C	11	15	400 – 1700	44 – 30
F 50/200B	15	20	400 – 1700	52 – 38
F 50/200A	18.5	25	400 – 1800	61 – 45
F 50/200AR	22	30	400 – 1800	69 – 53

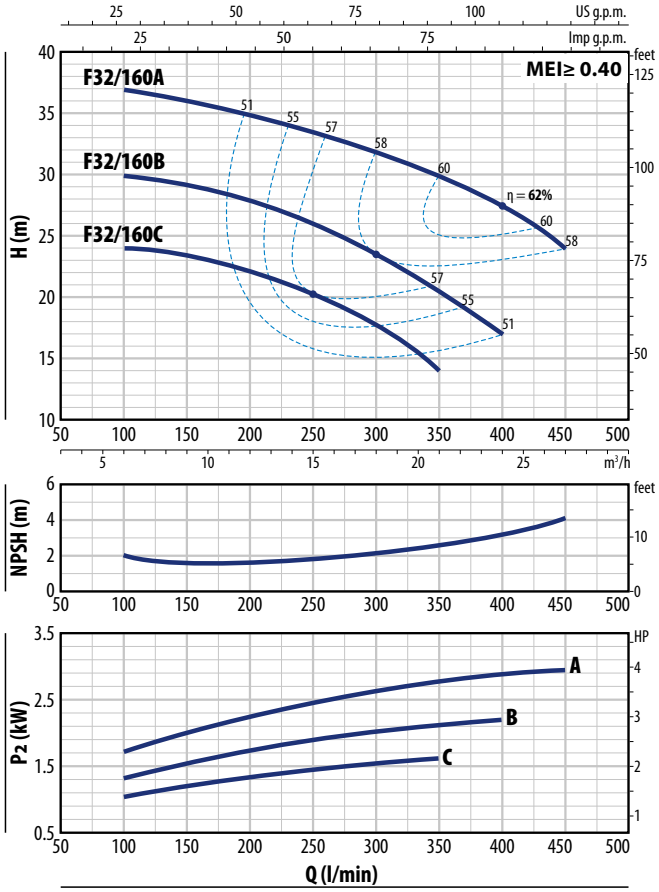
TYPE	POWER (P2)		PERFORMANCE	
	kW	HP	Q l/min	H metres
F 50/250D	9.2	12.5	300 – 900	51 – 32
F 50/250C	11	15	300 – 1000	59 – 43
F 50/250B	15	20	300 – 1000	72 – 59
F 50/250A	18.5	25	300 – 1000	85 – 73
F 50/250AR	22	30	300 – 1000	95 – 83
F 65/125C	4	5.5	600 – 1800	16 – 11
F 65/125B	5.5	7.5	600 – 2000	18 – 13
F 65/125A	7.5	10	600 – 2200	23 – 18
F 65/160C	9.2	12.5	600 – 2200	32 – 22
F 65/160B	11	15	600 – 2400	36.5 – 23
F 65/160A	15	20	600 – 2400	40.5 – 28
F 65/200B	15	20	200 – 2400	44 – 30.5
F 65/200A	18.5	25	200 – 2500	50 – 36.5
F 65/200AR	22	30	200 – 2600	57 – 42
F 65/250C	30	40	400 – 2350	76 – 53
F 65/250B	37	50	400 – 2500	87 – 62
F 65/250A	45	60	400 – 2600	95 – 68
F 80/160D	11	15	500 – 4000	25 – 10
F 80/160C	15	20	500 – 4000	30 – 15
F 80/160B	18.5	25	500 – 4000	35 – 20
F 80/160A	22	30	500 – 4000	40 – 25
F 80/200B	30	40	500 – 3650	56 – 34.5
F 80/200A	37	50	500 – 3900	62 – 40
F 80/250B	45	60	600 – 3600	77 – 54
F 80/250A	55	75	600 – 3900	88.5 – 60
F 100/160C	15	20	1000 – 5000	30 – 12
F 100/160B	18.5	25	1000 – 5200	34 – 14.5
F 100/160A	22	30	1000 – 5500	38 – 17.5
F 100/200C	30	40	833 – 4650	51 – 28
F 100/200B	37	50	833 – 4900	57 – 33
F 100/200A	45	60	833 – 5250	63 – 38
F 100/250B	55	75	800 – 5150	75 – 48
F 100/250A	75	100	800 – 5750	89 – 58

F 32

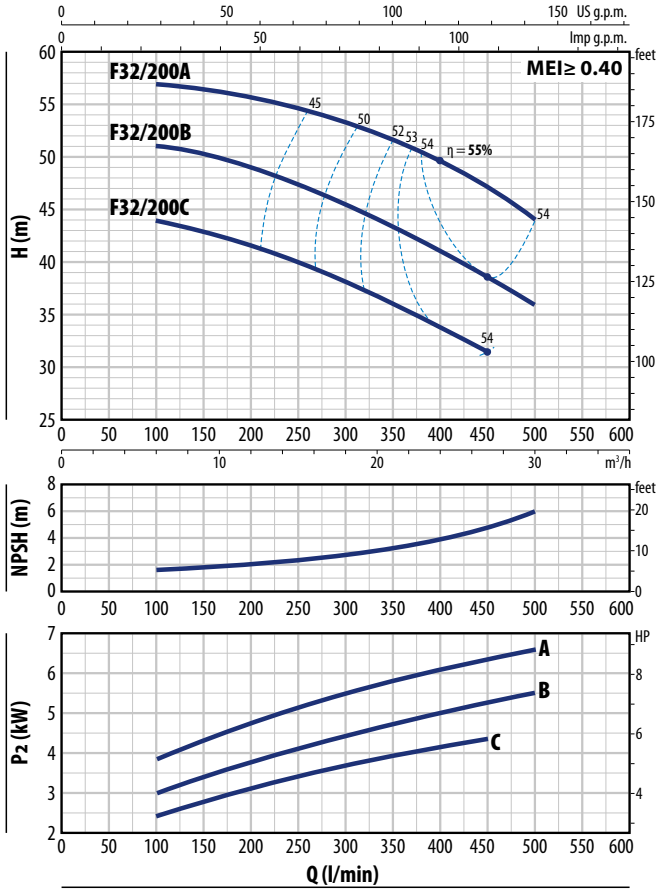
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 32/160



F 32/200



F 32/160

TYPE		POWER (P2)				Q	m³/h	0	6	9	12	15	18	21	24	27
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**
Fm 32/160C	**F 32/160C**	1.5	2					25	24	23.5	22	20.5	18	14		
Fm 32/160B	**F 32/160B**	2.2	3	**IE2**	**IE3**	**H**	metres	31	30	29	28	26	23.5	20.5	17	
–	**F 32/160A**	3	4					38	37	36	35	33.5	31.5	30	27.5	24

F 32/200

TYPE	POWER (P2)			Q	m³/h	0	6	9	12	15	18	21	24	27	30
Three-ph.	**kW**	**HP**	**3~**		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**
F 32/200C	4	5.5				46	44	43	41.5	40	38	36	34	31.5	
F 32/200B	5.5	7.5	**IE3**	**H**	metres	52	51	50.5	49	47	45	43	41	38.5	36
F 32/200A	7.5	10				60	57	56.5	56	55	53.5	52	50	47	44

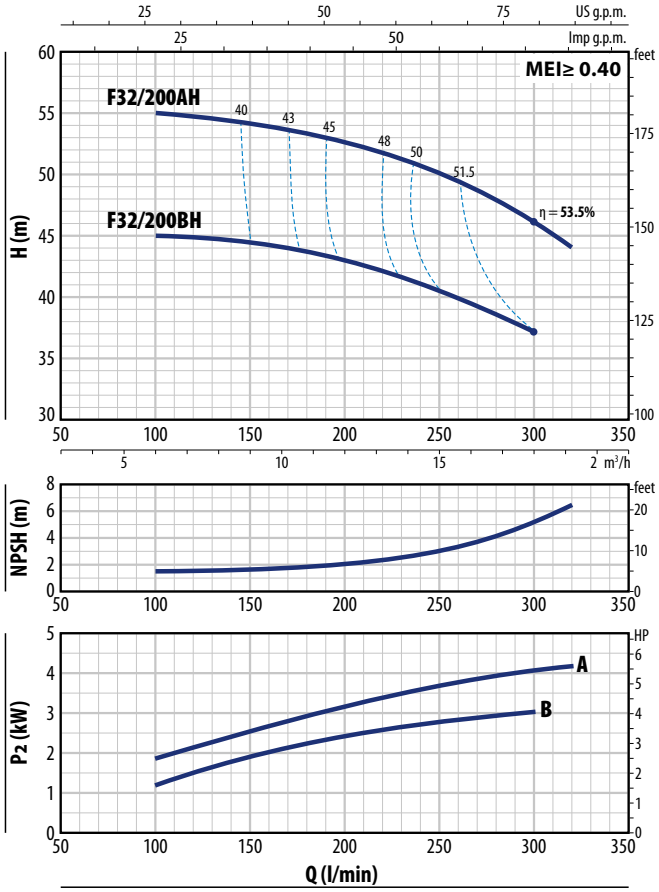
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

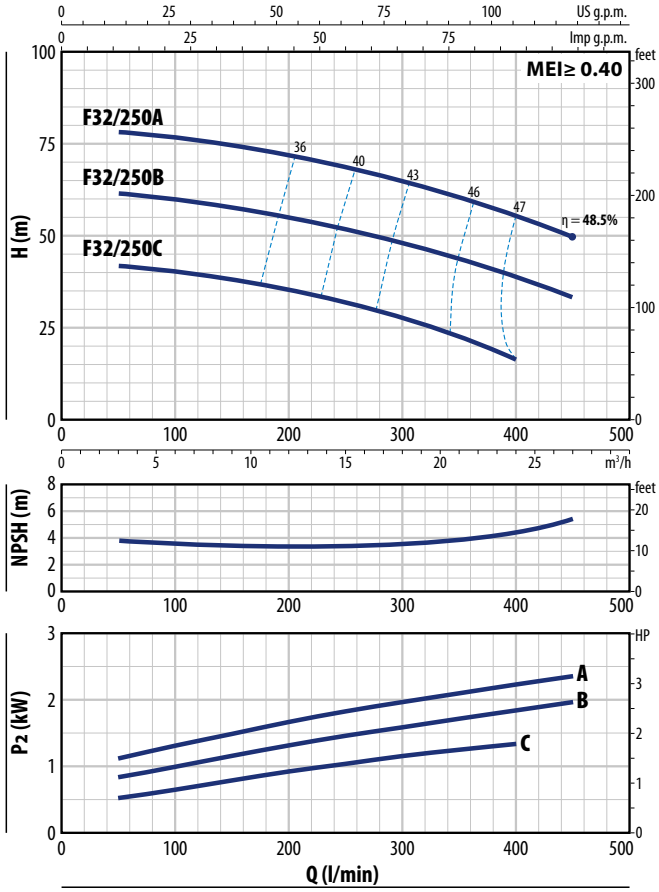
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 32/200H



F 32/250



F 32/200H

TYPE	POWER (P2)			Q	m³/h	0	6	9	12	15	18	19.2
Three-phase	kW	HP	3~		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**320**
F 32/200BH	3	4	IE3	**H** metres		47	45	44.5	43	40.5	37	
F 32/200AH	4	5.5				57	55	54	52.5	50	46	44

F 32/250

TYPE	POWER (P2)			Q	m³/h	0	6	9	12	15	18	21	24	27	30
Three-phase	kW	HP	3~		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**
F 32/250C	9.2	12.5	IE3	**H** metres		76	75	74.5	73	71.5	69.5	67	64	60	
F 32/250B	11	15				88	87	86	85	83	81	79	76.5	73.5	70
F 32/250A	15	20				98	97	96	95	93	91	89	86.5	83.5	80

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

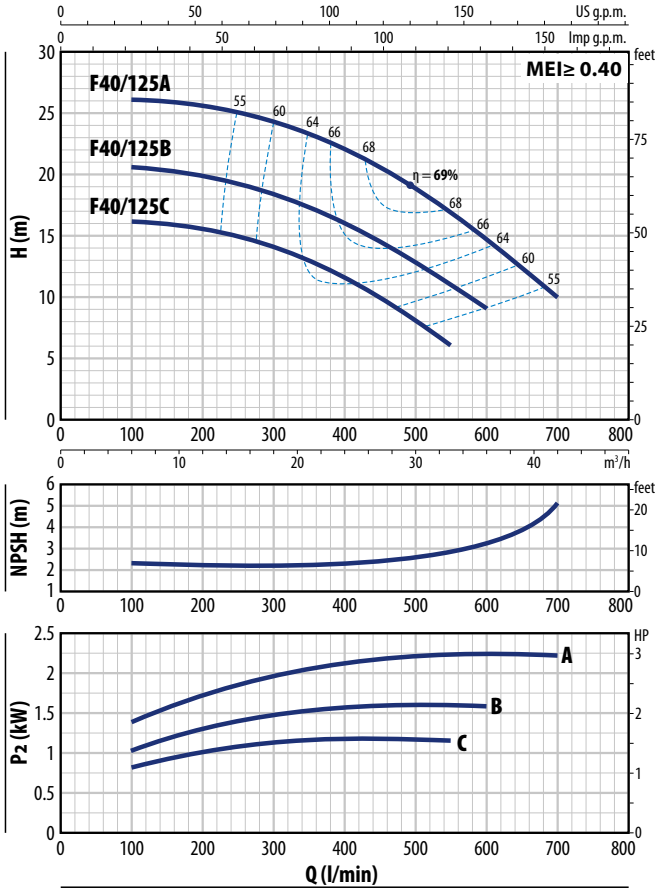
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F 40

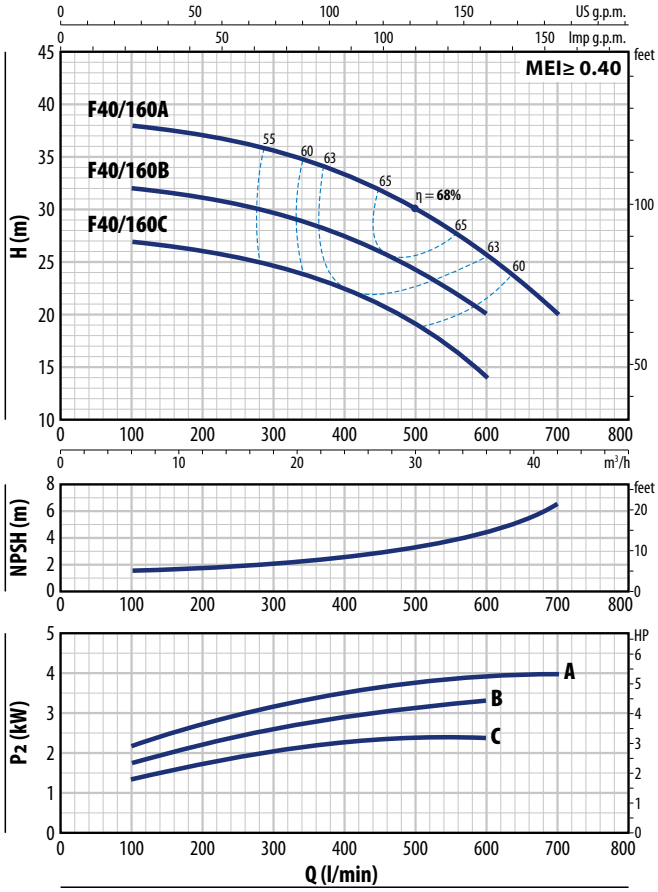
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 40/125



F 40/160



F 40/125

TYPE		POWER (P2)				Q	m³/h	0	6	12	18	24	30	33	36	39	42
Single-phase	Three-phase	kW	HP	1~	3~		l/min	0	100	200	300	400	500	550	600	650	700
Fm 40/125C	F 40/125C	1.1	1.5	IE2	IE3	H metres		16	16	15.5	14	11.5	8	6			
Fm 40/125B	F 40/125B	1.5	2					20.5	20.5	19.8	18.5	16	12.8	11	9		
–	F 40/125A	2.2	3					26	26	25.5	24	22	18.5	17	14.5	12.5	10

F 40/160

TYPE		POWER (P2)				Q	m³/h	0	6	9	12	15	18	24	30	36	42
Single-phase	Three-phase	kW	HP	1~	3~		l/min	0	100	150	200	250	300	400	500	600	700
Fm 40/160C	F 40/160C	2.2	3	IE2	IE3	H metres		27	27	26.5	26	25.5	25	22.5	19	14	
–	F 40/160B	3	4					32	32	31.5	31	30.5	30	27.5	24	20	
–	F 40/160A	4	5.5					38	38	37.8	37	36.5	36	33.5	30	26	20

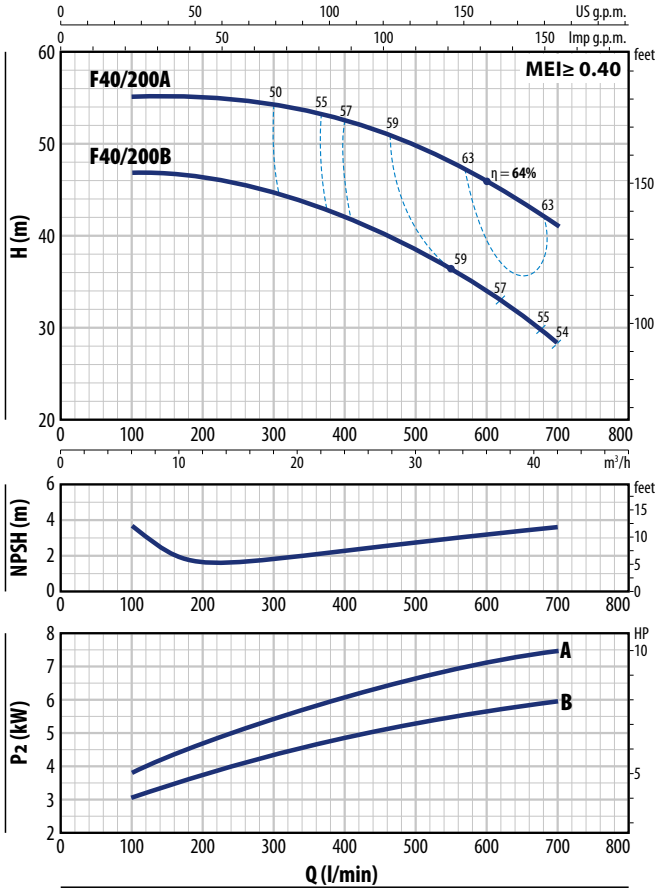
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

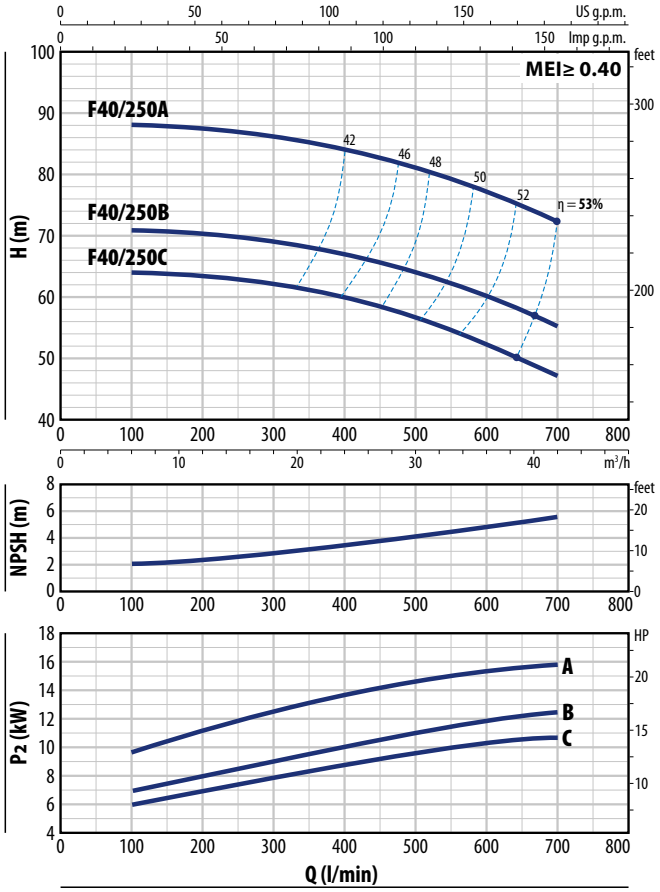
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 40/200



F 40/250



F 40/200

TYPE	POWER (P2)			Q m³/h	0	6	9	12	15	18	24	30	36	42
Three-phase	kW	HP	3~	l/min	**0**	**100**	**150**	**200**	**250**	**300**	**400**	**500**	**600**	**700**
F 40/200B	5.5	7.5	IE3	**H** metres	48	47	46.5	46	45.5	44.5	42	38	34	28
F 40/200A	7.5	10			56	55	55	55	54.5	54	52.5	49.5	46	41

F 40/250

TYPE	POWER (P2)			Q m³/h	0	6	9	12	15	18	24	30	36	42
Three-phase	kW	HP	3~	l/min	**0**	**100**	**150**	**200**	**250**	**300**	**400**	**500**	**600**	**700**
F 40/250C	9.2	12.5	IE3	**H** metres	64	64	63.5	63	62.5	62	60	56.5	52.5	47
F 40/250B	11	15			71	71	70.5	70	69.5	69	67	64	60	55
F 40/250A	15	20			88	88	87.5	87	86.5	86	84	81	77	72

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

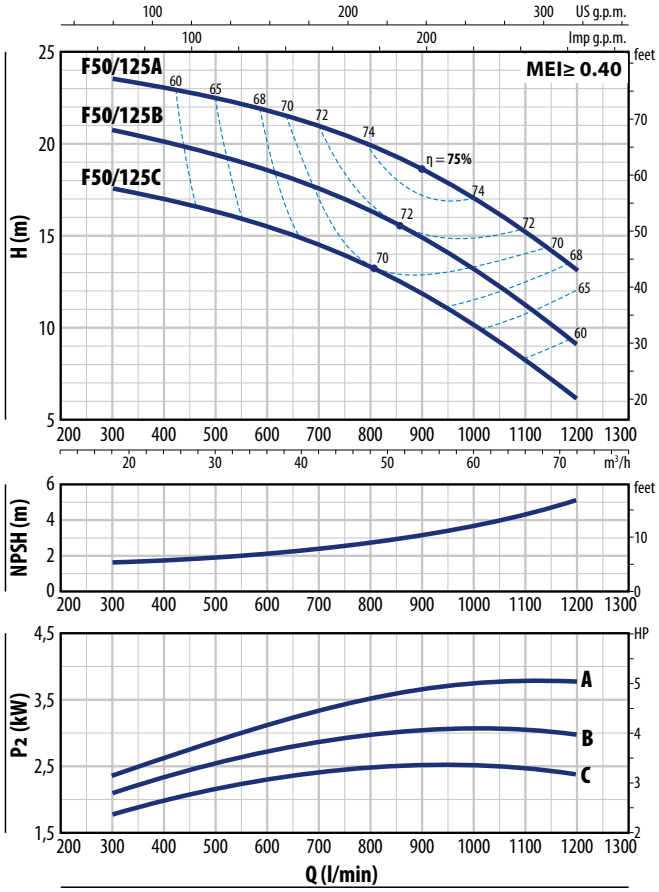
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F 50

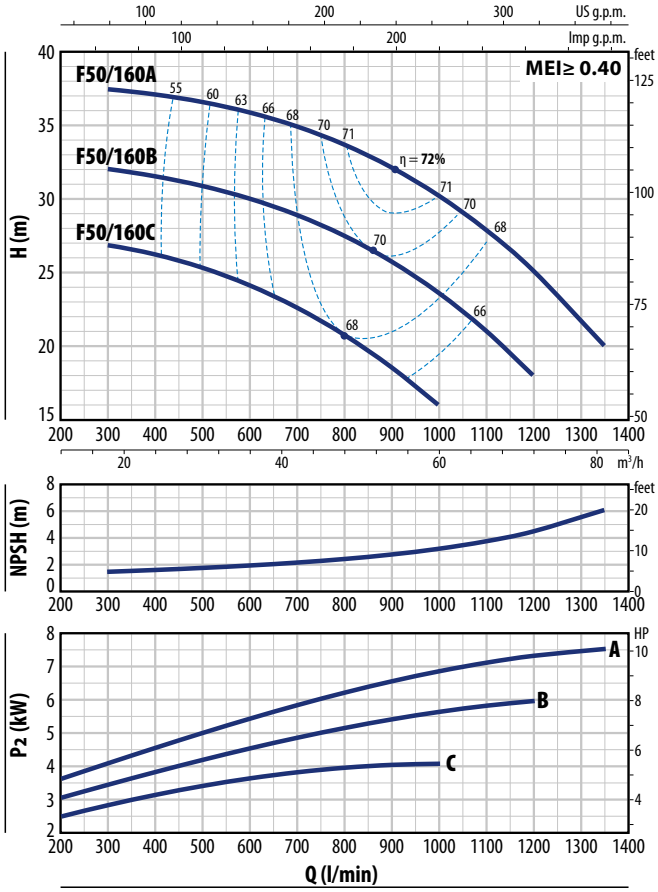
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 50/125



F 50/160



F 50/125

TYPE		POWER (P2)				Q	m³/h	0	18	24	30	36	42	48	54	60	66	72
Single-ph.	Three-ph.	kW	HP	1~	3~		l/min	0	300	400	500	600	700	800	900	1000	1100	1200
Fm 50/125C	F 50/125C	2.2	3					18.5	17.5	17	16.5	15.5	14.8	13.5	12	10.5	8.2	6
–	F 50/125B	3	4	IE2	IE3	H	metres	21.5	20.7	20	19.5	18.8	17.8	16.5	15	13.5	11.2	9
–	F 50/125A	4	5.5					24.5	23.5	23	22.5	21.8	20.8	19.5	18.3	16.8	15	13

F 50/160

TYPE	POWER (P2)			Q	m³/h	0	18	24	30	36	42	48	54	60	66	72	81
Three-phase	kW	HP	3~		l/min	0	300	400	500	600	700	800	900	1000	1100	1200	1350
F 50/160C	4	5.5				27	27	26.5	25	24.5	23	20	18.5	16			
F 50/160B	5.5	7.5	IE3	H	metres	33	32	31.7	31	30	29	27.4	25.7	23.5	21	18	
F 50/160A	7.5	10				38	37.5	37	36.5	36	35	33.7	32	30.2	28	25	20

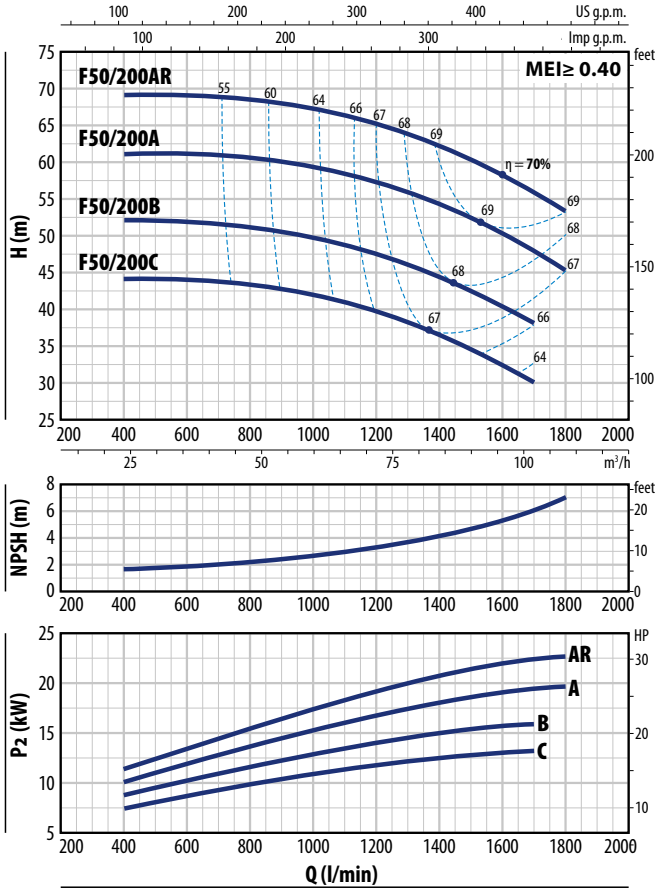
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

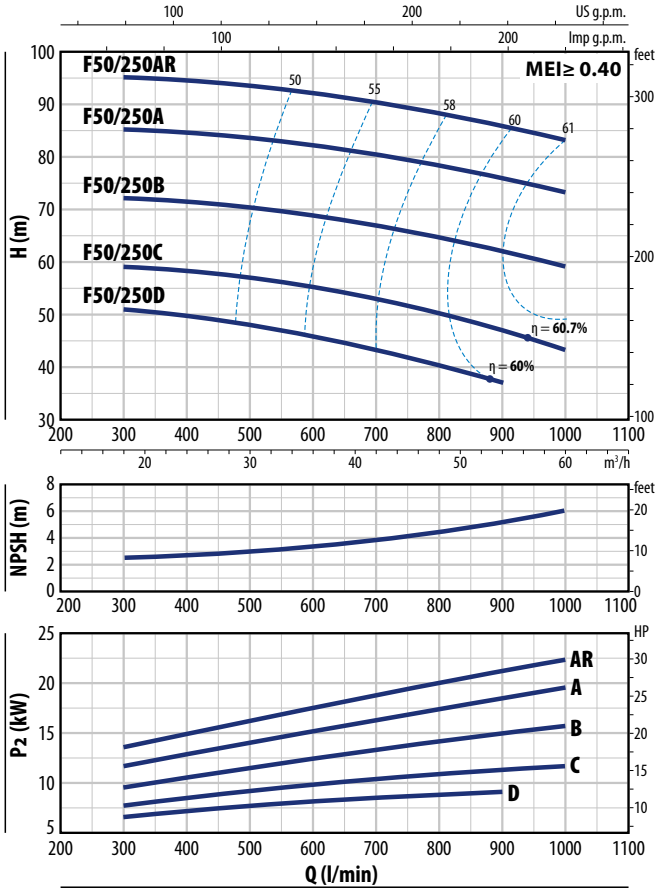
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 50/200



F 50/250



F 50/200

TYPE	POWER (P2)			Q m³/h	24	36	48	60	72	84	96	102	108
Three-phase	kW	HP	3~	l/min	**400**	**600**	**800**	**1000**	**1200**	**1400**	**1600**	**1700**	**1800**
F 50/200C	11	15			44	44	44	42	39	36	33	30	
F 50/200B	15	20			52	52	52	50	47	44	40	38	
F 50/200A	18.5	25	**IE3**	**H** metres	61	61	60.5	60	57	54	50	48	45
F 50/200AR	22	30			69	69	68.5	68	65	62	58	56	53

F 50/250

TYPE	POWER (P2)			Q m³/h	0	18	24	30	36	42	48	54	60
Three-phase	kW	HP	3~	l/min	**0**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**
F 50/250D	9.2	12.5			51	50.5	49.5	48	45.5	43	40	37	
F 50/250C	11	15			59	59	58	56.5	55	53	50	47	43
F 50/250B	15	20	**IE3**	**H** metres	72	72	71	70	69	67	65	62	59
F 50/250A	18.5	25			85	85	84	83	82	80	78	76	73
F 50/250AR	22	30			95	95	94	93	92	90	88	86	83

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

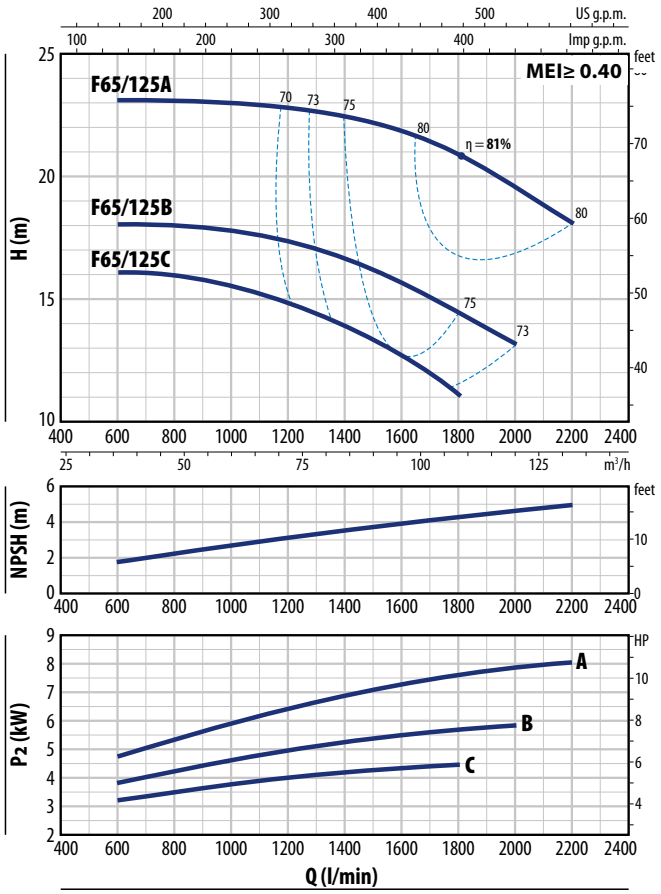
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F 65

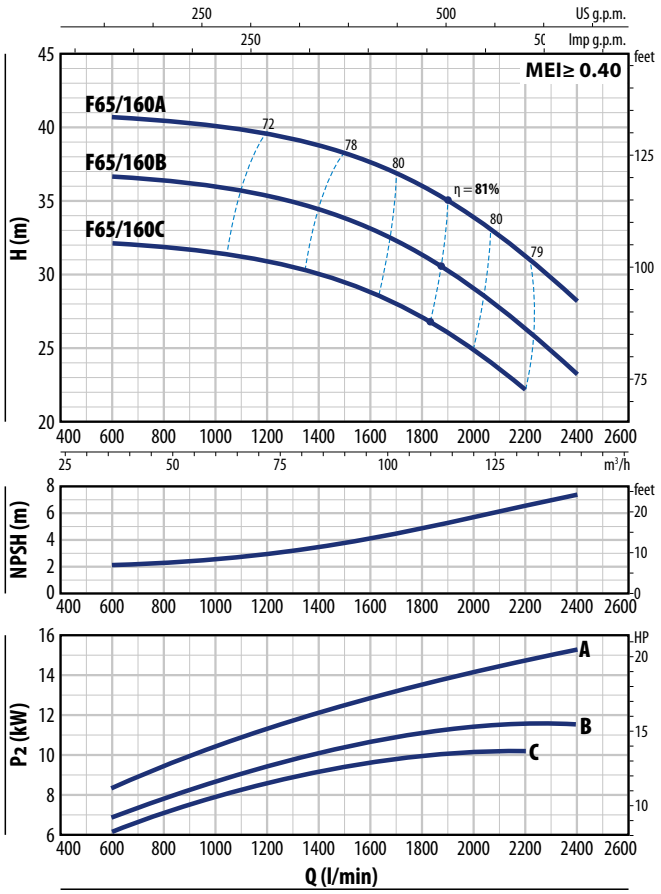
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 65/125



F 65/160



F 65/125

TYPE	POWER (P2)			Q	m³/h	0	36	48	60	72	84	96	108	120	132
Three-phase	kW	HP	3~		l/min	**0**	**600**	**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**	**2200**
F 65/125C	4	5.5	IE3	**H** metres		16	16	16	15.5	14.5	13.5	12.5	11		
F 65/125B	5.5	7.5				18	18	18	18	17	16.5	15.5	14.5	13	
F 65/125A	7.5	10				23	23	23	23	22.5	22.5	22	21	19.5	18

F 65/160

TYPE	POWER (P2)			Q	m³/h	0	36	48	60	72	84	96	108	120	132	144
Three-phase	kW	HP	3~		l/min	**0**	**600**	**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**	**2200**	**2400**
F 65/160C	9.2	12.5	IE3	**H** metres		32	32	32	32	32	30	29	27	25	22	
F 65/160B	11	15				37	36.5	36.5	36	35.5	34	33	31	29	26	23
F 65/160A	15	20				41	40.5	40.5	40	39.5	39	37.5	36	34	31	28

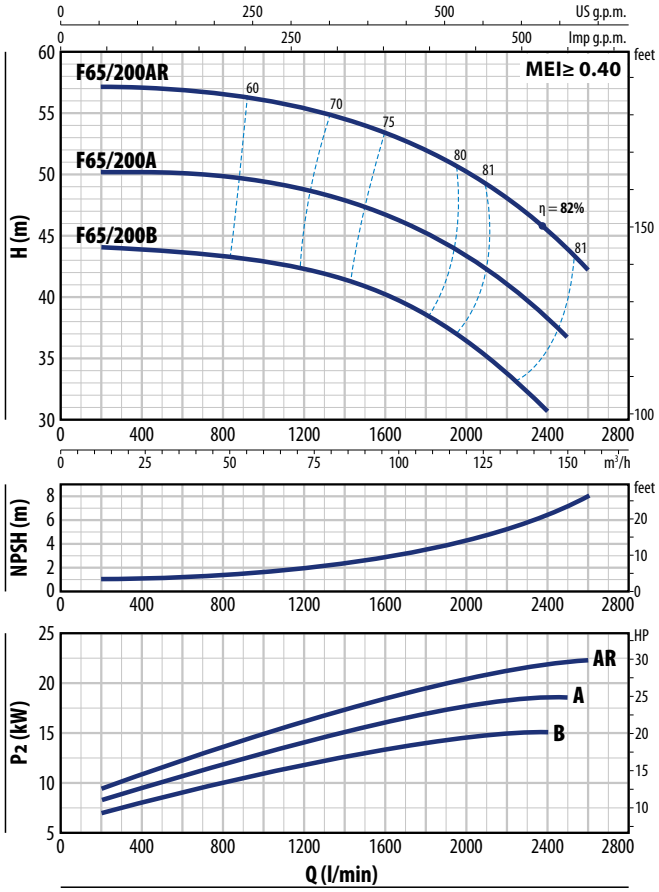
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

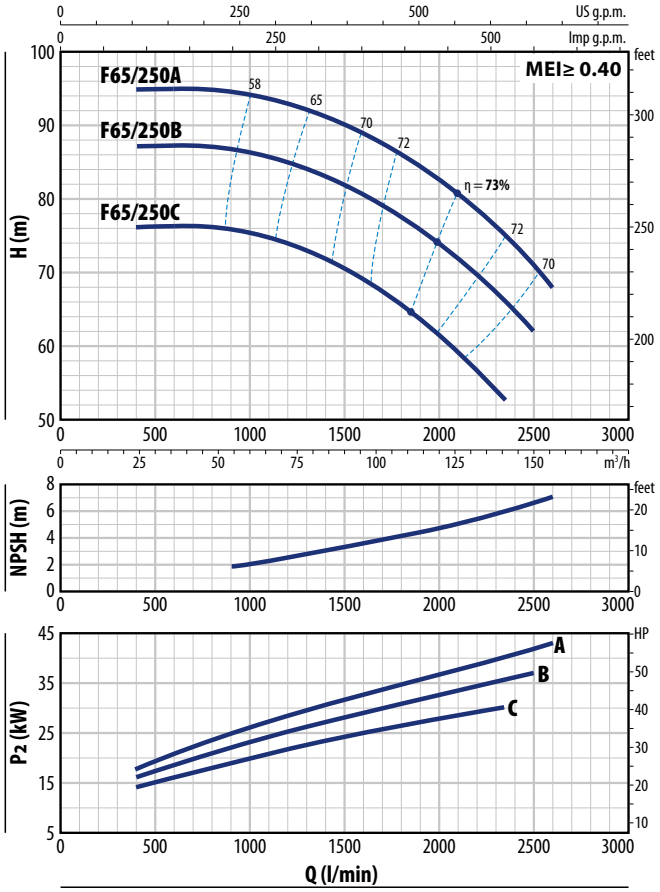
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 65/200



F 65/250



F 65/200

TYPE	POWER (P2)			Q m³/h	12	36	48	60	72	84	96	108	120	132	144	150	156
Three-phase	kW	HP	3~	l/min	200	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2500	2600
F 65/200B	15	20	IE3	H metres	44	43.5	43.3	43	42.5	41.5	40	38.5	36.5	34	30.5		
F 65/200A	18.5	25			50	50	50	49.5	49	48	46.5	45	43	41	38	36.5	
F 65/200AR	22	30			57	57	57	56	55.5	54.5	53.5	52	50	48	45.5	43.5	42

F 65/250

TYPE	POWER (P2)			Q m³/h	24	40	60	80	100	120	141	150	156
Three-phase	kW	HP	3~	l/min	400	667	1000	1333	1667	2000	2350	2500	2600
F 65/250C	30	40	IE3	H metres	76	76	75.5	72.5	68	61.5	53		
F 65/250B	37	50			87	87	86	84	80	74	66.5	62	
F 65/250A	45	60			95	95	94	92	88	82.5	75	71	68

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

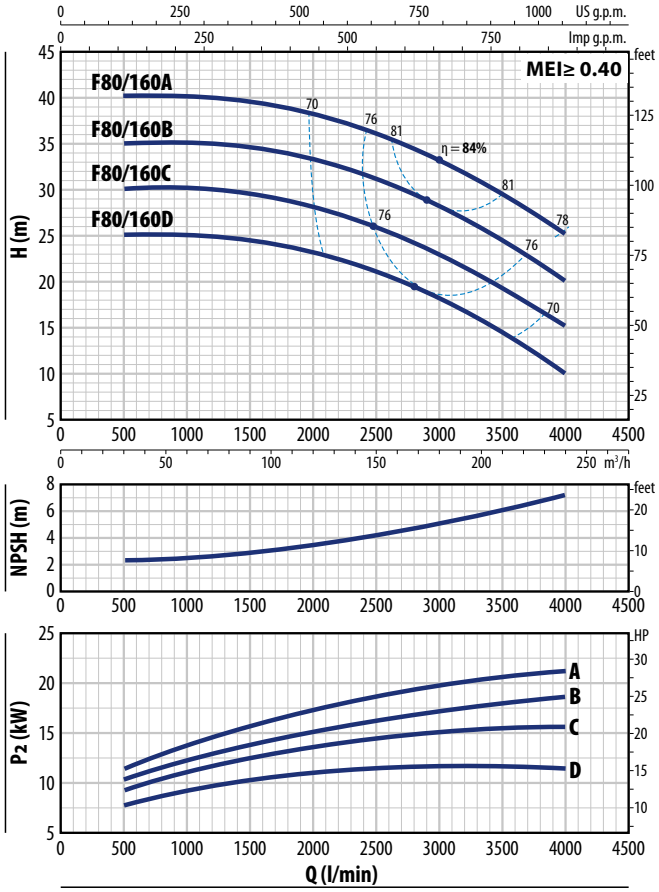
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F 80

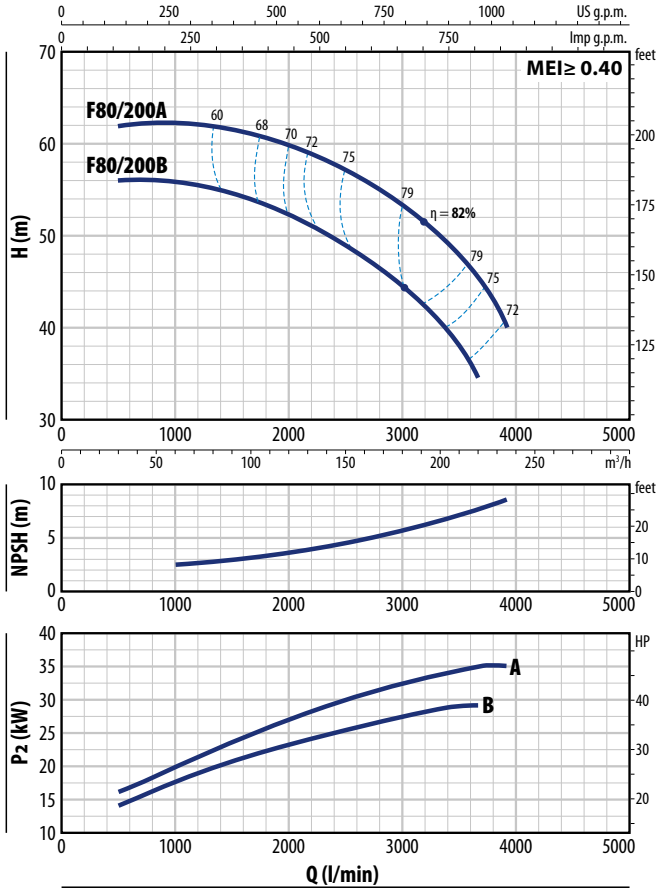
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 80/160



F 80/200



F 80/160

TYPE	POWER (P2)			Q m³/h	0	30	60	90	120	150	180	210	240
Three-phase	kW	HP	3~	l/min	**0**	**500**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**
F 80/160D	11	15	IE3	H metres	25	25	25	24.5	23.5	21	18	14.5	10
F 80/160C	15	20			30	30	30	29.5	28.5	26	23	19.5	15
F 80/160B	18.5	25			35	35	35	34.5	33.5	31	28.5	24.5	20
F 80/160A	22	30			40	40	40	39.5	38.5	36	33	29.5	25

F 80/200

TYPE	POWER (P2)			Q m³/h	30	50	100	150	200	219	234
Three-phase	kW	HP	3~	l/min	**500**	**833**	**1667**	**2500**	**3333**	**3650**	**3900**
F 80/200B	30	40	IE3	H metres	56	56	54	49	41	34.5	
F 80/200A	37	50			62	62	61	57	50	45.5	40

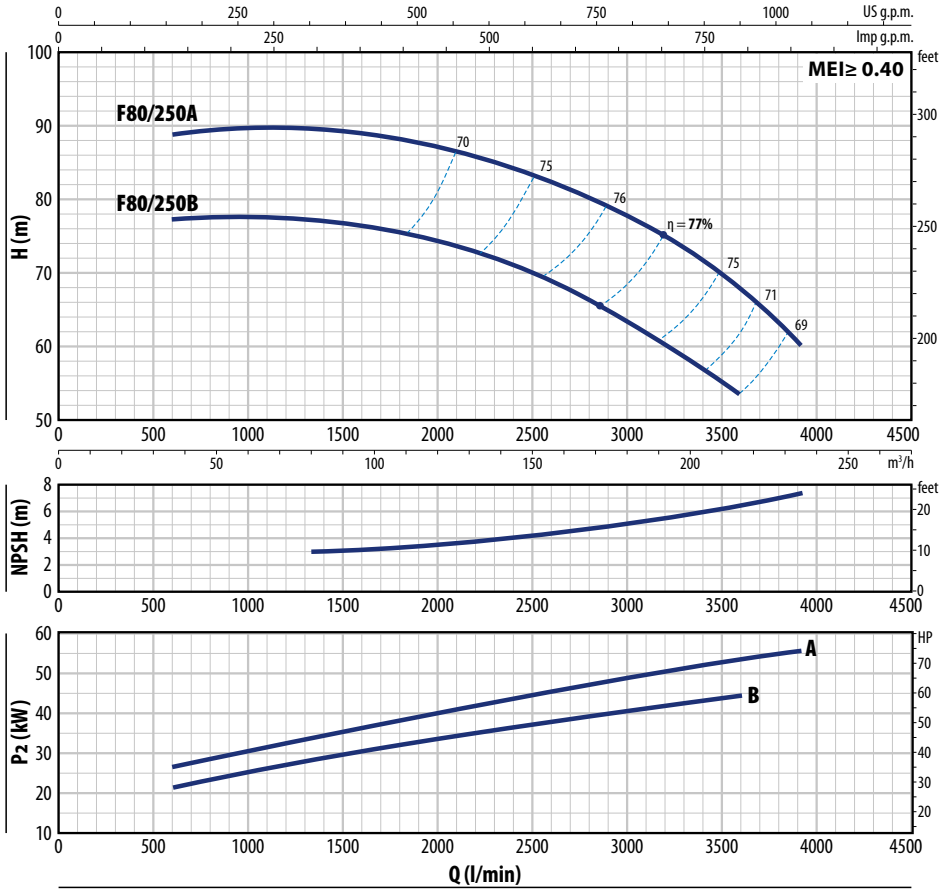
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 80/250



F 80/250

TYPE	POWER (P2)			Q	m³/h	36	50	100	150	200	216	234
Three-phase	kW	HP	3~		l/min	**600**	**833**	**1667**	**2500**	**3333**	**3600**	**3900**
F 80/250B	45	60	IE3	H	metres	77	77.5	76	70.5	58.5	54	
F 80/250A	55	75				88.5	89.5	89	83	72	68	60

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

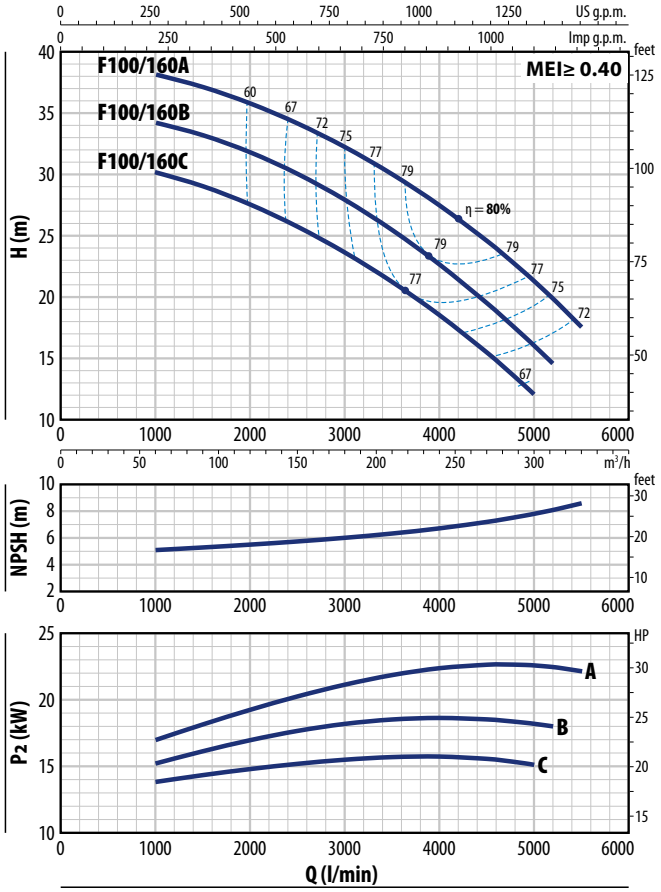
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F 100

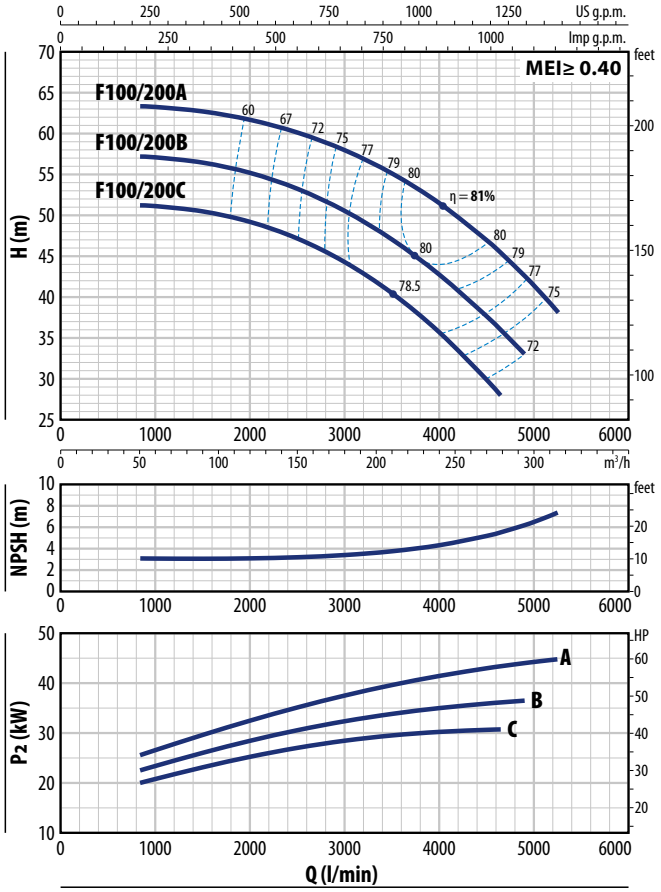
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 100/160



F 100/200



F 100/160

TYPE	POWER (P2)			Q m³/h	60	90	120	150	180	210	240	270	300	312	330
Three-phase	kW	HP	3~	l/min	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**5200**	**5500**
F 100/160C	15	20	IE3	**H** metres	30	29	27.5	25.5	23.5	21	18.5	15.5	12		
F 100/160B	18.5	25			34	33	31.5	30	28	25.5	22.5	19.5	16	14.5	
F 100/160A	22	30			38	37	36	34	32	30	27.5	24.5	21	20	17.5

F 100/200

TYPE	POWER (P2)			Q m³/h	0	50	96	150	180	210	240	279	294	300	315
Three-phase	kW	HP	3~	l/min	**0**	**833**	**1600**	**2500**	**3000**	**3500**	**4000**	**4650**	**4900**	**5000**	**5250**
F 100/200C	30	40	IE3	**H** metres	51	51	50	47	44	40.5	35.5	28			
F 100/200B	37	50			57	57	56	53	50.5	47	42.5	36	33		
F 100/200A	45	60			63	63	62.5	60	58	55	51.5	45	42.5	41.5	38

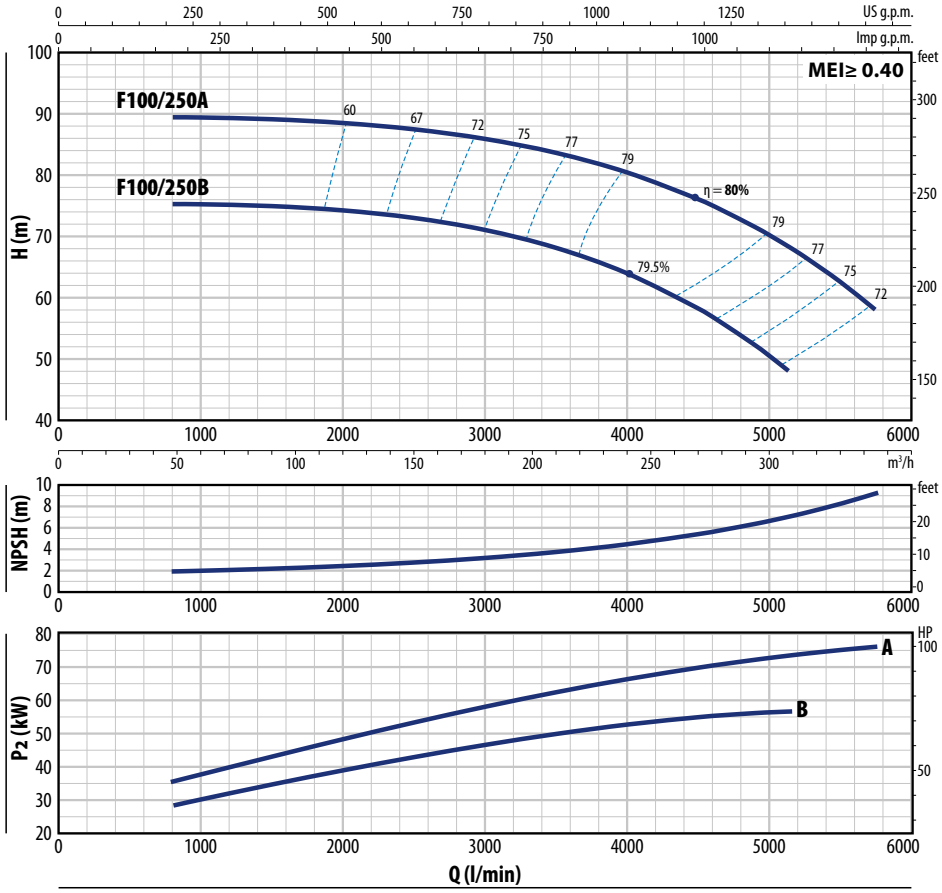
Q = Flow rate **H** = Total manometric head **HS** = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

F 100/250



F 100/250

TYPE	POWER (P2)			Q	m³/h	48	96	150	180	210	240	300	309	345
Three-phase	kW	HP	3~		l/min	**800**	**1600**	**2500**	**3000**	**3500**	**4000**	**5000**	**5150**	**5750**
F 100/250B	55	75	IE3	H	metres	75	75	73	71	68	64	50.5	48	
F 100/250A	75	100				89	89	87.5	86	83.5	80.5	70	68	58

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
Fm 32/160C	11.0 A
Fm 32/160B	12.0 A
Fm 40/125C	8.0 A
Fm 40/125B	10.0 A
Fm 40/160C	15.0 A
Fm 50/125C	13.5 A

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - ⅄**	**400 V - Δ**	**690 V - ⅄**
F 32/160C	7.4 A	4.3 A	–	–
F 32/160B	8.6 A	5.0 A	–	–
F 32/160A	12.1 A	7.3 A	–	–
F 32/200C	17.8 A	10.3 A	–	–
F 32/200B	–	–	11.7 A	6.8 A
F 32/200A	–	-	14.9 A	8.6 A
F 32/200BH	12.6 A	7.3 A	–	–
F 32/200AH	15.4 A	8.9 A	–	–
F 32/250C	–	–	18.5 A	10.7 A
F 32/250B	–	–	22.0 A	12.7 A
F 32/250A	–	–	25.0 A	14.5 A
F 40/125C	5.2 A	3.0 A	–	–
F 40/125B	7.7 A	4.5 A	–	–
F 40/125A	9.0 A	5.2 A	–	–
F 40/160C	9.9 A	5.7 A	–	–
F 40/160B	12.6 A	7.3 A	–	–
F 40/160A	17.1 A	9.9 A	–	–
F 40/200B	–	–	12.6 A	7.3 A
F 40/200A	–	–	15.6 A	9.0 A
F 40/250C	–	–	21.0 A	12.1 A
F 40/250B	–	–	23.5 A	13.6 A
F 40/250A	–	–	30.5 A	17.6 A
F 50/125C	9.3 A	5.4 A	–	–
F 50/125B	13.1 A	7.6 A	–	–
F 50/125A	16.3 A	9.4 A	–	–
F 50/160C	15.7 A	9.1 A	–	–
F 50/160B	–	–	12.3 A	7.1 A
F 50/160A	–	–	15.5 A	9.0 A
F 50/200C	–	–	23.0 A	13.3 A
F 50/200B	–	–	29.5 A	17.1 A
F 50/200A	–	–	34.5 A	19.9 A
F 50/200AR	–	–	41.5 A	24.0 A

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - ⅄**	**400 V - Δ**	**690 V - ⅄**
F 50/250D	–	19.0 A	19.0 A	11.0 A
F 50/250C	–	21.0 A	21.0 A	12.1 A
F 50/250B	–	27.0 A	27.0 A	15.6 A
F 50/250A	–	34.0 A	34.0 A	19.7 A
F 50/250AR	–	41.0 A	41.0 A	23.7 A
F 65/125C	17.3 A	10.0 A	–	–
F 65/125B	–	12.0 A	12.0 A	6.9 A
F 65/125A	–	16.5 A	16.5 A	9.5 A
F 65/160C	–	19.0 A	19.0 A	11.0 A
F 65/160B	–	23.0 A	23.0 A	13.3 A
F 65/160A	–	27.5 A	27.5 A	15.9 A
F 65/200B	–	30.0 A	30.0 A	17.3 A
F 65/200A	–	34.0 A	34.0 A	19.7 A
F 65/200AR	–	41.0 A	41.0 A	23.7 A
F 65/250C	–	53.0 A	53.0 A	30.6 A
F 65/250B	–	65.0 A	65.0 A	37.6 A
F 65/250A	–	79.0 A	79.0 A	45.7 A
F 80/160D	–	22.0 A	22.0 A	12.7 A
F 80/160C	–	29.0 A	29.0 A	16.8 A
F 80/160B	–	34.5 A	34.5 A	19.9 A
F 80/160A	–	39.0 A	39.0 A	22.5 A
F 80/200B	–	53.0 A	53.0 A	30.6 A
F 80/200A	–	65.0 A	65.0 A	37.6 A
F 80/250B	–	79.0 A	79.0 A	45.7 A
F 80/250A	–	98.0 A	98.0 A	56.6 A
F 100/160C	–	27.5 A	27.5 A	15.9 A
F 100/160B	–	32.5 A	32.5 A	18.8 A
F 100/160A	–	39.8 A	39.8 A	23.0 A
F 100/200C	–	53.0 A	53.0 A	30.6 A
F 100/200B	–	65.0 A	65.0 A	37.6 A
F 100/200A	–	79.0 A	79.0 A	45.7 A
F 100/250B	–	98.0 A	98.0 A	56.6 A
F 100/250A	–	126.0 A	126.0 A	72.8 A

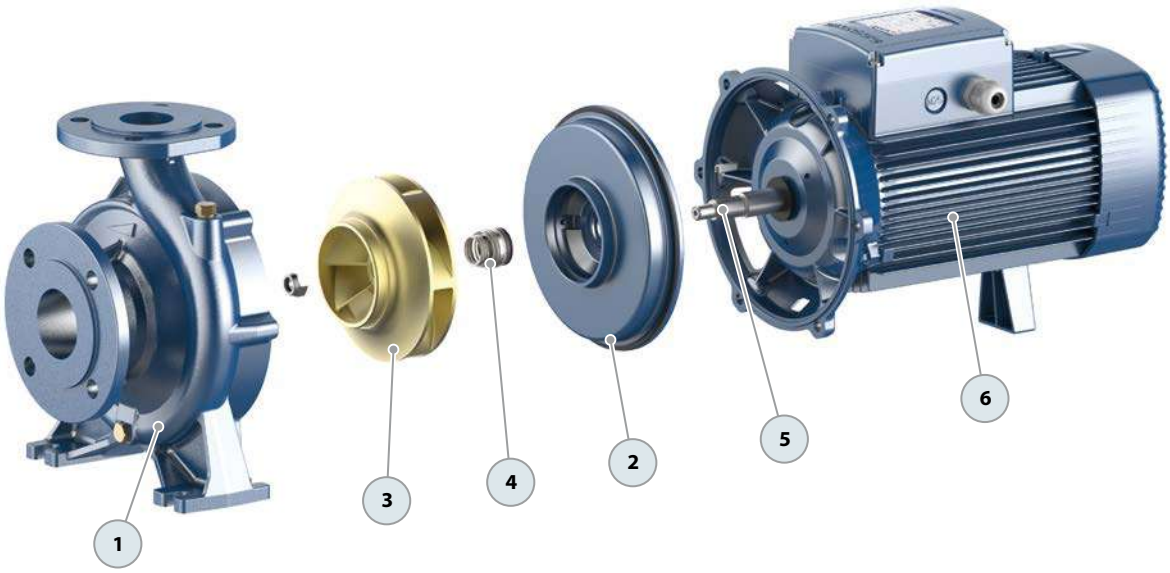
MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron, fitted with inlet and outlet flanged ports
2	**Cover/Motor bracket**	Cast iron
3	**Impeller**	Brass for F32/160 - F32/200 - F40/125 - F40/160 - F40/200 - F50/125 - F50/160 Cast iron for F32/250 - F40/250 - F50/200 - F50/250 - F65/125 - F65/160 - F65/200 - F65/250 F80/160 - F80/200 - F80/250 - F100/160 - F100/200 - F100/250

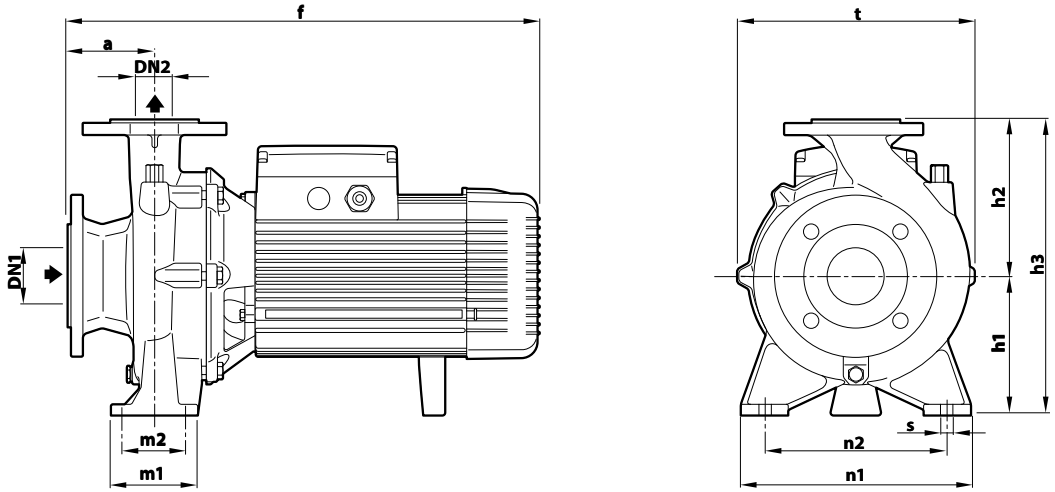
4 Mechanical seal

Water pump	Seal	Shaft	Materials
F32/160 - F40/125 - F40/160 - F50/125	**FN-20**	Ø 20 mm	Graphite Ceramic NBR
F32/200 - F40/200 - F50/160 - F65/125	**FN-24**	Ø 24 mm	
F50/200 - F65/160 - F65/200 - F80/160 - F100/160	**FN-32 NU**	Ø 32 mm	
F32/250 - F40/250 - F50/250	**FN-38**	Ø 38 mm	
F65/250 - F80/200 - F80/250B - F100/200	**FN-40 NU**	Ø 40 mm	
F80/250A - F100/250	**FH-45 NU**	Ø 45 mm	

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**Fm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection (up to 1.5 kW) **F**: three-phase 230/400 V 50 Hz up to 4 kW - 400/690 V 50 Hz from 5.5 to 75 kW ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE2** for single-phase models class **IE3** for three-phase models Continuous running duty **S1**

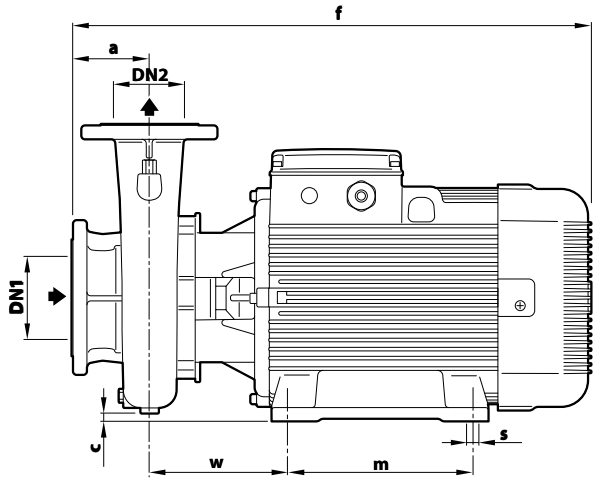


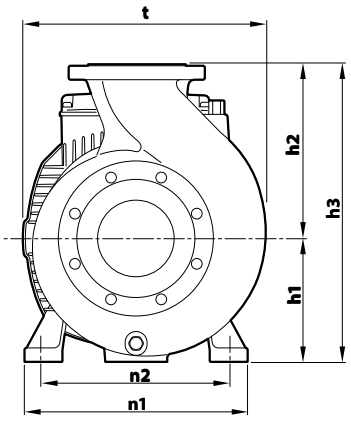
DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h1	h2	h3	t	n1	n2	m1	m2	s	1~	3~
Fm 32/160C	**F 32/160C**				416										32.6	32.5
Fm 32/160B	**F 32/160B**				436	132	160	292	240			100			35.3	36.0
–	**F 32/160A**				473										–	39.0
–	**F 32/200C**			80	478					245	190		70		–	46.0
–	**F 32/200B**														–	50.0
–	**F 32/200A**	**50**	**32**		528	160	180	340	273			95			–	57.0
–	**F 32/200BH**				478										–	41.7
–	**F 32/200AH**														–	45.0
–	**F 32/250C**														–	105.0
–	**F 32/250B**			100	659	180	225	405	325	320	250	125	95		–	103.3
–	**F 32/250A**														–	121.0
Fm 40/125C	**F 40/125C**				421										31.5	31.0
Fm 40/125B	**F 40/125B**					112	140	252	244	210	160				33.0	32.4
–	**F 40/125A**			80	441										–	35.3
Fm 40/160C	**F 40/160C**				435										35.3	36.0
–	**F 40/160B**				473	132	160	292	241	240	190	100	70		–	36.1
–	**F 40/160A**	**65**	**40**												–	43.0
–	**F 40/200B**				498	160	180	340	277	265	212				–	52.4
–	**F 40/200A**				548										–	59.0
–	**F 40/250C**				659	180	225	405	329	320	250	125	95		–	105.0
–	**F 40/250B**														–	105.0
–	**F 40/250A**														–	128.5
Fm 50/125C	**F 50/125C**				455										34.4	35.1
–	**F 50/125B**				493	132	160	292	242	240	190				–	35.2
–	**F 50/125A**														–	42.0
–	**F 50/160C**				498		180	340	273						–	45.5
–	**F 50/160B**											100	70		–	51.0
–	**F 50/160A**				548										–	57.0
–	**F 50/200C**				669	160				265	212				–	100.0
–	**F 50/200B**	**65**	**50**				200	360	316.5						–	114.0
–	**F 50/200A**				769										–	127.0
–	**F 50/200AR**			100	768.5										–	143.0
–	**F 50/250D**				659										–	105.0
–	**F 50/250C**					180	225	405	333	320	250				–	108.0
–	**F 50/250B**														–	121.0
–	**F 50/250A**				759										–	134.0
–	**F 50/250AR**														–	149.0
–	**F 65/125C**				520										–	53.4
–	**F 65/125B**					160	180	340	292						–	58.0
–	**F 65/125A**				570										–	64.0
–	**F 65/160C**				674		200	360	295	280	212	125	95		–	100.0
–	**F 65/160B**	**80**	**65**												–	100.0
–	**F 65/160A**														–	112.0
–	**F 65/200B**				676	180	225	405	336	320	250				–	119.3
–	**F 65/200A**				776										–	132.0
–	**F 65/200AR**														–	147.0
–	**F 80/160D**				705				330						–	104.0
–	**F 80/160C**	**100**	**80**												–	121.0
–	**F 80/160B**				805										–	133.0
–	**F 80/160A**			125											–	145.0
–	**F 100/160C**				718										–	141.2
–	**F 100/160B**	**125**	**100**		818	200	280	480	382	360	280	160	120	18	–	155.0
–	**F 100/160A**				818										–	165.0

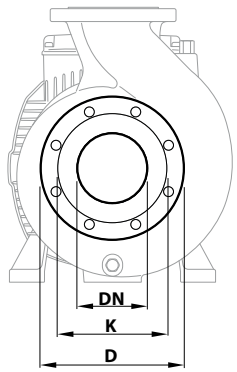
DIMENSIONS AND WEIGHT





TYPE	PORTS		DIMENSIONS mm											kg
Three-ph.	**DN1**	**DN2**	a	f	h1	h2	h3	c	t	n1	n2	w	m	s	3~
F 65/250C	**80**	**65**	100	809	200	250	450	15	377	360	318	214.5	305	19	211.0
F 65/250B															225.0
F 65/250A															239.0
F 80/200B	**100**	**80**	125	837	200	250	450	25	372	360	318	217.5	305	19	203.0
F 80/200A															218.0
F 80/250B				834		280	480	5	390			214.5			249.0
F 80/250A				1015	250		620	55	490	490	400	294	350	24	547.0
F 100/200C	**125**	**100**	125	839	200	280	480	–	395	360	318	219.5	305	19	217.0
F 100/200B															231.0
F 100/200A															245.0
F 100/250B			140	1060	250	280	620	40	485	485	406	313	350	24	551.2
F 100/250A															544.3

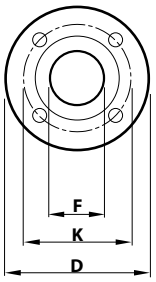
PORT FLANGES



DN FLANGE	D	K	HOLES	
mm	mm	mm	N°	Ø (mm)
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	
100	220	180		
125	250	210		

COUNTER-FLANGE

(CAN BE ORDERED SEPARATELY)



DN FLANGE	F	D	K	HOLES	
mm	COUNTER-FLANGE	mm	mm	N°	Ø (mm)
32	1¼"	140	100	4	18
40	1½"	150	110		
50	2"	165	125		
65	2½"	185	145		
80	3"	200	160	8	
100	4"	220	180		
125	5"	250	210		

Clean water

Industrial use

※ **Pump entirely made of AISI 316 stainless steel**



PERFORMANCE RANGE

- Flow rate up to **2200 l/min** (132 m³/h)
- Head up to **37 m**
- Power from **4** to **7.5 kW**

INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.

- Water supply
- Pressurization
- Irrigation
- Water circulation in air conditioning systems
- Power washing systems
- Firefighting systems
- Industrial applications
- Agriculture applications

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors, **IE2** for single-phase motors, class F insulation and IP55 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar** (PN10)

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ Handling of liquids with higher or lower temperatures
※ Adaptability to operate in high or low temperature environments

PERFORMANCE DATA

MEI≥ 0.40 **50 Hz**

TYPE	POWER (P2)			PERFORMANCE					
Three-phase	**kW**	**HP**	**3~**	**Q** l/min	**H** m	**Q** l/min	**H** m	**Q** l/min	**H** m
F 50/160C-I	4	5.5		**300**	27	**800**	20	**1000**	16
F 50/160B-I	5.5	7.5	**IE3**	**300**	32	**900**	26	**1100**	21
F 50/160A-I	7.5	10		**300**	37	**900**	32	**1100**	27
F 65/125C-I	4	5.5		**600**	16	**1600**	12.5	**1800**	11
F 65/125B-I	5.5	7.5	**IE3**	**600**	18	**1800**	14.5	**2000**	13
F 65/125A-I	7.5	10		**600**	23	**1800**	21	**2200**	18

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

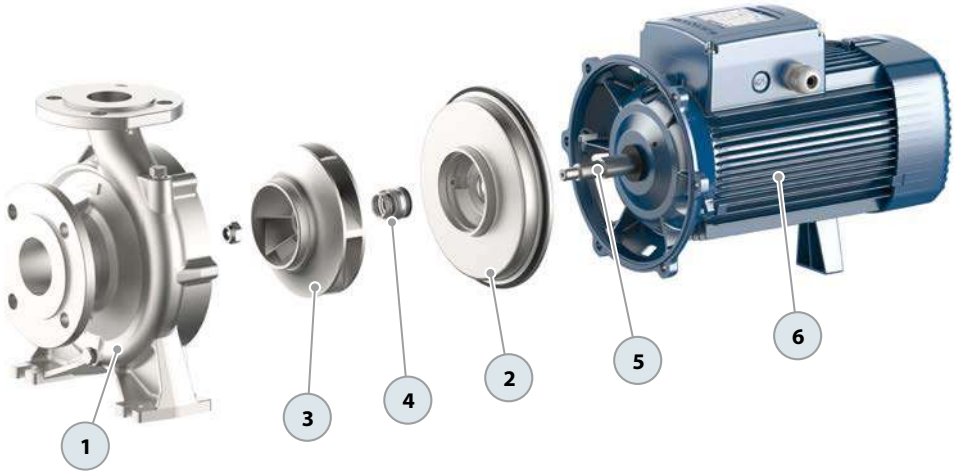
1	**Pump body**	Stainless steel **AISI 316**		
2	**Cover**	Stainless steel **AISI 316**		
3	**Impeller**	Stainless steel **AISI 316**		
4	**Mechanical seal**	Type	Shaft	Materials
		FN-24SV	Ø 24 mm	Silicon carbide / Silicon carbide / Viton
5	**Motor shaft**	Stainless steel **AISI 316L**		

6 **Electric motor**

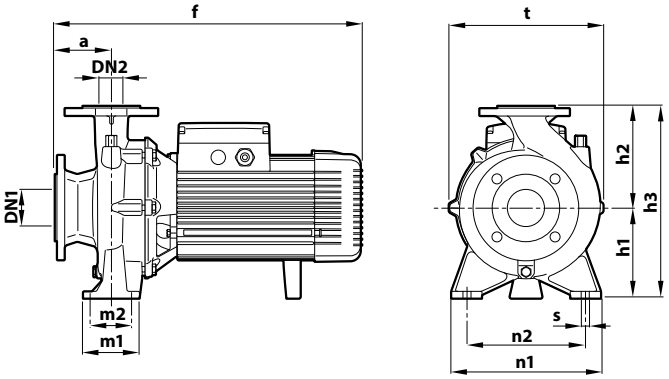
Three-phase 230/400 V - 50 Hz for 4 kW 400/690 V - 50 Hz 5.5 to 7.5 kW

※ The pumps are equipped with high-efficiency motors (IEC 60034-30-1) in class **IE3**

Continuous running duty **S1**



DIMENSIONS AND WEIGHT



ABSORPTION

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
F 50/160C-I	15.7 A	9.1 A	–	–
F 50/160B-I	–	–	12.3 A	7.1 A
F 50/160A-I	–	–	15.5 A	9.0 A
F 65/125C-I	17.3 A	10.0 A	–	–
F 65/125B-I	–	–	12.0 A	6.9 A
F 65/125A-I	–	–	16.5 A	9.5 A

TYPE	PORTS		DIMENSIONS mm											kg
Three-phase	**DN1**	**DN2**	a	f	h1	h2	h3	t	n1	n2	m1	m2	s	3~
F 50/160C-I	**65**	**50**	100	498	160	180	340	269	265	212	100	70	14	49.0
F 50/160B-I														55.0
F 50/160A-I				548										62.0
F 65/125C-I	**80**	**65**		520				291	280		125	95		58.2
F 65/125B-I														62.1
F 65/125A-I				570										68.0

Clean water

Industrial use



PERFORMANCE RANGE

- Flow rate up to **2900 l/min** (174 m³/h)
- Head up to **23.8 m**
- Power from **0.37** to **9.2 kW**

INSTALLATION AND USE

- Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.
- Water supply
- Pressurization
- Irrigation
- Water circulation in air conditioning systems
- Power washing systems
- Firefighting systems
- Industrial applications
- Agriculture applications

Installation is to be carried out in well-ventilated enclosed locations or otherwise protected from the weather.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors, **IE2** for single-phase motors, class F insulation and IP55 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar (PN10)**

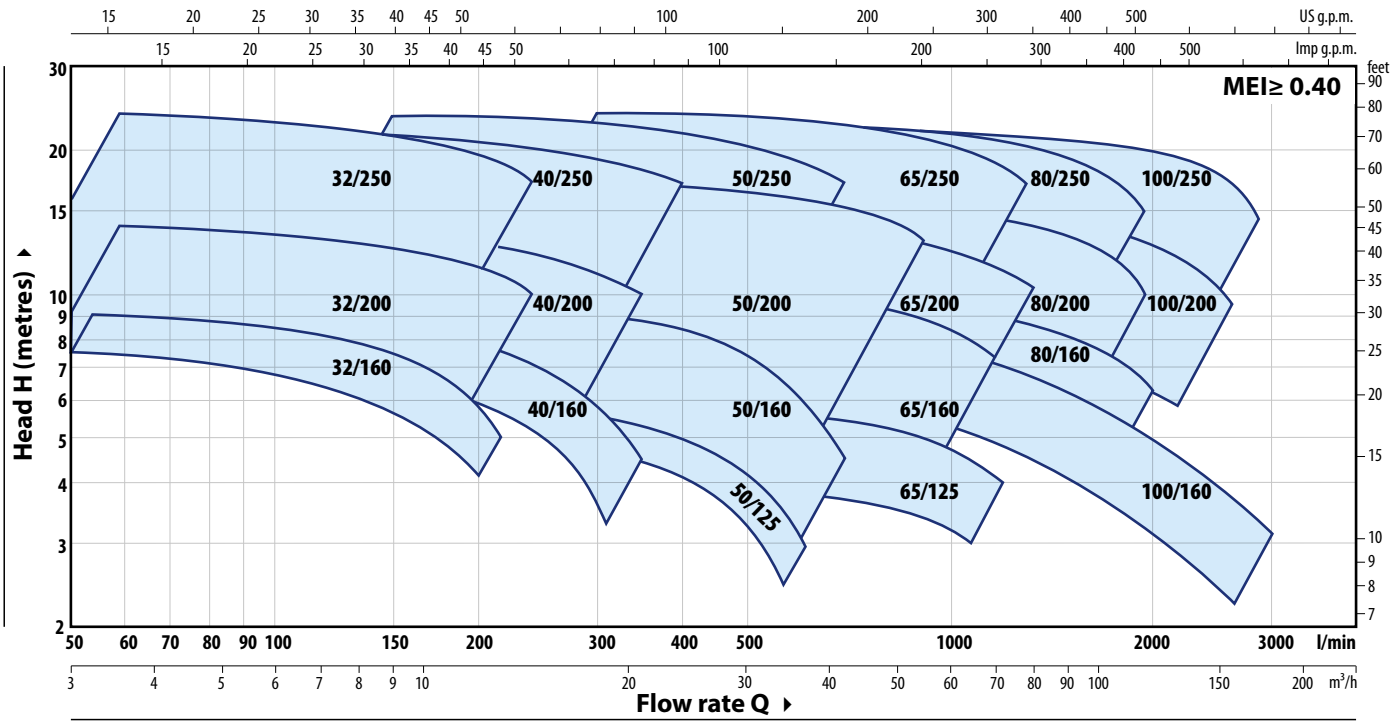
AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency
※ Handling of liquids with higher or lower temperatures
※ Adaptability to operate in high or low temperature environments

※ Counterflange KIT including screws, nuts and gaskets



PERFORMANCE RANGE – n= 1450 min^{-1} 50 Hz



PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz

TYPE	POWER (P2)		PERFORMANCE					
			Q	H	Q	H	Q	H
Three-ph.	kW	HP	l/min	m	l/min	m	l/min	m
F4-32/160B	0.37	0.5	50	7.5	165	5.6	200	4.5
F4-32/160A	0.37	0.5	50	9	175	6.8	225	5
F4-32/200B	0.75	1	50	12.5	230	9.5	250	9
F4-32/200A	1.1	1.5	50	14	240	10.8	250	10.5
F4-32/200BH	0.75	1	50	11.3	140	9.6	150	9.2
F4-32/200AH	0.75	1	50	13.8	150	11.5	160	11
F4-32/250C	1.1	1.5	50	18.4	220	15	220	15
F4-32/250B	1.5	2	50	21.7	250	17.4	250	17.4
F4-32/250A	2.2	3	50	23.8	270	18.7	270	18.7
F4-40/160B	0.37	0.5	50	7.5	220	6.0	320	3.5
F4-40/160A	0.55	0.75	50	9	245	7.1	350	4.5
F4-40/200B	0.75	1	50	11.5	280	8.9	350	7
F4-40/200A	1.1	1.5	50	13.8	310	10.9	350	10
F4-40/250C	1.1	1.5	50	15.5	320	12.4	400	10
F4-40/250B	1.5	2	50	17.5	330	14.2	400	12
F4-40/250A	2.2	3	50	22	380	17.5	400	17
F4-50/125B	0.55	0.75	150	5	420	4.0	600	2
F4-50/125A	0.55	0.75	150	6	450	4.8	600	3
F4-50/160B	0.75	1	150	8	440	6.5	650	3.8
F4-50/160A	1.1	1.5	150	9.3	460	7.8	700	4.5
F4-50/200C	1.5	2	200	11	660	9.3	850	7.5
F4-50/200B	2.2	3	200	13	720	10.9	850	9.5
F4-50/200A	2.2	3	200	15	770	12.8	900	11.2
F4-50/200AR	3	4	200	17	800	14.5	900	13.2
F4-50/250D	1.1	1.5	150	12.5	425	10.1	650	5
F4-50/250C	1.5	2	150	14	450	11.2	700	5
F4-50/250B	2.2	3	150	18	510	14.6	700	10.5
F4-50/250A	2.2	3	150	20	550	16.3	700	13
F4-50/250AR	3	4	150	23.5	570	19.9	700	17

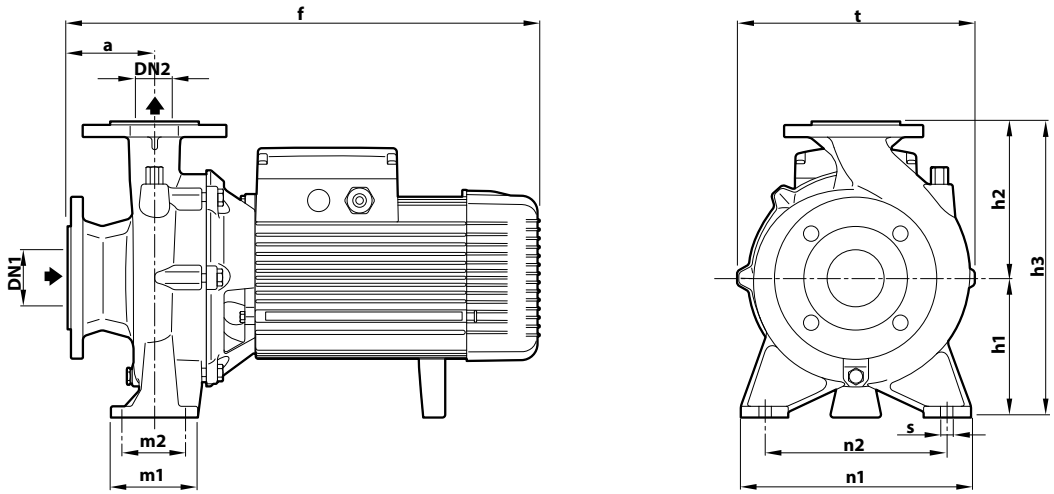
TYPE	POWER (P2)		PERFORMANCE					
			Q	H	Q	H	Q	H
Three-ph.	kW	HP	l/min	m	l/min	m	l/min	m
F4-65/125B	0.75	1	300	4.7	900	3.8	1100	3
F4-65/125A	1.1	1.5	300	5.7	1000	4.7	1200	4
F4-65/160C	1.1	1.5	300	8	910	6.7	1100	5.5
F4-65/160B	1.5	2	300	9.1	950	7.6	1200	5.7
F4-65/160A	2.2	3	300	10.1	990	8.5	1200	7
F4-65/200A	2.2	3	300	12	1100	9.6	1250	8.5
F4-65/200AR	3	4	300	14	1140	11.2	1300	10
F4-65/250B	4	5.5	200	21.8	980	18.8	1250	15.5
F4-65/250A	5.5	7.5	200	23.5	1000	20.6	1300	17
F4-80/160D	1.5	2	300	6.3	1400	4.8	2000	2.5
F4-80/160C	2.2	3	300	7.5	1480	5.7	2000	3.8
F4-80/160B	2.2	3	300	8.8	1580	6.8	2000	5
F4-80/160A	3	4	300	10	1660	7.7	2000	6.2
F4-80/200B	4	5.5	300	14	1540	10.9	1800	9
F4-80/200A	5.5	7.5	300	15.5	1625	12.6	1900	10.5
F4-80/250B	5.5	7.5	300	19.5	1500	16.1	1800	13.5
F4-80/250A	7.5	10	300	22	1400	19.9	1950	15
F4-100/160B	2.2	3	400	8.3	1950	5.7	2600	3.5
F4-100/160A	3	4	400	10	2060	6.9	2800	4.7
F4-100/200C	4	5.5	400	12.7	1850	9.6	2300	7
F4-100/200B	5.5	7.5	400	14.2	1950	10.9	2400	8.5
F4-100/200A	5.5	7.5	400	15.8	2050	12.6	2600	9.5
F4-100/250B	7.5	10	400	18.5	1950	15.9	2600	11.5
F4-100/250A	9.2	12.5	400	22	2100	19.3	2900	13.5

Q = Flow Rate

H = Total manometric head

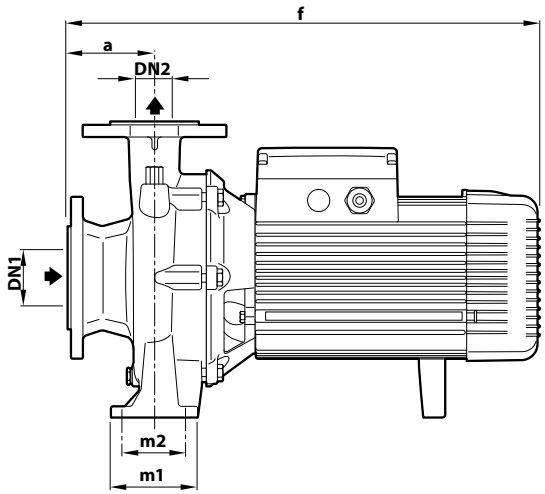
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

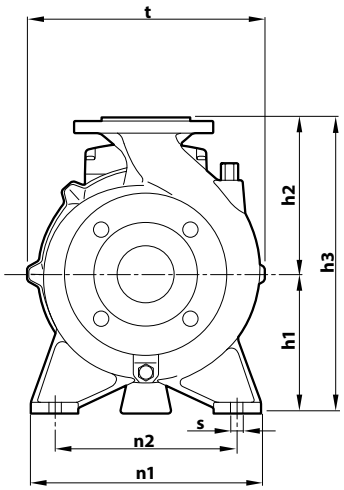
DIMENSIONS AND WEIGHT



TYPE	PORTS		DIMENSIONS mm										kg
Three-phase	**DN1**	**DN2**	a	f	h3	h1	h2	t	n2	n1	m1	m2	s	
F4-32/160B	**50**	**32**	80	412	292	132	160	242	190	240	100	70	14	31.2
F4-32/160A														31.2
F4-32/200B				478	340	160	180	270			95			43.0
F4-32/200A														43.5
F4-32/200BH														37.9
F4-32/200AH														42.4
F4-32/250C			100	531	405	180	225	330	250	320	125	95		64.1
F4-32/250B														63.1
F4-32/250A				581										68.7
F4-40/160B	**65**	**40**	80	412	292	132	160	240	190	240	100	70	14	32.5
F4-40/160A														32.9
F4-40/200B			100	498	340	160	180	275	212	265				46.0
F4-40/200A														46.2
F4-40/250C				531	405	180	225	328	250	320	125	95		60.1
F4-40/250B														60.1
F4-40/250A				581										72.4
F4-50/125B	**65**	**50**	100	431	292	132	160	242	190	240	100	70	14	32.2
F4-50/125A														32.2
F4-50/160B				498	340	160	180	269	212	265				44.4
F4-50/160A														44.6
F4-50/200C				538	360		200	316						59.2
F4-50/200B				589										68.3
F4-50/200A														68.5
F4-50/200AR														68.8
F4-50/250D				531	405	180	225	337	250	320	125	95		59.9
F4-50/250C														63.3
F4-50/250B				581										68.7
F4-50/250A														69.1
F4-50/250AR														78.0
F4-65/125B	**80**	**65**	100	520	340	160	180	291	212	280	125	95	14	50.2
F4-65/125A														50.4
F4-65/160C				542	360		200	300						55.0
F4-65/160B														58.7
F4-65/160A				592										65.0
F4-65/200A				595	405	180	225	340	250	320				72.0
F4-65/200AR														78.4
F4-65/250B				680	450	200	250	373	280	360	160	120	18	111.2
F4-65/250A														139.6

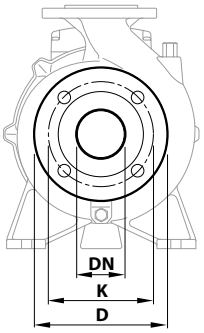
DIMENSIONS AND WEIGHT





TYPE	PORTS		DIMENSIONS mm										kg
Three-phase	**DN1**	**DN2**	a	f	h3	h1	h2	t	n2	n1	m1	m2	s	
F4-80/160D	**100**	**80**	125	574	405	180	225	330	250	320	125	95	14	66.0
F4-80/160C				624										67.3
F4-80/160B														70.0
F4-80/160A														76.4
F4-80/200B				709	430		250	360	280	345				100.0
F4-80/200A														130.2
F4-80/250B				727	480	200	280	405	315	400	160	120	18	123.0
F4-80/250A														137.6
F4-100/160B	**125**	**100**	125	638	480	200	280	362	280	360	160	120	18	96.2
F4-100/160A														97.0
F4-100/200C				711				391						124.1
F4-100/200B														116.0
F4-100/200A														122.0
F4-100/250B			140	747	505	225		422	315	400				143.0
F4-100/250A														156.0

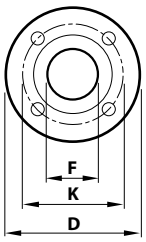
PORT FLANGES



DN FLANGE mm	D mm	K mm	HOLES N°	HOLES Ø (mm)
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	
100	220	180		
125	250	210		

COUNTER-FLANGE

(CAN BE ORDERED SEPARATELY)



DN FLANGE mm	F COUNTER-FLANGE	D mm	K mm	HOLES N°	HOLES Ø (mm)
32	1¼"	140	100	4	18
40	1½"	150	110		
50	2"	165	125		
65	2½"	185	145		
80	3"	200	160	8	
100	4"	220	180		
125	5"	250	210		

ABSORPTION

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
F4-32/160B	1.9 A	1.1 A
F4-32/160A	2.2 A	1.3 A
F4-32/200B	3.6 A	2.1 A
F4-32/200A	4.0 A	2.3 A
F4-32/200BH	3.3 A	1.9 A
F4-32/200AH	3.5 A	2.0 A
F4-32/250C	5.7 A	3.3 A
F4-32/250B	7.3 A	4.2 A
F4-32/250A	9.5 A	5.5 A
F4-40/160B	1.7 A	1.0 A
F4-40/160A	2.8 A	1.6 A
F4-40/200B	3.6 A	2.1 A
F4-40/200A	4.2 A	2.4 A
F4-40/250C	5.5 A	3.2 A
F4-40/250B	6.1 A	3.5 A
F4-40/250A	9.5 A	5.5 A
F4-50/125B	2.2 A	1.3 A
F4-50/125A	2.6 A	1.5 A
F4-50/160B	3.3 A	1.9 A
F4-50/160A	4.2 A	2.4 A
F4-50/200C	6.1 A	3.5 A
F4-50/200B	8.0 A	4.6 A
F4-50/200A	9.0 A	5.2 A
F4-50/200AR	10.6 A	6.1 A
F4-50/250D	4.8 A	2.8 A
F4-50/250C	5.9 A	3.4 A
F4-50/250B	9.9 A	5.7 A
F4-50/250A	11.1 A	6.4 A
F4-50/250AR	11.8 A	6.8 A
F4-65/125B	3.6 A	2.1 A
F4-65/125A	4.5 A	2.6 A
F4-65/160C	5.2 A	3.0 A
F4-65/160B	5.9 A	3.4 A
F4-65/160A	7.8 A	4.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
F4-65/200A	9.0 A	5.2 A
F4-65/200AR	11.8 A	6.8 A
F4-65/250B	17.3 A	10.0 A
F4-65/250A	21.7 A	13.5 A
F4-80/160D	5.9 A	3.4 A
F4-80/160C	10.0 A	5.8 A
F4-80/160B	10.2 A	5.9 A
F4-80/160A	10.6 A	6.1 A
F4-80/200B	13.8 A	8.0 A
F4-80/200A	18.2 A	10.5 A
F4-80/250B	20.8 A	12.5 A
F4-80/250A	25.6 A	14.8 A
F4-100/160B	9.0 A	5.2 A
F4-100/160A	13.0 A	7.5 A
F4-100/200C	14.2 A	8.2 A
F4-100/200B	17.8 A	10.3 A
F4-100/200A	20.8 A	12.0 A
F4-100/250B	26.8 A	15.5 A
F4-100/250A	34.1 A	19.7 A

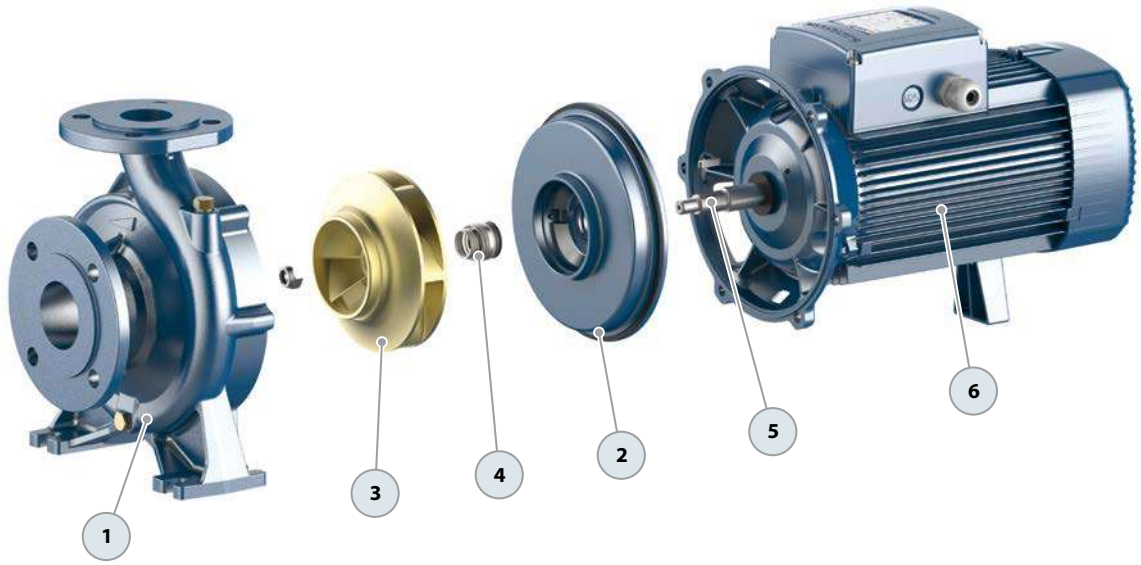
MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron, fitted with inlet and outlet flanged ports	
2	**Cover**	Cast iron	
3	**Impeller**	Brass	for F4-32/160 - 32/200 - 40/160 - 40/200 - 50/125 - 50/160
		Cast iron	for F4-32/250 - 40/250 - 50/200 - 50/250 - 65/125 - 65/160 - 65/200 - 65/250 F4-80/160 - 80/200 - 80/250 - 100/160 - 100/200 - 100/250

4 Mechanical seal

Water pump	Seal	Shaft	Materials
F4-32/160 F4-40/160 F4-50/125	**FN-20**	Ø 20 mm	Graphite / Ceramic / NBR
F4-32/200 F4-40/200 F4-50/160 F4-65/125	**FN-24**	Ø 24 mm	Graphite / Ceramic / NBR
F4-50/200 F4-65/200 F4-65/160 F4-80/160 F4-100/160	**FN-32 NU**	Ø 32 mm	Graphite / Ceramic / NBR
F4-32/250 F4-40/250 F4-50/250	**FN-38**	Ø 38 mm	Graphite / Ceramic / NBR
F4-65/250 F4-80/200 F4-100/200	**FN-40 NU**	Ø 40 mm	Graphite / Ceramic / NBR
F4-80/250 F4-100/250	**FH-45 NU**	Ø 45 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**F4**: 4-pole three-phase 230/400 V - 50 Hz ※ The pumps are equipped with high-efficiency motors (IEC 60034-30-1) class **IE3** Continuous running duty **S1**



FG EN 733" standardised centrifugal pumps

Clean water
Civil use
Industrial use
Agricultural use



PERFORMANCE RANGE

- Flow rate up to **5750 l/min** (345 m³/h)
- Head up to **98 m**

INSTALLATION AND USE

Standardized centrifugal pumps equipped with a support structure and built according to EN733 standard.

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.

- **Water supply**
- **Pressurization**
- **Irrigation**
- **Firefighting systems**
- **Industrial applications**
- **Agriculture applications**
- **Civil, industrial, and agricultural applications**
- **Air conditioning, cooling, heating, and circulation systems**

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Maximum pressure in the pump body **10 bar** (PN10)

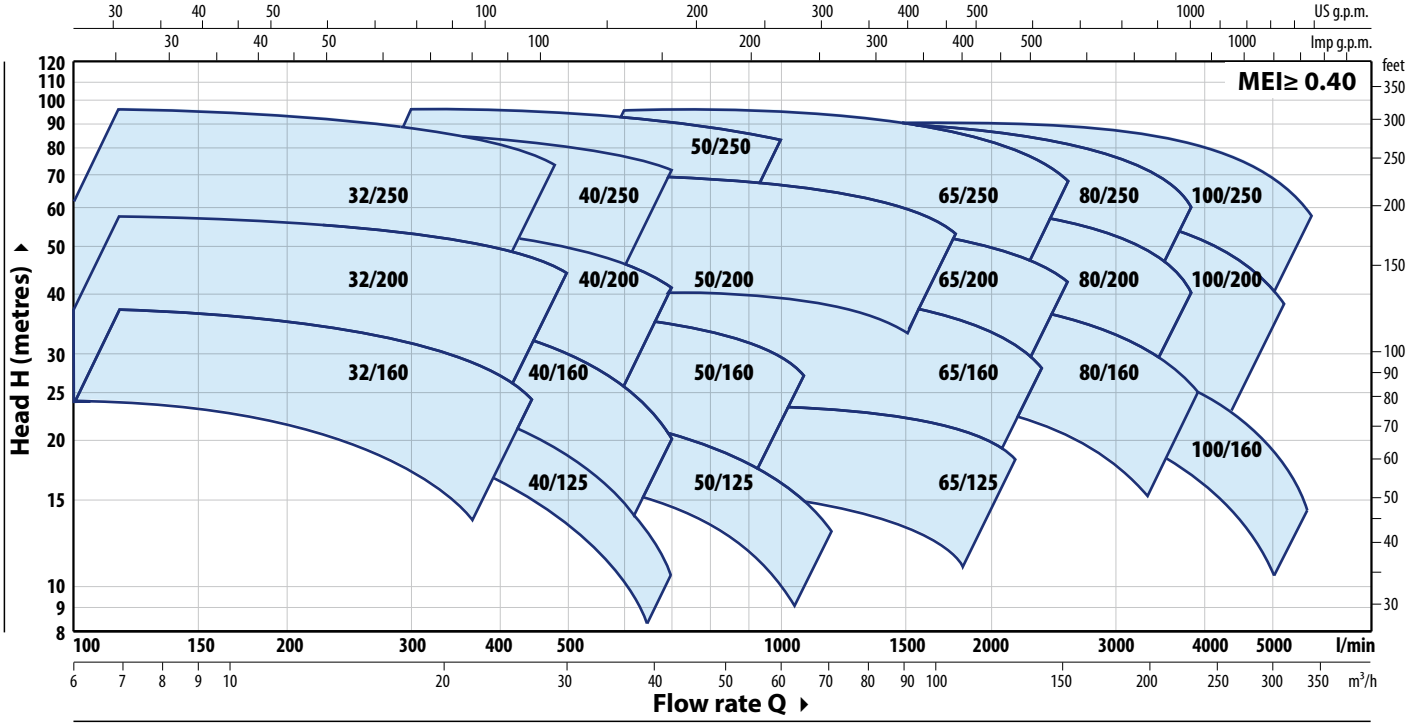
AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Pumps for motors with 60 Hz frequency
※ Handling of liquids with higher or lower temperatures
※ Adaptability to operate in high or low temperature environments

※ Counterflange KIT including screws, nuts and gaskets



PERFORMANCE RANGE – n= 2900 min^{-1}



PERFORMANCE DATA – n= 2900 min^{-1}

TYPE	MOTOR TO BE COUPLED		PERFORMANCE n= 2900 min^{-1}					
	kW	HP	Q m³/h	H m	Q m³/h	H m	Q m³/h	H m
FG2-32/160C	1.5	2	6	24	16	19.8	21	14
FG2-32/160B	2.2	3	6	30	18	23.6	24	17
FG2-32/160A	3	4	6	37	20.4	30.2	27	24
FG2-32/200C	4	5.5	6	44	27	31.5	27	31.5
FG2-32/200B	5.5	7.5	6	51	28	37.7	30	36
FG2-32/200A	7.5	10	6	57	29	45.3	30	44
FG2-32/200BH	3	4	6	45	17	38.4	18	37
FG2-32/200AH	4	5.5	6	55	18	46.1	19.2	44
FG2-32/250C	9.2	12.5	6	75	28	58.6	27	60
FG2-32/250B	11	15	6	87	32	67.6	30	70
FG2-32/250A	15	20	6	97	35	73.6	30	80
FG2-40/125C	1.1	1.5	6	16	23	12.0	33	6
FG2-40/125B	1.5	2	6	20.5	26	15.1	36	9
FG2-40/125A	2.2	3	6	26	29	19.3	42	10
FG2-40/160C	2.2	3	6	27	25	22.0	36	14
FG2-40/160B	3	4	6	32	27	25.9	36	20
FG2-40/160A	4	5.5	6	38	30	30.2	42	20
FG2-40/200B	5.5	7.5	6	47	33	36.3	42	28
FG2-40/200A	7.5	10	6	55	36	46.2	42	41
FG2-40/250C	9.2	12.5	6	64	39	49.9	42	47
FG2-40/250B	11	15	6	71	40	56.8	42	55
FG2-40/250A	15	20	6	88	42	72.0	42	72
FG2-50/125C	2.2	3	18	17.5	49	13.0	72	6
FG2-50/125B	3	4	18	20.7	51	15.6	72	9
FG2-50/125A	4	5.5	18	23.5	55	18.4	72	13
FG2-50/160C	4	5.5	18	27	48	20.7	60	16
FG2-50/160B	5.5	7.5	18	32	52	26.3	72	18
FG2-50/160A	7.5	10	18	37	54	32.1	81	20
FG2-50/200C	11	15	24	44	82	37.0	102	30
FG2-50/200B	15	20	24	52	86	43.7	102	38
FG2-50/200A	18.5	25	24	61	91	52.0	108	45
FG2-50/200AR	22	30	24	69	96	58.2	108	53
FG2-50/250D	9.2	12.5	18	51	53	37.6	54	37
FG2-50/250C	11	15	18	59	60	43.0	60	43
FG2-50/250B	15	20	18	72	60	59.0	60	59
FG2-50/250A	18.5	25	18	85	60	73.0	60	73
FG2-50/250AR	22	30	18	95	60	83.0	60	83

TYPE	MOTOR TO BE COUPLED		PERFORMANCE n= 2900 min^{-1}					
	kW	HP	Q m³/h	H m	Q m³/h	H m	Q m³/h	H m
FG2-65/125C	4	5.5	36	16	96	12.6	108	11
FG2-65/125B	5.5	7.5	36	18	101	15.4	120	13
FG2-65/125A	7.5	10	36	23	108	20.9	132	18
FG2-65/160C	9.2	12.5	36	32	108	27.0	132	22
FG2-65/160B	11	15	36	36.5	113	30.3	144	23
FG2-65/160A	15	20	36	40.5	114	35.0	144	28
FG2-65/200B	15	20	12	44	129	34.4	144	30.5
FG2-65/200A	18.5	25	12	50	143	38.4	150	36.5
FG2-65/200AR	22	30	12	57	136	47.0	156	42
FG2-65/250C	30	40	24	76	111	64.7	141	53
FG2-65/250B	37	50	24	87	120	74.3	150	62
FG2-65/250A	45	60	24	95	126	80.7	156	68
FG2-80/160D	11	15	30	25	171	19.1	240	10
FG2-80/160C	15	20	30	30	178	23.4	240	15
FG2-80/160B	18.5	25	30	35	185	27.7	240	20
FG2-80/160A	22	30	30	40	190	32.1	240	25
FG2-80/200B	30	40	30	56	166	46.5	219	34.5
FG2-80/200A	37	50	30	62	180	53.0	234	40
FG2-80/250B	45	60	36	77	170	65.9	216	54
FG2-80/250A	55	75	36	88.5	180	77.3	234	60
FG2-100/160C	15	20	60	30	220	20.3	300	12
FG2-100/160B	18.5	25	60	34	234	23.1	312	14.5
FG2-100/160A	22	30	60	38	250	26.4	330	17.5
FG2-100/200C	30	40	48	51	216	39.6	279	28
FG2-100/200B	37	50	48	57	228	44.5	294	33
FG2-100/200A	45	60	48	63	245	50.6	315	38
FG2-100/250B	55	75	48	75	250	62.0	309	48
FG2-100/250A	75	100	48	89	270	76.0	345	58

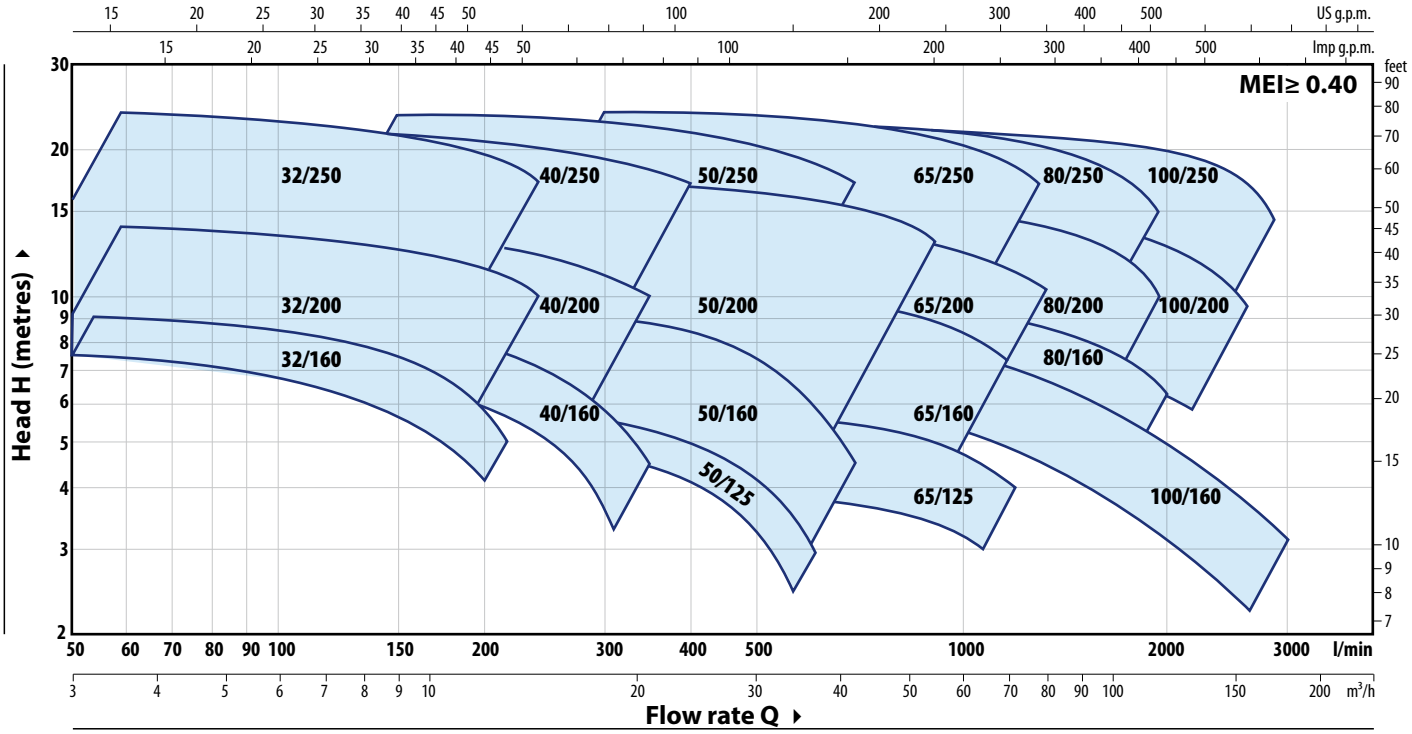
Q = Flow Rate

H = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

FG4

PERFORMANCE RANGE – n= 1450 min^{-1}



PERFORMANCE DATA – n= 1450 min^{-1}

TYPE	MOTOR TO BE COUPLED		PERFORMANCE n= 1450 min^{-1}					
	kW	HP	Q m³/h	H m	Q m³/h	H m	Q m³/h	H m
FG4-32/160C	0.25	0.33	**3**	6	**8**	4.8	**10.5**	3.5
FG4-32/160B	0.37	0.5	**3**	7.5	**9.9**	5.6	**12**	4.5
FG4-32/160A	0.37	0.5	**3**	9	**10.5**	6.8	**13.5**	5
FG4-32/200C	0.55	0.75	**3**	11	**12**	8.5	**13.5**	8
FG4-32/200B	0.75	1	**3**	12.5	**13.8**	9.5	**15**	9
FG4-32/200A	1.1	1.5	**3**	14	**14.4**	10.8	**15**	10.5
FG4-32/200BH	0.75	1	**3**	11.3	**8.4**	9.6	**9**	9.2
FG4-32/200AH	0.75	1	**3**	13.8	**9**	11.5	**9.6**	11
FG4-32/250C	1.1	1.5	**3**	18.4	**13.5**	14.8	**13.2**	15
FG4-32/250B	1.5	2	**3**	21.7	**15**	17.4	**15**	17.4
FG4-32/250A	2.2	3	**3**	23.8	**16.2**	18.7	**16.2**	18.7
FG4-40/160C	0.37	0.5	**3**	6.5	**12**	5.5	**18**	3.5
FG4-40/160B	0.37	0.5	**3**	7.5	**13.2**	6.0	**19.2**	3.5
FG4-40/160A	0.55	0.75	**3**	9	**14.7**	7.1	**21**	4.5
FG4-40/200B	0.75	1	**3**	11.5	**16.8**	8.9	**21**	7
FG4-40/200A	1.1	1.5	**3**	13.8	**18.6**	10.9	**21**	10
FG4-40/250C	1.1	1.5	**3**	15.5	**19.2**	12.4	**24**	10
FG4-40/250B	1.5	2	**3**	17.5	**19.8**	14.2	**24**	12
FG4-40/250A	2.2	3	**3**	22	**22.8**	17.5	**24**	17
FG4-50/125C	0.37	0.5	**9**	4	**24.5**	3.3	**36**	1.5
FG4-50/125B	0.55	0.75	**9**	5	**25.2**	4.0	**36**	2
FG4-50/125A	0.55	0.75	**9**	6	**27**	4.8	**36**	3
FG4-50/160C	0.55	0.75	**9**	7	**25**	5	**30**	4
FG4-50/160B	0.75	1	**9**	8	**26.4**	6.5	**39**	3.8
FG4-50/160A	1.1	1.5	**9**	9.3	**27.6**	7.8	**42**	4.5
FG4-50/200C	1.5	2	**12**	11	**39.6**	9.3	**51**	7.5
FG4-50/200B	2.2	3	**12**	13	**43.2**	10.9	**51**	9.5
FG4-50/200A	2.2	3	**12**	15	**46.2**	12.8	**54**	11.2
FG4-50/200AR	3	4	**12**	17	**48**	14.5	**54**	13.2
FG4-50/250D	1.1	1.5	**9**	12.5	**25.5**	10.1	**39**	5
FG4-50/250C	1.5	2	**9**	14	**27**	11.2	**42**	5
FG4-50/250B	2.2	3	**9**	18	**30.6**	14.6	**42**	10.5
FG4-50/250A	2.2	3	**9**	20	**33**	16.3	**42**	13
FG4-50/250AR	3	4	**9**	23.5	**34.2**	19.9	**42**	17

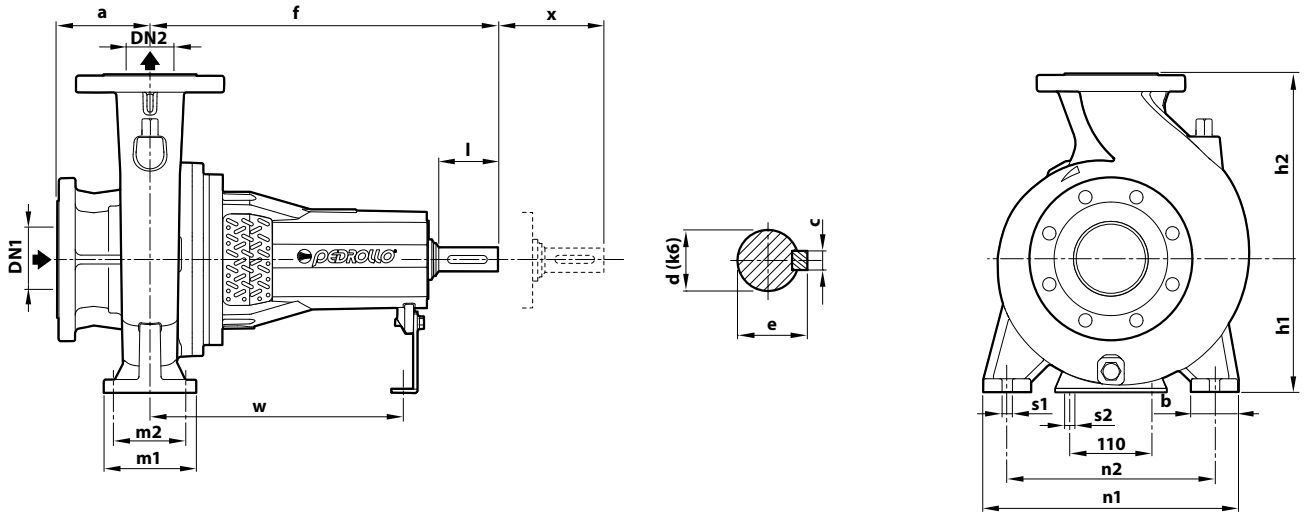
TYPE	MOTOR TO BE COUPLED		PERFORMANCE n= 1450 min^{-1}					
	kW	HP	Q m³/h	H m	Q m³/h	H m	Q m³/h	H m
FG4-65/125C	0.55	0.75	**18**	4	**48**	3.2	**5.4**	2.5
FG4-65/125B	0.75	1	**18**	4.7	**54**	3.8	**66**	3
FG4-65/125A	1.1	1.5	**18**	5.7	**60**	4.7	**72**	4
FG4-65/160C	1.1	1.5	**18**	8	**54.6**	6.7	**66**	5.5
FG4-65/160B	1.5	2	**18**	9.1	**57**	7.6	**72**	5.7
FG4-65/160A	2.2	3	**18**	10.1	**59.4**	8.5	**72**	7
FG4-65/200B	2.2	3	**6**	10.7	**64.5**	8.5	**72**	7.3
FG4-65/200A	2.2	3	**18**	12	**66**	9.6	**75**	8.5
FG4-65/200AR	3	4	**18**	14	**68.4**	11.2	**78**	10
FG4-65/250C	3	4	**12**	19	**55.5**	16.2	**70.5**	13
FG4-65/250B	4	5.5	**12**	21.8	**58.8**	18.8	**75**	15.5
FG4-65/250A	5.5	7.5	**12**	23.5	**60**	20.6	**78**	17
FG4-80/160D	1.5	2	**18**	6.3	**84**	4.8	**120**	2.5
FG4-80/160C	2.2	3	**18**	7.5	**88.8**	5.7	**120**	3.8
FG4-80/160B	2.2	3	**18**	8.8	**94.8**	6.8	**120**	5
FG4-80/160A	3	4	**18**	10	**99.6**	7.7	**120**	6.2
FG4-80/200B	4	5.5	**18**	14	**92.4**	10.9	**108**	9
FG4-80/200A	5.5	7.5	**18**	15.5	**97.5**	12.6	**114**	10.5
FG4-80/250B	5.5	7.5	**18**	19.5	**90**	16.1	**108**	13.5
FG4-80/250A	7.5	10	**18**	22	**84**	19.9	**117**	15
FG4-100/160C	2.2	3	**24**	7.5	**110**	5	**144**	3
FG4-100/160B	2.2	3	**24**	8.3	**117**	5.7	**156**	3.5
FG4-100/160A	3	4	**24**	10	**124**	6.9	**168**	4.7
FG4-100/200C	4	5.5	**24**	12.7	**111**	9.6	**138**	7
FG4-100/200B	5.5	7.5	**24**	14.2	**117**	10.9	**144**	8.5
FG4-100/200A	5.5	7.5	**24**	15.8	**123**	12.6	**156**	9.5
FG4-100/250B	7.5	10	**24**	18.5	**117**	15.9	**156**	11.5
FG4-100/250A	9.2	12.5	**24**	22	**126**	19.3	**174**	13.5

Q = Flow Rate

H = Total manometric head

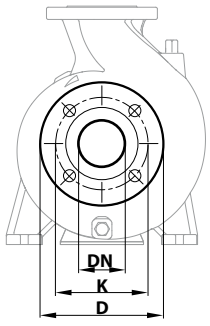
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS AND WEIGHT



TYPE	PORTS		DIMENSIONS mm																kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	l	d (k6)	c	e	
FG 32/160	**50**	**32**	80	360	132	160	55	96	71	240	190	14	14	260	100	50	24	8	27	33.0
FG 32/200					160	180	55	95												38.1
FG 32/200H					160	180	55													36.9
FG 32/250			100		180	225	65	125	95	320	250									53.0
FG 40/125	**65**	**40**	80		112	140	50	100	70	210	160									30.4
FG 40/160					132	160				240	190									34.1
FG 40/200			100		160	180	55			265	212									40.2
FG 40/250					180	225	65	125	95	320	250									59.2
FG 50/125	**65**	**50**			132	160	50	100	70	240	190									33.0
FG 50/160					160	180	55			265	212									38.3
FG 50/200					160	200	50													50.3
FG 50/250					180	225	65	125	95	320	250									57.0
FG 65/125	**80**	**65**			160	180	65			280	212									45.2
FG 65/160					160	200	65													48.0
FG 65/200					180	225	65			320	250									55.1
FG 65/250				470	200	250	80	160	120	360	280	18		340		80	32	10	35	82.4
FG 80/160	**100**	**80**	125	360	180	225	65	125	95	320	250	14		260	140	50	24	8	27	53.0
FG 80/200				470	180	250	65			345	280			340		80	32	10	35	72.0
FG 80/250					200	280	80	160	120	400	315	18								91.1
FG 100/160	**125**	**100**		360	200	280	80			360	280			260		50	24	8	27	76.3
FG 100/200				470	200	280	80							340		80	32	10	35	82.1
FG 100/250			140		225	280	80			400	315									96.0

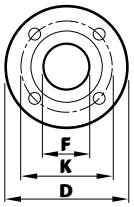
PORT FLANGES



DN FLANGE	D	K	HOLES	
mm	mm	mm	N°	Ø (mm)
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	
100	220	180		
125	250	210		

COUNTER-FLANGE

(CAN BE ORDERED SEPARATELY)



DN FLANGE	F	D	K	HOLES	
mm	COUNTER-FLANGE	mm	mm	N°	Ø (mm)
32	1¼"	140	100	4	18
40	1½"	150	110		
50	2"	165	125		
65	2½"	185	145		
80	3"	200	160	8	
100	4"	220	180		
125	5"	250	210		

FLUID SOLAR 4" Solar submersible pumps

Clean water
Domestic use
Agricultural use



INSTALLATION AND USE

FLUID SOLAR pumps are engineered to draw clean water from wells using power from photovoltaic modules.

They feature a high-efficiency motor with integrated electronic control that adjusts the motor's speed based on the solar energy available.

This ensures optimal performance: high speed and efficiency in sunny conditions, and lower speed with reduced efficiency on cloudy days.

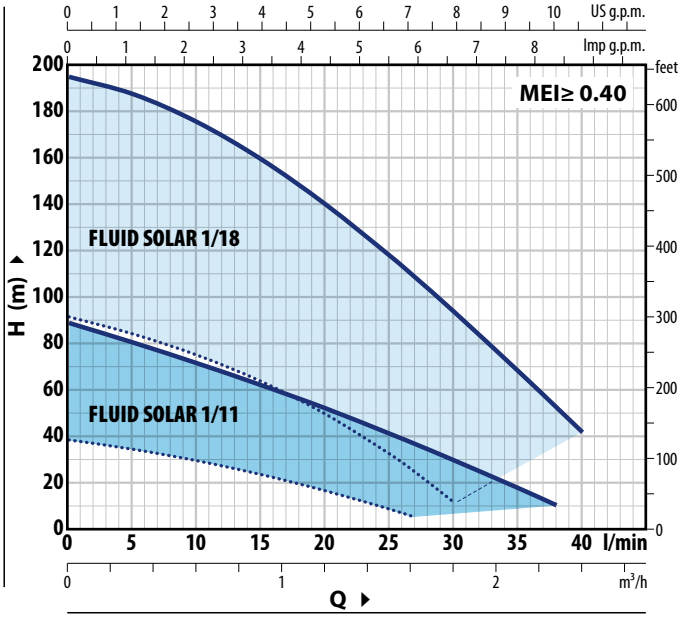
These pumps utilize a high-efficiency, oil-bathed, permanent magnet motor for enhanced performance and durability.

APPLICATION LIMITS

- Liquid temperature up to **+35 °C**
- Maximum sand content **200 g/m³**
- Capable of operating at depths of up to **100 metres** below water level

PATENTS - TRADEMARKS - DESIGNS

- Patent No. 0001413386, EP2419642
- Patent No. EP2300717
- Patent No. 102021000030575
- FLUID SOLAR® Registered trademark No. 001516301



FLUID SOLAR 1/11

POWER CONSUMPTION P1 **750 W**

Q		0	0.3	0.6	0.9	1.2	1.5	1.6	1.8	2.1	2.3
m³/h		0	0.3	0.6	0.9	1.2	1.5	1.6	1.8	2.1	2.3
l/min		**0**	**5**	**10**	**15**	**20**	**25**	**27**	**30**	**35**	**38**
H metres	▬	89	80.5	71.5	62	52	41	36.5	29.5	17.5	10
	••••	38	34	29.1	23.2	16.3	8.5	5			

Performance with photovoltaic modules for a total rated power of 980 Wp

FLUID SOLAR 1/18

POWER CONSUMPTION P1 **1500 W**

Q		0	0.3	0.6	1.2	1.5	1.62	1.8	2.1	2.4
m³/h		0	0.3	0.6	1.2	1.5	1.62	1.8	2.1	2.4
l/min		**0**	**5**	**10**	**20**	**25**	**27**	**30**	**35**	**40**
H metres	▬	194.5	187	175	139.5	117.5	108	93.5	68	41.5
	••••	91.5	84	74.8	49.4	32.3	24.5	11.5		

Performance with photovoltaic modules for a total nominal power of 1960 Wp

▬ **Performance under 1000 W/m² Solar Irradiation and 100 VDC No-load Voltage from Photovoltaic Modules**

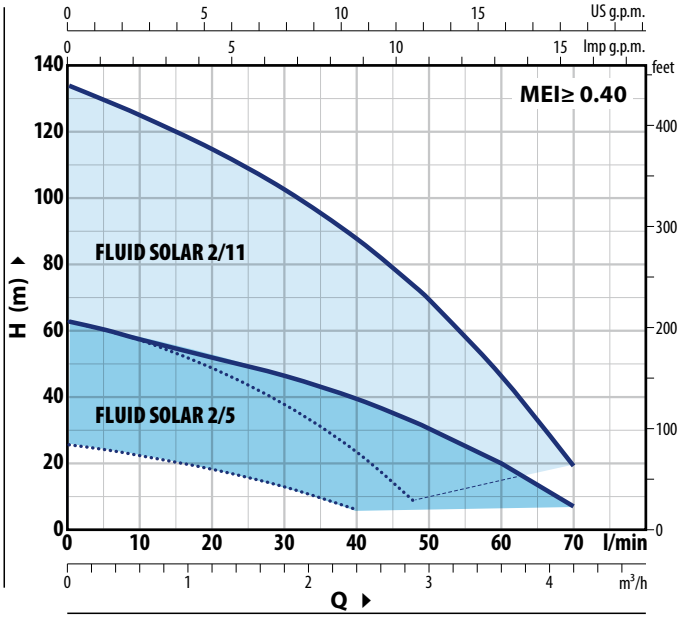
•••• **Performance under 300 W/m² Solar Irradiation and 70 VDC No-load Voltage from Photovoltaic Modules**

The performance curves shown above are based on photovoltaic modules positioned towards the SOUTH (or NORTH for installations in the Southern Hemisphere). The angle of inclination is adjusted according to the latitude of the installation site to optimize performance.

 ※ **Start of production 06.2024** ※

CURVES AND PERFORMANCE DATA

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.



FLUID SOLAR 2/5

POWER CONSUMPTION P1 **750 W**

Q	m³/h	0	0.3	0.6	1.2	1.8	2.4	2.88	3	3.6	4.2
	l/min	**0**	**5**	**10**	**20**	**30**	**40**	**48**	**50**	**60**	**70**
H metres	▬	63	60.5	57.5	52	46.5	39.5	32.5	30.5	20	7
	••••	26	24.5	22.6	18.4	13	6				

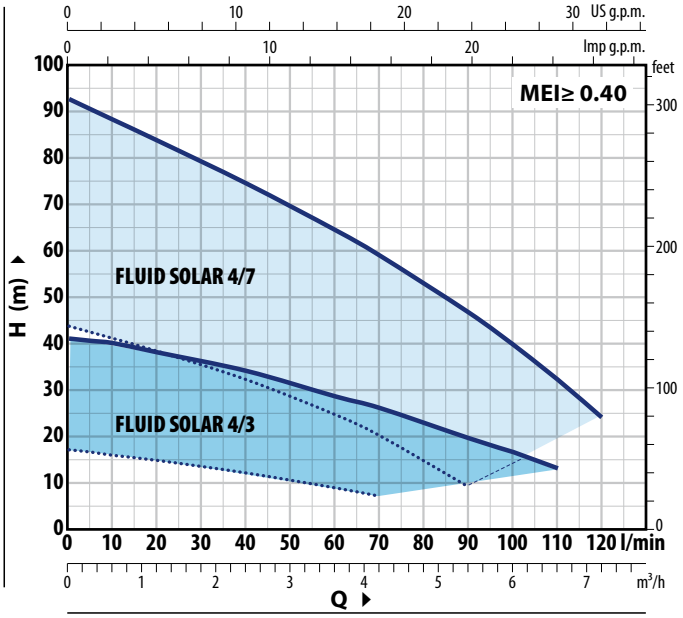
Performance with photovoltaic modules for a total rated power of 980 Wp

FLUID SOLAR 2/11

POWER CONSUMPTION P1 **1500 W**

Q	m³/h	0	0.3	0.6	1.2	1.8	2.4	2.88	3	3.6	4.2
	l/min	**0**	**5**	**10**	**20**	**30**	**40**	**48**	**50**	**60**	**70**
H metres	▬	134	129.5	125	115	102.5	88	73.5	69.5	47	19.5
	••••	63	60.5	57.4	49.3	38.1	23.2	8			

Performance with photovoltaic modules for a total nominal power of 1960 Wp



FLUID SOLAR 4/3

POWER CONSUMPTION P1 **750 W**

Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.2	5.4	6	6.6
	l/min	**0**	**5**	**10**	**20**	**40**	**60**	**70**	**90**	**100**	**110**
H metres	▬	41	40.5	40	38	34	28.5	26	19.5	16.5	13
	••••	17	16.5	15.8	14.7	12	8.8	7			

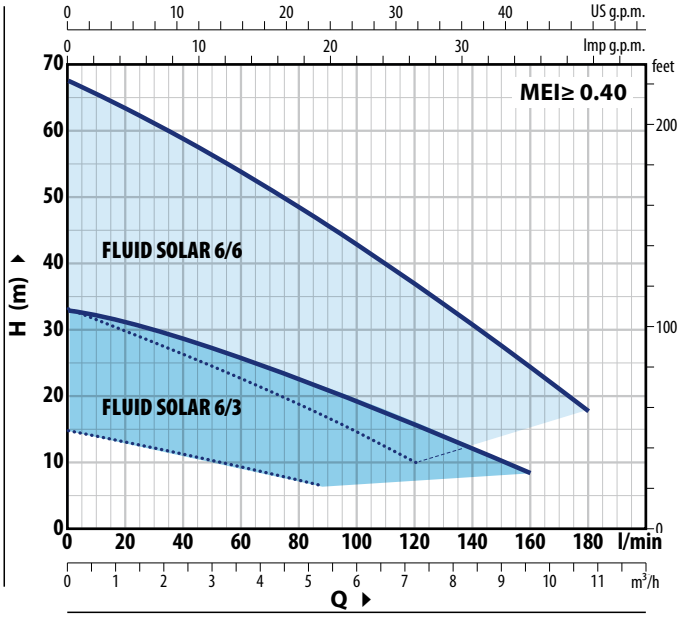
Performance with photovoltaic modules for a total rated power of 980 Wp

FLUID SOLAR 4/7

POWER CONSUMPTION P1 **1500 W**

Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.2	5.4	6	6.6	7.2
	l/min	**0**	**5**	**10**	**20**	**40**	**60**	**70**	**90**	**100**	**110**	**120**
H metres	▬	93	90.5	88.5	84	74.5	64.5	59	46.5	40	32	24
	••••	44	42.5	41.1	38.3	32.2	24.6	20.1	9			

Performance with photovoltaic modules for a total nominal power of 1960 Wp



FLUID SOLAR 6/3

POWER CONSUMPTION P1 **750 W**

Q	m³/h	0	0.3	1.2	2.4	3.6	4.8	5.4	6	7.2	7.2	8.4	9.6
	l/min	**0**	**5**	**20**	**40**	**60**	**80**	**90**	**100**	**120**	**120**	**140**	**160**
H metres	▬	33	32.5	31.5	29	26	22.5	20.5	19	15	15	11.5	8.5
	••••	15	14.5	12.8	11	9.4	7.5	6.5					

Performance with photovoltaic modules for a total rated power of 980 Wp

FLUID SOLAR 6/6

POWER CONSUMPTION P1 **1500 W**

Q	m³/h	0	0.3	1.2	2.4	3.6	4.8	5.4	6	7.2	8.4	9.6	10.8
	l/min	**0**	**5**	**20**	**40**	**60**	**80**	**90**	**100**	**120**	**140**	**160**	**180**
H metres	▬	68	67	63.5	59	54	48.5	46	43	37	31	24.5	18
	••••	33.5	32.5	30	26.5	22.8	18.9	16.8	14.7	10			

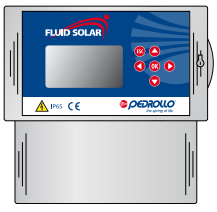
Performance with photovoltaic modules for a total nominal power of 1960 Wp

FLUID SOLAR

STANDARD EQUIPMENT

P1 = 750 W

CONTROL PANEL





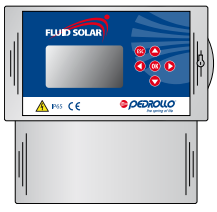
CONNECTORS

No. 1 male connector type **SMK**

No. 1 female connector type **SMK**

P1 = 1500 W

CONTROL PANEL





CONNECTORS

No. 1 male connector type **SMK**

No. 1 female connector type **SMK**

No. 1 Y-connector female/ male type **MC4**

No. 1 male-female Y-connector type **MC4**

EXAMPLES OF INSTALLATION

FLUID SOLAR 1/11 - 2/5 - 4/3 - 6/3

※ To achieve maximum rated performance, the pump requires **photovoltaic modules** with a total rated power of **980 Wp** or higher.

※ The pump can run on lower-power photovoltaic modules than recommended, but with reduced performance.

※ Each module must have an open-circuit voltage between **35 - 55VDC**.

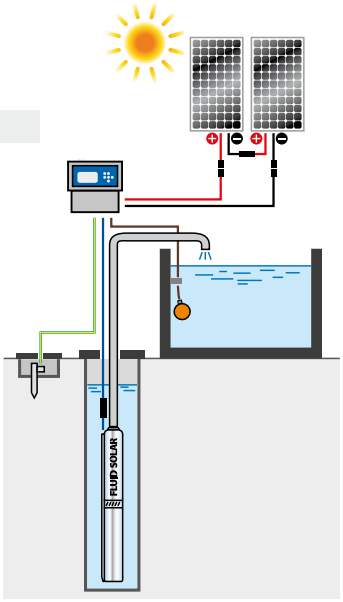
FLUID SOLAR 1/18 - 2/11 - 4/7 - 6/6

※ To achieve maximum rated performance, the pump requires photovoltaic modules with a total rated power of **1960 Wp** or higher.

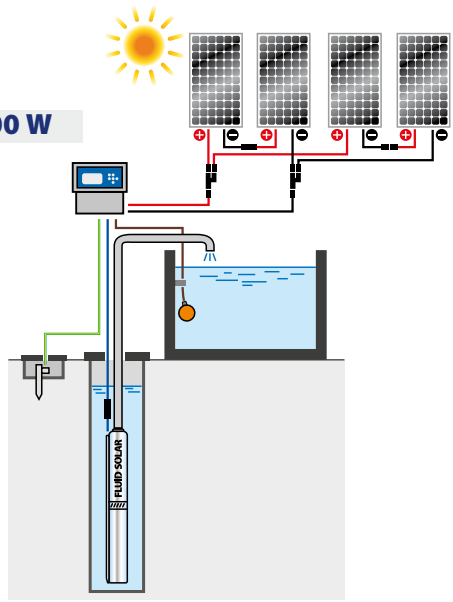
※ The pump can run on lower-power photovoltaic modules than recommended, but with reduced performance.

※ Each module must have an open-circuit voltage between **35** and **55VDC**.

P1=750 W



P1=1500 W



DIMENSIONS AND WEIGHT

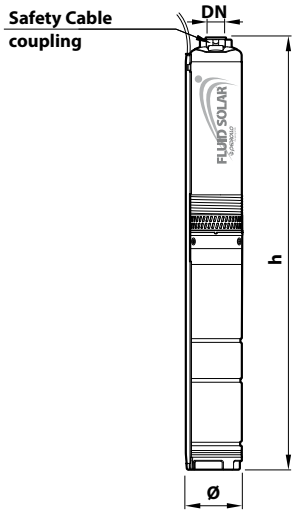
P1 = 750 W

TYPE	PORT DN	DIMENSIONS mm Ø	h	kg *
FLUID SOLAR 1/11	**1¼"**	100	746	14.2
FLUID SOLAR 2/5			625	13.3
FLUID SOLAR 4/3			601	13.0
FLUID SOLAR 6/3			621	12.5

P1 = 1500 W

FLUID SOLAR 1/18	**1¼"**	100	956	18.5
FLUID SOLAR 2/11			816	17.7
FLUID SOLAR 4/7			771	16.8
FLUID SOLAR 6/6			785	16.6

(* weight of pump with control panel)



MATERIALS AND COMPONENTS

1	**Delivery port and pump jacket**	Stainless steel **AISI 304** with thread according to ISO 228/1
2	**Pump bearing**	EPDM
3	**Impellers**	Delrin®
4	**Diffusers**	Noryl™
5	**Stadium boxes**	Stainless steel **AISI 304**
6	**Pump shaft**	Stainless steel **AISI 304**
7	**Cable sheath**	Stainless steel **AISI 304**
8	**Filter**	Stainless steel **AISI 304**
9	**Coupling motor bracket**	Technopolymer and brass
10	**Motor shaft**	Stainless steel **AISI 431**
11	**Motor sleeve**	Stainless steel **AISI 304**

12 Mechanical seal

Seal	Shaft	Materials
ST4-16	Ø 16 mm	Ceramic / Graphite / NBR

13 Vectoral

14 Electric motor
- High-efficiency permanent magnet oil filled motor (non-toxic food-safe oil), rewindable.
- Continuous running duty S1
- Insulation: Class F
- Protection rating: IP X8

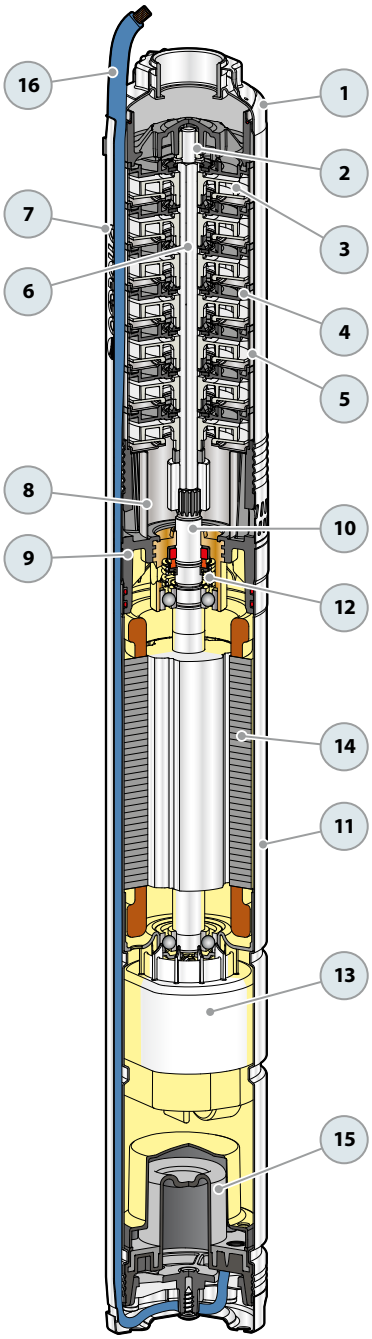
15 Compensating diaphragm

16 Power cord

Cable approved for use in drinking water by ACS, KTW, WRAS

※ Standard length 2.2 metres

※ Standard equipment: RPS2 cable splice kit



4-BLOCK 4" Close-coupled electric submersible pumps

Clean water
Civil use
Domestic use
Agricultural use



※ Ready-to-install stainless steel submersible pump equipped with an integrated capacitor and thermal protector.

※ Patented hydraulics featuring fully independent, floating impellers, ensuring minimal impact from sand on pump performance.

※ These hydraulics have a minimum efficiency index (MEI) that far exceeds ErP requirements.

※ Outstanding performance .

※ Comes with a 20 m power cable.

PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **140 m**

INSTALLATION AND USE

Designed to draw water from clean wells, even in the presence of sand (up to **200 g/m³**).

With their high efficiency, reliability, and ease of installation, they are highly recommended for domestic, commercial, and agricultural applications. They are ideal for automatic water distribution alongside pressure tanks, irrigation systems, and more.

APPLICATION LIMITS

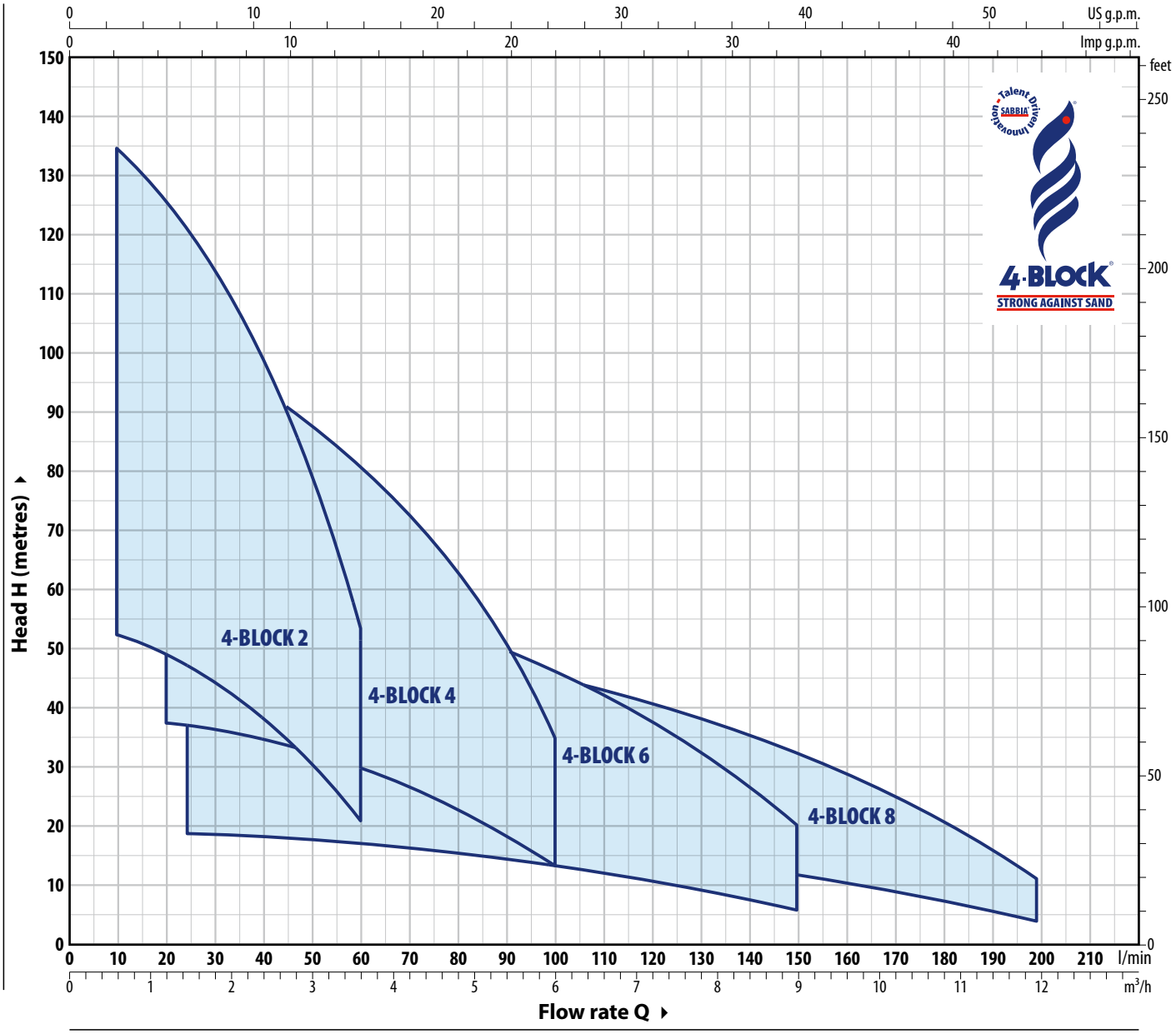
- Liquid temperature up to **+35 °C**
- Maximum sand content **200 g/m³**
- Capable of operating at depths of up to **100 metres** below water level (with an appropriately sized power cable)
- Vertical and horizontal operation
- Starts per hour: **20** at regular intervals

AVAILABLE UPON REQUEST

※ **30 metres** long power cable
※ Different voltage requirements 60 Hz frequency

PERFORMANCE RANGE

50 Hz



PATENTS - TRADE MARKS - MODELS

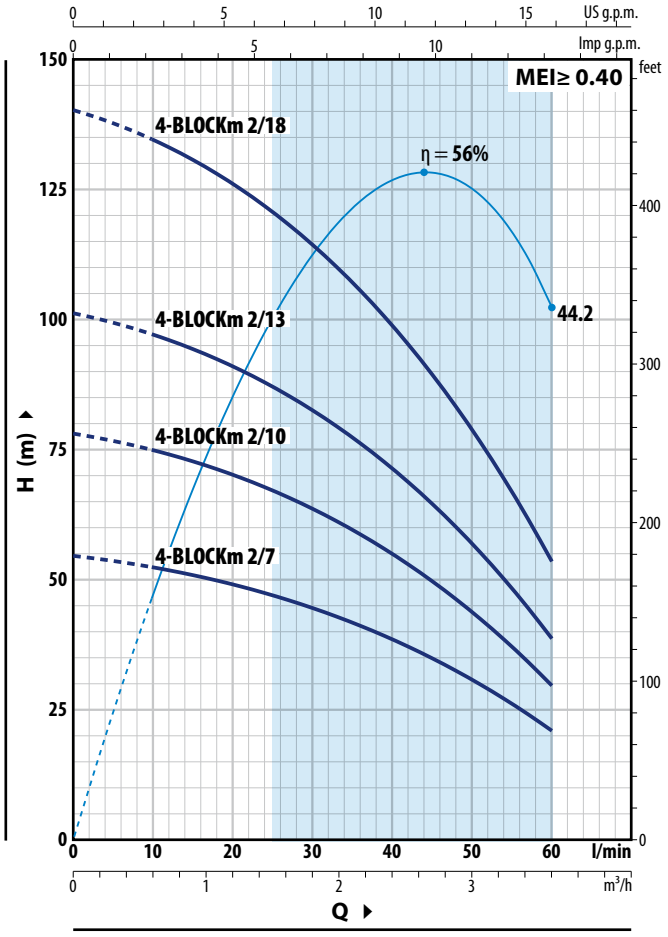
- European Patents No. EP3123031, EP2419642
- Patent No. 102021000030575
- **4-BLOCK®** is a registered trademark No. 018702380

ECO FRIENDLY · ErP ready · RoHS2 COMPLIANT · REACH COMPLIANT · EMC COMPLIANT

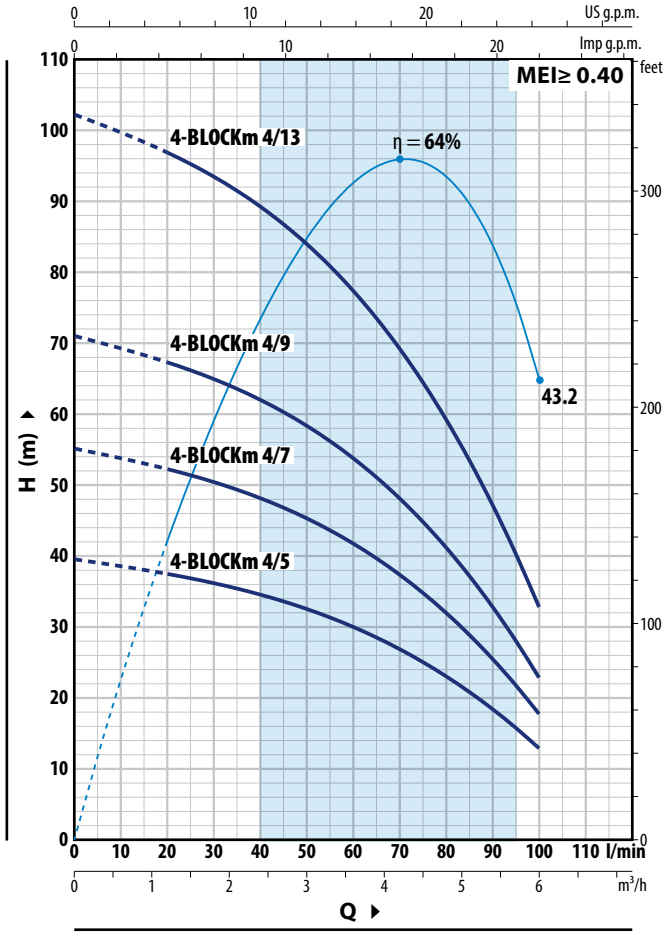
PERFORMANCE RANGE

50 Hz

4-BLOCK 2



4-BLOCK 4



4-BLOCK 2

TYPE	POWER (P2)		Q m³/h	0	0.6	1.2	1.8	2.4	3	3.6
Single-phase	kW	HP	l/min	**0**	**10**	**20**	**30**	**40**	**50**	**60**
4-BLOCKm 2/7	0.37	0.50	H metres	54.5	52.5	49	44.5	38.5	30.5	21
4-BLOCKm 2/10	0.55	0.75		78	75	70	63.5	55	44	29.5
4-BLOCKm 2/13	0.75	1		101	97	91	83	71	57	38.5
4-BLOCKm 2/18	1.1	1.5		140	135	126	114	99	79	53.5

4-BLOCK 4

TYPE	POWER (P2)		Q m³/h	0	1.2	1.5	2.4	3.6	4.5	6
Single-phase	kW	HP	l/min	**0**	**20**	**25**	**40**	**60**	**75**	**100**
4-BLOCKm 4/5	0.37	0.50	H metres	39.5	37.5	36.5	34.5	30	24.8	12.5
4-BLOCKm 4/7	0.55	0.75		55	52	51.5	48	41.5	34.5	17.5
4-BLOCKm 4/9	0.75	1		71	67	66	62	53.5	44.5	22.5
4-BLOCKm 4/13	1.1	1.5		102	97	95	89	77	64.5	32.5

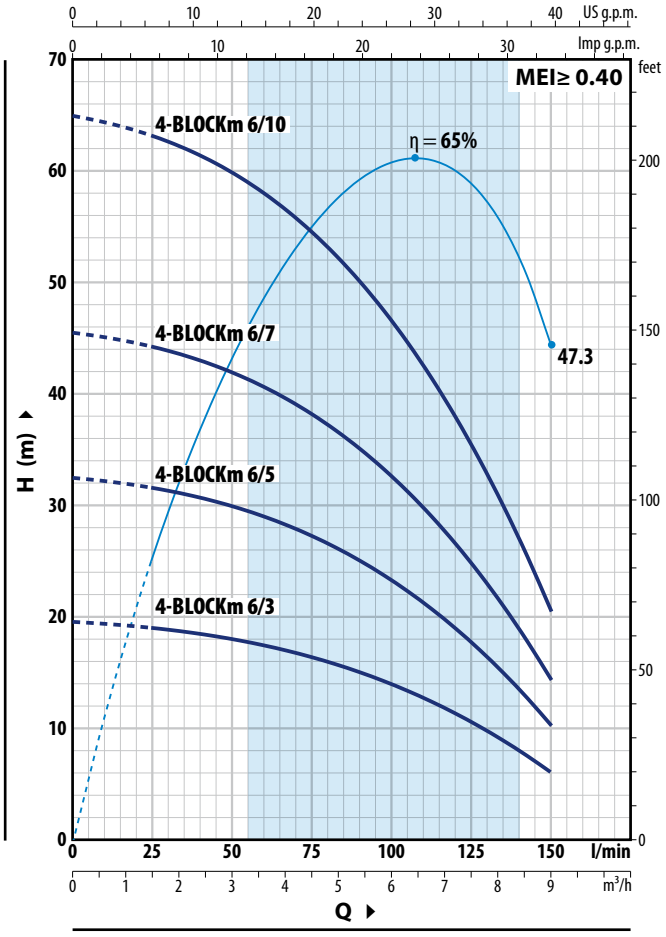
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

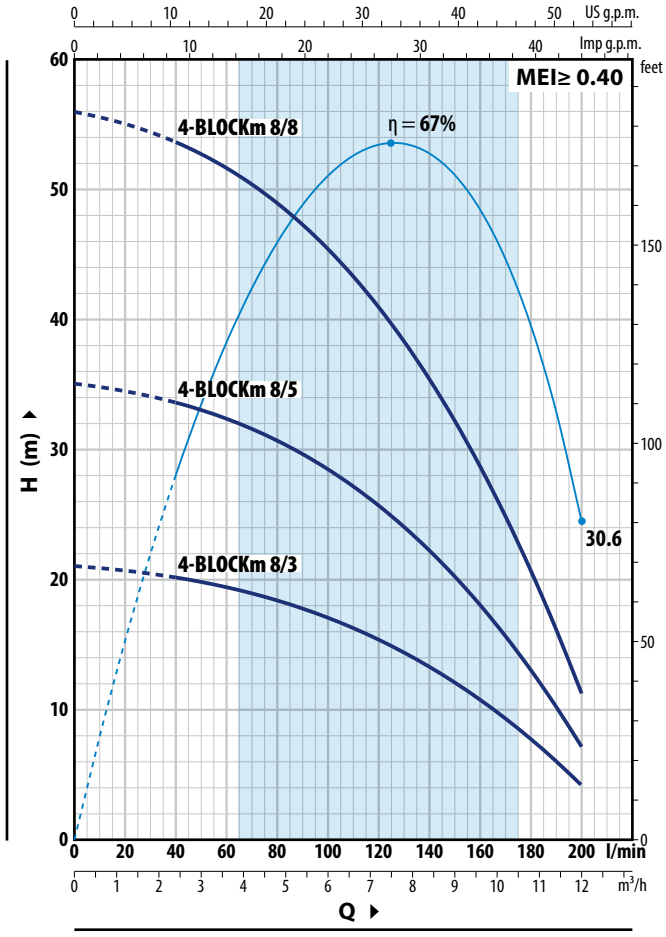
PERFORMANCE RANGE

50 Hz

4-BLOCK 6



4-BLOCK 8



4-BLOCK 6

TYPE	POWER (P2)		Q m³/h	0	1.5	2.4	3.6	4.5	6.0	7.5	9.0
Single-phase	kW	HP	l/min	**0**	**25**	**40**	**60**	**75**	**100**	**125**	**150**
4-BLOCKm 6/3	0.37	0.50	**H** metres	19.5	19	18.4	17.4	16.4	14	10.6	6
4-BLOCKm 6/5	0.55	0.75		32.5	31.5	30.5	29	27.5	23.3	17.7	10
4-BLOCKm 6/7	0.75	1		45.5	44	43	40.5	38	32.5	24.8	14.5
4-BLOCKm 6/10	1.1	1.5		65	63	61.5	58	54.5	46.5	35.5	20.5

4-BLOCK 8

TYPE	POWER (P2)		Q m³/h	0	2.4	3.6	4.5	6.0	7.5	9.0	10.5	12
Single-phase	kW	HP	l/min	**0**	**40**	**60**	**75**	**100**	**125**	**150**	**175**	**200**
4-BLOCKm 8/3	0.55	0.75	**H** metres	21	20	19.4	18.7	17.1	14.9	12.1	8.6	4
4-BLOCKm 8/5	0.75	1		35	33.5	32.5	31	28.5	24.8	20.2	14.3	7
4-BLOCKm 8/8	1.1	1.5		56	53.5	51.5	50	45.5	39.5	32.5	22.9	11.5

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

1	**Delivery port and pump jacket**	Stainless steel **AISI 304** with thread according to ISO 228/1
2	**Pump bearing**	EPDM
3	**Impellers**	Delrin®
4	**Diffusers**	Noryl™
5	**Stadium boxes**	Stainless steel **AISI 304**
6	**Pump shaft**	Stainless steel **AISI 304**
7	**Cable sheath**	Stainless steel **AISI 304**
8	**Filter**	Stainless steel **AISI 304**
9	**Coupling motor bracket**	Technopolymer and brass
10	**Motor shaft**	Stainless steel **AISI 431**
11	**Motor sleeve**	Stainless steel **AISI 304**

12 Mechanical seal

Seal	Shaft	Materials
ST4-16	Ø 16 mm	Ceramic / Graphite / NBR

13 Capacitor

14 Electric motor

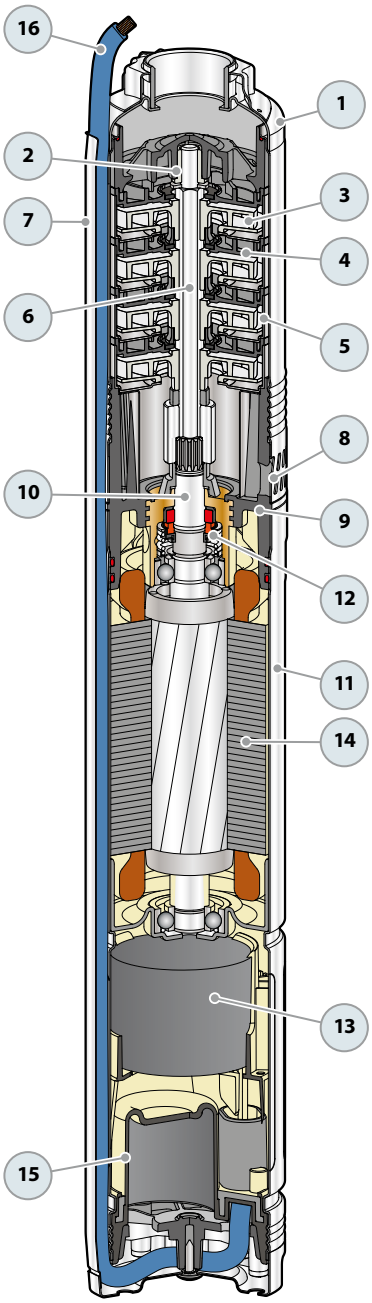
- Specially dimensioned submersible rewindable oil filled motor, suitable for continuous service (non-toxic food-safe oil).
- Single-phase 220-230 V - 50 Hz
- Built-in motor capacitor
- Thermal motor protection incorporated in the winding
- Continuous running duty S1
- Insulation: Class F
- Protection rating: IP X8

15 Compensating diaphragm

16 Power cord

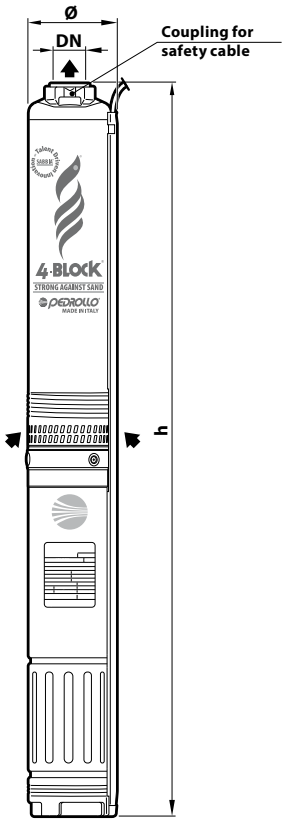
➠ **DRINCABLE® HRC** certified for use with drinking water meant for human consumption by the **ACS** according to XP P 41-250, approval no. 18 MAT NY 156

Standard length **20 metres**



DIMENSIONS AND WEIGHT

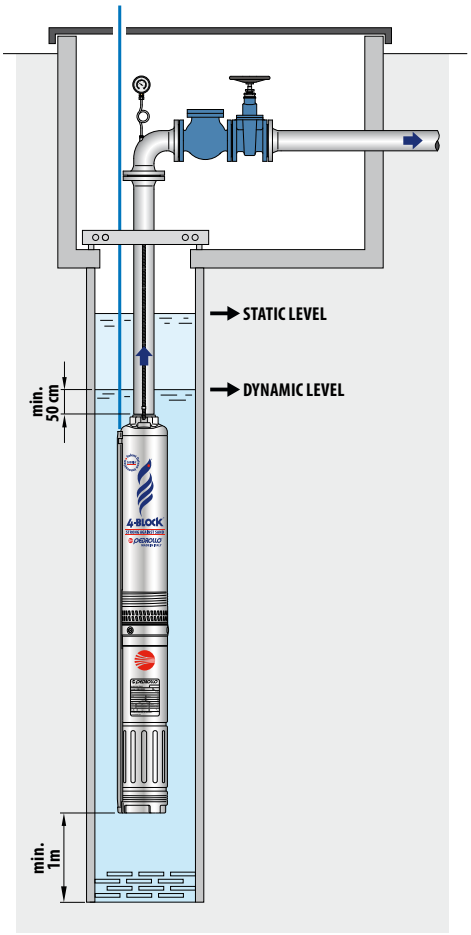
TYPE	PORT	DIMENSIONS mm			kg
Single-phase	**DN**	NO. STAGES	Ø	h	1~
4-BLOCKm 2/7		**7**		**617**	**11.4**
4-BLOCKm 2/10		**10**		**677**	**12.3**
4-BLOCKm 2/13		**13**		**757**	**13.9**
4-BLOCKm 2/18		**18**		**907**	**17.0**
4-BLOCKm 4/5		**5**		**602**	**11.5**
4-BLOCKm 4/7		**7**		**652**	**12.1**
4-BLOCKm 4/9		**9**		**722**	**13.3**
4-BLOCKm 4/13	**1¼"**	**13**	**100**	**872**	**16.4**
4-BLOCKm 6/3		**3**		**572**	**11.4**
4-BLOCKm 6/5		**5**		**635**	**12.0**
4-BLOCKm 6/7		**7**		**718**	**13.2**
4-BLOCKm 6/10		**10**		**862**	**16.4**
4-BLOCKm 8/3		**3**		**572**	**12.0**
4-BLOCKm 8/5		**5**		**655**	**12.6**
4-BLOCKm 8/8		**8**		**799**	**15.8**



ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
4-BLOCKm – 0.37 kW	3.5 A
4-BLOCKm – 0.55 kW	4.4 A
4-BLOCKm – 0.75 kW	6.1 A
4-BLOCKm – 1.1 kW	8.0 A

Typical installation



PALLET CAPACITY

TYPE	NO. OF PUMPS
Single-phase	
4-BLOCKm 2	55
4-BLOCKm 4	55
4-BLOCKm 6	55
4-BLOCKm 8	55

DAVIS 4" submersible pump with peripheral impeller

Clean water

Domestic use

Agricultural use



PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3.0 m³/h)
- Head up to **75 m**

INSTALLATION AND USE

Ready-to-install cost-effective submersible pump, equipped with an integrated capacitor and thermal overload protector.

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.

Compact and cost-effective, it is suitable for domestic applications. It works seamlessly with small-sized pressure tanks, offering an ideal setup for all irrigation requirements.

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Depth of use up to **40 m** below water level (with an appropriately sized power cable)
- Vertical and horizontal operation

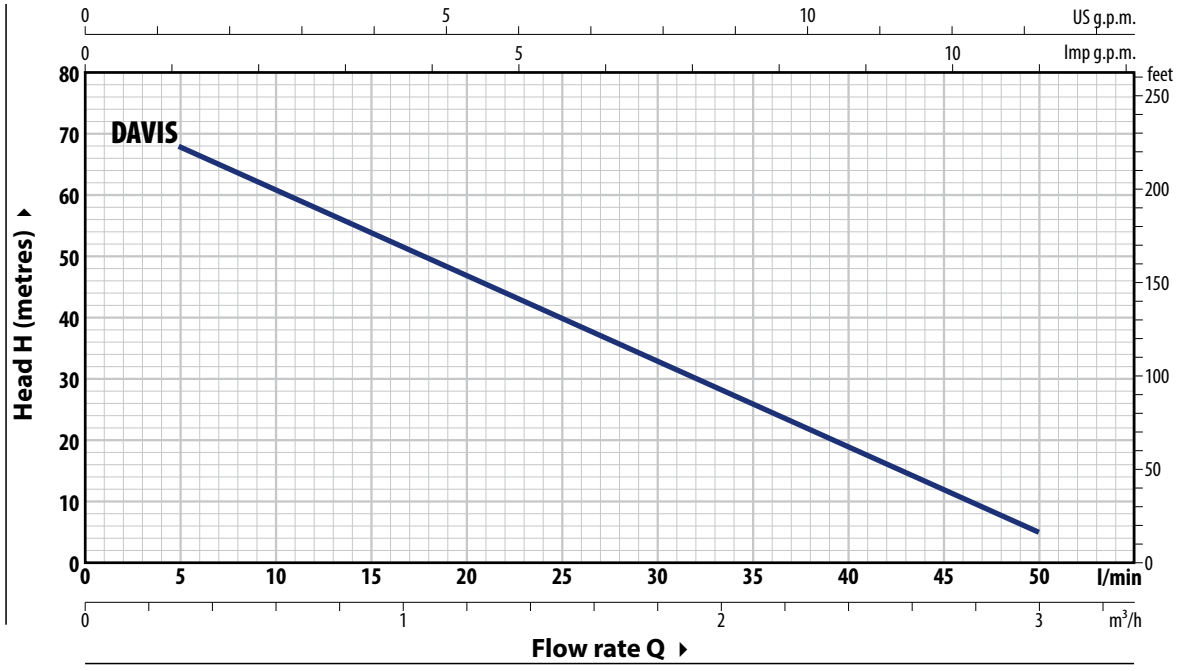
AVAILABLE UPON REQUEST

※ **30 metres** long power cable

※ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P2)		Q	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
Single-phase	kW	HP		l/min	0	5	10	15	20	25	30	35	40	45	50
DAVIS®	0.75	1	H	metres	75	68	61	54	47	40	33	26	19	12	5

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

1	**Delivery port**	Stainless steel **AISI 304** complete with threaded delivery port in compliance with ISO 228/1
2	**Sealing cover**	Brass
3	**Impeller**	Brass, radial peripheral vane type
4	**Motor sleeve**	Stainless steel **AISI 304**
5	**Motor shaft**	Stainless steel **AISI 431**
6	**Two mechanical seals separated by an oil chamber**	

Type	Shaft	Materials
AR-14 (Motor side)	Ø 14 mm	Ceramic / Graphite / NBR
ST1-14 SIC (Pump side)	Ø 14 mm	Ceramic / Silicon carbide / NBR

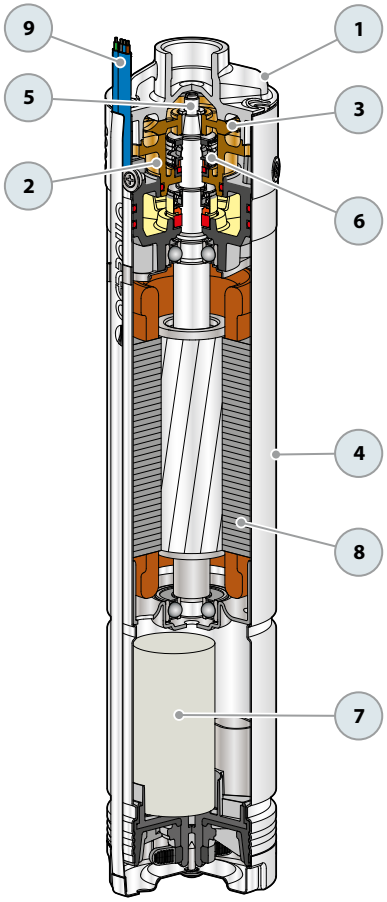
7	**Capacitor**	
8	**Electric motor**	

– Submersible PEDROLLO motor, suitable for continuous duty (with dry, rewindable stator).
– Single-phase 220-230 V - 50 Hz
– Built-in motor capacitor
– Thermal motor protection incorporated in the winding
– Continuous running duty S1
– Insulation: Class F
– Protection rating: IP X8

9	**※ Power cord**	

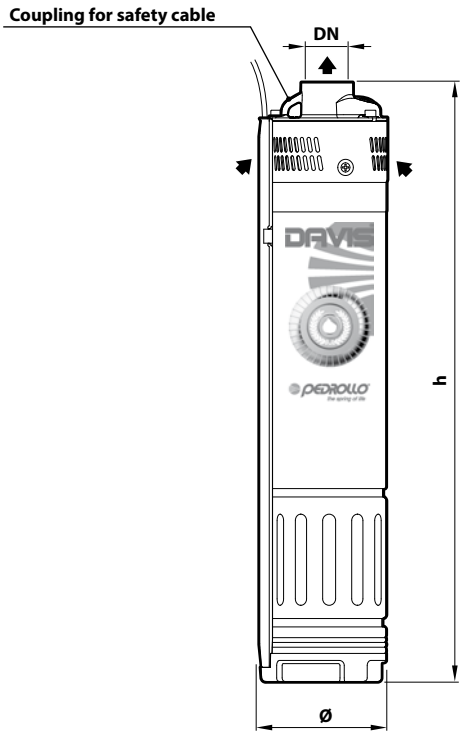
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Standard length 20 metres



ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
DAVIS®	5.7 A



DIMENSIONS AND WEIGHT

TYPE **Single-phase**	PORT **DN**	DIMENSIONS mm Ø	 h	kg
DAVIS®	**1"**	101	470	12.6

PALLET CAPACITY

TYPE **Single-phase**	NO. OF PUMPS
DAVIS®	60