CP-ST Stainless steel centrifugal pumps

Clean water
Domestic use
Agricultural use
Industrial use

※ Centrifugal pumps made entirely of Stainless Steel



CP-ST4

※ Pump body: **AISI 304 stainless steel**
※ Rotor: **AISI 304 stainless steel**
※ Shaft: **AISI 431 stainless steel**

CP-ST6

※ Pump body: **AISI 316L stainless steel**
※ Rotor: **AISI 316L stainless steel**
※ Shaft: **AISI 316L stainless steel**

PERFORMANCE RANGE

- Flow rate up to **270 l/min** (16.2 m³/h)
- Head up to **45 m**

INSTALLATION AND USE

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

Thanks to their construction features, these centrifugal pumps are suited for domestic, agricultural, and industrial applications.

All components in contact with the pumped liquid are made of AISI 304 or AISI 316L stainless steel, ensuring total hygiene and maximum corrosion resistance.

ELECTRIC MOTOR

Equipped with cutting-edge electric motors, the three-phase pumps are designed to work with inverters, offering stable and noiseless performance.
They feature efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, bolstered by class F insulation and IPX4 protection.

APPLICATION LIMITS

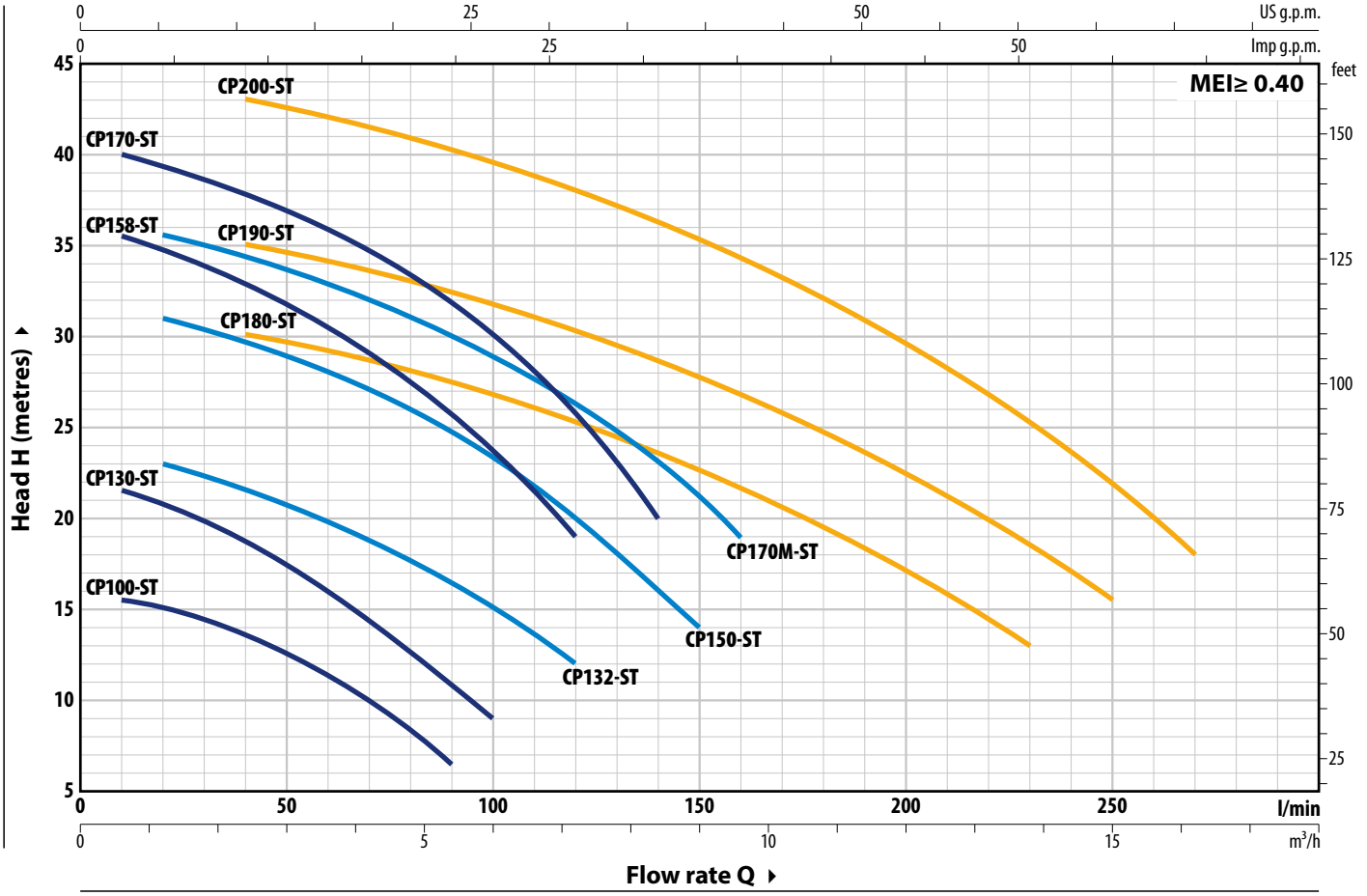
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure:
  - **6 bar** for CP 100-130-132-150-158 ST4
    CP 100-130-132-150-158 ST6
  - **8 bar** for CP 170-170M ST4
    CP 170-170M ST6
    CP 180-190-200 ST4
    CP 180-190-200 ST6

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Protection rating IP X5 for CP 170-170M-180-190-200 ST
※ Different voltage requirements 60 Hz frequency
※ Certified pumps WRAS APPROVED PRODUCT

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	0.6	1.2	2.4	3.6	5.4	6.0	7.2	8.4	9.0	9.6	12	13.8	15	16.2
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**10**	**20**	**40**	**60**	**90**	**100**	**120**	**140**	**150**	**160**	**200**	**230**	**250**	**270**
CPm 100-ST4 **CPm 100-ST6**	**CP 100-ST4** **CP 100-ST6**	0.25	0.33					16	15.5	15	13.5	11.2	6.5									
CPm 130-ST4 **CPm 130-ST6**	**CP 130-ST4** **CP 130-ST6**	0.37	0.50					22.5	21.5	20.8	18.8	16	10.8	9								
CPm 132-ST4 **CPm 132-ST6**	**CP 132-ST4** **CP 132-ST6**	0.55	0.75					24	–	23	21.5	19.8	16.5	15	12							
CPm 150-ST4 **CPm 150-ST6**	**CP 150-ST4** **CP 150-ST6**	0.75	1					32	–	31	29.8	28	24.8	23.2	20	16	14					
CPm 158-ST4 **CPm 158-ST6**	**CP 158-ST4** **CP 158-ST6**	0.75	1					36.5	35.5	34.5	33	31	26.2	24	19							
CPm 170-ST4 **CPm 170-ST6**	**CP 170-ST4** **CP 170-ST6**	1.1	1.5	**IE2**	**IE3**	**H**	metres	41	40	39.2	37.8	36	32	30	25.8	20						
CPm 170M-ST4 **CPm 170M-ST6**	**CP 170M-ST4** **CP 170M-ST6**	1.1	1.5					36.5	–	35.5	34.3	33	30	29	26.4	23	21	19				
CPm 180-ST4 **CPm 180-ST6**	**CP 180-ST4** **CP 180-ST6**	1.1	1.5					31.5	–	–	30	29.2	27.5	26.8	25.2	23.5	22.5	21.5	17	13		
CPm 190-ST4 **CPm 190-ST6**	**CP 190-ST4** **CP 190-ST6**	1.5	2					37	–	–	35	34	32.2	31.5	30.2	28.7	27.8	27	22.7	18.5	15.5	
CPm 200-ST4 **CPm 200-ST6**	**CP 200-ST4** **CP 200-ST6**	2.2	3					45	–	–	43	42	40.2	39.5	38	36.5	35.5	34.5	29.8	25.5	22	18

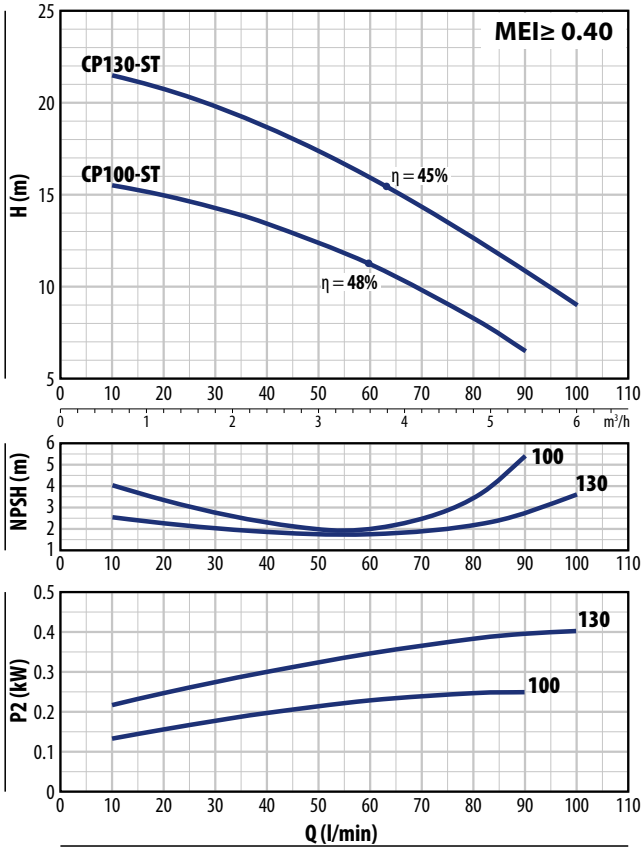
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

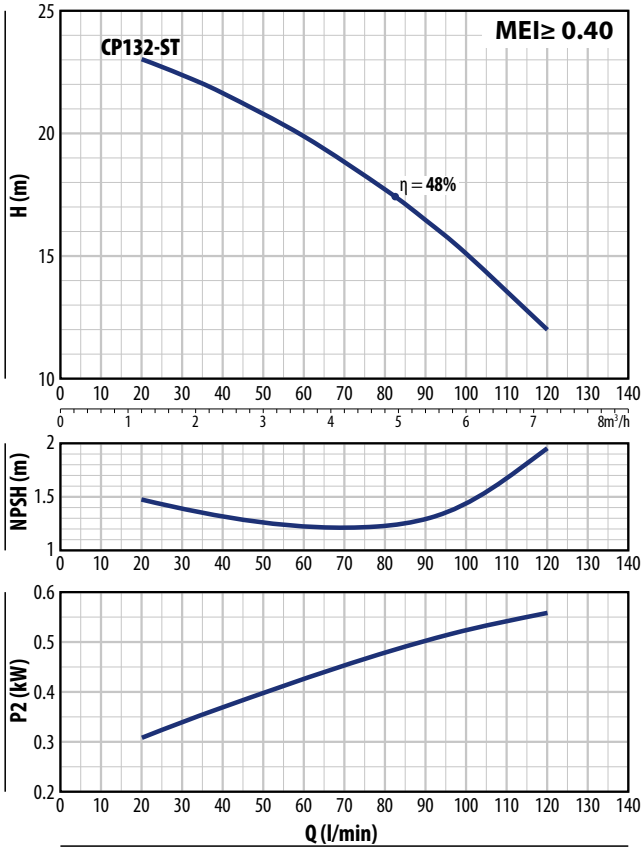
PERFORMANCE CURVES - HS=0 m

50 Hz

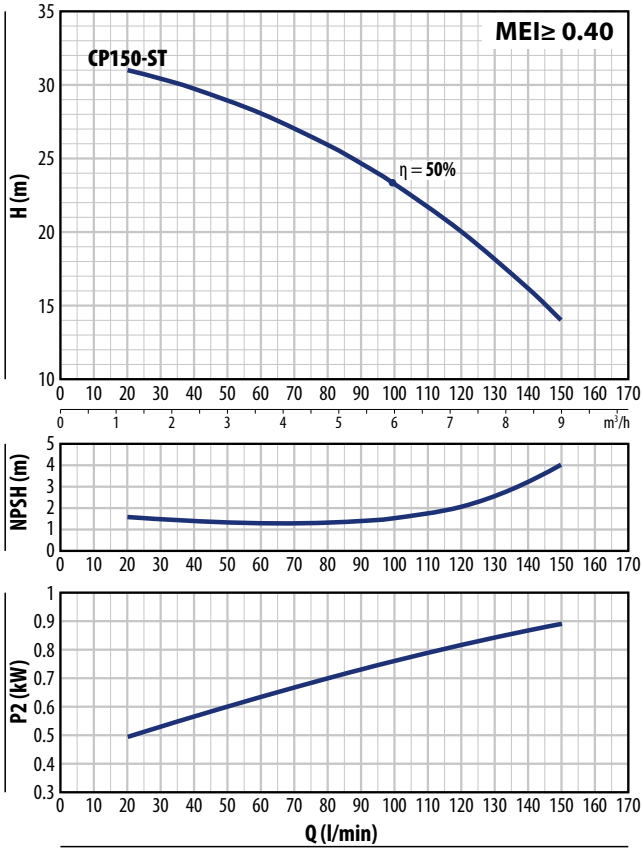
CP 100-ST CP130–ST



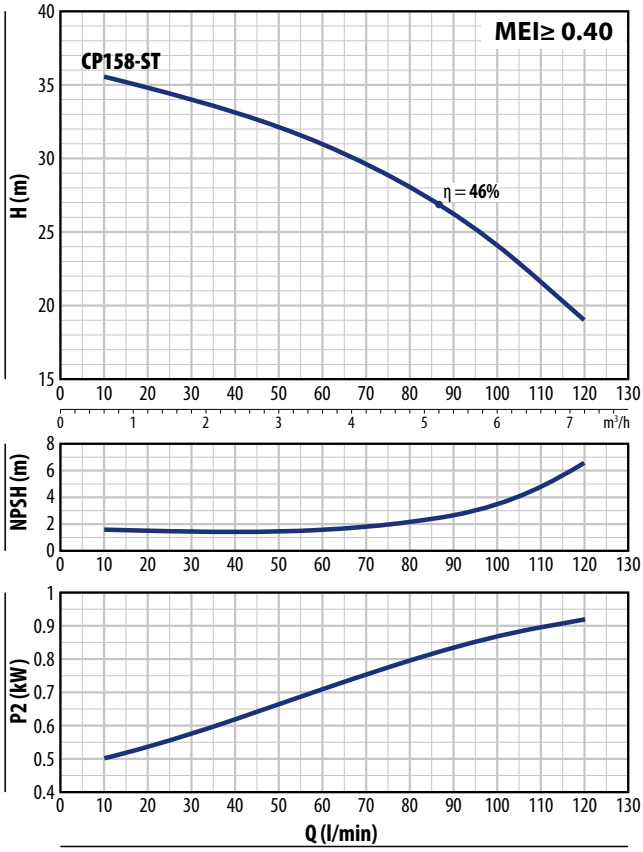
CP 132-ST



CP 150-ST



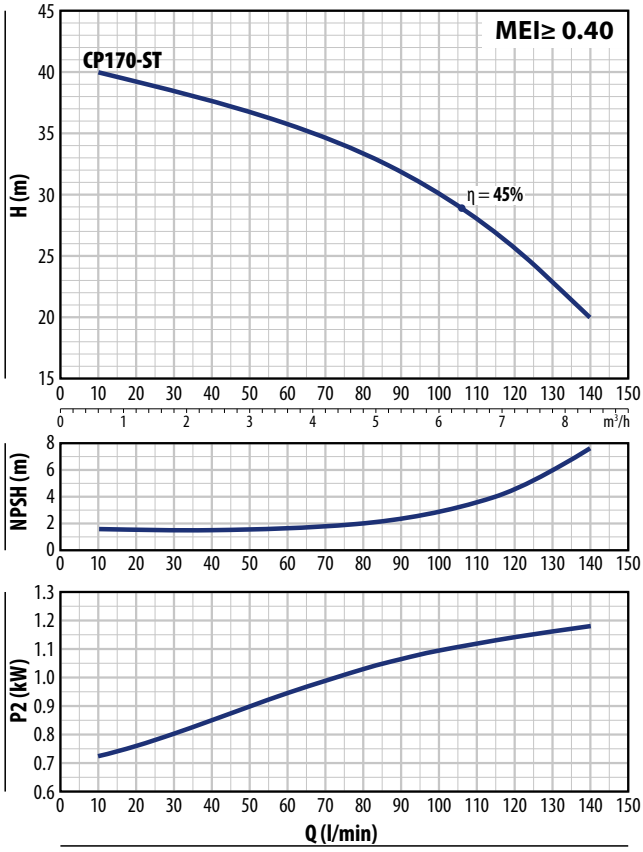
CP 158-ST



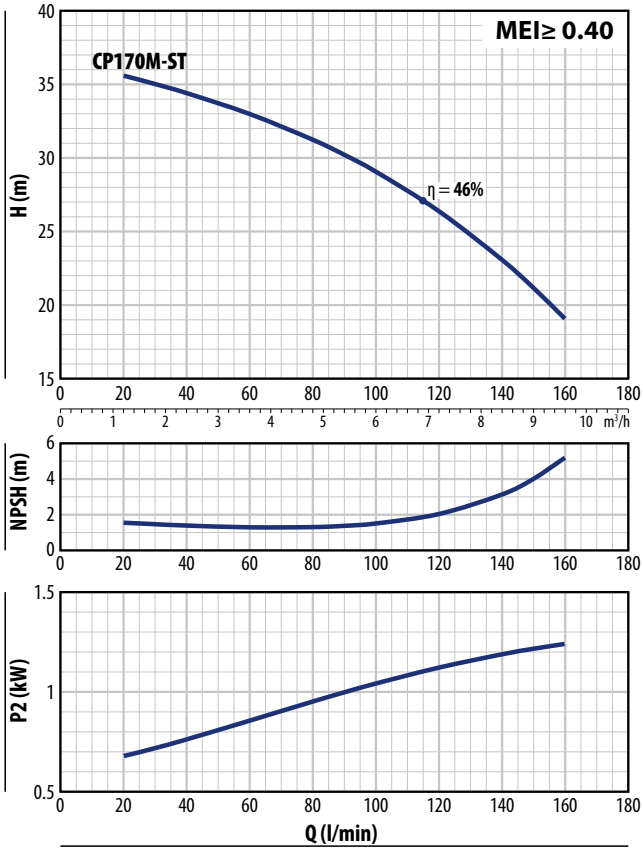
PERFORMANCE CURVES - HS=0 m

50 Hz

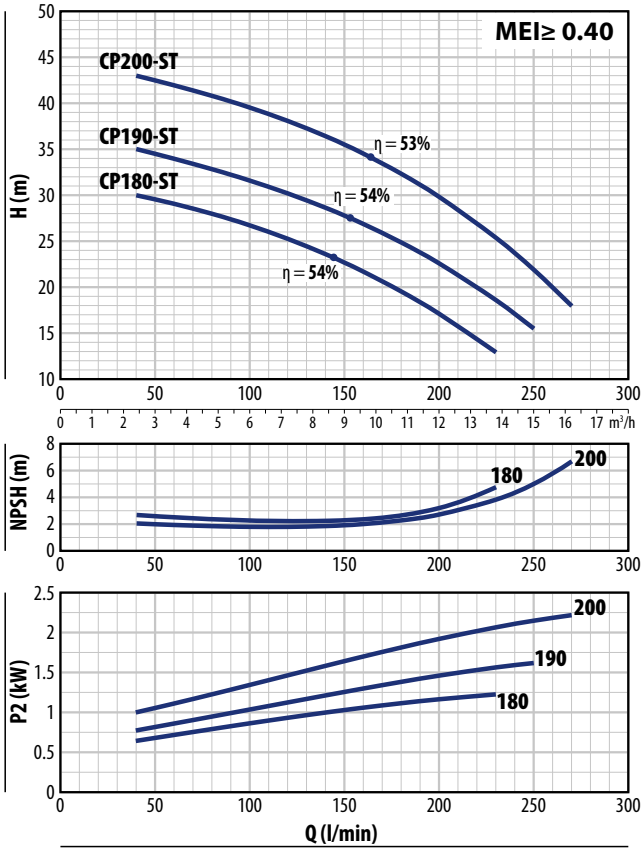
CP 170-ST



CP 170M-ST



CP 180-ST CP 190-ST CP 200-ST

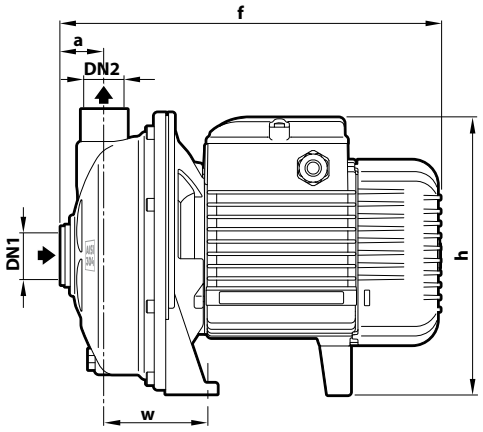


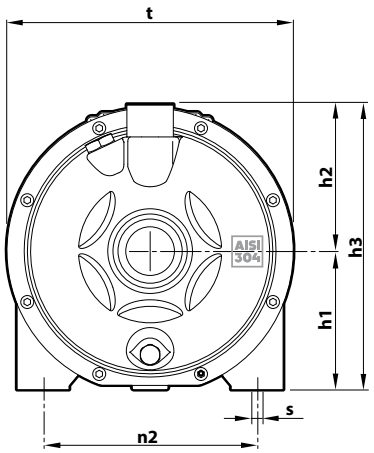
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
CPm 100-ST4	2.0 A
CPm 130-ST4	3.0 A
CPm 132-ST4	3.7 A
CPm 150-ST4	6.0 A
CPm 158-ST4	6.0 A
CPm 170-ST4	7.8 A
CPm 170M-ST4	7.8 A
CPm 180-ST4	8.5 A
CPm 190-ST4	10.5 A
CPm 200-ST4	12.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
CP 100-ST4	1.7 A	1.0 A
CP 130-ST4	1.9 A	1.1 A
CP 132-ST4	2.2 A	1.3 A
CP 150-ST4	4.2 A	2.4 A
CP 158-ST4	4.2 A	2.4 A
CP 170-ST4	5.7 A	3.3 A
CP 170M-ST4	5.7 A	3.3 A
CP 180-ST4	5.7 A	3.3 A
CP 190-ST4	6.6 A	3.8 A
CP 200-ST4	8.8 A	5.1 A

DIMENSIONS AND WEIGHT





TYPE		PORTS		DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h	h1	h2	h3	n2	t	w	s	1~	3~
CPm 100-ST4	**CP 100-ST4**	**1¼"**	**1"**	31.5	266	181	92	93.5	185.5	120	181	68.5	9	5.8	5.8
CPm 130-ST4	**CP 130-ST4**													6.7	6.7
CPm 132-ST4	**CP 132-ST4**													7.4	7.3
CPm 150-ST4	**CP 150-ST4**			34	296	219 *	107	112	219	165	221	80.5	9.5	11.1	11.1
CPm 158-ST4	**CP 158-ST4**													11.1	11.1
CPm 170-ST4	**CP 170-ST4**			33.5	370	251	120	117.5	237.5	180	244	86.5	11	16.0	14.7
CPm 170M-ST4	**CP 170M-ST4**													15.9	14.6
CPm 180-ST4	**CP 180-ST4**			33.5	370	250	120	117.5	237.5	180	244	86.5	11	15.8	15.8
CPm 190-ST4	**CP 190-ST4**													17.1	17.1
CPm 200-ST4	**CP 200-ST4**				390									19.6	19.6

(*) h=233 mm for single-phase 110 V versions

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
CPm 100-ST4	**CP 100-ST4**	96
CPm 130-ST4	**CP 130-ST4**	96
CPm 132-ST4	**CP 132-ST4**	96
CPm 150-ST4	**CP 150-ST4**	50
CPm 158-ST4	**CP 158-ST4**	50
CPm 170-ST4	**CP 170-ST4**	45
CPm 170M-ST4	**CP 170M-ST4**	45
CPm 180-ST4	**CP 180-ST4**	45
CPm 190-ST4	**CP 190-ST4**	45
CPm 200-ST4	**CP 200-ST4**	45

CONSTRUCTION FEATURES

1	**Pump body**	Stainless steel **AISI 304**
2	**Cover**	Stainless steel **AISI 304**
3	**Impeller**	Stainless steel **AISI 304**

4 Mechanical seal

Pump	Seal	Shaft	Materials
CP 100-130-131-ST4	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR / AISI 304
CP 150-158-ST4	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR / AISI 304
CP 170-170M-180-190-200-ST4	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR / AISI 316

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**CPm-ST4**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection. **CP-ST4**: 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**

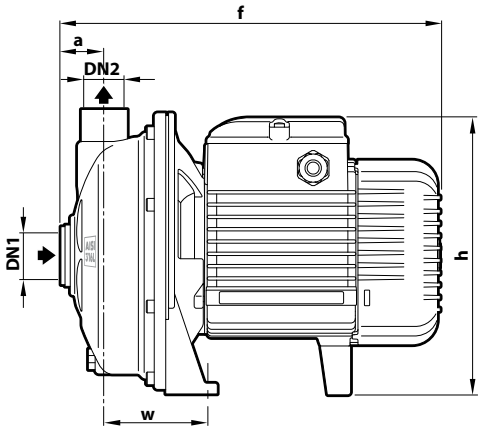


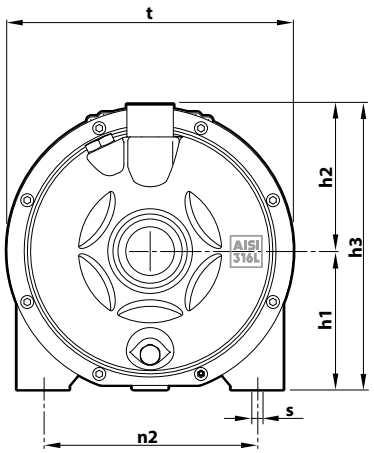
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
CPm 100-ST6	2.0 A
CPm 130-ST6	3.0 A
CPm 132-ST6	3.7 A
CPm 150-ST6	6.0 A
CPm 158-ST6	6.0 A
CPm 170-ST6	7.8 A
CPm 170M-ST6	7.8 A
CPm 180-ST6	8.5 A
CPm 190-ST6	10.5 A
CPm 200-ST6	12.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
CP 100-ST6	1.7 A	1.0 A
CP 130-ST6	1.9 A	1.1 A
CP 132-ST6	2.2 A	1.3 A
CP 150-ST6	4.2 A	2.4 A
CP 158-ST6	4.2 A	2.4 A
CP 170-ST6	5.7 A	3.3 A
CP 170M-ST6	5.7 A	3.3 A
CP 180-ST6	5.7 A	3.3 A
CP 190-ST6	6.6 A	3.8 A
CP 200-ST6	8.8 A	5.1 A

DIMENSIONS AND WEIGHT





TYPE		PORTS		DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h	h1	h2	h3	n2	t	w	s	1~	3~
CPm 100-ST6	**CP 100-ST6**	**1¼"**	**1"**	31.5	266	181	92	93.5	185.5	120	181	68.5	9	5.8	5.8
CPm 130-ST6	**CP 130-ST6**													6.7	6.7
CPm 132-ST6	**CP 132-ST6**													7.4	7.3
CPm 150-ST6	**CP 150-ST6**			34	296	219 *	107	112	219	165	221	80.5	9.5	11.1	11.1
CPm 158-ST6	**CP 158-ST6**													11.1	11.1
CPm 170-ST6	**CP 170-ST6**			33.5	370	251	120	117.5	237.5	180	244	86.5	11	16.0	14.7
CPm 170M-ST6	**CP 170M-ST6**													15.9	14.6
CPm 180-ST6	**CP 180-ST6**			33.5	370	250	120	117.5	237.5	180	244	86.5	11	15.8	15.8
CPm 190-ST6	**CP 190-ST6**													17.1	17.1
CPm 200-ST6	**CP 200-ST6**				390									19.6	19.6

(*) h=233 mm for single-phase 110 V versions

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
CPm 100-ST6	**CP 100-ST6**	96
CPm 130-ST6	**CP 130-ST6**	96
CPm 132-ST6	**CP 132-ST6**	96
CPm 150-ST6	**CP 150-ST6**	50
CPm 158-ST6	**CP 158-ST6**	50
CPm 170-ST6	**CP 170-ST6**	45
CPm 170M-ST6	**CP 170M-ST6**	45
CPm 180-ST6	**CP 180-ST6**	45
CPm 190-ST6	**CP 190-ST6**	45
CPm 200-ST6	**CP 200-ST6**	45

CONSTRUCTION FEATURES

1	**Pump body**	Stainless steel **AISI 316L**
2	**Cover**	Stainless steel **AISI 316L**
3	**Impeller**	Stainless steel **AISI 316L**

4 Mechanical seal

Pump	Seal	Shaft	Materials
CP 100-130-132-ST6	**AR-12ST6**	Ø 12 mm	Ceramic / Graphite / NBR / AISI 316
CP 150-158-ST6	**AR-14ST6**	Ø 14 mm	Ceramic / Graphite / NBR / AISI 316
CP 170-170M-180-190-200-ST6	**FN-18ST6**	Ø 18 mm	Graphite / Ceramic / NBR / AISI 316

5	**Motor shaft**	Stainless steel **AISI 316L**

6 Electric motor

CPm-ST6: single-phase 230 V - 50 Hz with winding integrated thermal motor protection.
CP-ST6: 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

Domestic use

Civil use



PERFORMANCE RANGE

- Flow rate up to **160 l/min** (9.6 m³/h)
- Head up to **56 m**

INSTALLATION AND USE

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

Reliable and easy to operate, these pumps have extensive application in domestic and civil settings, particularly for distributing water with small to medium-sized pressure tanks, transferring fluids, and watering orchards and gardens.

※ **The AISI 304 stainless steel impeller comes with a ten-year guarantee**

ELECTRIC MOTOR

Equipped with cutting-edge electric motors, the three-phase pumps are designed to work with inverters, offering stable and noiseless performance.
They feature efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, bolstered by 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 CP 100-130-132-150-158
  – **10 bar** for CP 170-190-200

AVAILABLE UPON REQUEST

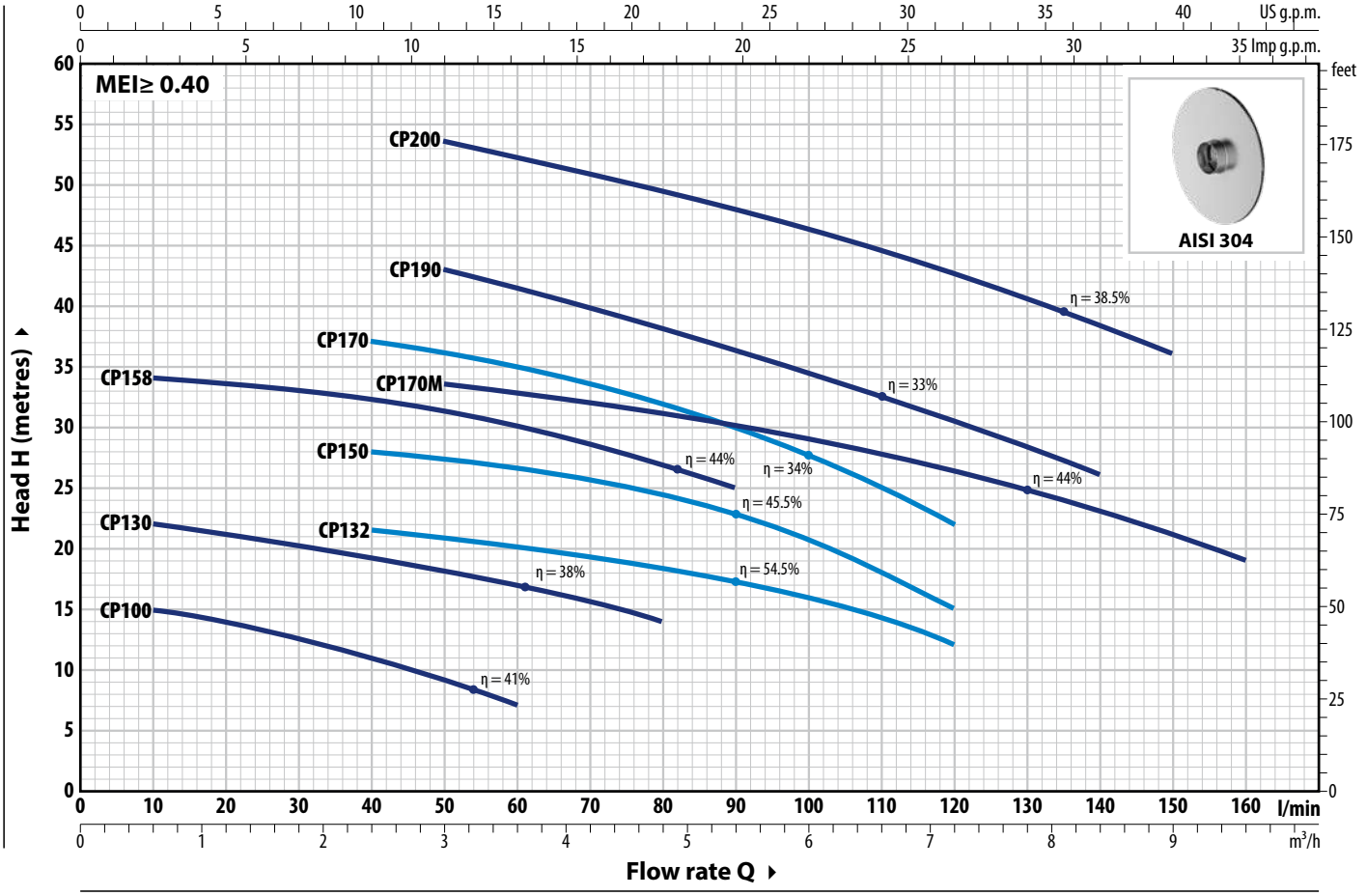
※ Mechanical seal options available
※ Protection rating IP X5 for CP 170, CP 170M
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- CPm158 registered trademark no. 0001516350
- Registered community model no. 002098434

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	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6
Single-ph.	Three-ph.	kW	HP	1~	3~		l/min	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**	**150**	**160**
CPm 100	**CP 100**	0.25	0.33					16	15	14	12.5	11	9	7										
CPm 130	**CP 130**	0.37	0.50					23	22	21	20	19	18	17	15.5	14								
CPm 132	**CP 132**	0.55	0.75					23	–	22.5	22	21.5	21	20.5	19.5	18.5	17.5	16	14	12				
CPm 150	**CP 150**	0.75	1					29.5	–	29	28.5	28	27.5	26.5	26	24.5	23	21	18	15				
CPm 158	**CP 158**	0.75	1	**IE2**	**IE3**	**H** metres		36	34	33.5	33	32.5	31.5	30	28.5	27	25							
CPm 170	**CP 170**	1.1	1.5					41	–	–	38	37	36	35	33.5	32	30	27.5	25	22				
CPm 170M	**CP 170M**	1.1	1.5					36	–	–	35	34.5	33.5	33	32	31	30	29	28	26.5	25	23	21	19
CPm 190	**CP 190**	1.5	2					48	–	–	46	44.5	43	41.5	40	38	36	34.5	32.5	30.5	28	26		
CPm 200	**CP 200**	2.2	3					56	–	–	55	54.5	53.5	52	51	49.5	48	46	44.5	42.5	40.5	38.5	36	

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

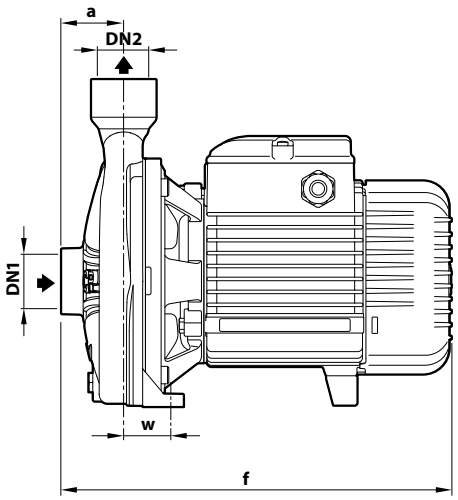
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

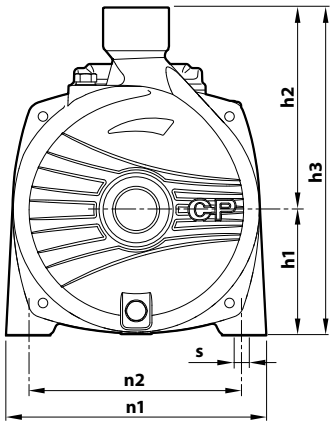
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
CPm 100	1.9 A
CPm 130	3.2 A
CPm 132	3.9 A
CPm 150	5.7 A
CPm 158	6.0 A
CPm 170 - 170M	7.8 A
CPm 190	11.0 A
CPm 200	13.0 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
CP 100	1.6 A	0.95 A
CP 130	2.0 A	1.15 A
CP 132	2.2 A	1.3 A
CP 150	4.2 A	2.4 A
CP 158	4.3 A	2.5 A
CP 170 - 170M	5.2 A	3.0 A
CP 190	7.4 A	4.3 A
CP 200	9.3 A	5.4 A

DIMENSIONS AND WEIGHT





TYPE		PORTS		DIMENSIONS mm									kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h3	h1	h2	n1	n2	w	s	1~	3~
CPm 100	**CP 100**	**1"**	**1"**	42	257	205	82	123	165	135	38	11	7.0	7.0
CPm 130	**CP 130**												7.8	7.8
CPm 132	**CP 132**												8.5	8.5
CPm 150	**CP 150**				286	240	92	148	190	160	37		12.3	12.2
CPm 158	**CP 158**												12.4	12.3
CPm 170	**CP 170**	**1¼"**	**1"**	51	367	260	110	150	206	165	44.5	11	19.1	17.6
CPm 170M	**CP 170M**												19.3	17.9
CPm 190	**CP 190**			47.5	364	290	115	175	242	206	36.5		21.6	21.5
CPm 200	**CP 200**				384								24.6	24.6

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
CPm 100	**CP 100**	96
CPm 130	**CP 130**	96
CPm 132	**CP 132**	96
CPm 150	**CP 150**	70
CPm 158	**CP 158**	70
CPm 170	**CP 170**	50
CPm 170M	**CP 170M**	50
CPm 190	**CP 190**	36
CPm 200	**CP 200**	36

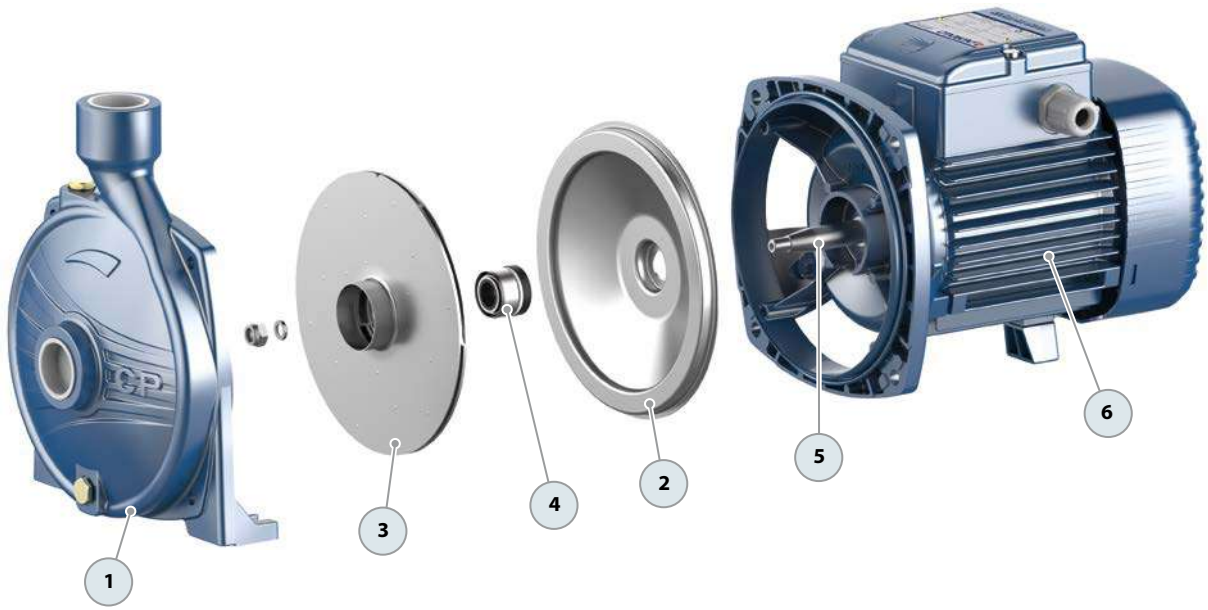
CONSTRUCTION FEATURES

1	**Pump body**	Cast iron with cataphoresis treatment with ISO 228/1 threaded ports
2	**Cover**	**AISI 304** stainless steel (cast iron for models CP 170-170M-190-200)
3	**Impeller**	Stainless steel **AISI 304**

4 Mechanical seal

Pump	Seal	Shaft	Materials
CP 100-130-132	**AR-12**	Ø 12 mm	Ceramic / Graphite / NBR
CP 150-158	**AR-14**	Ø 14 mm	Ceramic / Graphite / NBR
CP 170-170M-190-200	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**CPm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection. **CP**: 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
Agricultural use
Industrial use



PERFORMANCE RANGE

- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **76 m**

INSTALLATION AND USE

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

Reliable and easy to operate, these pumps are widely used in civil, agricultural, and industrial settings for water supply, air conditioning and cooling systems, and irrigation purposes.

ELECTRIC MOTOR

Equipped with cutting-edge electric motors, the three-phase pumps are designed to work with inverters, offering stable and noiseless performance.

They feature efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, bolstered by class F insulation and IPX4 protection for models CP160 and CP210, and IPX5 protection for models CP220, CP230, and CP250.

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 **10 bar**

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Pump shaft in stainless steel AISI 316 - EN 10088-3 - 1.4401 for CP 220, CP 230, CP 250
※ Protection rating IP X5 for CP 160 and CP 210
※ Different voltage requirements 60 Hz frequency

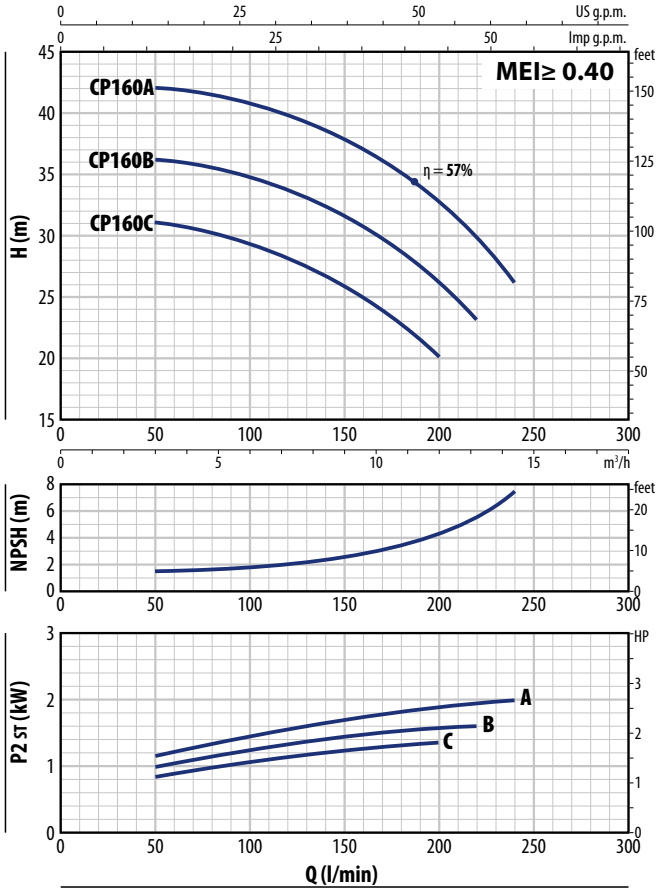
PATENTS - TRADE MARKS - MODELS

- Registered community model No. 002098434 for CP 160, CP 210, CP 250
- Italian registered model no. 72753 for CP 220, CP 230

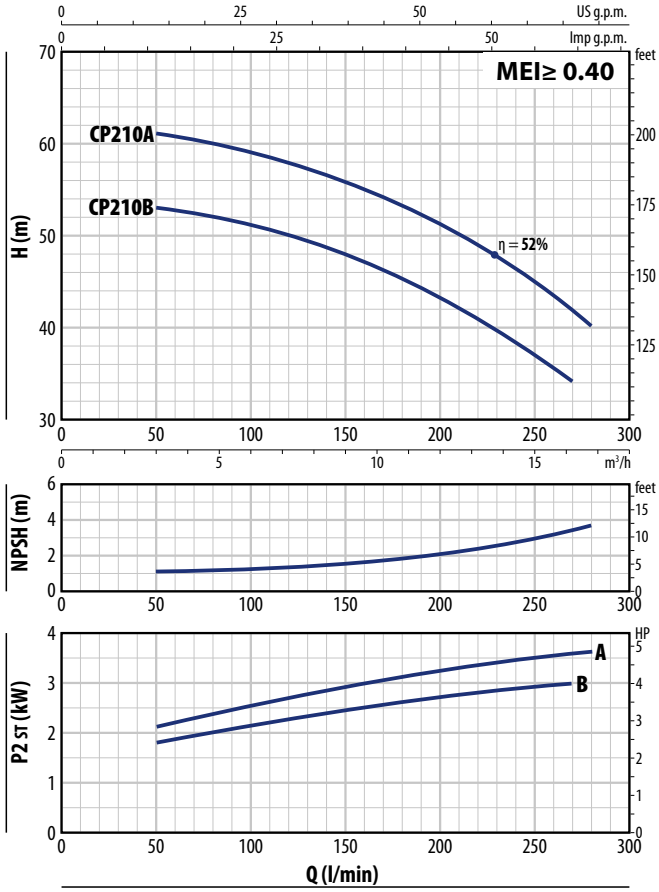
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

CP 160



CP 210



CP 160

TYPE		POWER (P2)				Q	m³/h	0	3	4.5	6	7.5	9	10.5	12	13.2	14.4
Single-ph.	Three-ph.	kW	HP	1~	3~		l/min	**0**	**50**	**75**	**100**	**125**	**150**	**175**	**200**	**220**	**240**
CPm 160C	CP 160C	1.1	1.5	IE2	IE3	H metres		32	31	30.5	29.5	28	26	23	20		
CPm 160B	CP 160B	1.5	2					37	36	35.5	34.5	33.5	31.5	29	26.5	23	
CPm 160A	CP 160A	2.2	3					43	42	41.5	40.5	39.5	38	35.5	33	30	26

CP 210

TYPE	POWER (P2)			Q	m³/h	0	3	4.5	6	7.5	9	10.5	12	13.2	14.4	15	16.2	16.8
Three-ph.	kW	HP	3~		l/min	**0**	**50**	**75**	**100**	**125**	**150**	**175**	**200**	**220**	**240**	**250**	**270**	**280**
CP 210B	3	4	IE3	H metres		54	53	52	51	49.5	48	45.5	43	40	38.5	37	34	
CP 210A	4	5.5				61	61	60	59	57.5	56	53.5	51	49	46.5	45	42	40

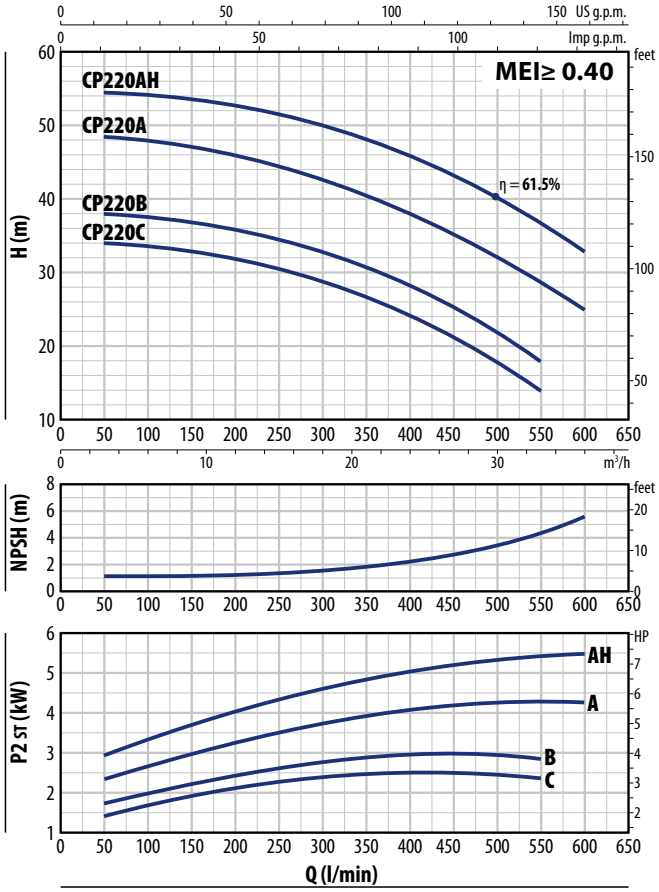
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

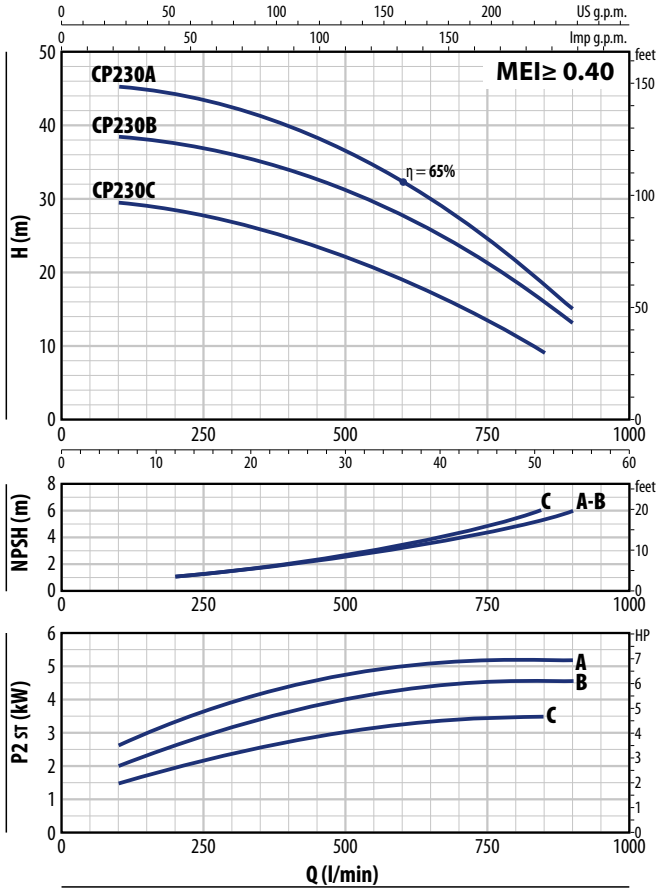
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

CP 220



CP 230



CP 220

TYPE		POWER (P2)				Q	m³/h	0	3	6	12	18	24	30	33	36
Single-phase	Three-phase	kW	HP	1~	3~		l/min	0	50	100	200	300	400	500	550	600
CPm 220C	CP 220C	2.2	3	IE2	IE3	H metres		34	34	33.5	32	29	24.3	18	14	
–	CP 220B	3	4					38	38	37.5	36	33	28.5	22	18	
–	CP 220A	4	5.5					49	48.5	48	46	42.5	38	32	29	25
–	CP 220AH	5.5	7.5					54.5	54.5	54	52.5	50	46	40.5	37	33

CP 230

TYPE	POWER (P2)			Q	m³/h	0	6	12	18	24	30	36	42	48	51	54
Three-phase	kW	HP	3~		l/min	0	100	200	300	400	500	600	700	800	850	900
CP 230C	3	4	IE3	H metres		30	29.5	28.5	27	25	22	19.5	15.5	11.5	9	
CP 230B	4	5.5				39	38.5	38	36	34	31	28	24	18.5	15	13
CP 230A	5.5	7.5				46	45.5	44.5	42	40	37	32.5	27.5	21.5	18	15

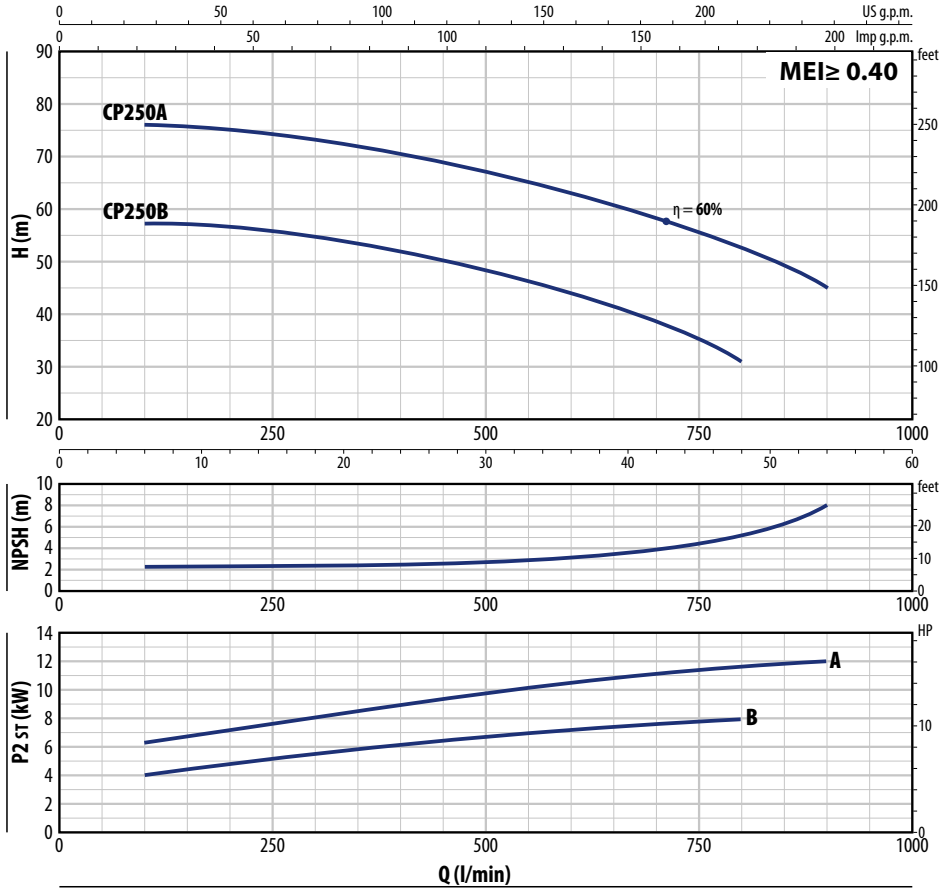
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

CP 250



CP 250

TYPE	POWER (P2)			Q	m³/h	0	6	12	18	24	30	36	42	48	54
Three-phase	kW	HP	3~		l/min	0	100	200	300	400	500	600	700	800	900
CP 250B	7.5	10	IE3	H	metres	57	57	56.5	54.5	52	48.5	44	38	31	
CP 250A	11	15				76	76	75	73.5	71	67.5	63	58	52	45

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

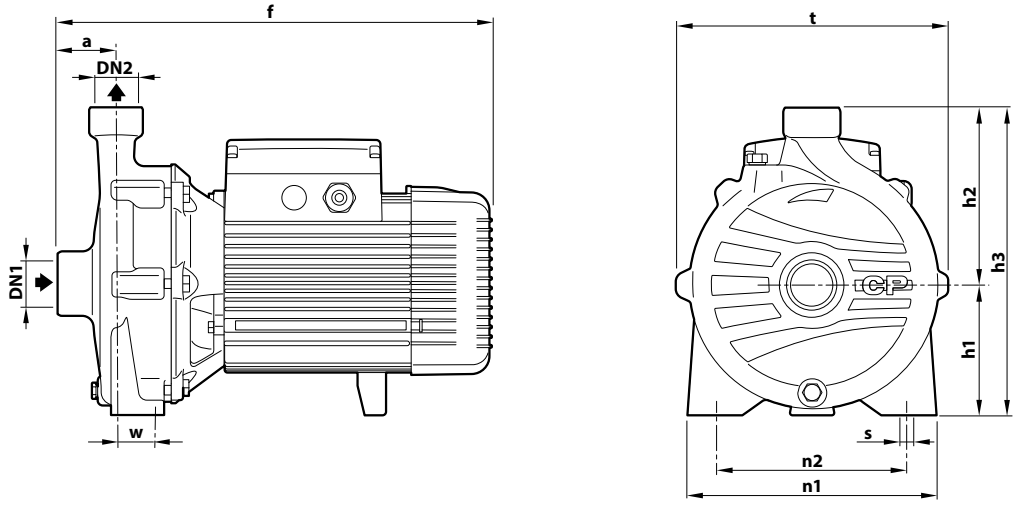
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	230 V
CPm 160C	8.5 A
CPm 160B	10.3 A
CPm 160A	13.0 A
CPm 220C	14.2 A

TYPE	VOLTAGE			
Three-ph.	230 V - Δ	400 V - ⅄	400 V - Δ	690 V - ⅄
CP 160C	5.7 A	3.3 A	–	–
CP 160B	6.9 A	4.0 A	–	–
CP 160A	8.8 A	5.1 A	–	–
CP 210B	12.6 A	7.3 A	–	–
CP 210A	15.1 A	8.7 A	–	–
CP 220C	9.0 A	5.2 A	–	–
CP 220B	12.6 A	7.3 A	–	–
CP 220A	17.0 A	9.8 A	–	–
CP 220AH	–	–	11.5 A	6.6 A
CP 230C	13.1 A	7.6 A	–	–
CP 230B	16.8 A	9.7 A	–	–
CP 230A	–	–	11.5 A	6.6 A
CP 250B	–	–	15.0 A	8.7 A
CP 250A	–	–	22.5 A	13.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h1	h2	h3	t	n1	n2	w	s	1~	3~
CPm 160C	**CP 160C**	**1½"**	**1"**	54	370	110	150	260	–	206	165	44.5	11	18.7	18.8
CPm 160B	**CP 160B**													20.0	20.0
CPm 160A	**CP 160A**				390									22.7	22.9
–	**CP 210B**			60	454	132	180	312		274	205	35		–	33.8
–	**CP 210A**													–	37.2
CPm 220C	**CP 220C**	**2"**	**2"**	70	428	132	183	315	243	230	170	40	14	29.5	32.3
–	**CP 220B**			70	468	136	192	328	273	250	190	40		–	34.2
–	**CP 220A**													–	41.0
–	**CP 220AH**													–	47.0
–	**CP 230C**													–	37.2
–	**CP 230B**													–	41.0
–	**CP 230A**													–	46.0
–	**CP 250B**			65	519	160	232	392	317	294	230	45		–	67.0
–	**CP 250A**				570									–	98.0

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
CPm 160C	**CP 160C**	50
CPm 160B	**CP 160B**	50
CPm 160A	**CP 160A**	35
–	**CP 210B**	18
–	**CP 210A**	18

TYPE		NO. OF PUMPS
Single-ph.	**Three-ph.**	
CPm 220C	**CP 220C**	18
–	**CP 220B**	18
–	**CP 220A**	18
–	**CP 220AH**	18
–	**CP 230C**	18
–	**CP 230B**	18
–	**CP 230A**	18
–	**CP 250B**	6
–	**CP 250A**	6

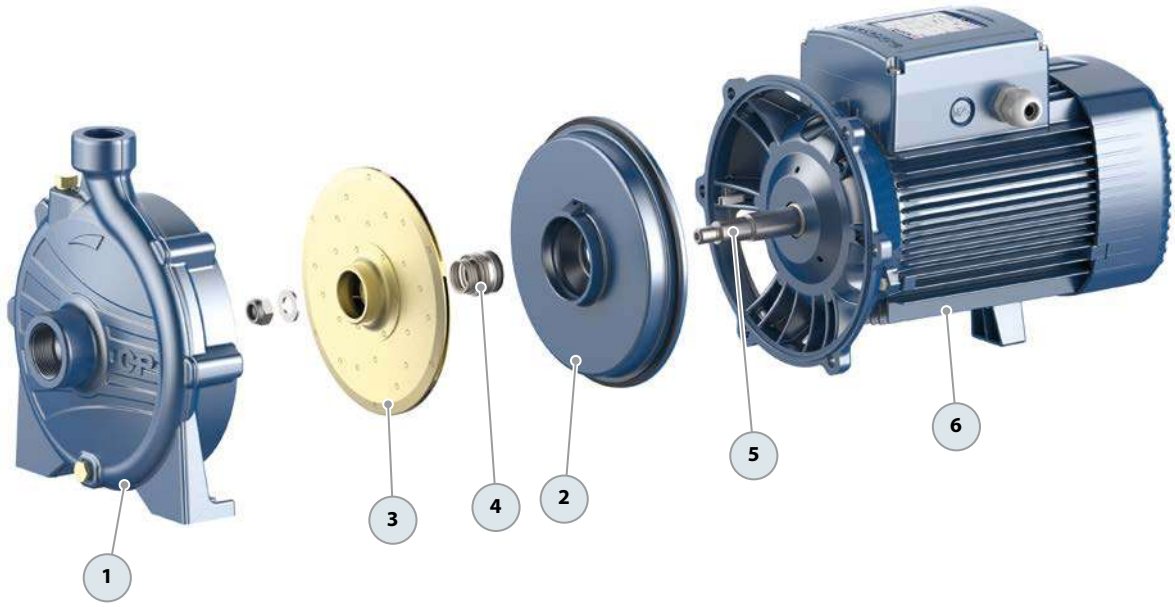
CONSTRUCTION FEATURES

1	**Pump body**	Cast iron with ISO 228/1 threaded ports
2	**Cover**	Cast iron
3	**Impeller**	Stainless steel for CP160 Brass for CP 210, CP 220, CP 230 Cast iron for CP 250

4 Mechanical seal

Pump	Seal	Shaft	Materials
CP 160C-B-A	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR
CP 220C	**FN-20**	Ø 20 mm	Graphite / Ceramic / NBR
CP 210B-A CP 220B-A-AH CP 230C-B-A CP 250B	**FN-24**	Ø 24 mm	Graphite / Ceramic / NBR
CP 250A	**FN-32 NU**	Ø 32 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**CPm**: single-phase 230 V - 50 Hz. **CP**: three-phase 230/400 V - 50 Hz up to 4 kW. 400/690 V - 50 Hz from 5.5 to 11 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**



2CP 25/130 Twin impeller centrifugal pump

Clean water Domestic use



INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components. They can be used in a variety of applications thanks to their high performance and adaptability.

They are an ideal choice for domestic water distribution when used with pressure tanks.

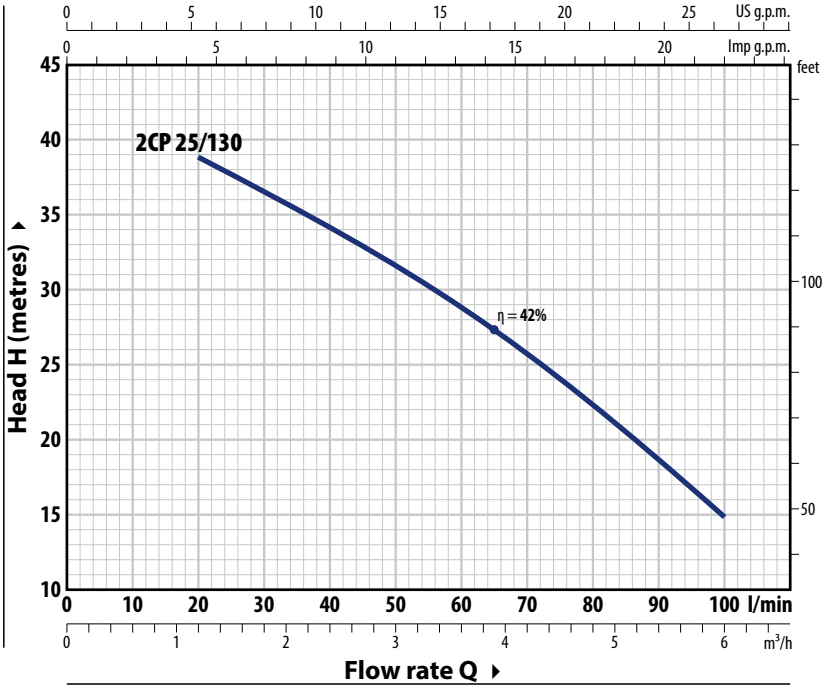
APPLICATION LIMITS

- 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**

AVAILABLE UPON REQUEST

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

CURVES AND PERFORMANCE DATA – HS=0 m 50 Hz



CONSUMPTIONS

TYPE	VOLTAGE
Single-phase	**230 V**
2CPm 25/130	6.3 A

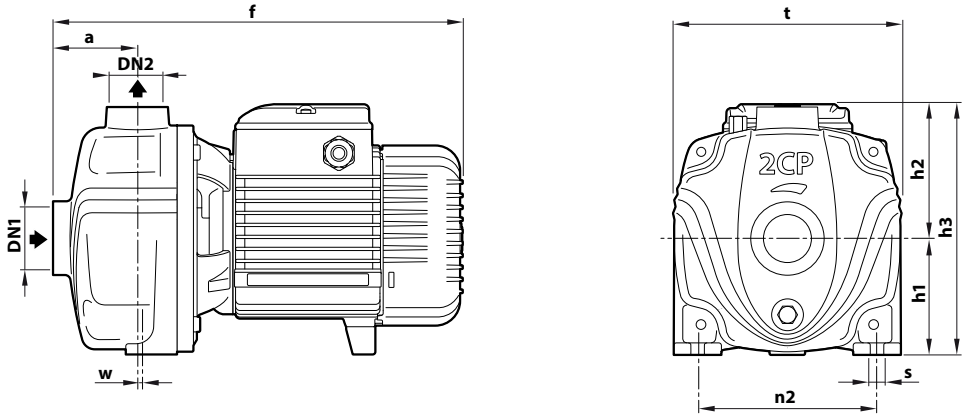
TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
2CP 25/130	4.5 A	2.6 A

TYPE		POWER (P2)				Q	m³/h	0	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
2CPm 25/130	**2CP 25/130**	0.75	1	**IE2**	**IE3**	**H**	metres	42	39	37	34.5	31.5	28.5	25.5	22	18	15

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

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

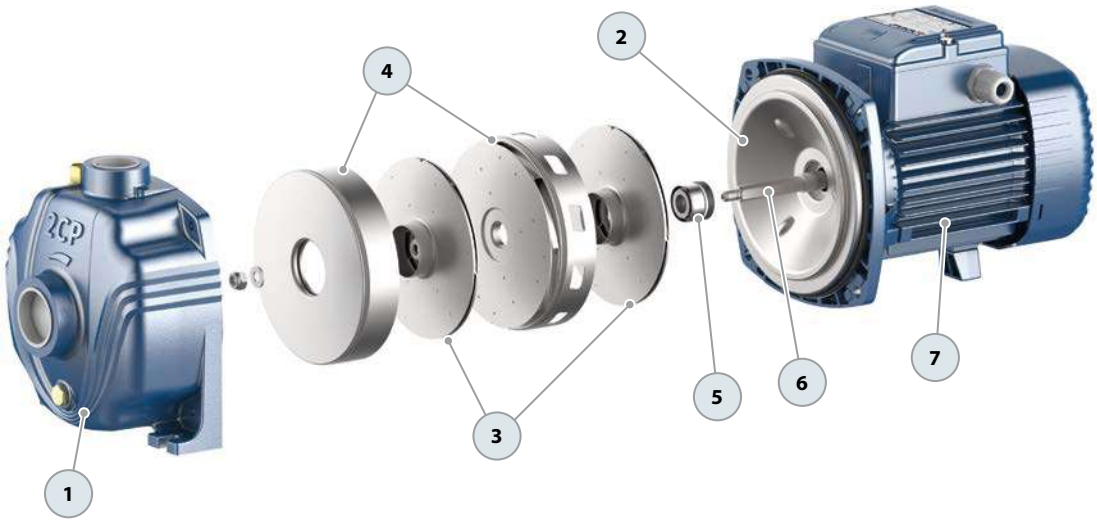
DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3	t	n2	w	s	1~	3~
2CPm 25/130	**2CP 25/130**	**1¼"**	**1"**	70	328	92	108	200	182	142	1	10	15.5	15.4

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with ISO 228/1 threaded ports (Start of production with new design 06.2024)		
2	**Cover**	Stainless steel **AISI 304**		
3	**Impellers**	Stainless steel **AISI 304**		
4	**Diffusers**	Stainless steel **AISI 304**		
5	**Mechanical seal**	Seal	Shaft	Materials
		AR-14	Ø 14 mm	Ceramic / Graphite / NBR
6	**Motor shaft**	Stainless steel **AISI 431**		
7	**Electric motor**	**2CPm 25/130**: single-phase 230 V - 50Hz with winding integrated thermal motor protection **2CP 25/130**: 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**		



2CP Twin impeller centrifugal pumps

Clean water
Domestic use
Civil use
Industrial use



PERFORMANCE RANGE

- Flow rate up to **450 l/min** (27 m³/h)
- Head up to **112 m**

INSTALLATION AND USE

They are recommended for pumping clean water and liquids that are chemically non-aggressive for the pump materials.

Its high efficiency and adaptability to a wide variety of applications make it an ideal choice in the domestic, civil and industrial sectors, particularly for water distribution in conjunction with autoclave tanks, for increasing network pressure, and for fire-fighting units.

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 from **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure **10 bar**

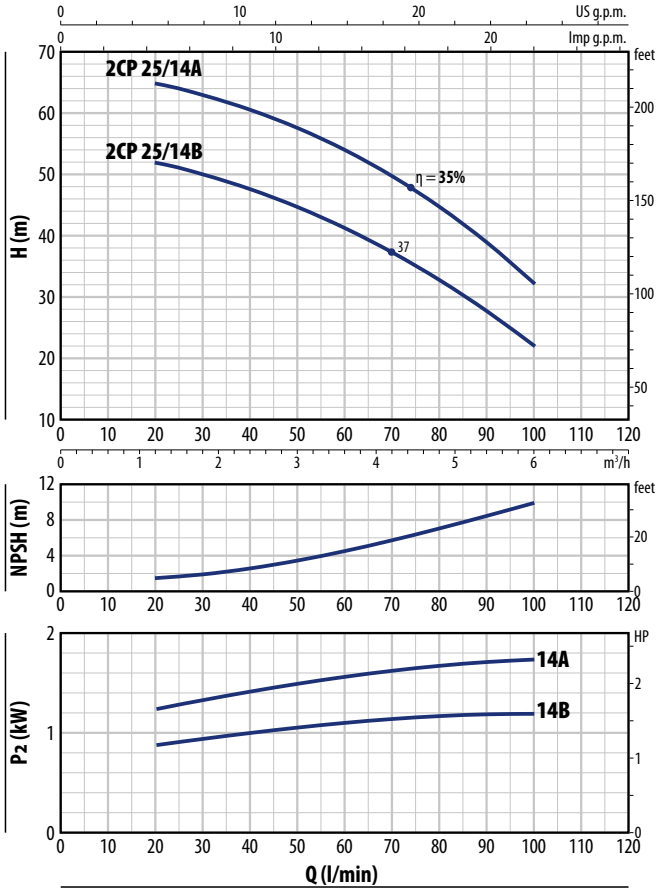
AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ IPX5 protection for:
  – 2CP32/200 – 2CP40/180
  – 2CP32/210 – 2CP40/200

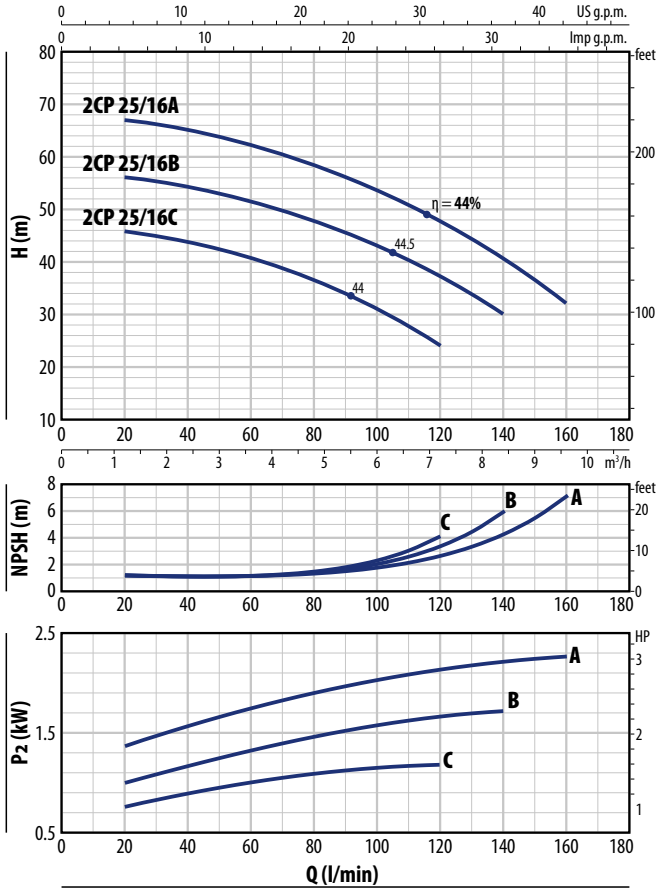
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

2CP 25/14



2CP 25/16



2CP 25/14

TYPE		POWER (P2)				Q	m³/h	0	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
2CPm 25/14B	**2CP 25/14B**	1.1	1.5	**IE2**	**IE3**	**H** metres		54	52	50	47.5	44.5	41	37	32.5	27.5	22
2CPm 25/14A	**2CP 25/14A**	1.5	2					67	65	63	60.5	57.5	54	49.5	44.5	39	32

2CP 25/16

TYPE		POWER (P2)				Q	m³/h	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**
2CPm 25/16C	**2CP 25/16C**	1.1	1.5	**IE2**	**IE3**	**H** metres		47	46	44	40.5	36	30.5	24		
2CPm 25/16B	**2CP 25/16B**	1.5	2					58	56	54	51	47.5	43	37	30	
2CPm 25/16A	**2CP 25/16A**	2.2	3					68	67	65	62	58.5	54	48	40.5	32

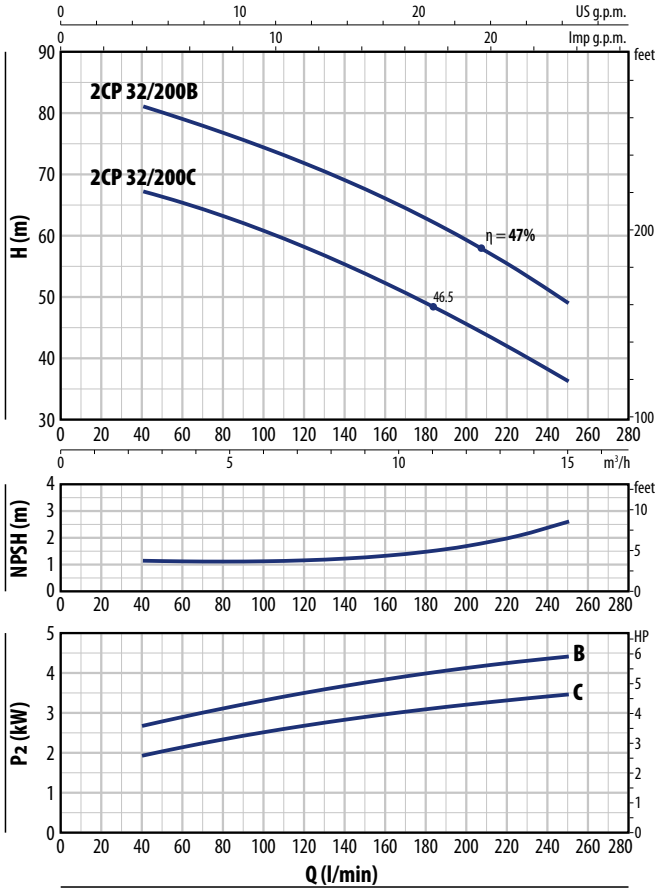
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

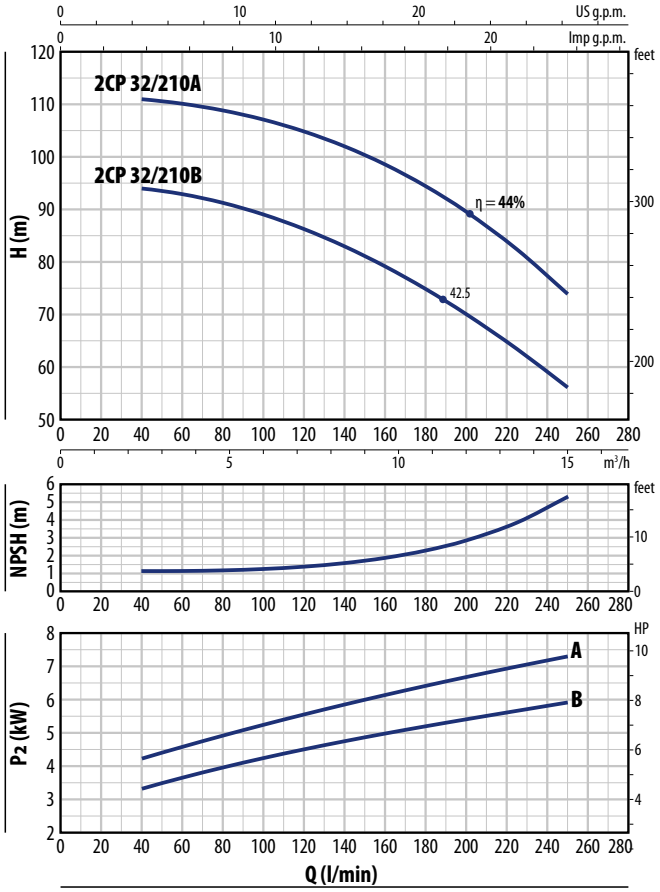
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

2CP 32/200



2CP 32/210



2CP 32/200

TYPE	POWER (P2)			Q												
Three-phase	kW	HP	3~	m³/h	0	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	13.5	15
				l/min	**0**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**225**	**250**
2CP 32/200C	3	4	IE3	H metres	70	67	65	63	60.5	58	55	52	48.5	45.5	41	36
2CP 32/200B	4	5.5			85	81	79	77	74.5	71.5	69	66	62.5	59	54.5	49

2CP 32/210

TYPE	POWER (P2)			Q												
Three-phase	kW	HP	3~	m³/h	0	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	13.5	15
				l/min	**0**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**225**	**250**
2CP 32/210B	5.5	7.5	IE3	H metres	94	94	93	91	89	86	83	79	75	70	63.5	56
2CP 32/210A	7.5	10			112	111	110	109	107	105	102	99	95	90	82.5	74

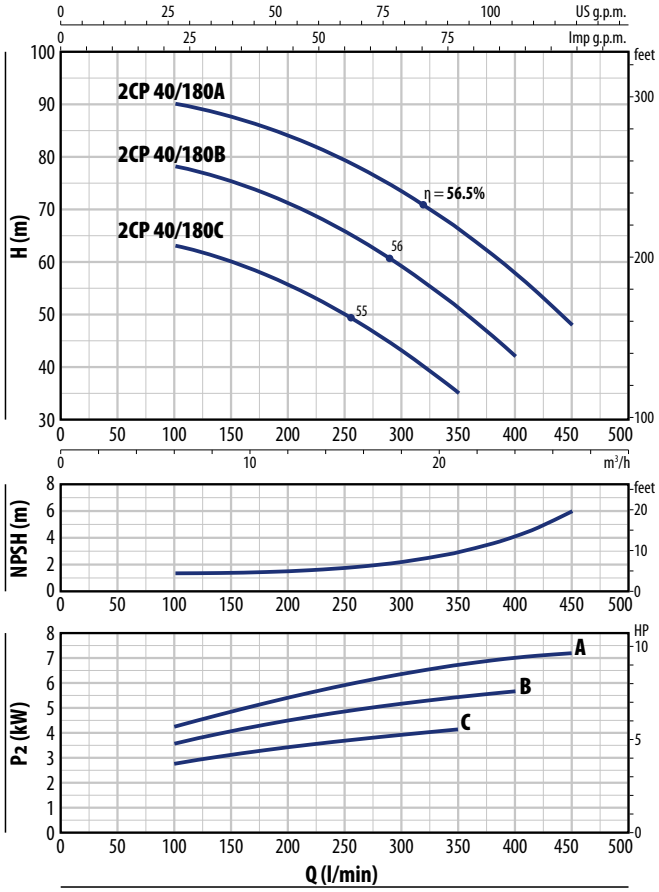
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

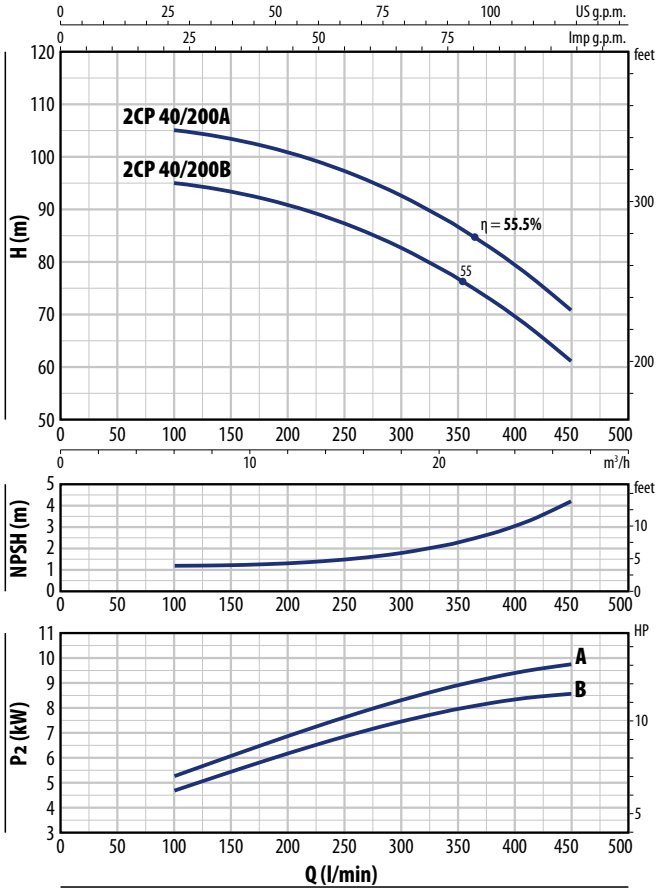
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

2CP 40/180



2CP 40/200



2CP 40/180

TYPE	POWER (P2)			Q	m³/h	0	6	9	12	15	18	21	24	27
Three-phase	kW	HP	3~		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**
2CP 40/180C	4	5.5	IE3	**H** metres		65	63	60	55.5	50	43	35		
2CP 40/180B	5.5	7.5				80	78	75	71	65.5	59	51	42	
2CP 40/180A	7.5	10				92	90	87.5	84	79	73.5	66	58	48

2CP 40/200

TYPE	POWER (P2)			Q	m³/h	0	6	9	12	15	18	21	24	27
Three-phase	kW	HP	3~		l/min	**0**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**
2CP 40/200B	9.2	12.5	IE3	**H** metres		96	95	93	91	87	83	77	69.5	61
2CP 40/200A	11	15				106	105	103	101	97	93	87	79.5	71

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

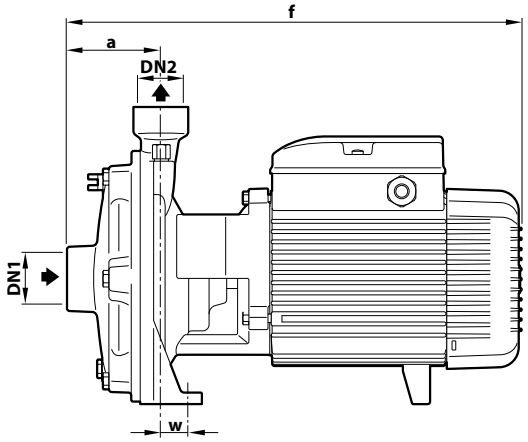
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

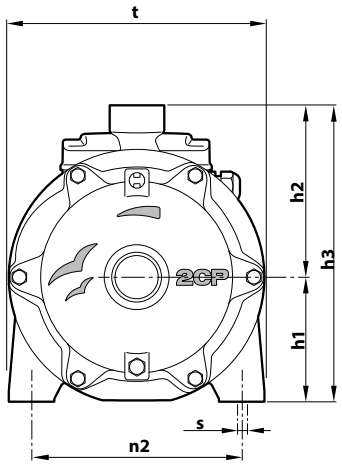
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
2CPm 25/14B	7.7 A
2CPm 25/14A	10.5 A
2CPm 25/16C	7.7 A
2CPm 25/16B	10.0 A
2CPm 25/16A	13.8 A

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
2CP 25/14B	5.4 A	3.1 A	–	–
2CP 25/14A	6.9 A	4.0 A	–	–
2CP 25/16C	5.4 A	3.1 A	–	–
2CP 25/16B	6.9 A	4.0 A	–	–
2CP 25/16A	9.2 A	5.3 A	–	–
2CP 32/200C	12.8 A	7.4 A	–	–
2CP 32/200B	18.2 A	10.5 A	–	–
2CP 32/210B	–	–	12.5 A	7.2 A
2CP 32/210A	–	–	16.0 A	9.2 A
2CP 40/180C	17.0 A	9.8 A	–	–
2CP 40/180B	–	–	12.3 A	7.1 A
2CP 40/180A	–	–	15.4 A	8.9 A
2CP 40/200B	–	–	17.5 A	10.1 A
2CP 40/200A	–	–	20.0 A	11.6 A

DIMENSIONS AND WEIGHT





TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h1	h2	h3	t	n2	w	s	1~	3~
2CPm 25/14B	**2CP 25/14B**	**1¼"**	**1"**	82	404	93	130	223	200	162	17	10	20.8	20.8
2CPm 25/14A	**2CP 25/14A**					110	151	261	225	185	26	11	24.7	24.6
2CPm 25/16C	**2CP 25/16C**					93	130	223	200	162	17	10	21.3	20.6
2CPm 25/16B	**2CP 25/16B**					110	151	261	226	185	26	11	24.5	24.4
2CPm 25/16A	**2CP 25/16A**				424								27.1	27.3
–	**2CP 32/200C**	**1½"**	**1¼"**	95	464	132	172	304	266	206	19	14	–	38.9
–	**2CP 32/200B**												–	42.0
–	**2CP 32/210B**	**2"**		108	541	139	195	334	292	232	21		–	54.9
–	**2CP 32/210A**												–	60.0
–	**2CP 40/180C**		**1½"**		496								–	48.7
–	**2CP 40/180B**				542								–	53.0
–	**2CP 40/180A**												–	59.0
–	**2CP 40/200B**			110	620	160	195	355	298				–	93.0
–	**2CP 40/200A**												–	92.0

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
2CPm 25/14B	**2CP 25/14B**	50
2CPm 25/14A	**2CP 25/14A**	50
2CPm 25/16C	**2CP 25/16C**	50
2CPm 25/16B	**2CP 25/16B**	50
2CPm 25/16A	**2CP 25/16A**	35

TYPE	NO. OF PUMPS
Three-phase	
2CP 32/200C	18
2CP 32/200B	18
2CP 32/210B	12
2CP 32/210A	12
2CP 40/180C	12
2CP 40/180B	12
2CP 40/180A	12
2CP 40/200B	6
2CP 40/200A	6

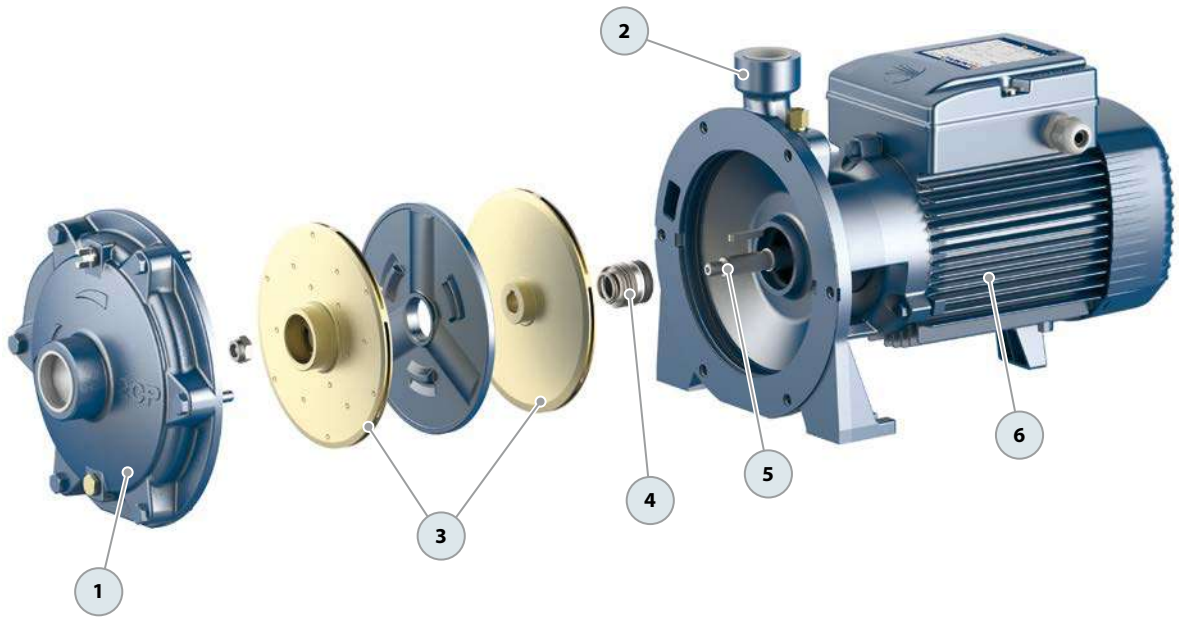
MATERIALS AND COMPONENTS

1	**Suction body**	Cast iron with ISO 228/1 threaded suction port
2	**Delivery port**	Cast iron with ISO 228/1 threaded delivery port
3	**Impellers**	Brass

4 **Mechanical seal**

Water pump	Seal	Shaft	Materials
2CP 25/14 2CP 25/16	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR
2CP 32/200	**FN-20**	Ø 20 mm	Graphite / Ceramic / NBR
2CP 32/210 2CP 40/180	**FN-24**	Ø 24 mm	Graphite / Ceramic / NBR
2CP 40/200	**FN-32 NU**	Ø 32 mm	Graphite / Ceramic / NBR

5	**Motor shaft**	Stainless steel **AISI 431**
6	**Electric motor**	**2CPm**: single-phase 230 V - 50Hz with winding integrated thermal motor protection **2CP**: three-phase 230/400 V - 50 Hz up to 4 kW 400/690 V - 50 Hz 5.5 to 11 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**



2-5CP - I Multi-stage centrifugal pumps

Clean water

Domestic use



※ Particularly quiet, energy-efficient multi-stage pumps equipped with stainless steel impeller

PERFORMANCE RANGE

- Flow rate up to **130 l/min** (7.8 m³/h)
- Head up to **67 m**

INSTALLATION AND USE

They are recommended for pumping clean water and chemically non-aggressive liquids for the pump materials.

Due to their reliability and quietness, they are widely used in the domestic sector and especially for water distribution coupled with small or medium-sized autoclave tanks, for irrigating vegetable gardens or orchards, etc.

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 **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

PATENTS - TRADE MARKS - MODELS

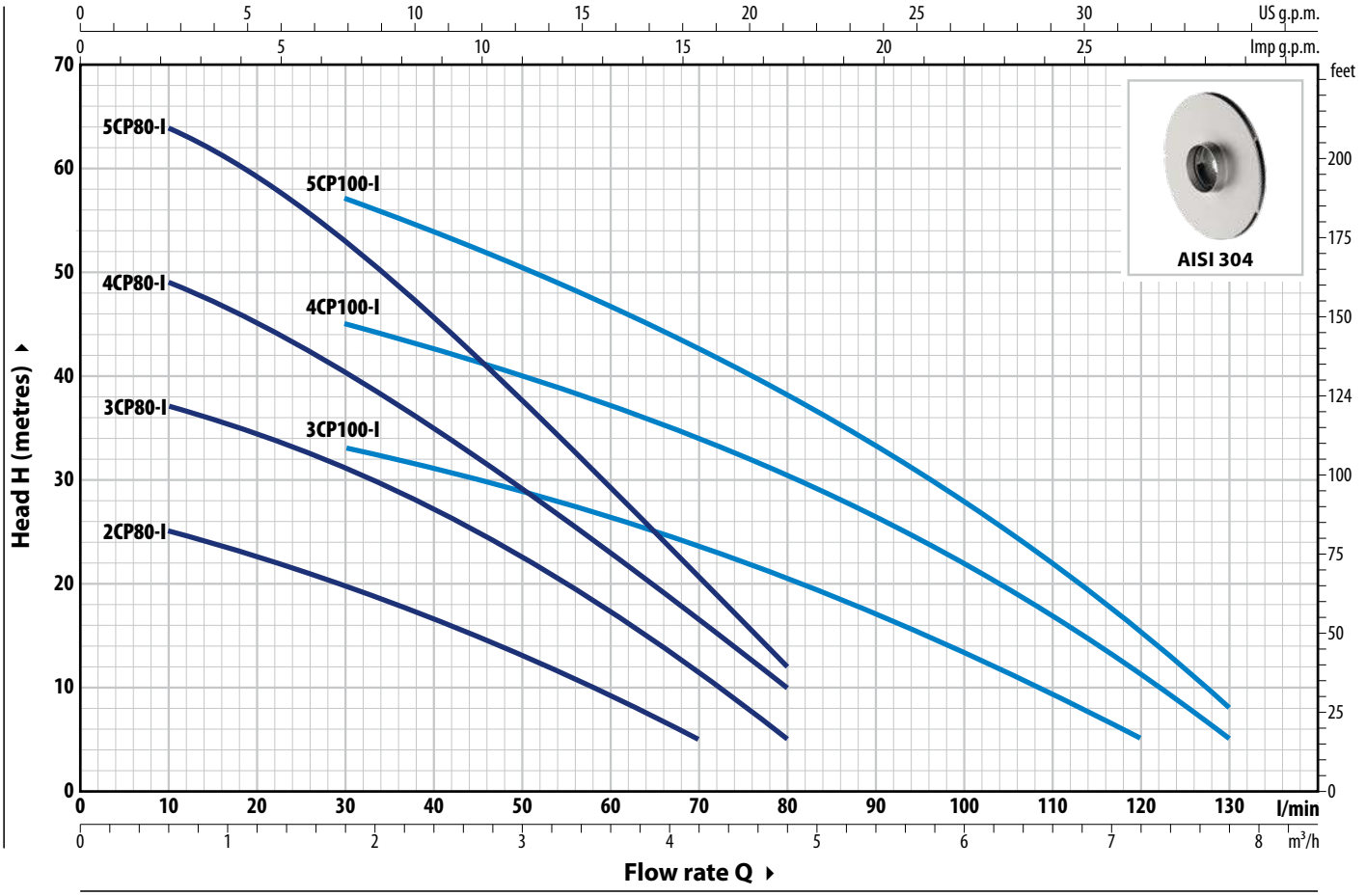
- Registered Community Model No. 002073635-0001

AVAILABLE UPON REQUEST

※ Technopolymer impeller (cost-effective version)
※ 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	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-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**
2CPm 80-I	**2CP 80-I**	0.30	0.40					27	26	25	22.5	20	16.5	13	9	5						
3CPm 80-I	**3CP 80-I**	0.45	0.60					40	38	37	34.5	31	27	22.5	17	11	5					
4CPm 80-I	**4CP 80-I**	0.55	0.75					52	50	49	44.5	40	34	28.5	22.5	16	10					
5CPm 80-I	**5CP 80-I**	0.75	1	**IE2**	**IE3**	**H**	metres	67	66	64	59	53	45.5	37.5	29.5	20.5	12					
3CPm 100-I	**3CP 100-I**	0.55	0.75					38	37	36	34.5	33	31	28	26	23	20	17	13.5	10	5	
4CPm 100-I	**4CP 100-I**	0.75	1					50	50	49	47	45	42	39.5	37	34	30.5	26.5	22	17	11	5
5CPm 100-I	**5CP 100-I**	0.90	1.25					63	62	61.5	59.5	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

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

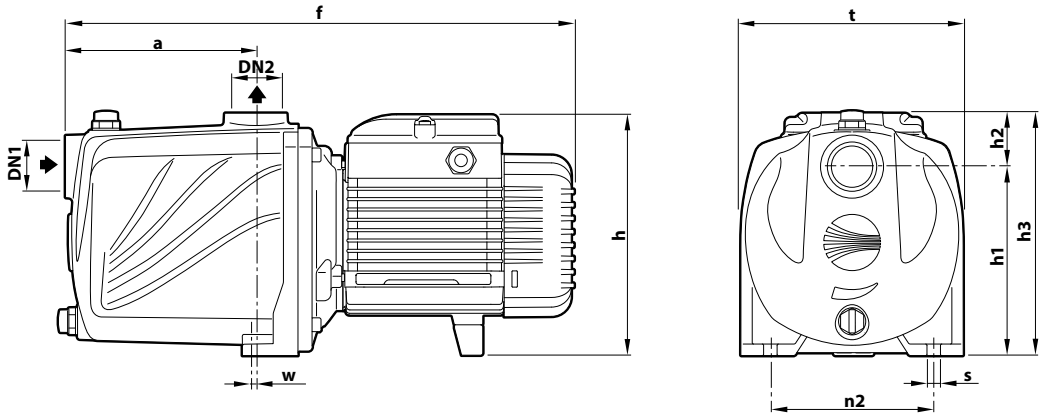
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
2CPm 80-I	2.3 A
3CPm 80-I	3.2 A
4CPm 80-I	3.9 A
5CPm 80-I	5.3 A
3CPm 100-I	4.1 A
4CPm 100-I	5.8 A
5CPm 100-I	6.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
2CP 80-I	1.7 A	1.0 A
3CP 80-I	2.6 A	1.5 A
4CP 80-I	3.5 A	2.0 A
5CP 80-I	4.3 A	2.5 A
3CP 100-I	3.5 A	2.0 A
4CP 100-I	4.3 A	2.5 A
5CP 100-I	4.3 A	2.5 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~
2CPm 80-I	**2CP 80-I**	**1"**	**1"**	110	338	172	134	38	172	158	118	1	10	9.7	9.7
3CPm 80-I	**3CP 80-I**													10.7	10.7
4CPm 80-I	**4CP 80-I**			135	363									12.2	11.5
5CPm 80-I	**5CP 80-I**				382	192 *								15.1	15.1
3CPm 100-I	**3CP 100-I**			110	338	172								11.4	10.7
4CPm 100-I	**4CP 100-I**			135	382	192 *								14.9	15.5
5CPm 100-I	**5CP 100-I**													14.9	15.7

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

PALLET CAPACITY

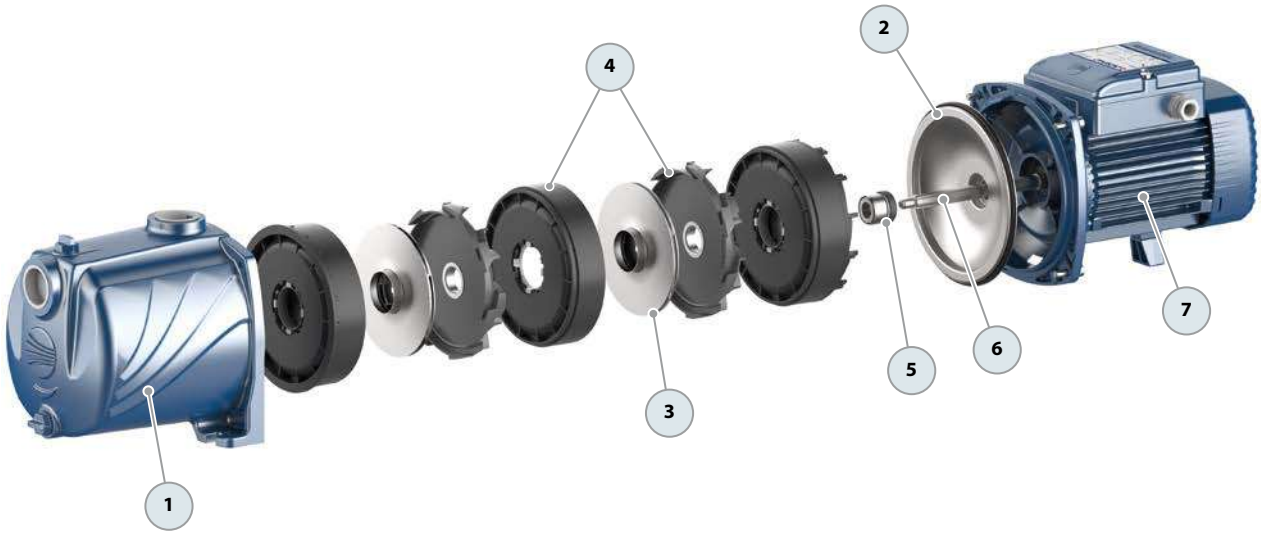
TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
2CPm 80-I	**2CP 80-I**	84
3CPm 80-I	**3CP 80-I**	84
4CPm 80-I	**4CP 80-I**	84
5CPm 80-I	**5CP 80-I**	72
3CPm 100-I	**3CP 100-I**	84
4CPm 100-I	**4CP 100-I**	72
5CPm 100-I	**5CP 100-I**	72

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment 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**	**2-5CPm -I**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **2-5CP -I**: 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**



2-5CR Multi-stage centrifugal pumps

Clean water

Domestic use

Civil use



※ Quiet, energy-efficient stainless steel multi-stage pumps

※ Pump body: **Stainless steel AISI 304**
※ Cover: **Stainless steel AISI 304**
※ Impellers: **Stainless steel AISI 304**
※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **130 l/min** (7.8 m³/h)
- Head up to **67 m**

INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components. Highly reliable and quiet, they are suitable for domestic applications.

They work seamlessly with 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

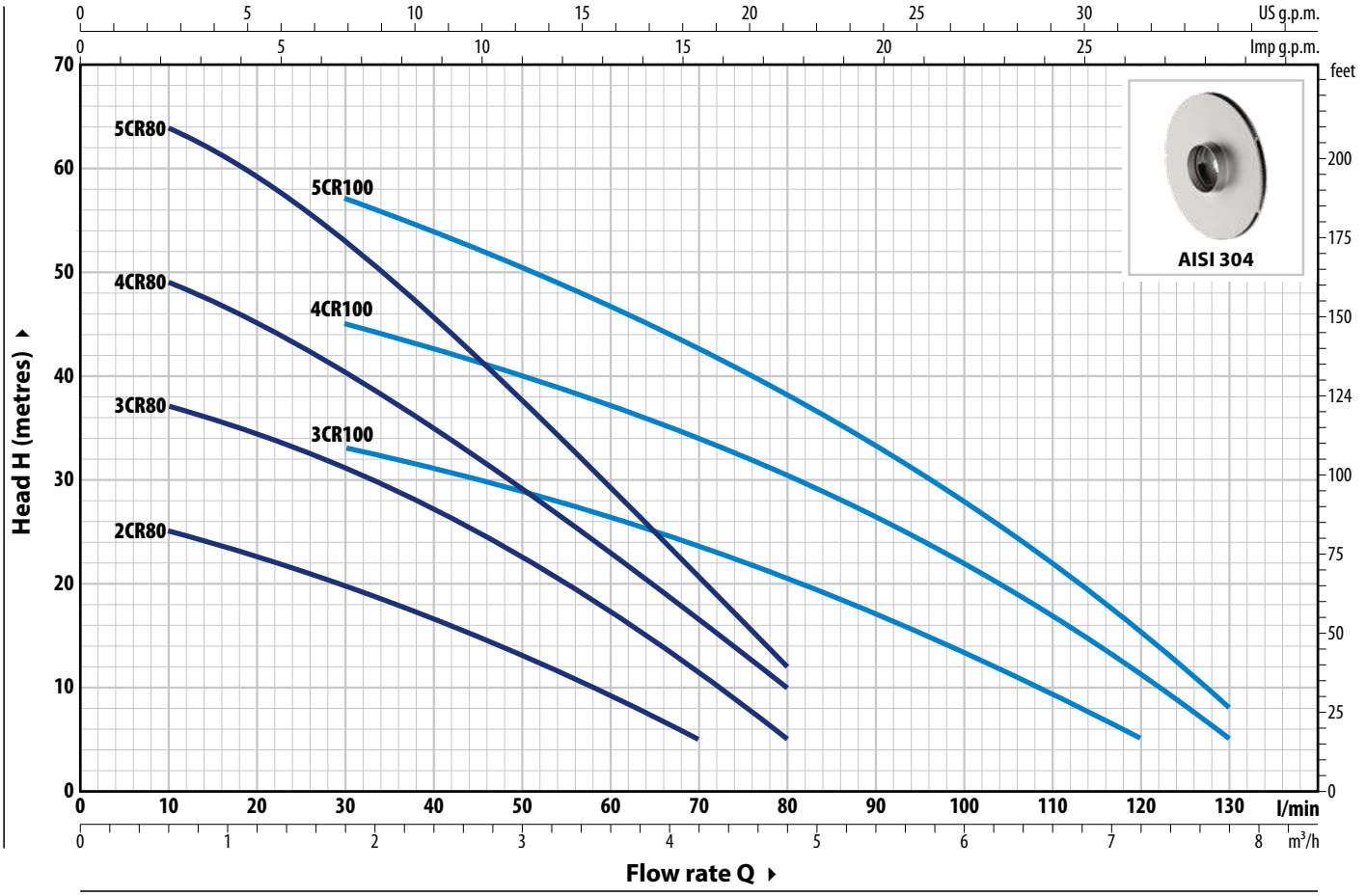
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **7 bar**

AVAILABLE UPON REQUEST

※ Technopolymer impeller (cost-effective version)
※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ Certified pumps WRAS APPROVED PRODUCT

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-ph.	Three-ph.	kW	HP	1~	3~		l/min	0	5	10	20	30	40	50	60	70	80	90	100	110	120	130
2CRm 80	2CR 80	0.30	0.40	IE2	IE3	H metres		27	26	25	22.5	20	16.5	13	9	5						
3CRm 80	3CR 80	0.45	0.60					40	38	37	34.5	31	27	22.5	17	11	5					
4CRm 80	4CR 80	0.55	0.75					52	50	49	44.5	40	34	28.5	22.5	16	10					
5CRm 80	5CR 80	0.75	1					67	66	64	59	53	45.5	37.5	29.5	20.5	12					
3CRm 100	3CR 100	0.55	0.75					38	37	36	34.5	33	31	28	26	23	20	17	13.5	10	5	
4CRm 100	4CR 100	0.75	1					50	50	49	47	45	42	39.5	37	34	30.5	26.5	22	17	11	5
5CRm 100	5CR 100	0.90	1.25					63	62	61.5	59.5	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

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

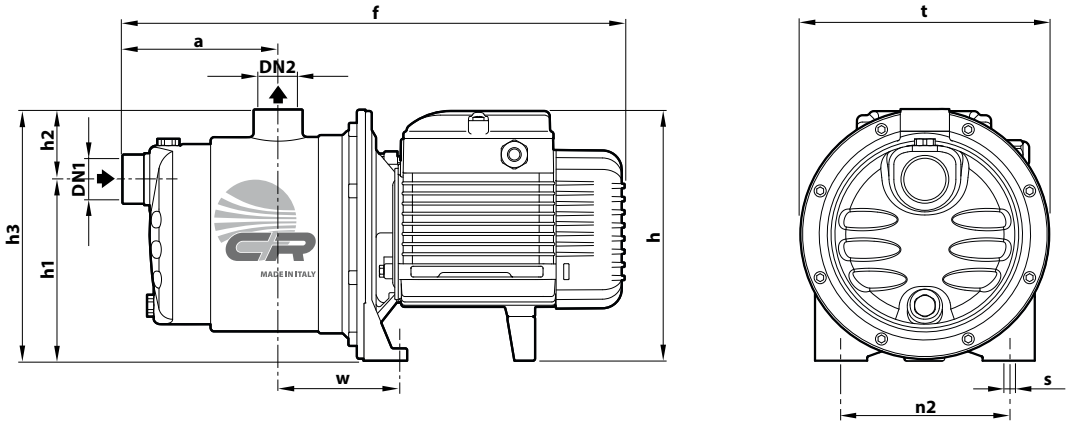
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
2CRm 80	2.2 A
3CRm 80	3.2 A
4CRm 80	3.9 A
5CRm 80	5.5 A
3CRm 100	3.9 A
4CRm 100	5.8 A
5CRm 100	6.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
2CR 80	1.7 A	1.0 A
3CR 80	2.6 A	1.5 A
4CR 80	3.5 A	2.0 A
5CR 80	4.3 A	2.5 A
3CR 100	3.5 A	2.0 A
4CR 100	4.0 A	2.3 A
5CR 100	4.3 A	2.5 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~
2CRm 80	**2CR 80**	**1"**	**1"**	113	367	182	132	51	183	182	120	87	9	6.9	6.9
3CRm 80	**3CR 80**													7.9	7.9
4CRm 80	**4CR 80**			138	392									9.1	8.4
5CRm 80	**5CR 80**				410	202 *							10	11.8	11.8
3CRm 100	**3CR 100**			113	367	182							9	8.6	7.9
4CRm 100	**4CR 100**			138	410	202 *							10	11.6	11.6
5CRm 100	**5CR 100**													12.4	11.7

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

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
2CRm 80	**2CR 80**	84
3CRm 80	**3CR 80**	84
4CRm 80	**4CR 80**	72
5CRm 80	**5CR 80**	72
3CRm 100	**3CR 100**	84
4CRm 100	**4CR 100**	72
5CRm 100	**5CR 100**	72

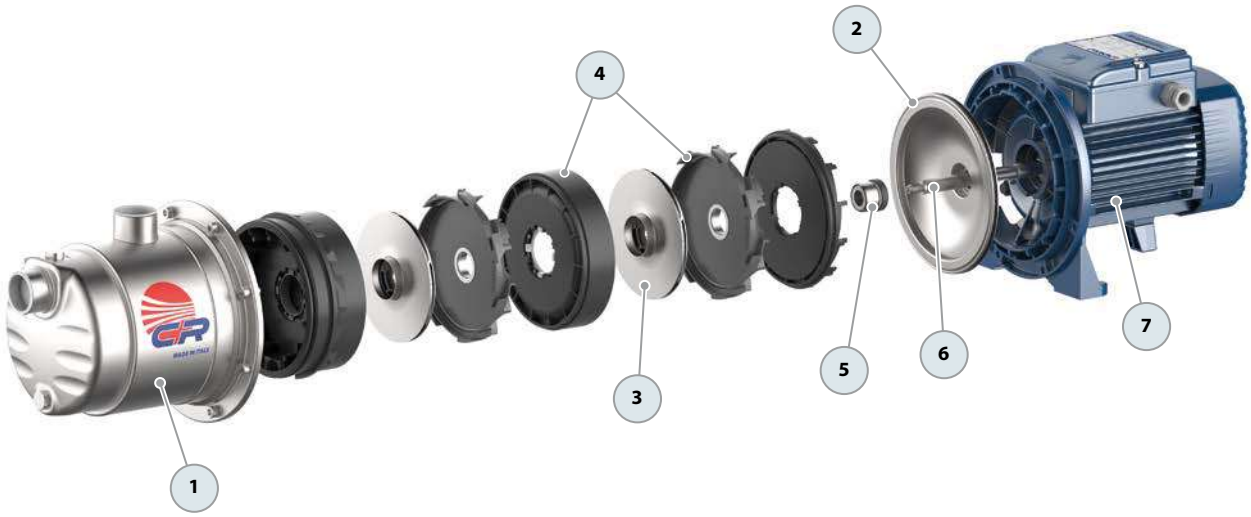
MATERIALS AND COMPONENTS

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**	**2-5CRm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **2-5CR**: 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**



FCR Stainless steel multi-stage centrifugal pumps

Clean water

Domestic use

Civil use



※ Quiet, energy-efficient stainless steel multi-stage pumps

※ Pump body: **Stainless steel AISI 304**
※ Cover: **Stainless steel AISI 304**
※ Impellers: **Stainless steel AISI 304**
※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **130 l/min** (7.8 m³/h)
- Head up to **67 m**

INSTALLATION AND USE

Quiet performance and efficient energy use make them perfect for water supply and pressurization tasks. They integrate with pressure tanks for optimal water distribution, making them suitable for a wide range of uses from industrial applications to irrigation 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.

KEY FEATURES

※ Stainless steel components extend service life and enhance efficiency.
※ Multi-stage design results in exceptionally quiet operation.

APPLICATION LIMITS

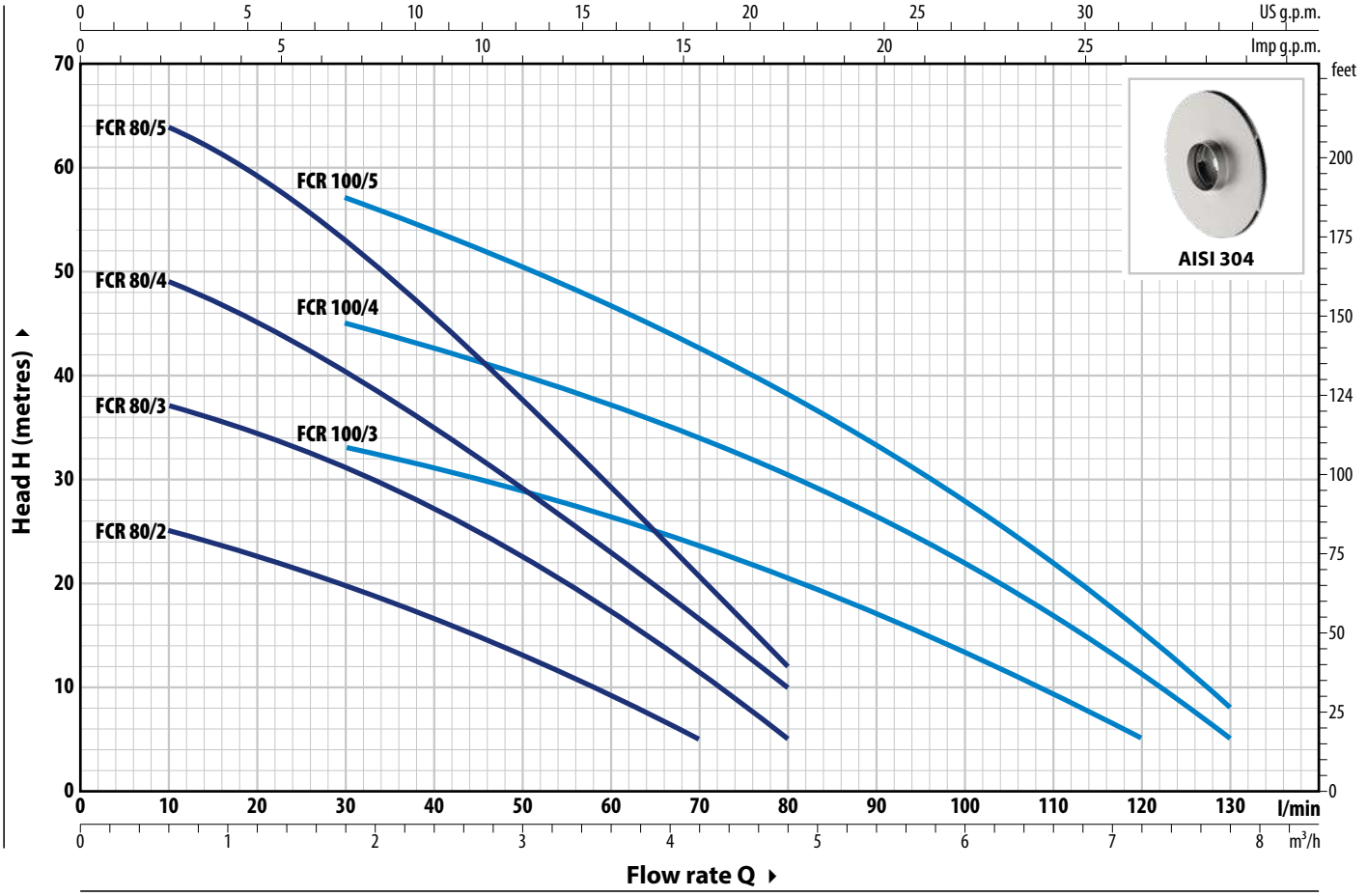
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **7 bar**

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ Certified pumps WRAS APPROVED PRODUCT

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	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**
FCRm 80/2	**FCR 80/2**	0.30	0.40					27	26	25	24	22.5	21	20	16.5	13	9	5						
FCRm 80/3	**FCR 80/3**	0.45	0.60					40	38	37	36	34.5	33	31	27	22.5	17	11	5					
FCRm 80/4	**FCR 80/4**	0.55	0.75					52	50	49	47	44.5	42	40	34	28.5	22.5	16	10					
FCRm 80/5	**FCR 80/5**	0.75	1	**IE2**	**IE3**	**H**	metres	67	66	64	62	59	56	53	45.5	37.5	29.5	20.5	12					
FCRm 100/3	**FCR 100/3**	0.55	0.75					38	37	36	35	34.5	33.5	33	31	28	26	23	20	17	13.5	10	5	
FCRm 100/4	**FCR 100/4**	0.75	1					50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5
FCRm 100/5	**FCR 100/5**	0.90	1.25					63	62	61.5	60.5	59.5	58	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

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

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

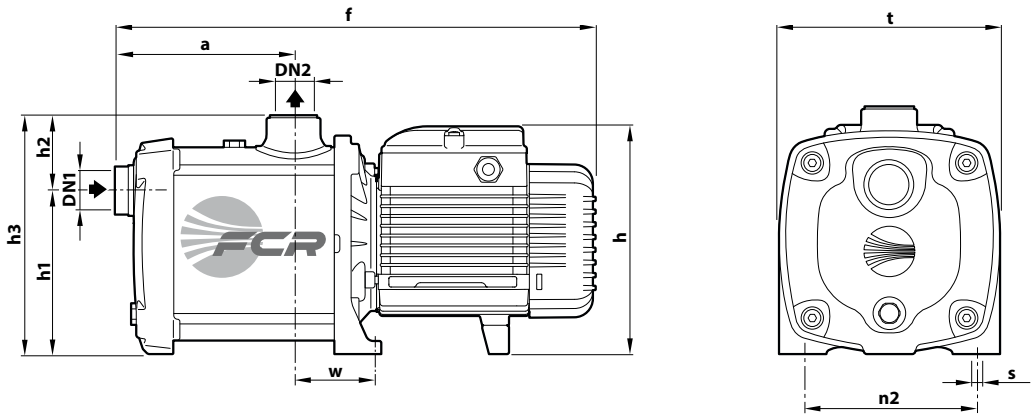
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
FCRm 80/2	2.1 A
FCRm 80/3	3.2 A
FCRm 80/4	3.9 A
FCRm 80/5	5.5 A
FCRm 100/3	3.9 A
FCRm 100/4	5.8 A
FCRm 100/5	6.8 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
FCR 80/2	1.6 A	0.9 A
FCR 80/3	2.2 A	1.3 A
FCR 80/4	2.9 A	1.7 A
FCR 80/5	4.0 A	2.3 A
FCR 100/3	2.9 A	1.7 A
FCR 100/4	4.0 A	2.3 A
FCR 100/5	4.3 A	2.5 A

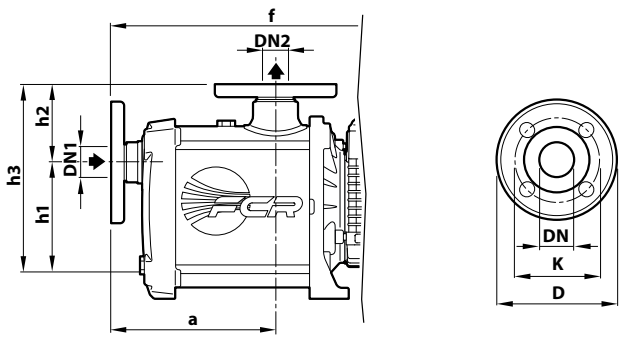
DIMENSIONS AND WEIGHT

WITH THREADED PORTS



MODEL		PORTS		DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
FCRm 80/2	**FCR 80/2**	**1"**	**1"**	107	333	171	122	56	178	160	125	56.5	9	6.9	6.9
FCRm 80/3	**FCR 80/3**													7.9	7.9
FCRm 80/4	**FCR 80/4**			132	358									9.3	9.1
FCRm 80/5	**FCR 80/5**				377	189								11.8	11.8
FCRm 100/3	**FCR 100/3**			107	333	171								8.8	8.1
FCRm 100/4	**FCR 100/4**			132	377	189								11.6	11.6
FCRm 100/5	**FCR 100/5**													12.4	12.1

WITH FLANGED PORTS

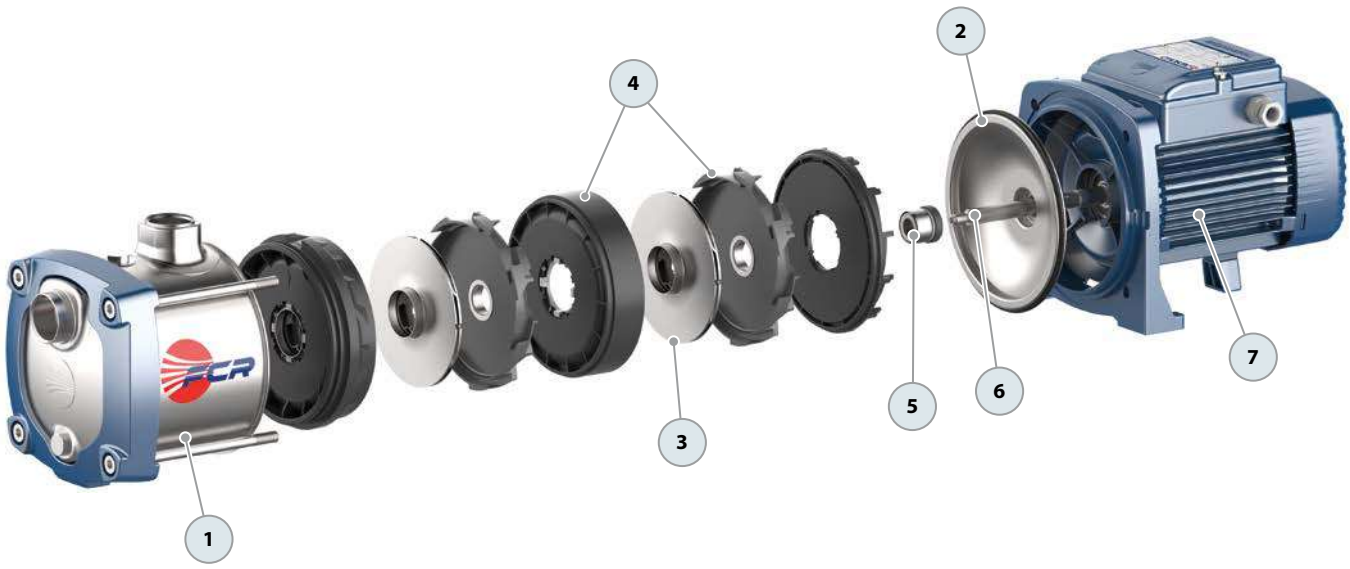


TYPE	PORTS		DIMENSIONS mm				
	DN1	DN2	a	f	h1	h2	h3
FCR 80/2	**25**	**25**	129	355	122	78	200
FCR 80/3							
FCR 80/4			154	380			
FCR 80/5				399			
FCR 100/3			129	355			
FCR 100/4			154	399			
FCR 100/5							

FLANGE	D	K	HOLES	
DN	mm	mm	N°	Ø (mm)
25	85	115	4	14
25	85	115	4	14

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: **AR-13** — Shaft: Ø 13 mm — Materials: Ceramic / Graphite / NBR
6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**FCRm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **FCR**: 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**



FCR Stainless steel multi-stage centrifugal pumps

Clean water

Domestic use

Civil use



※ Quiet, energy-efficient stainless steel multi-stage pumps

※ Pump body: **Stainless steel AISI 304**
※ Cover: **Stainless steel AISI 304**
※ Diffusers: **Stainless steel AISI 304**
※ Impellers: **Stainless steel AISI 304**
※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **240 l/min** (14.4 m³/h)
- Head up to **113 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.

KEY FEATURES

※ Stainless steel components extend service life and enhance efficiency.
※ Multi-stage design results in exceptionally quiet operation.

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 **11 bar**

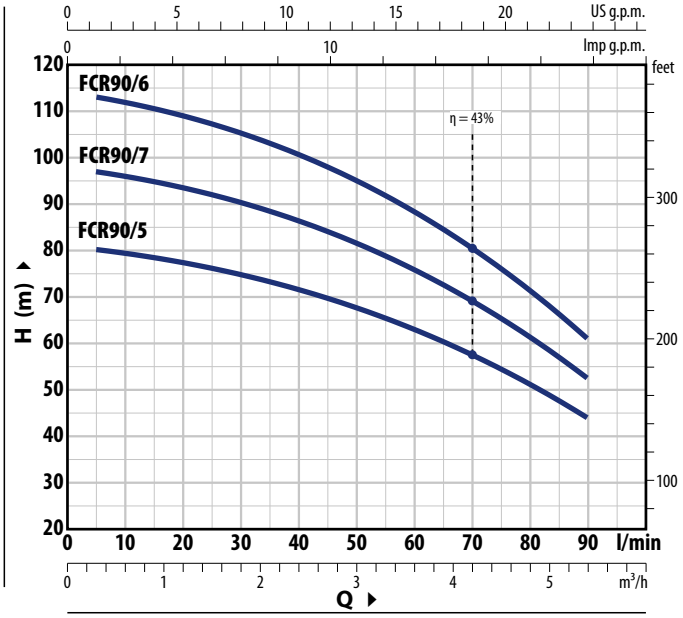
AVAILABLE UPON REQUEST

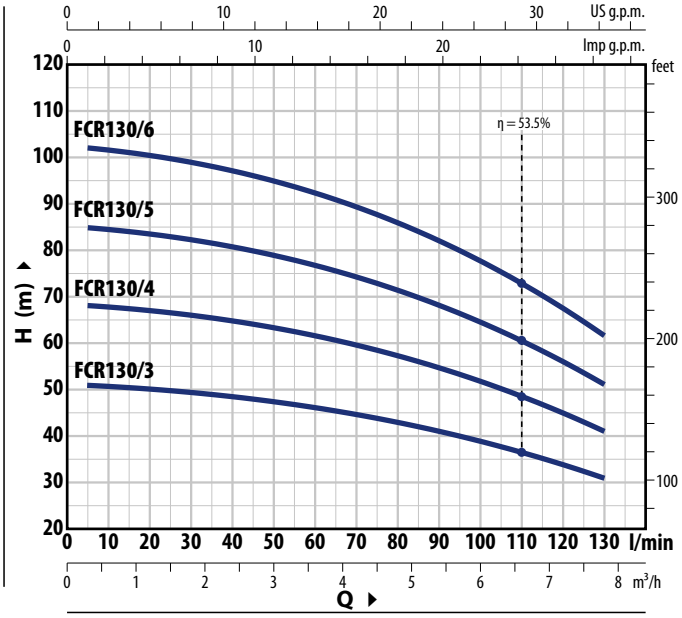
※ Technopolymer impeller (cost-effective version)
※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ IPX5 protection
※ Certified pumps WRAS APPROVED PRODUCT
※ ISO 228/1 standard flanges for suction and discharge openings, made of AISI 304 stainless steel



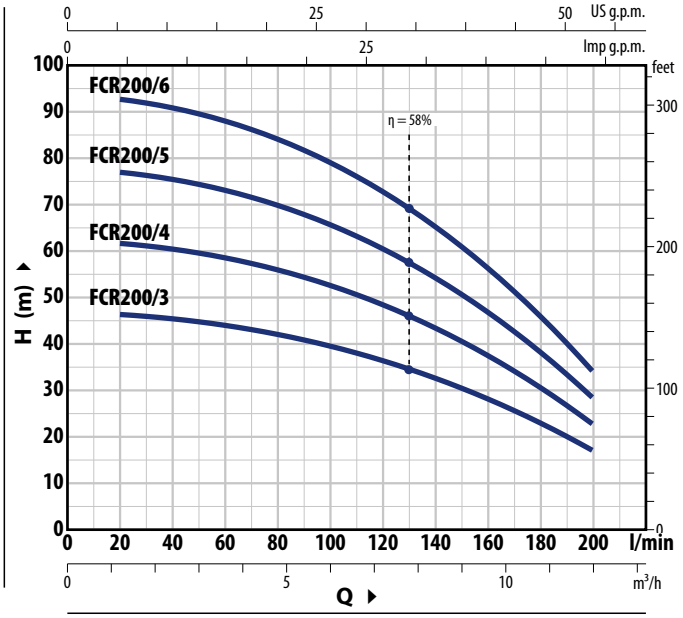
CURVES AND PERFORMANCE DATA – HS=0 m

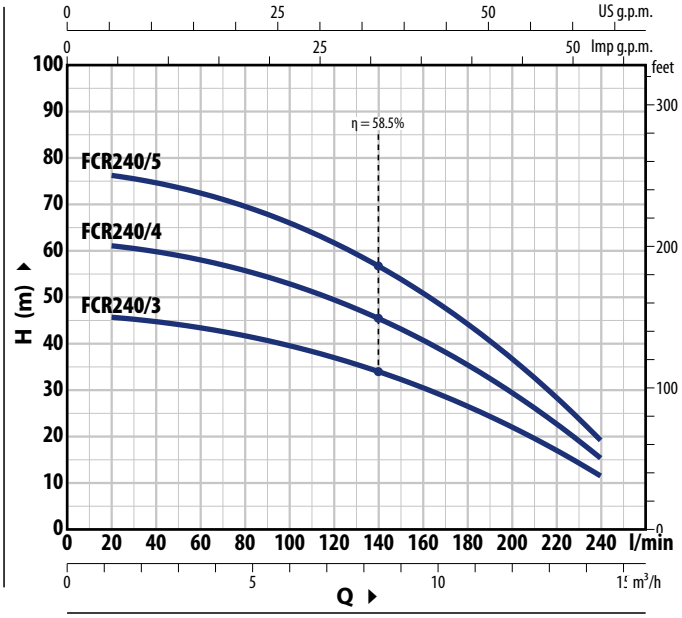
50 Hz





TYPE		POWER (P2)				Q m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6.0	7.8
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**	Q l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**100**	**130**
FCRm 90/5	**FCR 90/5**	1.1	1.5				81	80	79	77	71	62.5	51	44		
FCRm 90/6	**FCR 90/6**	1.5	2	**IE2**	**IE3**	**H** metres	97	96	95	93	86	75	61	52		
FCRm 90/7	**FCR 90/7**	1.8	2.5				113	112	111	108	100	88	71	61		
FCRm 130/3	**FCR 130/3**	1.1	1.5				51.5	51.5	51	50.5	49	46.5	43	41	39	31
FCRm 130/4	**FCR 130/4**	1.5	2	**IE2**	**IE3**	**H** metres	68.5	68.5	68	67	65	62	57.5	55	52	41
FCRm 130/5	**FCR 130/5**	1.8	2.5				86	85	85	84	81	77	72	68.5	65	51.5
FCRm 130/6	**FCR 130/6**	2.2	3				103	103	102	101	98	93	86	82	78	62





TIPO		POTENZA (P2)				Q m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4
Monofase	**Trifase**	**kW**	**HP**	**1~**	**3~**	Q l/min	**0**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**220**	**240**
FCRm 200/3	**FCR 200/3**	1.1	1.5				47	46.5	45.5	44	42	39.5	36.5	32.5	28	23.1	17		
FCRm 200/4	**FCR 200/4**	1.5	2	**IE2**	**IE3**	**H** metres	62.5	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23		
FCRm 200/5	**FCR 200/5**	1.8	2.5				78	77.5	76	73	70	66	61	54.5	47	38.5	28.5		
FCRm 200/6	**FCR 200/6**	2.2	3				94	93	91	88	84	79	73	65.5	56.5	46	34.5		
※ **FCRm 240/3**	**FCR 240/3**	1.5	2				46.5	46	45	43.5	42	39.5	37	34	30.5	26.6	22	17	11.5
※ **FCRm 240/4**	**FCR 240/4**	1.8	2.5	**IE2**	**IE3**	**H** metres	62	61	60	58	55.5	53	49.5	45.5	41	35.5	29.5	22.8	15.5
※ **FCRm 240/5**	**FCR 240/5**	2.2	3				77	76.5	75	73	69.5	66	62	57	51	44.5	37	28.5	19

Q = Portata **H** = Prevalenza manometrica totale **HS** = Altezza di aspirazione

Tolleranza delle curve di prestazione secondo EN ISO 9906 Grado 3B.

※ **Start of production 04.2024** ※

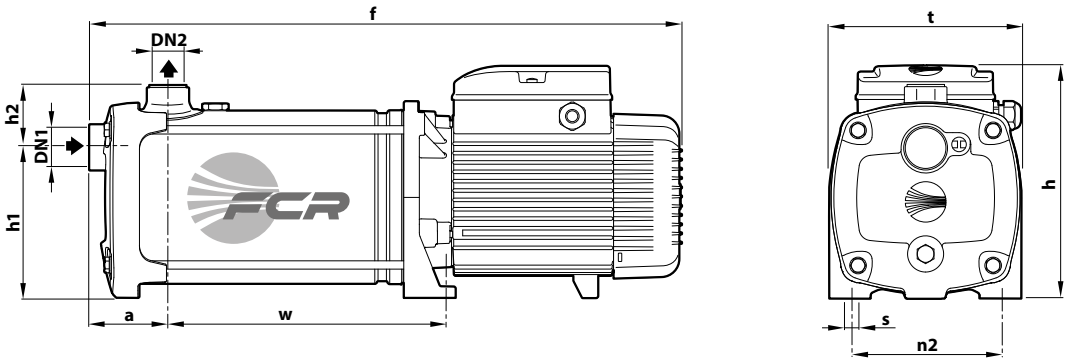
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
FCRm 90/5	9.0 A
FCRm 90/6	10.5 A
FCRm 90/7	12.5 A
FCRm 130/3	8.5 A
FCRm 130/4	10.3 A
FCRm 130/5	12.5 A
FCRm 130/6	13.5 A
FCRm 200/3	8.7 A
FCRm 200/4	10.5 A
FCRm 200/5	12.5 A
FCRm 200/6	14.0 A
FCRm 240/3	8.5 A
FCRm 240/4	10.5 A
FCRm 240/5	12.5 A

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
FCR 90/5	6.1 A	3.5 A
FCR 90/6	6.9 A	4.0 A
FCR 90/7	8.3 A	4.8 A
FCR 130/3	5.5 A	3.2 A
FCR 130/4	6.9 A	4.0 A
FCR 130/5	8.6 A	5.0 A
FCR 130/6	9.0 A	5.2 A
FCR 200/3	5.9 A	3.4 A
FCR 200/4	7.3 A	4.2 A
FCR 200/5	8.6 A	5.0 A
FCR 200/6	9.5 A	5.5 A
FCR 240/3	5.7 A	3.3 A
FCR 240/4	7.6 A	4.4 A
FCR 240/5	8.6 A	5.0 A

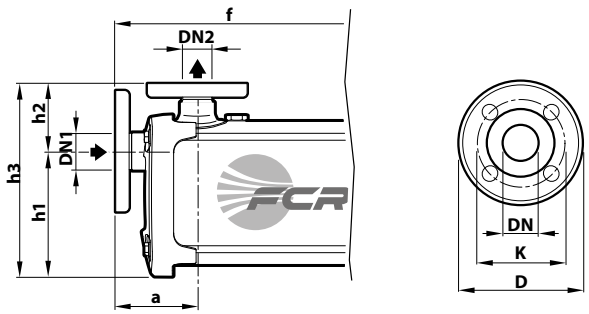
DIMENSIONS AND WEIGHT

※ WITH THREADED PORTS



TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	f	h	h1	h2	t	n2	w	s	1~	3~
FCRm 90/5	**FCR 90/5**	**1¼"**	**1"**	75	492	228	145	59	185	145	191	11	20.0	20.0
FCRm 90/6	**FCR 90/6**				518						217		22.0	22.0
FCRm 90/7	**FCR 90/7**				564						243		25.7	25.7
FCRm 130/3	**FCR 130/3**				440						139		18.0	18.0
FCRm 130/4	**FCR 130/4**				466						165		20.2	20.2
FCRm 130/5	**FCR 130/5**				512						191		23.7	23.7
FCRm 130/6	**FCR 130/6**				538						217		24.7	24.7
FCRm 200/3	**FCR 200/3**				440						139		18.0	18.0
FCRm 200/4	**FCR 200/4**				466						165		20.2	20.2
FCRm 200/5	**FCR 200/5**				512						191		23.7	23.7
FCRm 200/6	**FCR 200/6**				538						217		24.7	24.7
FCRm 240/3	**FCR 240/3**				440						139		19.2	19.2
FCRm 240/4	**FCR 240/4**				486						165		22.7	22.7
FCRm 240/5	**FCR 240/5**				512						191		23.7	23.7

※ WITH FLANGED PORTS

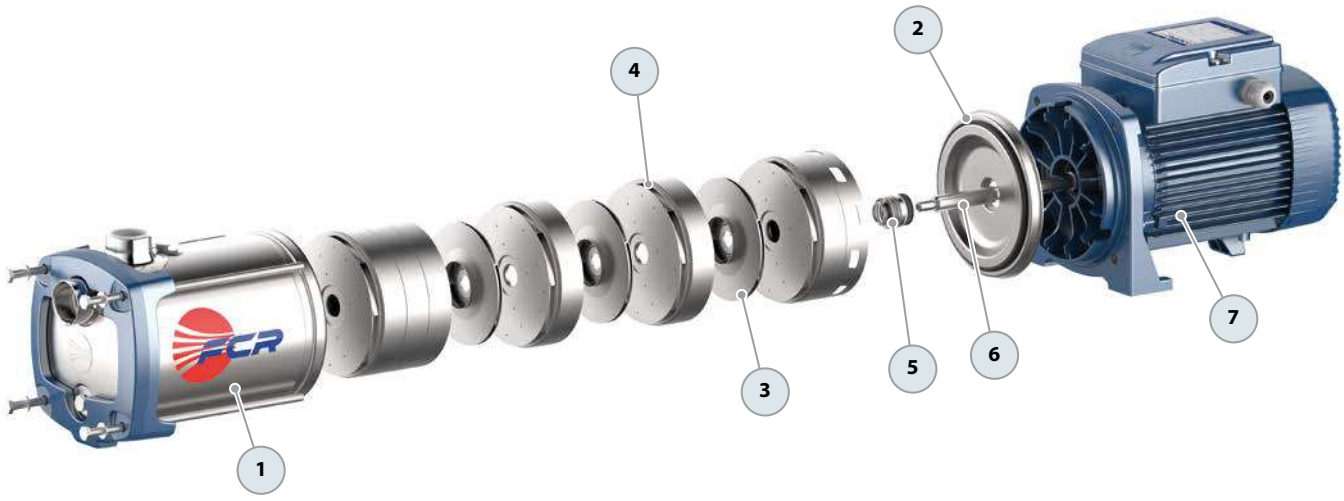


TYPE	PORTS		DIMENSIONS mm				
	DN1	DN2	a	f	h1	h2	h3
FCR 90/5	**25**	**32**	97.5	515	145	82	227
FCR 90/6				541			
FCR 90/7				587			
FCR 130/3				463			
FCR 130/4				489			
FCR 130/5				535			
FCR 130/6				561			
FCR 200/3				463			
FCR 200/4				489			
FCR 200/5				535			
FCR 200/6				561			
FCR 240/3				463			
FCR 240/4				509			
FCR 240/5				535			

FLANGES **DN**	D (mm)	K (mm)	N° HOLES	Ø (mm)
25	85	115	4	14
32	100	140	4	18

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304** 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**	**FCRm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection **FCR**: 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 modelss Continuous running duty **S1**



FCR Stainless steel multi-stage centrifugal pumps

Clean water
Civil use
Industrial use



※ Low noise, low energy stainless steel multi-stage pumps

※ Pump body: **Stainless steel AISI 304**
※ Cover: **Stainless steel AISI 304**
※ Diffusers: **Stainless steel AISI304**
※ Impellers: **Stainless steel AISI 304**
※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **800 l/min** (48 m³/h)
- Head up to **120 m**

INSTALLATION AND USE

Due to their silent operation and energy efficiency, these pumps are ideal for water supply and pressurization, water distribution in conjunction with autoclaves, industrial uses, and irrigation 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**, class F insulation and IP55 protection.

KEY FEATURES

※ Stainless steel components extend service life and enhance efficiency.
※ Multi-stage design results in exceptionally quiet operation.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **12 bar**

AVAILABLE UPON REQUEST

※ AISI 316 stainless steel pump.
※ Handling of liquids with higher or lower temperatures.
※ Different voltage requirements 60 Hz frequency
※ **WRAS-certified** pumps
※ ISO 228/1 standard flanges for suction and discharge openings, made of AISI 304 stainless steel.

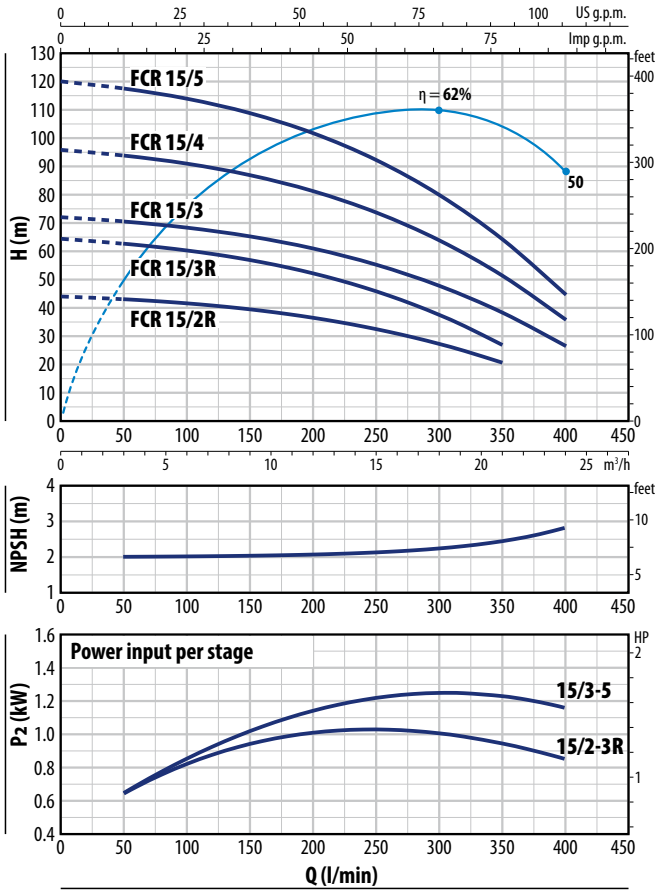




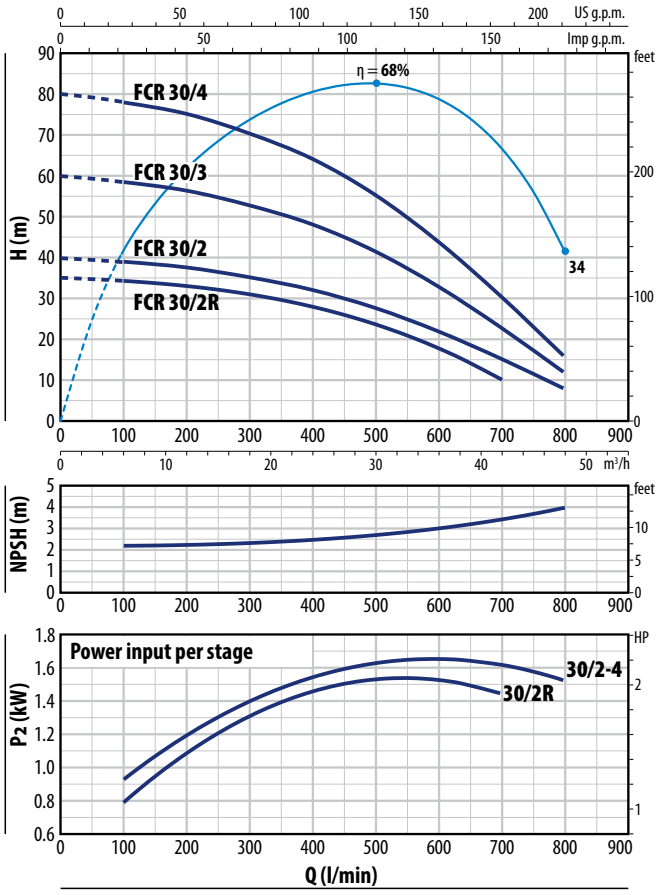
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

FCR 15



FCR 30



FCR 15

TYPE	POWER (P2)			Q m³/h	0	3	6	12	18	21	24
Three-phase	kW	HP	3~	l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**
FCR 15/2R	2.2	3	IE3	H metres	44	43	41.5	36.5	27.5	20.5	
FCR 15/3R	3	4			64.5	62.5	60.5	52.0	37.5	27	
FCR 15/3	4	5.5			72	70	68.5	61	48	38.5	27
FCR 15/4	5.5	7.5			96	94	91	81	64	51.5	36
FCR 15/5	7.5	10			120	117	114	102	80	64.5	45

FCR 30

TYPE	POWER (P2)			Q m³/h	0	6	12	18	24	36	42	48
Three-phase	kW	HP	3~	l/min	**0**	**100**	**200**	**300**	**400**	**600**	**700**	**800**
FCR 30/2R	3	4	IE3	H metres	35	34	33	31	28	17.6	10	
FCR 30/2	4	5.5			40	39	37.5	35	31.5	22	15.7	8
FCR 30/3	5.5	7.5			60	58.5	56	52.5	47.5	33	23.5	12
FCR 30/4	7.5	10			80	78	75	70	63	44	31.3	16

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

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

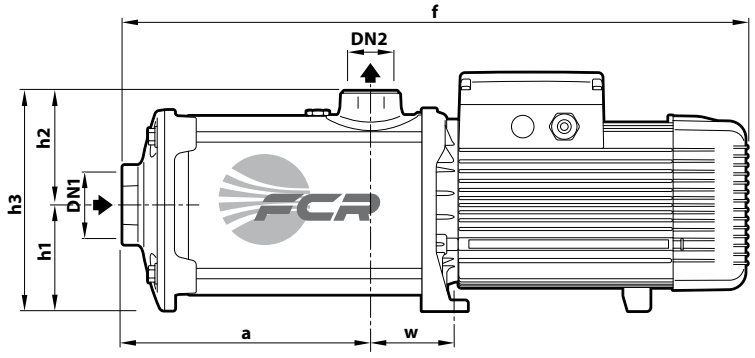
ABSORPTION

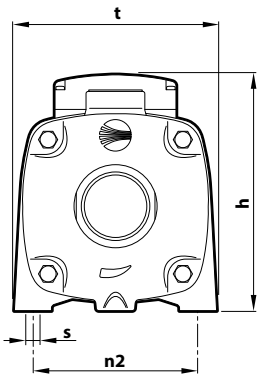
TYPE	VOLTAGE			
Three-ph.	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
FCR 15/2R	10.4 A	6.0 A	–	–
FCR 15/3R	12.5 A	7.2 A	–	–
FCR 15/3	15.2 A	8.8 A	–	–
FCR 15/4	–	–	11.2 A	6.5 A
FCR 15/5	–	–	14.2 A	8.2 A

TYPE	VOLTAGE			
Three-ph.	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
FCR 30/2R	12.1 A	7.0 A	–	–
FCR 30/2	15.2 A	8.8 A	–	–
FCR 30/3	–	–	11.2 A	6.5 A
FCR 30/4	–	–	14.1 A	8.2 A

DIMENSIONS AND WEIGHT

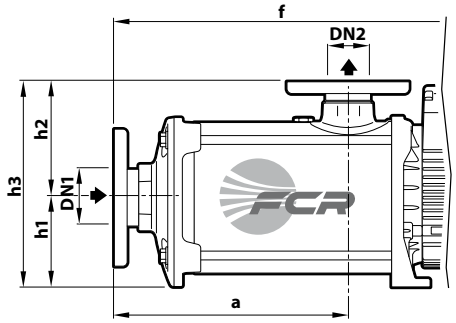
※ WITH THREADED PORTS

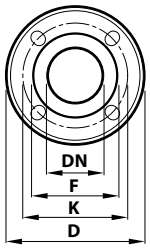




TYPE	PORTS		N°	DIMENSIONS mm									kg
Three-phase	**DN1**	**DN2**	STAGES	a	f	h	h1	h2	h3	t	n2	w	s	3~
FCR 15/2R	**2½"**	**2"**	2	155	533	271	120	132	252	234	190	96	12	34.0
FCR 15/3R			3	199	577									40.0
FCR 15/3			3											40.0
FCR 15/4			4	243	621									46.0
FCR 15/5			5	287	715									57.0
FCR 30/2R			2	155	533	271	120	132	252	234	190	96	12	37.0
FCR 30/2			2											37.0
FCR 30/3			3	199	577									44.0
FCR 30/4			4	243	671									54.0

※ WITH FLANGED PORTS



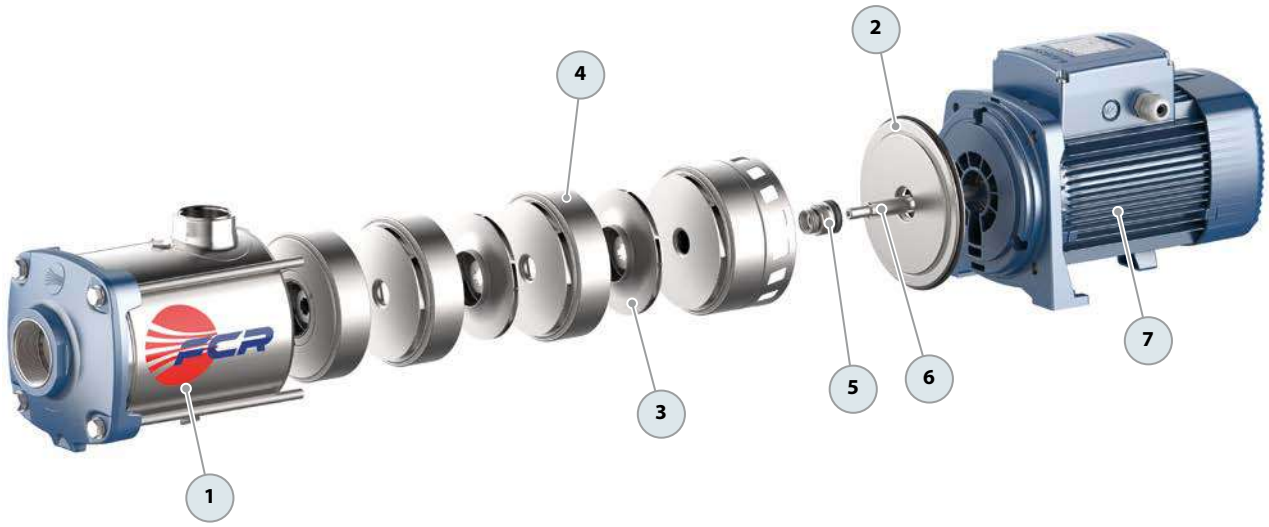


TYPE	PORTS		DIMENSIONS mm				
Three-phase	DN1	DN2	a	f	h1	h2	h3
FCR 15/2R	**65**	**50**	189	566	120	165	285
FCR 15/3R			233	610			
FCR 15/3							
FCR 15/4			277	654			
FCR 15/5			320	748			
FCR 30/2R			189	566	120	165	285
FCR 30/2							
FCR 30/3			233	610			
FCR 30/4			276	704			

FLANGE	D	K	F	HOLES	
DN	mm	mm	mm	N°	Ø (mm)
50	165	125	99	4	18
65	185	145	118	4	18

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-KU-24** ISO 3069 EN 12756 / Shaft: Ø 24 mm / Materials: Graphite / Ceramic / NBR
6	**Pump shaft**	Stainless steel **AISI 316L**
7	**Electric motor**	**Three-phase** 230/400 V - 50 Hz up to 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) class **IE3** Continuous running duty **S1**



MK Multi-stage centrifugal pumps

Clean water
Domestic use
Civil use
Agricultural use



PERFORMANCE RANGE

- Flow rate up to **180 l/min** (10.8 m³/h)
- Head up to **114 m**

INSTALLATION AND USE

Compact and cost-effective vertical multistage centrifugal pumps suitable for water supply, clean liquids, and pressurization in domestic, civil, and agricultural systems, as well as 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

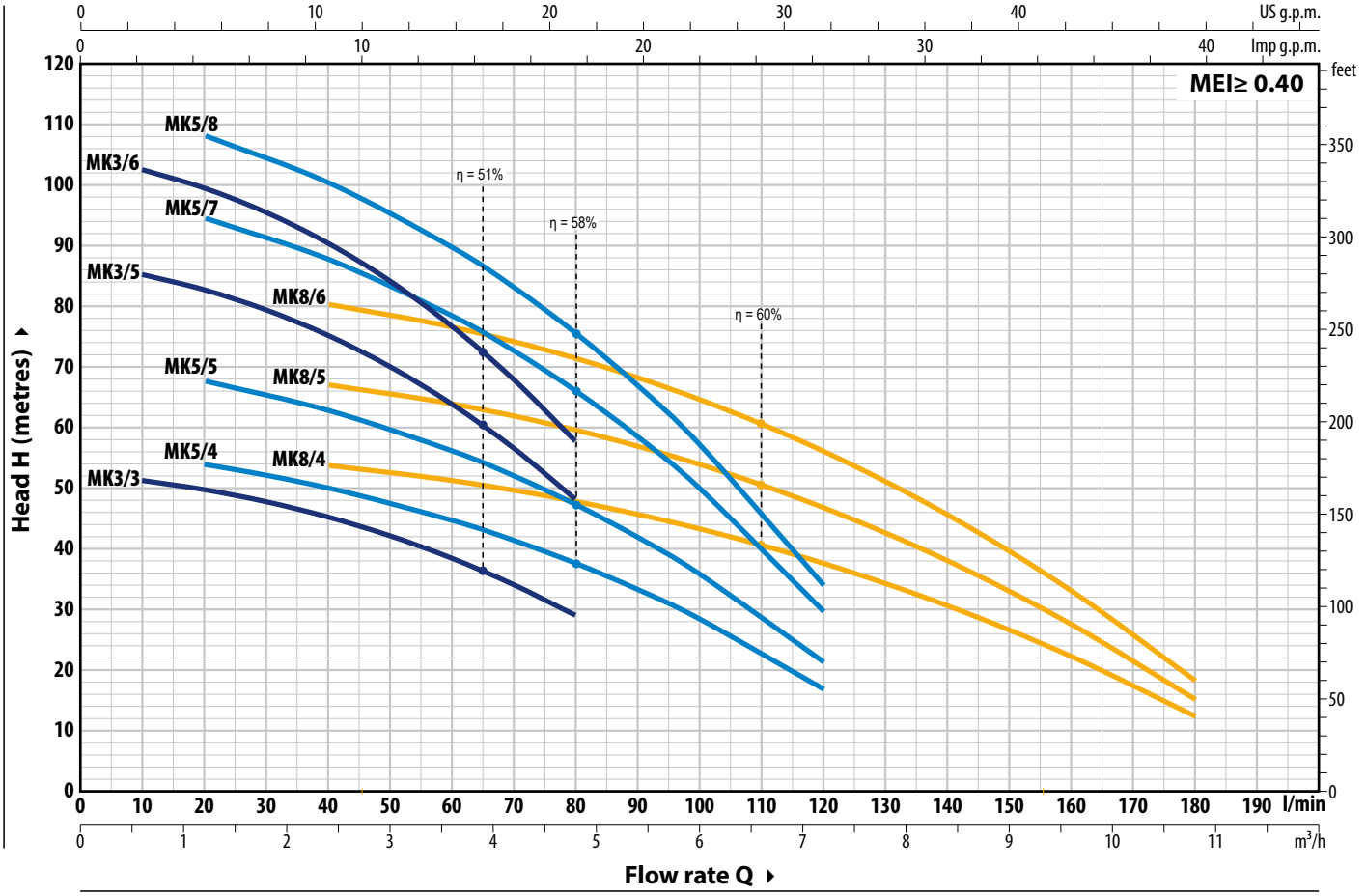
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **11 bar**

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
Single-ph.	**Three-ph.**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**10**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**
MKm 3/3	**MK 3/3**	0.75	1					52.5	51.5	50	45	38.5	29					
MKm 3/5	**MK 3/5**	1.1	1.5					87	85	83	75	64	48					
MKm 3/6	**MK 3/6**	1.5	2					105	103	100	90	77	58					
MKm 5/4	**MK 5/4**	0.75	1					57	–	54	50	45	37.5	28.5	17			
MKm 5/5	**MK 5/5**	1.1	1.5					71	–	67.5	62.5	56	47	35.5	21.5			
MKm 5/7	**MK 5/7**	1.5	2	**IE2**	**IE3**	**H** metres		99	–	95	88	78	66	50	30			
MKm 5/8	**MK 5/8**	2.2	3					114	–	108	100	90	75	57	34			
MKm 8/4	**MK 8/4**	1.1	1.5					56	–	–	53.5	51	47.5	43	37.5	30.5	22.1	12
MKm 8/5	**MK 8/5**	1.5	2					70	–	–	67	64	59.5	54	47	38	27.5	15.5
MKm 8/6	**MK 8/6**	2.2	3					84	–	–	80	77	72	64.5	56	45.5	33	18.5

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

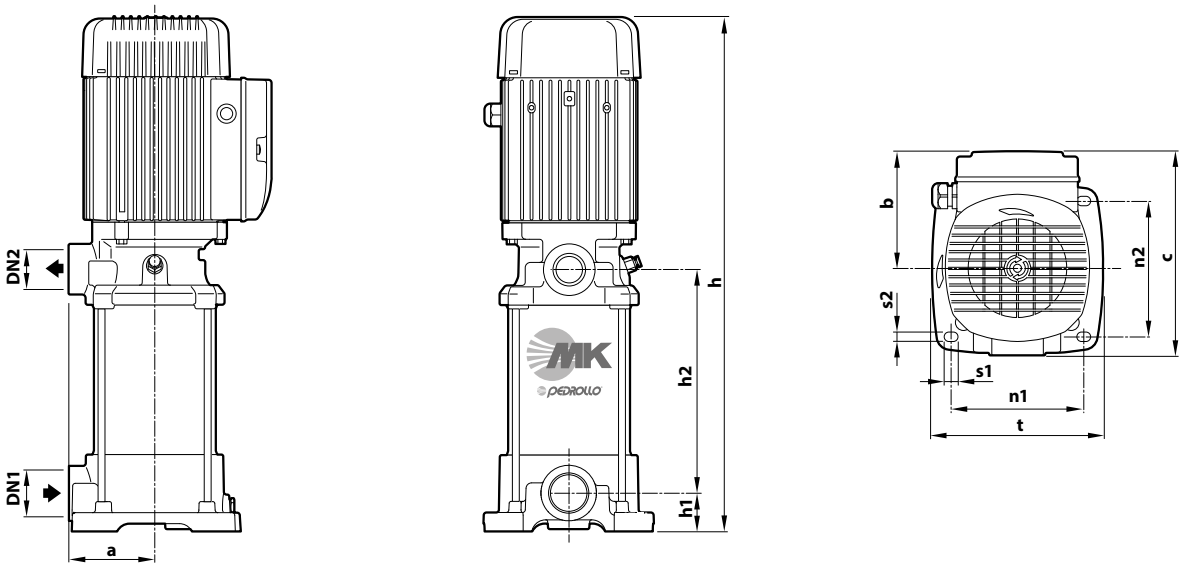
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-ph.	**230 V**
MKm 3/3	5.7 A
MKm 3/5	7.8 A
MKm 3/6	9.5 A
MKm 5/4	5.7 A
MKm 5/5	7.1 A
MKm 5/7	9.3 A
MKm 5/8	10.0 A
MKm 8/4	7.8 A
MKm 8/5	9.7 A
MKm 8/6	11.1 A

TYPE	VOLTAGE	
Three-ph.	**230 V - Δ**	**400 V - Y**
MK 3/3	4.2 A	2.4 A
MK 3/5	5.2 A	3.0 A
MK 3/6	6.1 A	3.5 A
MK 5/4	4.3 A	2.5 A
MK 5/5	4.7 A	2.7 A
MK 5/7	6.1 A	3.5 A
MK 5/8	7.4 A	4.3 A
MK 8/4	5.2 A	3.0 A
MK 8/5	6.1 A	3.5 A
MK 8/6	7.8 A	4.5 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm											kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	a	h	h1	h2	n1	n2	t	b	c	s1	s2	1~	3~
MKm 3/3	**MK 3/3**	**1¼"**	**1"**	93	447	41.5	132.5	143	146	185	127	220	14.5	10	21.3	20.0
MKm 3/5	**MK 3/5**				501		186.5								22.2	22.2
MKm 3/6	**MK 3/6**				528		213.5								24.0	24.0
MKm 5/4	**MK 5/4**				474		159.5								21.8	20.5
MKm 5/5	**MK 5/5**				501		186.5								21.9	22.0
MKm 5/7	**MK 5/7**				555		240.5								24.6	24.2
MKm 5/8	**MK 5/8**				602		267.5								25.5	24.5
MKm 8/4	**MK 8/4**				474		159.5								22.7	22.7
MKm 8/5	**MK 8/5**				501		186.5								23.4	23.0
MKm 8/6	**MK 8/6**				548		213.5								27.1	26.1

MATERIALS AND COMPONENTS

1	**Suction body**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded suction port
2	**External sleeve**	Stainless steel **AISI 304**
3	**Delivery port**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded delivery port
4	**Impellers and diffusers**	Noryl™
5	**Diaphragms.**	**AISI 304** stainless steel complete with wear rings

6 Mechanical seal

Seal	Shaft	Materials
FN-18	Ø 18 mm	Graphite / Ceramic / NBR

7	**Motor shaft**	Stainless steel **AISI 431**

8 Electric motor

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

MK: 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**



HT Multi-stage centrifugal pumps

Clean water
Civil use
Agricultural use
Industrial use



※ HT pumps are designed for high hydraulic performance featuring a robust, compact, and reliable mechanical construction..

※ Jacket **Stainless steel AISI 304**
※ Impellers: **Stainless steel AISI 304**
※ Diffusers: **Stainless steel AISI 304**
※ Shaft **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **800 l/min** (48 m³/h)
- Head up to **160 m**

INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components. Their high efficiency and adaptability to a wide variety of applications make them an ideal choice in the domestic, civil, agricultural, and industrial sectors, particularly for water distribution along pressure tanks to increase overall network pressure. Suggested uses include fire-fighting systems, heavy-duty cleaning applications, industrial power washers, and irrigation.

KEY FEATURES

※ **Stainless steel components** extend service life and enhance efficiency.
※ Multi-stage design results in exceptionally quiet operation

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

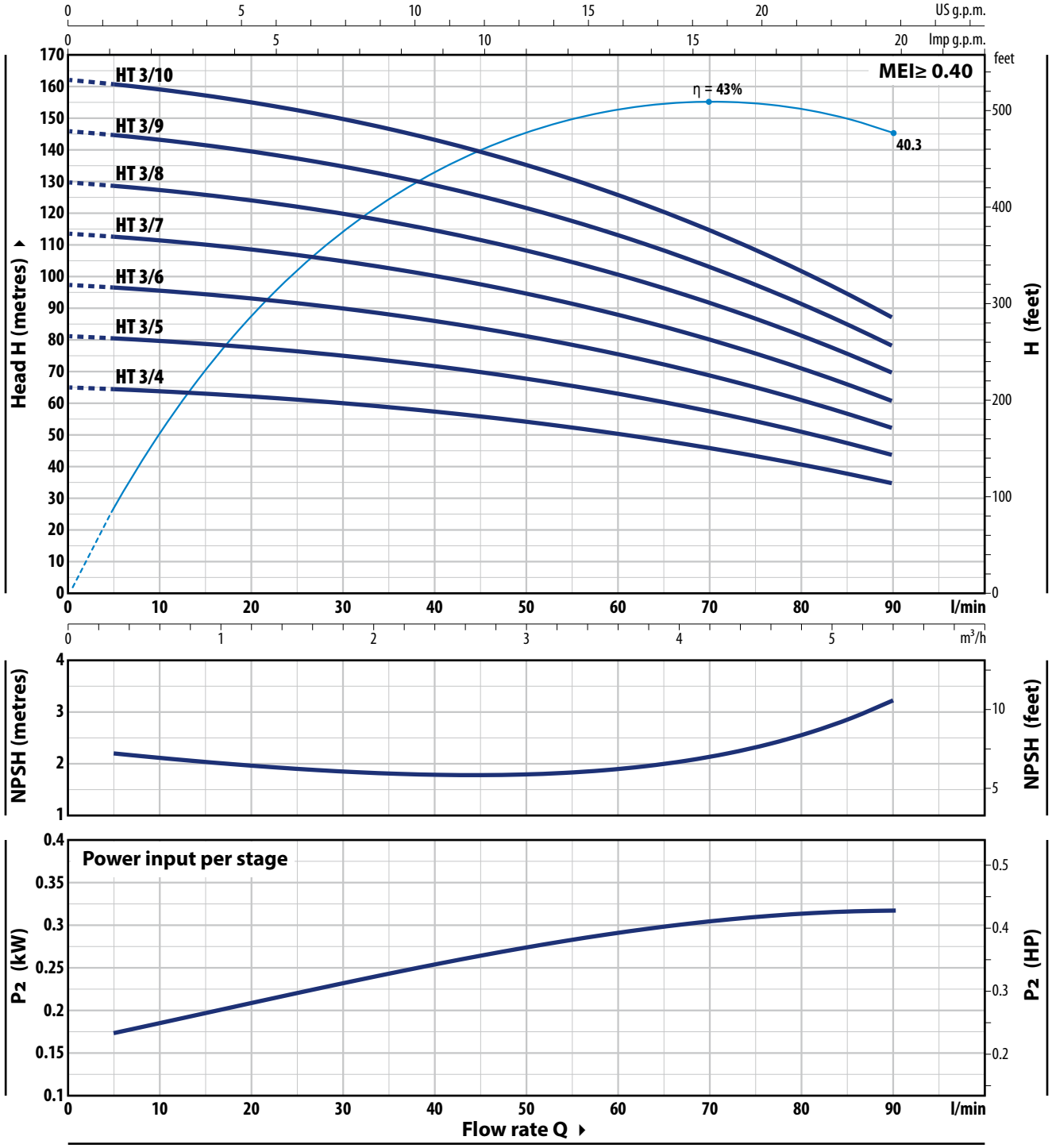
- Manometric suction head up to **7 m**
- Liquid temperature between **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **16 bar**

AVAILABLE UPON REQUEST

※ Handling of liquids with higher or lower temperatures.
※ Pump body with NPT threaded ports ANSI B 1.20.1
※ COUNTER-FLANGE
※ Pump protection kit to prevent dry running
※ O-rings in EPDM or VITON (standard version in NBR)
※ 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	1.2	2.4	3.6	4.8	5.4
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**
HTm 3/4	**HT 3/4**	0.75	1					65	65	63.5	62	57	50	40.5	35
HTm 3/5	**HT 3/5**	1.1	1.5					81	80	79	77	71	62.5	51	44
HTm 3/6	**HT 3/6**	1.5	2					97	96	95	93	86	75	61	52
HTm 3/7	**HT 3/7**	1.8	2.5	**IE2**	**IE3**	**H**	metres	113	112	111	108	100	88	71	61
※ –	**HT 3/8**	2.2	3					129	128	127	124	114	100	81	69.5
※ –	**HT 3/9**	3	4					146	144	143	139	129	113	91	78
※ –	**HT 3/10**	3	4					–	160	159	155	143	125	102	87

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

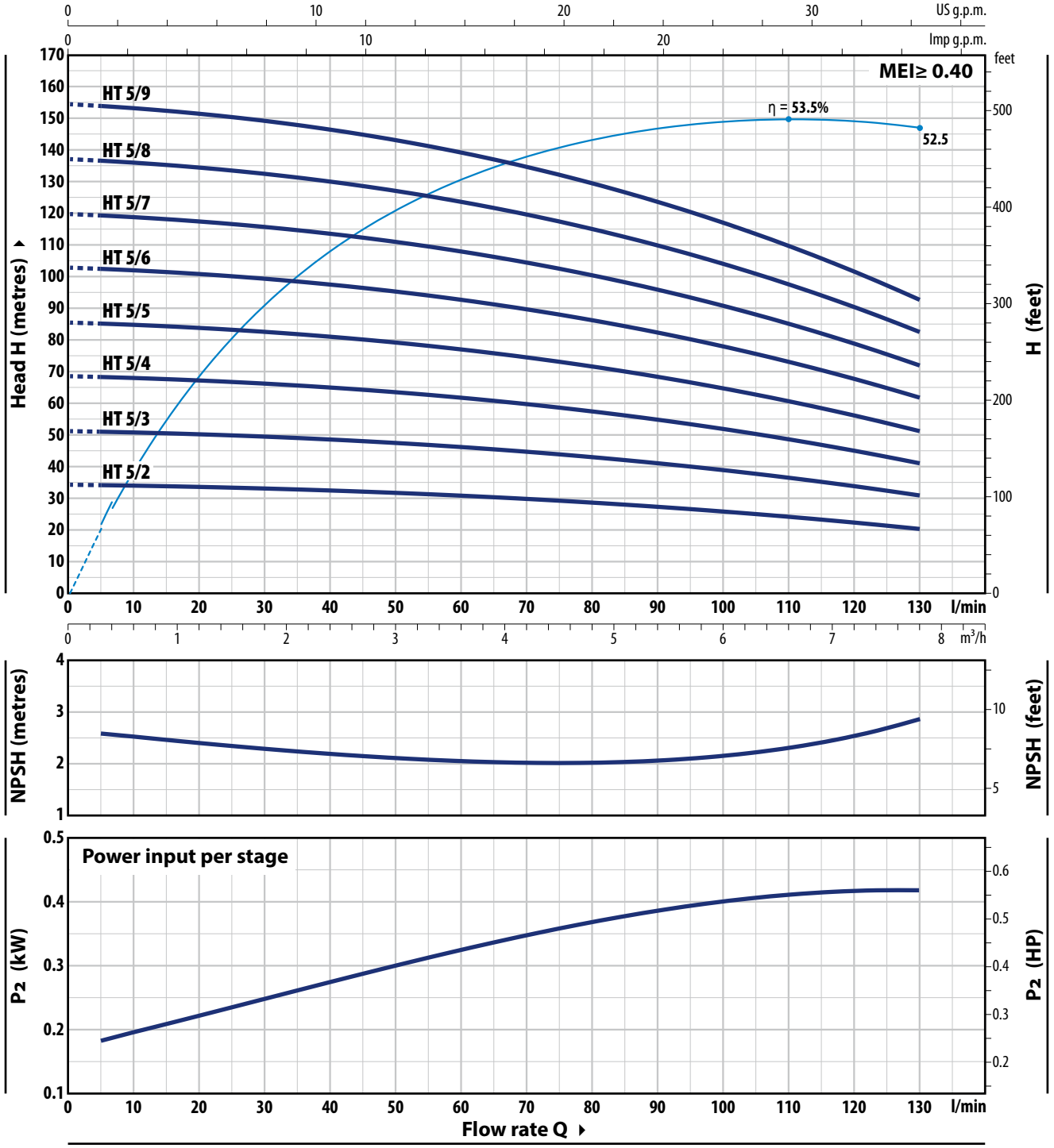
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

※ **Start of production 04.2024** ※

HT 5

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	6	7.8
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**100**	**130**
HTm 5/2	**HT 5/2**	0.75	1					35	35	32.7	32.3	32.5	31	25.5	27.5	26	20.5
HTm 5/3	**HT 5/3**	1.1	1.5					51.5	51.5	51	50.5	49	46.5	43	41	39	31
HTm 5/4	**HT 5/4**	1.5	2					68.5	68.5	68	67	65	62	57.5	55	52	41
HTm 5/5	**HT 5/5**	1.8	2.5					86	85	85	84	81	77	72	68.5	65	51.5
HTm 5/6	**HT 5/6**	2.2	3	**IE2**	**IE3**	**H**	metres	103	103	102	101	98	93	86	82	78	62
※ **–**	**HT 5/7**	3	4					120	120	119	118	114	108	101	96	91	72
※ **–**	**HT 5/8**	3	4					137	137	136	134	130	124	115	110	104	82
※ **–**	**HT 5/9**	4	5.5					154	154	153	151	146	139	129	124	117	93

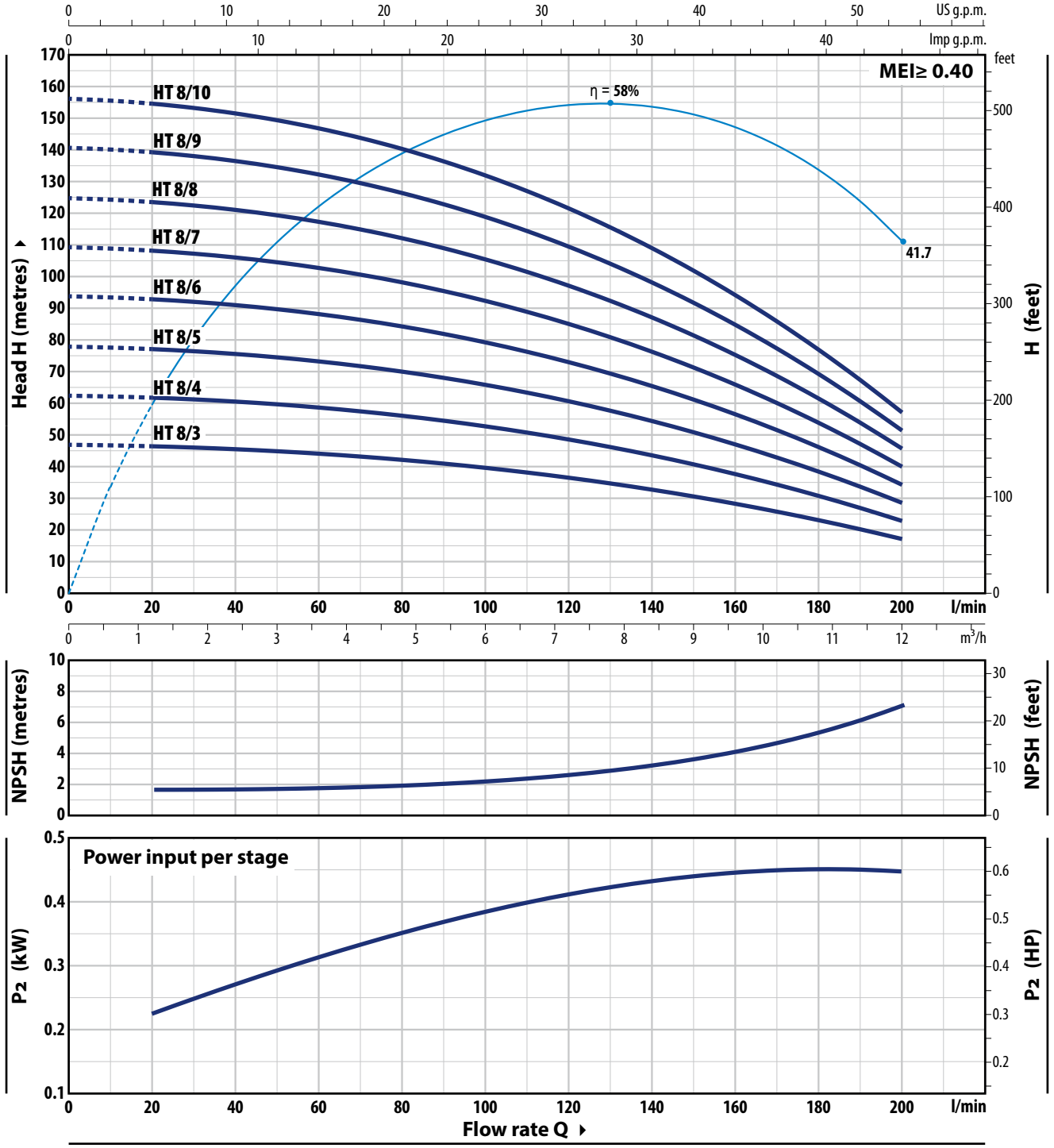
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

※ **Start of production 04.2024** ※

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**
HTm 8/3	**HT 8/3**	1.1	1.5					47	46.5	45.5	44	42	39.5	36.5	32.5	28	23.1	17
HTm 8/4	**HT 8/4**	1.5	2					62.5	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23
HTm 8/5	**HT 8/5**	1.8	2.5					78	77.5	76	73	70	66	61	54.5	47	38.5	28.5
HTm 8/6	**HT 8/6**	2.2	3					94	93	91	88	84	79	73	65.5	56.5	46	34.5
※ –	**HT 8/7**	3	4	**IE2**	**IE3**	**H** metres		109	108	106	103	98	92	85	76	66	54	40
※ –	**HT 8/8**	4	5.5					125	124	121	117	112	106	97	87	75	61.5	45.5
※ –	**HT 8/9**	4	5.5					141	139	136	132	126	119	109	98	85	69	51.5
※ –	**HT 8/10**	5.5	7.5					156	155	152	147	140	132	122	109	94	77	57

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

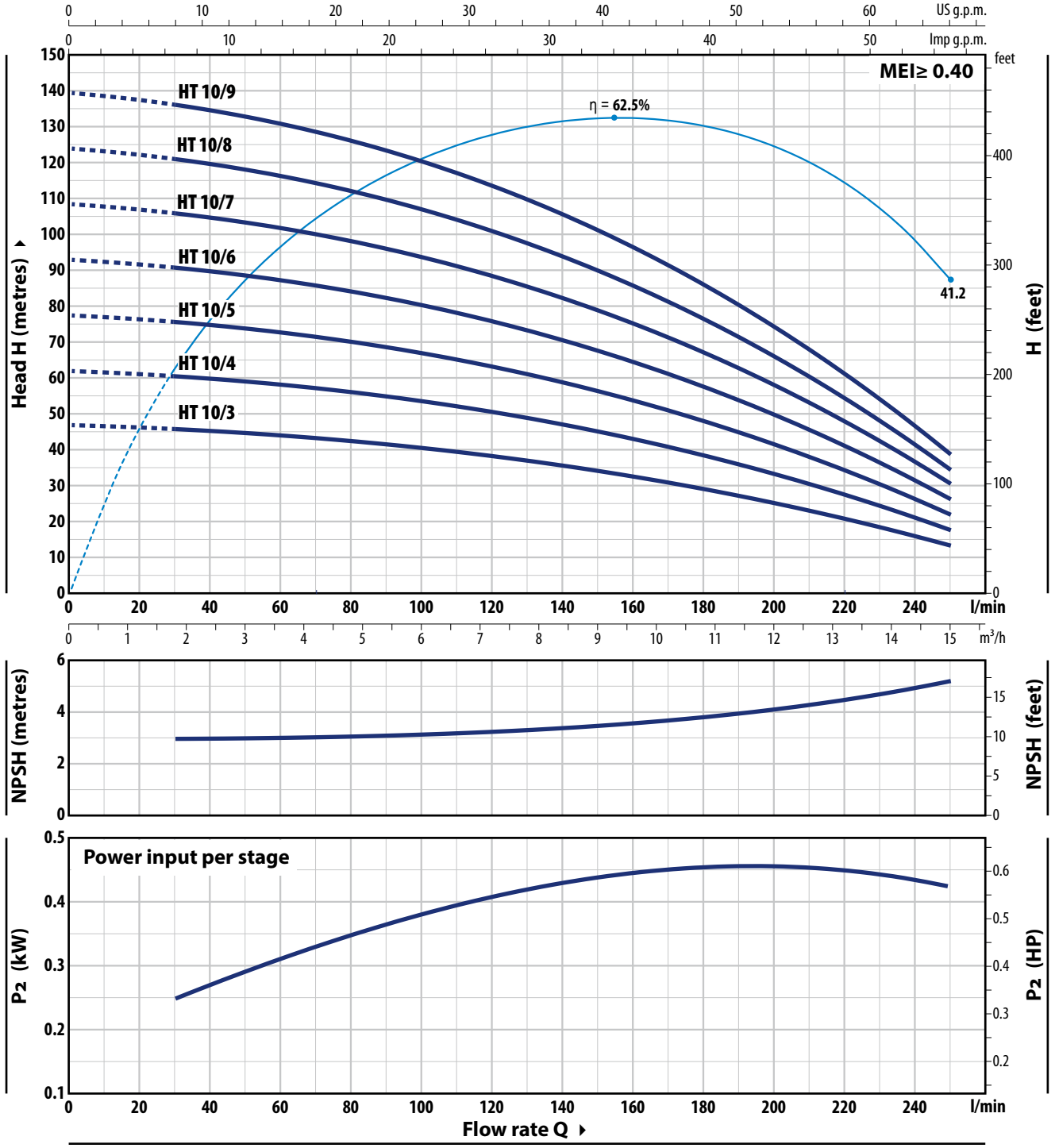
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

※ **Start of production 04.2024** ※

HT 10

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	1.8	3	3.6	4.8	7.2	9	10.2	12	13.2	15
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**30**	**50**	**60**	**80**	**120**	**150**	**170**	**200**	**220**	**250**
HTm 10/3	**HT 10/3**	1.5	2					47	45.5	44	43.5	42	38	33.5	30.5	24.7	20.3	13
HTm 10/4	**HT 10/4**	1.8	2.5					62	61	59	58	56	50.5	45	40.5	33	27	18
HTm 10/5	**HT 10/5**	2.2	3					77	75.5	74	73	70	63	56	50.5	41	34	21.5
–	**HT 10/6**	3	4	**IE2**	**IE3**	**H**	metres	93	91	88	87	84	76	67.5	61	49.5	40.5	26
–	**HT 10/7**	3	4					108	106	103	102	98	88	79	71	57.5	47.5	30
–	**HT 10/8**	4	5.5					124	121	118	116	112	101	90	81	66	54.5	34.5
–	**HT 10/9**	4	5.5					139	136	133	131	126	113	101	91	74	61	38.5

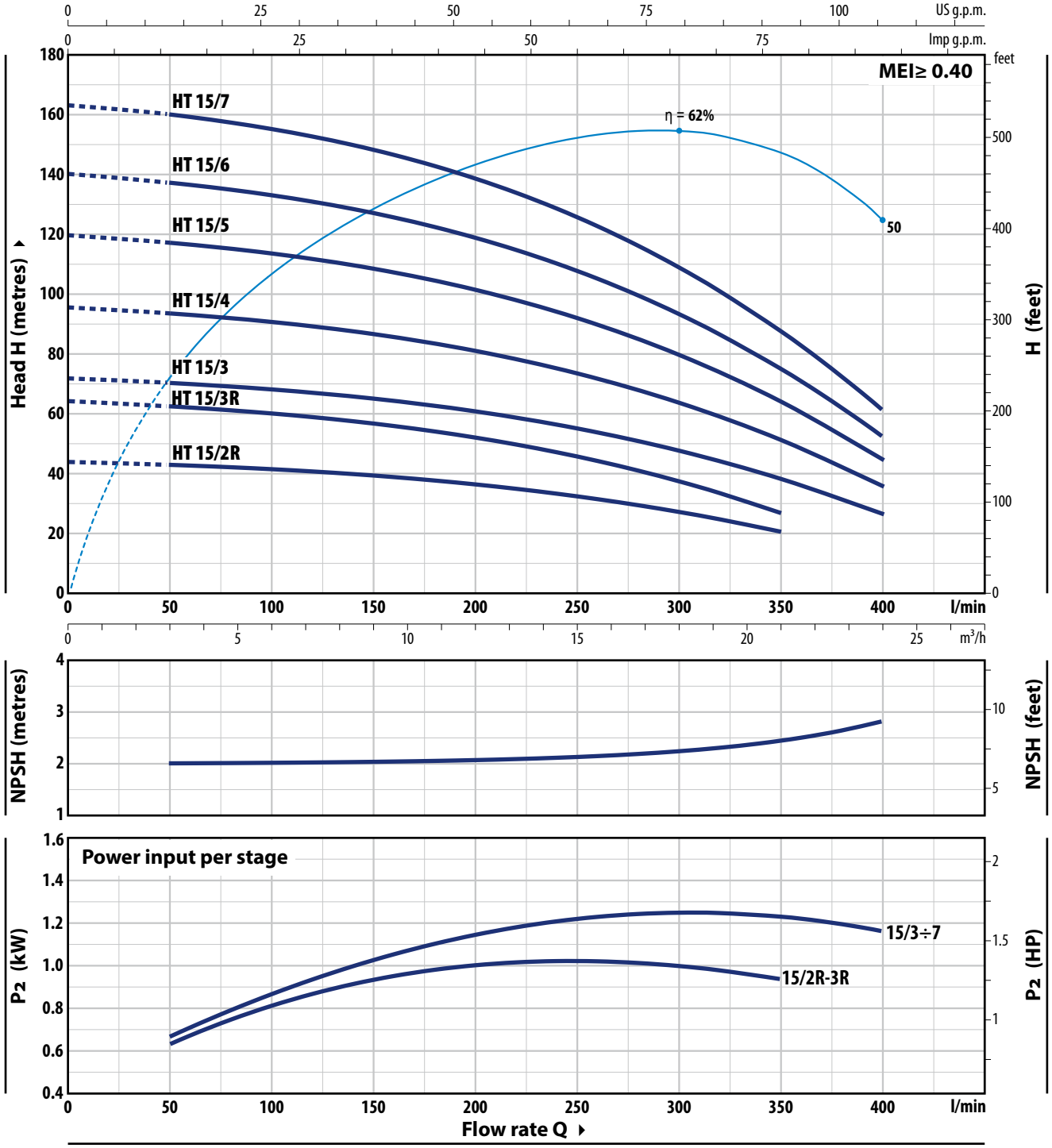
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

※ **Start of production 04.2024** ※

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P2)			Q m³/h	0	3	6	12	18	21	24
Three-phase	kW	HP	3~	l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**
HT 15/2R	2.2	3			44	43	41.5	36.5	27.5	20.5	
HT 15/3R	3	4			64.5	62.5	60.5	52.0	37.5	27	
HT 15/3	4	5.5			72	70	68.5	61	48	38.5	27
HT 15/4	5.5	7.5	IE3	**H** metres	96	94	91	81	64	51.5	36
HT 15/5	7.5	10			120	117	114	102	80	64.5	45
HT 15/6	9.2	12.5			140	137	133	119	94	75.5	52.5
HT 15/7	9.2	12.5			–	160	155	139	109	88	61.5

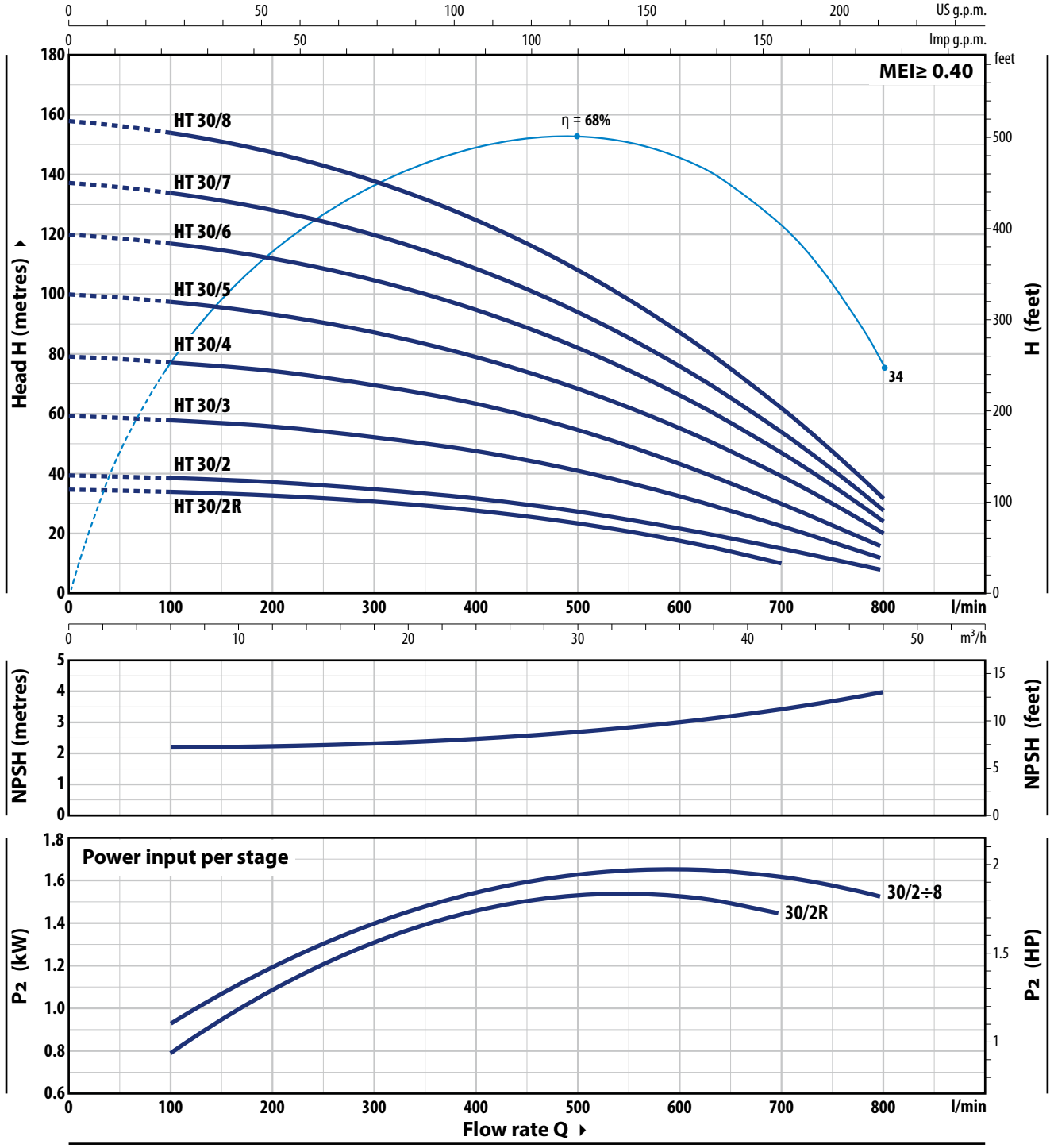
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 30

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P2)			Q m³/h	0	6	12	18	24	36	42	48
Three-phase	kW	HP	3~	l/min	**0**	**100**	**200**	**300**	**400**	**600**	**700**	**800**
HT 30/2R	3	4			35	34	33	31	28	17.6	10	
HT 30/2	4	5.5			40	39	37.5	35	31.5	22	15.7	8
HT 30/3	5.5	7.5			60	58.5	56	52.5	47.5	33	23.5	12
HT 30/4	7.5	10			80	78	75	70	63	44	31.3	16
HT 30/5	9.2	12.5	IE3	H metres	100	98	93	87	79	55	39	20
HT 30/6	11	15			120	117	112	105	95	66.5	47	24
HT 30/7	15	20			137	134	128	120	108	76	53.5	27.5
HT 30/8	15	20			158	154	147	138	125	87	62	31.5

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

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

ABSORPTION

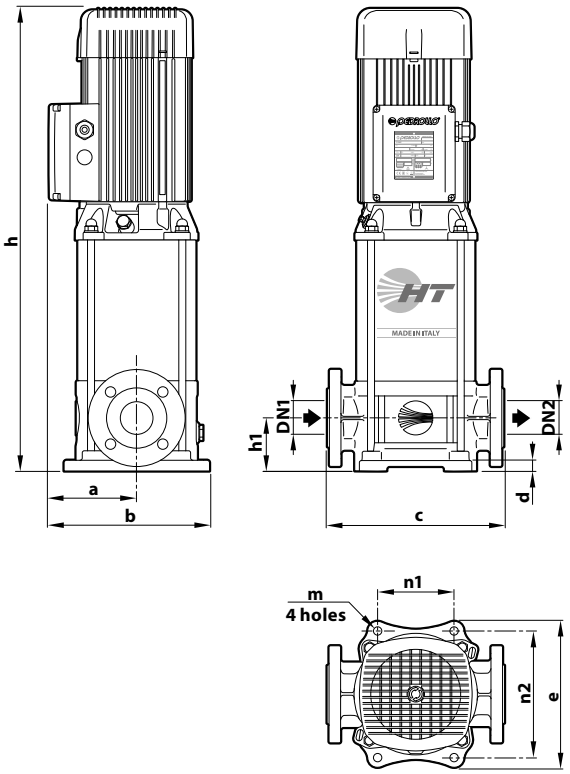
TYPE	VOLTAGE
Single-ph.	**230 V**
HTm 3/4	7.5 A
HTm 3/5	9.0 A
HTm 3/6	10.5 A
HTm 3/7	12.5 A
HTm 5/2	6.1 A
HTm 5/3	8.5 A
HTm 5/4	10.3 A
HTm 5/5	12.5 A
HTm 5/6	13.5 A
HTm 8/3	8.7 A
HTm 8/4	10.5 A
HTm 8/5	12.5 A
HTm 8/6	14.0 A
HTm 10/3	9.5 A
HTm 10/4	11.0 A
HTm 10/5	13.5 A

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
HT 3/4	5.2 A	3.0 A	–	–
HT 3/5	6.1 A	3.5 A	–	–
HT 3/6	6.9 A	4.0 A	–	–
HT 3/7	8.3 A	4.8 A	–	–
HT 3/8	11.2 A	6.5 A	–	–
HT 3/9	11.8 A	6.8 A	–	–
HT 3/10	12.1 A	7.0 A	–	–
HT 5/2	4.9 A	2.8 A	–	–
HT 5/3	5.5 A	3.2 A	–	–
HT 5/4	6.6 A	3.8 A	–	–
HT 5/5	8.3 A	4.8 A	–	–
HT 5/6	9.0 A	5.2 A	–	–
HT 5/7	11.8 A	6.8 A	–	–
HT 5/8	13.0 A	7.5 A	–	–
HT 5/9	14.7 A	8.5 A	–	–
HT 8/3	5.7 A	3.3 A	–	–
HT 8/4	6.9 A	4.0 A	–	–
HT 8/5	8.3 A	4.8 A	–	–
HT 8/6	9.3 A	5.4 A	–	–
HT 8/7	12.1 A	7.0 A	–	–
HT 8/8	14.7 A	8.5 A	–	–
HT 8/9	16.4 A	9.5 A	–	–
HT 8/10	–	–	10.5 A	6.1 A
HT 10/3	5.9 A	3.4 A	–	–
HT 10/4	7.8 A	4.5 A	–	–
HT 10/5	9.0 A	5.2 A	–	–
HT 10/6	11.2 A	6.5 A	–	–
HT 10/7	12.5 A	7.2 A	–	–
HT 10/8	14.4 A	8.3 A	–	–
HT 10/9	15.6 A	9.0 A	–	–
HT 15/2R	10.4 A	6.0 A	–	–
HT 15/3R	12.5 A	7.2 A	–	–
HT 15/3	15.2 A	8.8 A	–	–
HT 15/4	–	–	11.2 A	6.5 A
HT 15/5	–	–	14.2 A	8.2 A
HT 15/6	–	–	15.0 A	8.7 A
HT 15/7	–	–	16.5 A	9.5 A
HT 30/2R	12.1 A	7.0 A	–	–
HT 30/2	15.2 A	8.8 A	–	–
HT 30/3	–	–	11.2 A	6.5 A
HT 30/4	–	–	14.1 A	8.2 A
HT 30/5	–	–	16.5 A	9.5 A
HT 30/6	–	–	19.0 A	11.0 A
HT 30/7	–	–	22.0 A	12.7 A
HT 30/8	–	–	24.5 A	14.2 A

PALLET CAPACITY

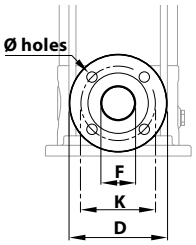
TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
HTm 3/4	**HT 3/4**	12
HTm 3/5	**HT 3/5**	12
HTm 3/6	**HT 3/6**	12
HTm 3/7	**HT 3/7**	12
–	**HT 3/8**	4
–	**HT 3/9**	4
–	**HT 3/10**	4
HTm 5/2	**HT 5/2**	12
HTm 5/3	**HT 5/3**	12
HTm 5/4	**HT 5/4**	12
HTm 5/5	**HT 5/5**	12
HTm 5/6	**HT 5/6**	12
–	**HT 5/7**	4
–	**HT 5/8**	4
–	**HT 5/9**	4
HTm 8/3	**HT 8/3**	12
HTm 8/4	**HT 8/4**	12
HTm 8/5	**HT 8/5**	12
HTm 8/6	**HT 8/6**	12
–	**HT 8/7**	4
–	**HT 8/8**	4
–	**HT 8/9**	4
–	**HT 8/10**	4
HTm 10/3	**HT 10/3**	12
HTm 10/4	**HT 10/4**	12
HTm 10/5	**HT 10/5**	12
–	**HT 10/6**	12
–	**HT 10/7**	4
–	**HT 10/8**	4
–	**HT 10/9**	4
–	**HT 15/2R**	4
–	**HT 15/3R**	4
–	**HT 15/3**	4
–	**HT 15/4**	4
–	**HT 15/5**	4
–	**HT 15/6**	2
–	**HT 15/7**	2
–	**HT 30/2R**	4
–	**HT 30/2**	4
–	**HT 30/3**	4
–	**HT 30/4**	4
–	**HT 30/5**	2
–	**HT 30/6**	2
–	**HT 30/7**	2
–	**HT 30/8**	2

DIMENSIONS AND WEIGHT



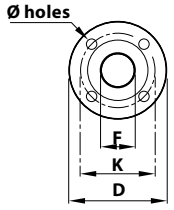
FLANGE

TYPE	DN	F	D	K	HOLES	
	mm	mm	mm	mm	N°	Ø mm
HT 3	**25**	1"	115	85	4	14
HT 5	**32**	1¼"	140	100		18
HT 8	**40**	1½"	150	110		
HT 10	**40**	1½"	150	110		
HT 15	**50**	2"	165	125		
HT 30	**65**	2½"	185	145	8	



COUNTER-FLANGE

TYPE	DN	F	D	K	HOLES	
	mm	mm	mm	mm	N°	Ø mm
HT 3	**25**	1"	115	85	4	14
HT 5	**32**	1¼"	140	100		18
HT 8	**40**	1½"	150	110		
HT 10	**40**	1½"	150	110		
HT 15	**50**	2"	165	125		
HT 30	**65**	2½"	185	145	8	



TYPE		PORTS		N°	DIMENSIONS mm										kg	
Single-ph.	**Three-ph.**	**DN1**	**DN2**	STAGES	a	b	c	d	e	h	h1	n1	n2	m	1~	3~
HTm 3/4	**HT 3/4**			4						509					33.5	33.5
HTm 3/5	**HT 3/5**			5	126	231				535					33.7	33.7
HTm 3/6	**HT 3/6**			6						561					35.0	35.0
HTm 3/7	**HT 3/7**	**1"**	**1"**	7						607					39.9	39.9
–	**HT 3/8**			8						685					–	47.2
–	**HT 3/9**			9	151	257				711					–	48.2
–	**HT 3/10**			10						737					–	49.1
HTm 5/2	**HT 5/2**			2			250			457	75				33.0	33.0
HTm 5/3	**HT 5/3**			3						483					33.2	33.2
HTm 5/4	**HT 5/4**			4	126	231				509					35.2	35.2
HTm 5/5	**HT 5/5**	**1¼"**	**1¼"**	5						555					37.5	37.5
HTm 5/6	**HT 5/6**			6						581					38.5	38.5
–	**HT 5/7**			7						659					–	47.3
–	**HT 5/8**			8	151	257				685					–	48.3
–	**HT 5/9**			9				15	210	711		100	180	Ø 13	–	52.5
HTm 8/3	**HT 8/3**			3						488					34.6	34.6
HTm 8/4	**HT 8/4**			4	126	231				514					36.6	36.6
HTm 8/5	**HT 8/5**			5						560					40.1	40.1
HTm 8/6	**HT 8/6**	**1½"**	**1½"**	6						586					40.9	40.9
–	**HT 8/7**			7						664					–	48.6
–	**HT 8/8**			8	151	257				690					–	52.7
–	**HT 8/9**			9						716					–	53.7
–	**HT 8/10**			10			280			742	80				–	58.7
HTm 10/3	**HT 10/3**			3						488					34.7	34.7
HTm 10/4	**HT 10/4**			4	126	231				534					36.7	36.7
HTm 10/5	**HT 10/5**			5						560					40.2	40.2
–	**HT 10/6**	**1½"**	**1½"**	6						638					–	48.5
–	**HT 10/7**			7	151	257				664					–	48.7
–	**HT 10/8**			8						690					–	52.8
–	**HT 10/9**			9						716					–	53.8
–	**HT 15/2R**			2						589					–	53.0
–	**HT 15/3R**			3						633					–	53.5
–	**HT 15/3**			3	151	275				633					–	58.0
–	**HT 15/4**	**2"**	**2"**	4			300			677	90				–	64.0
–	**HT 15/5**			5						771					–	72.0
–	**HT 15/6**			6	181	305				900					–	116.5
–	**HT 15/7**			7						944					–	117.0
–	**HT 30/2R**			2						604					–	55.0
–	**HT 30/2**			2	151	275				604					–	58.0
–	**HT 30/3**			3						648					–	63.0
–	**HT 30/4**	**2½"**	**2½"**	4			320	18	247	742	105	130	215	Ø 14	–	71.5
–	**HT 30/5**			5	181	305				871					–	125.0
–	**HT 30/6**			6						915					–	125.5
–	**HT 30/7**			7						959					–	138.0
–	**HT 30/8**			8						1003					–	138.5

MATERIALS AND COMPONENTS

1	**Pump body**	Cast iron JL250 with cataphoresis treatment, fitted with flanged and threaded ISO 228/1 ports
2	**Cover**	Cast iron JL250 with cataphoresis treatment
3	**External sleeve**	Stainless steel **AISI 304**
4	**Impellers**	Stainless steel **AISI 304**
5	**Diffusers**	Stainless steel **AISI 304**

6 Mechanical seal

Water pump	Seal	Shaft	Materials
HT 3 - 5 - 8 - 10	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR
HT 15 - 30	**FN-KU-24** ISO 3069 EN 12756	Ø 24 mm	Graphite / Ceramic / NBR

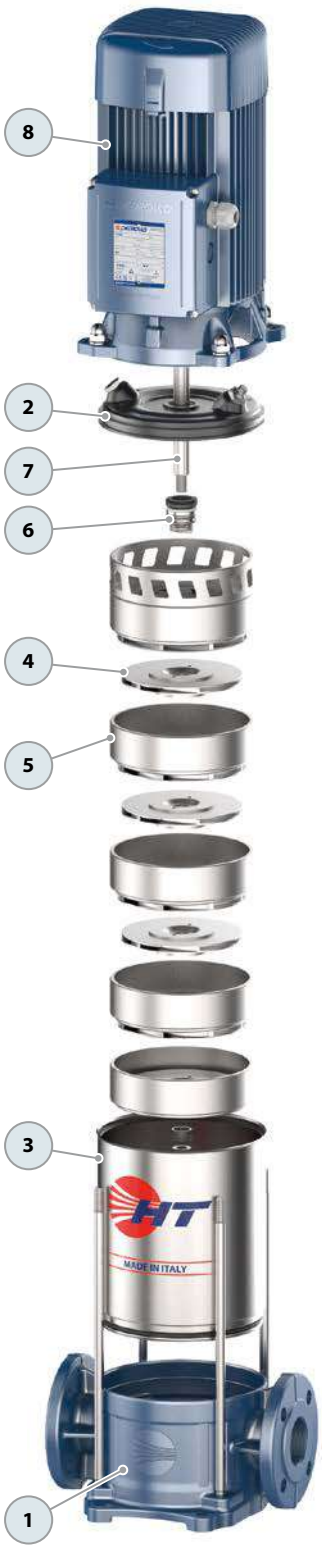
7	**Shaft**	Stainless steel **AISI 431**

8 Electric motor

- **HTm**: single-phase 230 V - 50 Hz with capacitor and winding integrated thermal motor protection
- **HT**: three-phase
  230/400 V - 50 Hz up to 4 kW
  400/690 V - 50 Hz 5.5 to 15 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**



HT-PRO Stainless steel multi-stage centrifugal pumps

Clean water
Civil use
Agricultural use
Industrial use

※ **Pump entirely made of stainless steel**



※ **HT-PRO pumps are designed for high hydraulic performance combined with a robust, compact and reliable mechanical construction.**

※ Pump body: **Stainless steel AISI 304**
※ Cover: **Stainless steel AISI 304**
※ Jacket **Stainless steel AISI 304**
※ Impellers: **Stainless steel AISI 304**
※ Diffusers: **Stainless steel AISI 304**
※ Shaft **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **800 l/min** (48 m³/h)
- Head up to **160 m**

INSTALLATION AND USE

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

Their high efficiency and adaptability to a wide variety of applications make them an ideal choice in the domestic, civil, agricultural, and industrial sectors, particularly for water distribution along pressure tanks to increase overall network pressure. Suggested uses include fire-fighting systems, heavy-duty cleaning applications, industrial power washers, and irrigation.

KEY FEATURES

※ The multi-stage stainless steel construction guarantees a long service life and a very low noise threshold during operation.
※ Stainless steel components extend service life and enhance efficiency.
※ Multi-stage design results in exceptionally quiet operation

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **16 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.

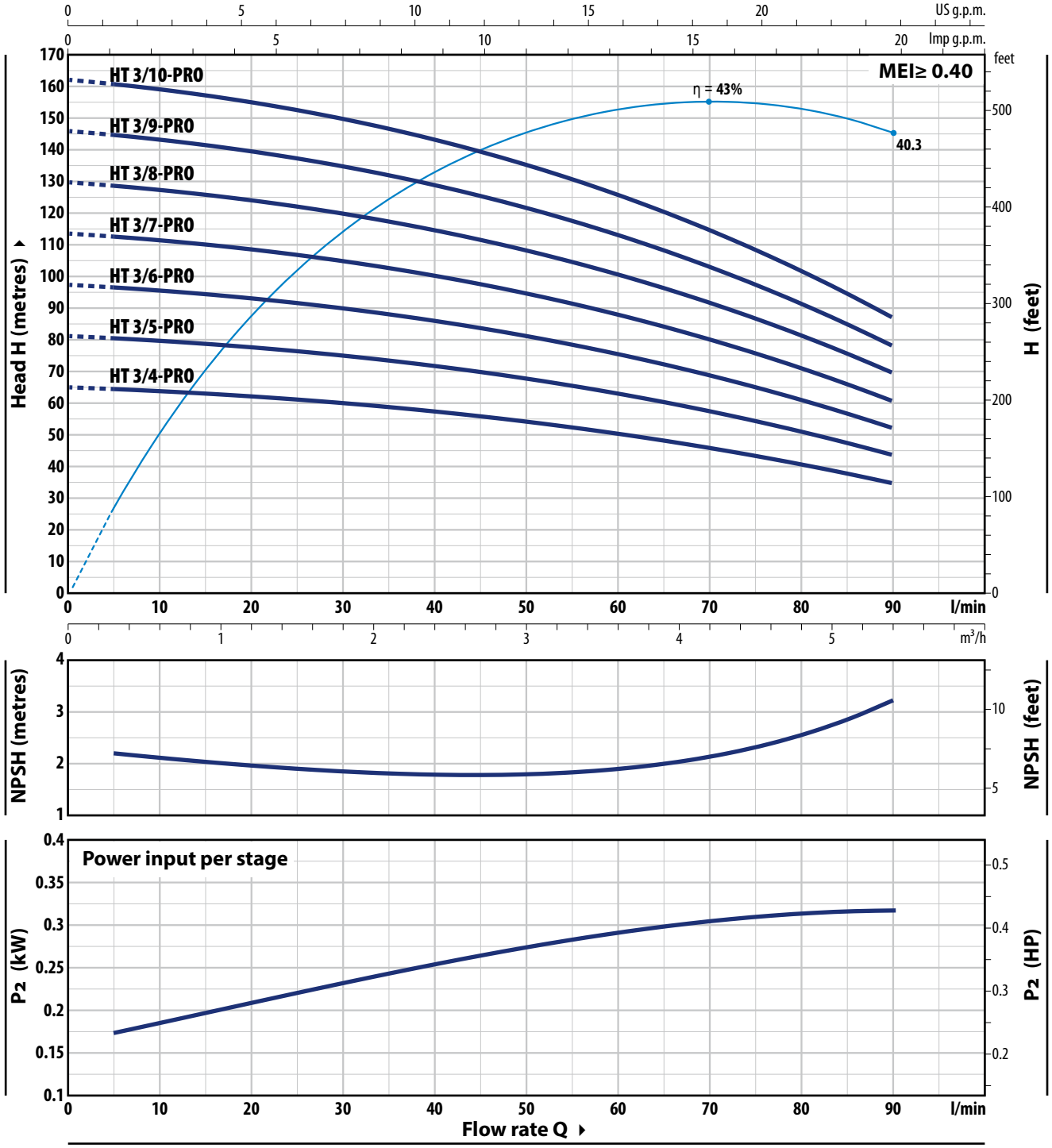
Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

AVAILABLE UPON REQUEST

※ AISI 316 stainless steel pump
※ Handling of liquids with higher or lower temperatures.
※ Pump body with NPT threaded ports ANSI B 1.20.1
※ Pump protection kit to prevent dry running
※ O-rings in EPDM or VITON (standard version in NBR)
※ 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	1.2	2.4	3.6	4.8	5.4
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**
HTm 3/4 - PRO	**HT 3/4 - PRO**	0.75	1					65	65	63.5	62	57	50	40.5	35
HTm 3/5 - PRO	**HT 3/5 - PRO**	1.1	1.5					81	80	79	77	71	62.5	51	44
HTm 3/6 - PRO	**HT 3/6 - PRO**	1.5	2					97	96	95	93	86	75	61	52
HTm 3/7 - PRO	**HT 3/7 - PRO**	1.8	2.5	**IE2**	**IE3**	**H**	metres	113	112	111	108	100	88	71	61
※ –	**HT 3/8 - PRO**	2.2	3					129	128	127	124	114	100	81	69.5
※ –	**HT 3/9 - PRO**	3	4					146	144	143	139	129	113	91	78
※ –	**HT 3/10 - PRO**	3	4					–	160	159	155	143	125	102	87

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

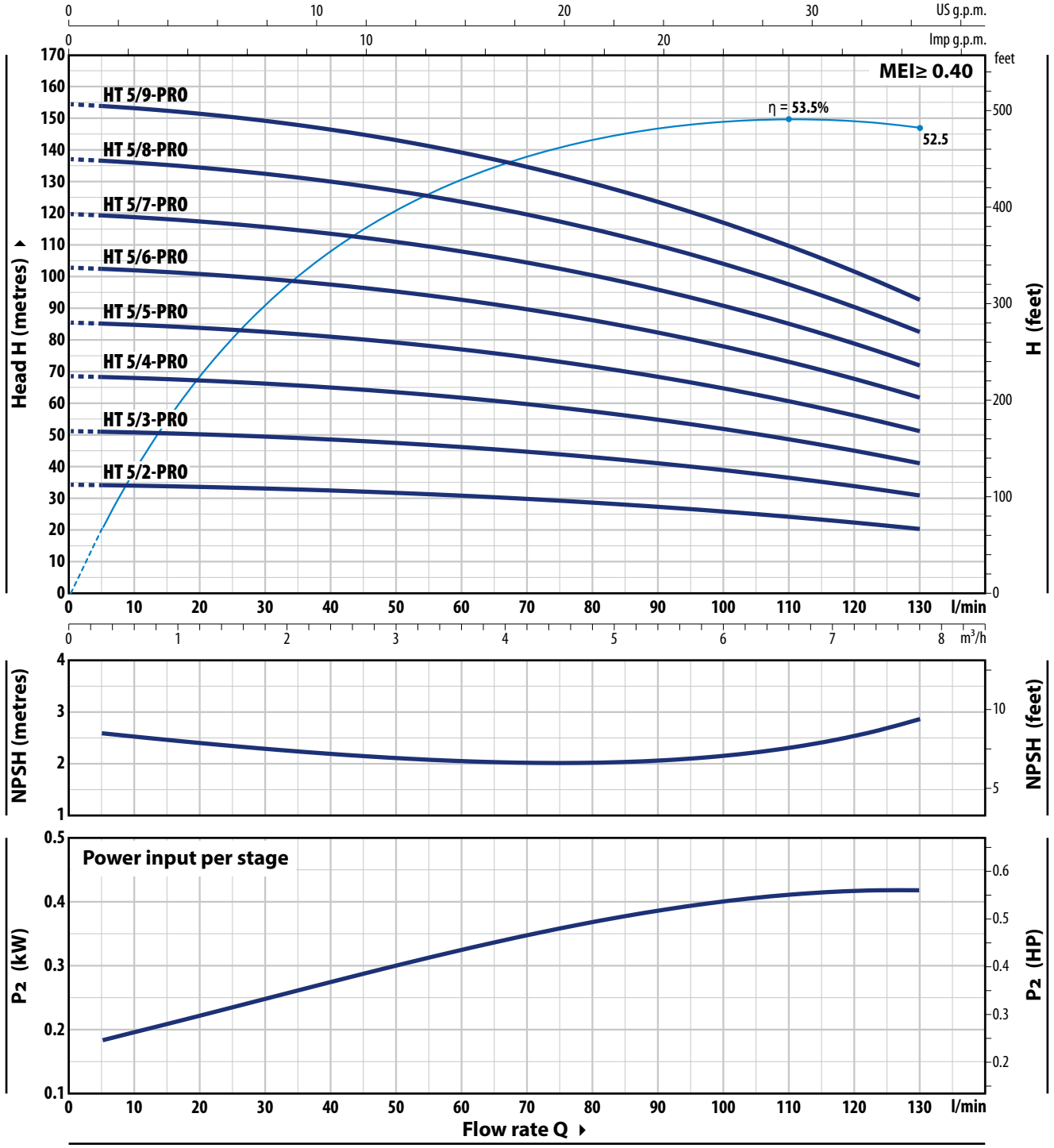
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

※ **Start of production 06.2024** ※

HT 5 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



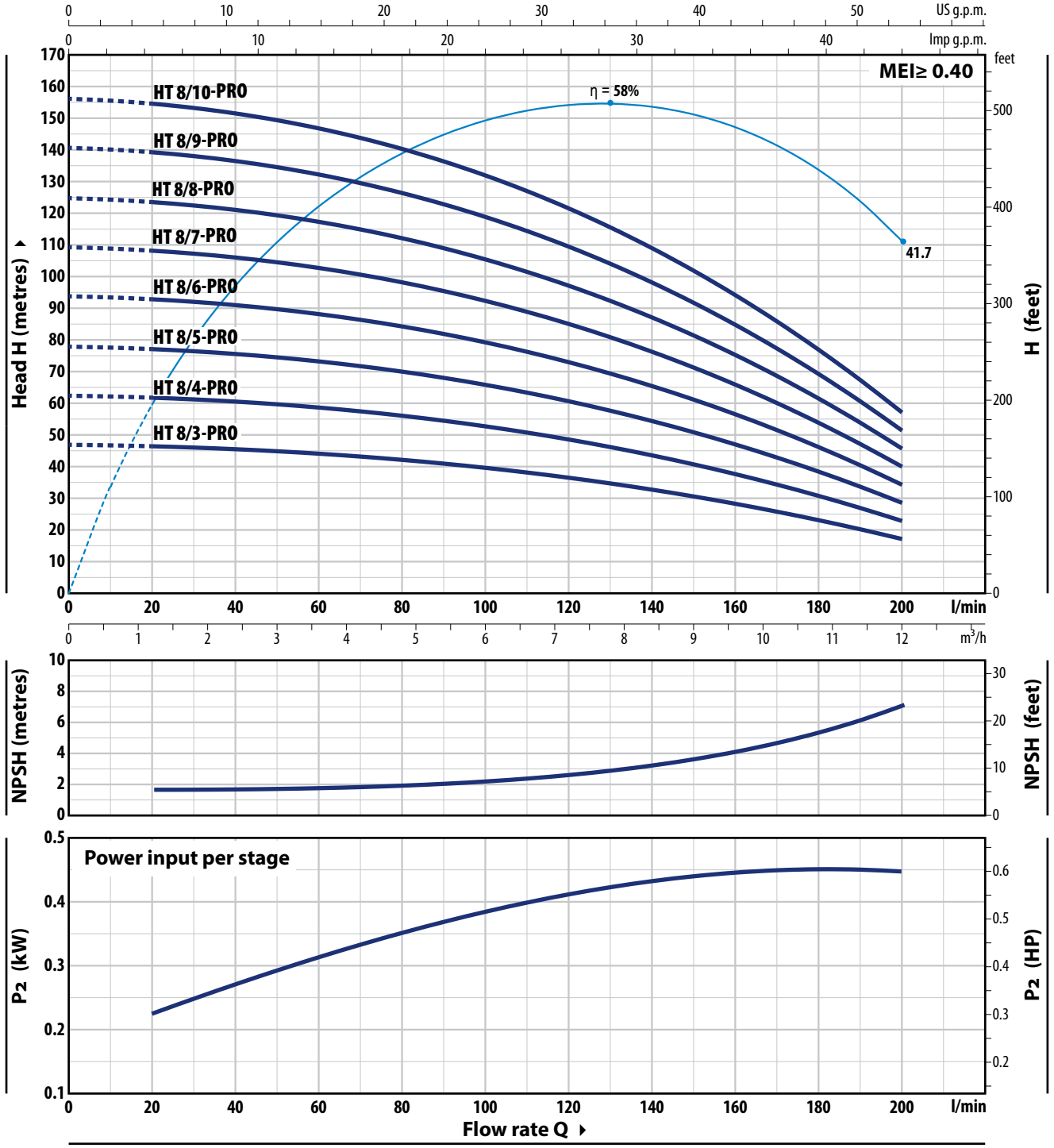
TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6	7.8
Single-phase	Three-phase	kW	HP	1~	3~		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**100**	**130**
HTm 5/2 - PRO	**HT 5/2 - PRO**	0.75	1					35	35	32.7	32.3	32.5	31	25.5	27.5	26	20.5
HTm 5/3 - PRO	**HT 5/3 - PRO**	1.1	1.5					51.5	51.5	51	50.5	49	46.5	43	41	39	31
HTm 5/4 - PRO	**HT 5/4 - PRO**	1.5	2					68.5	68.5	68	67	65	62	57.5	55	52	41
HTm 5/5 - PRO	**HT 5/5 - PRO**	1.8	2.5	**IE2**	**IE3**	**H**	metres	86	85	85	84	81	77	72	68.5	65	51.5
HTm 5/6 - PRO	**HT 5/6 - PRO**	2.2	3					103	103	102	101	98	93	86	82	78	62
※ –	**HT 5/7 - PRO**	3	4					120	120	119	118	114	108	101	96	91	72
※ –	**HT 5/8 - PRO**	3	4					137	137	136	134	130	124	115	110	104	82
※ –	**HT 5/9 - PRO**	4	5.5					154	154	153	151	146	139	129	124	117	93

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



TYPE		POWER (P2)				Q m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**	l/min	**0**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**
HTm 8/3 - PRO	**HT 8/3 - PRO**	1.1	1.5				47	46.5	45.5	44	42	39.5	36.5	32.5	28	23	17
HTm 8/4 - PRO	**HT 8/4 - PRO**	1.5	2				62.5	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23
HTm 8/5 - PRO	**HT 8/5 - PRO**	1.8	2.5				78	77.5	76	73	70	66	61	54.5	47	38.5	28.5
HTm 8/6 - PRO	**HT 8/6 - PRO**	2.2	3				94	93	91	88	84	79	73	65.5	56.5	46	34.5
※ –	**HT 8/7 - PRO**	3	4	**IE2**	**IE3**	**H** metres	109	108	106	103	98	92	85	76	66	54	40
※ –	**HT 8/8 - PRO**	4	5.5				125	124	121	117	112	106	97	87	75	61.5	45.5
※ –	**HT 8/9 - PRO**	4	5.5				141	139	136	132	126	119	109	98	85	69	51.5
※ –	**HT 8/10 - PRO**	5.5	7.5				156	155	152	147	140	132	122	109	94	77	57

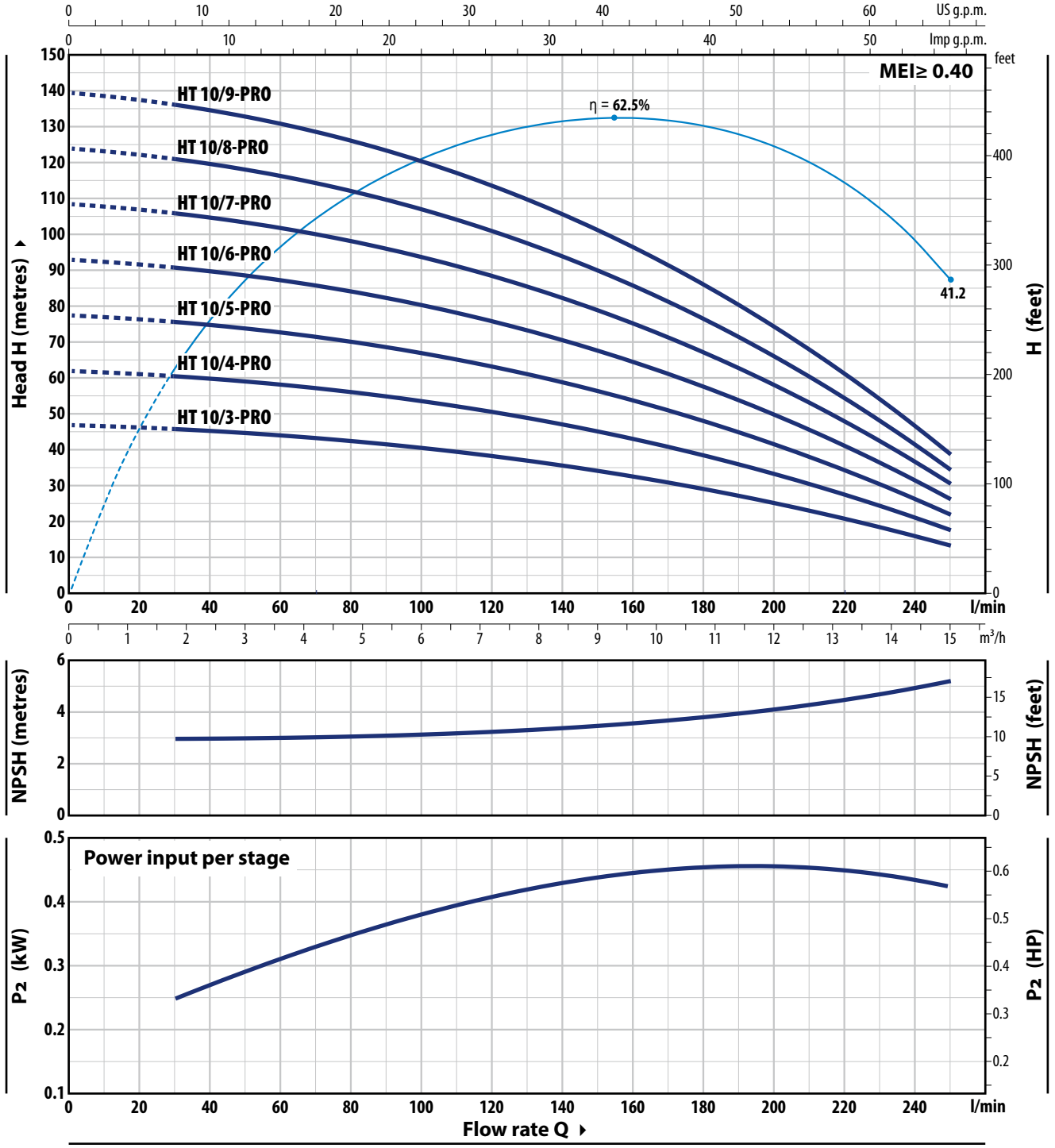
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 10 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P2)				Q	m³/h	0	1.8	3	3.6	4.8	7.2	9	10.2	12	13.2	15
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**30**	**50**	**60**	**80**	**120**	**150**	**170**	**200**	**220**	**250**
HTm 10/3 - PRO	**HT 10/3 - PRO**	1.5	2					47	45.5	44	43.5	42	38	33.5	30.5	24.7	20.3	13
HTm 10/4 - PRO	**HT 10/4 - PRO**	1.8	2.5					62	61	59	58	56	50.5	45	40.5	33	27	18
HTm 10/5 - PRO	**HT 10/5 - PRO**	2.2	3					77	75.5	74	73	70	63	56	50.5	41	34	21.5
–	**HT 10/6 - PRO**	3	4	**IE2**	**IE3**	**H**	metres	93	91	88	87	84	76	67.5	61	49.5	40.5	26
–	**HT 10/7 - PRO**	3	4					108	106	103	102	98	88	79	71	57.5	47.5	30
–	**HT 10/8 - PRO**	4	5.5					124	121	118	116	112	101	90	81	66	54.5	34.5
–	**HT 10/9 - PRO**	4	5.5					139	136	133	131	126	113	101	91	74	61	38.5

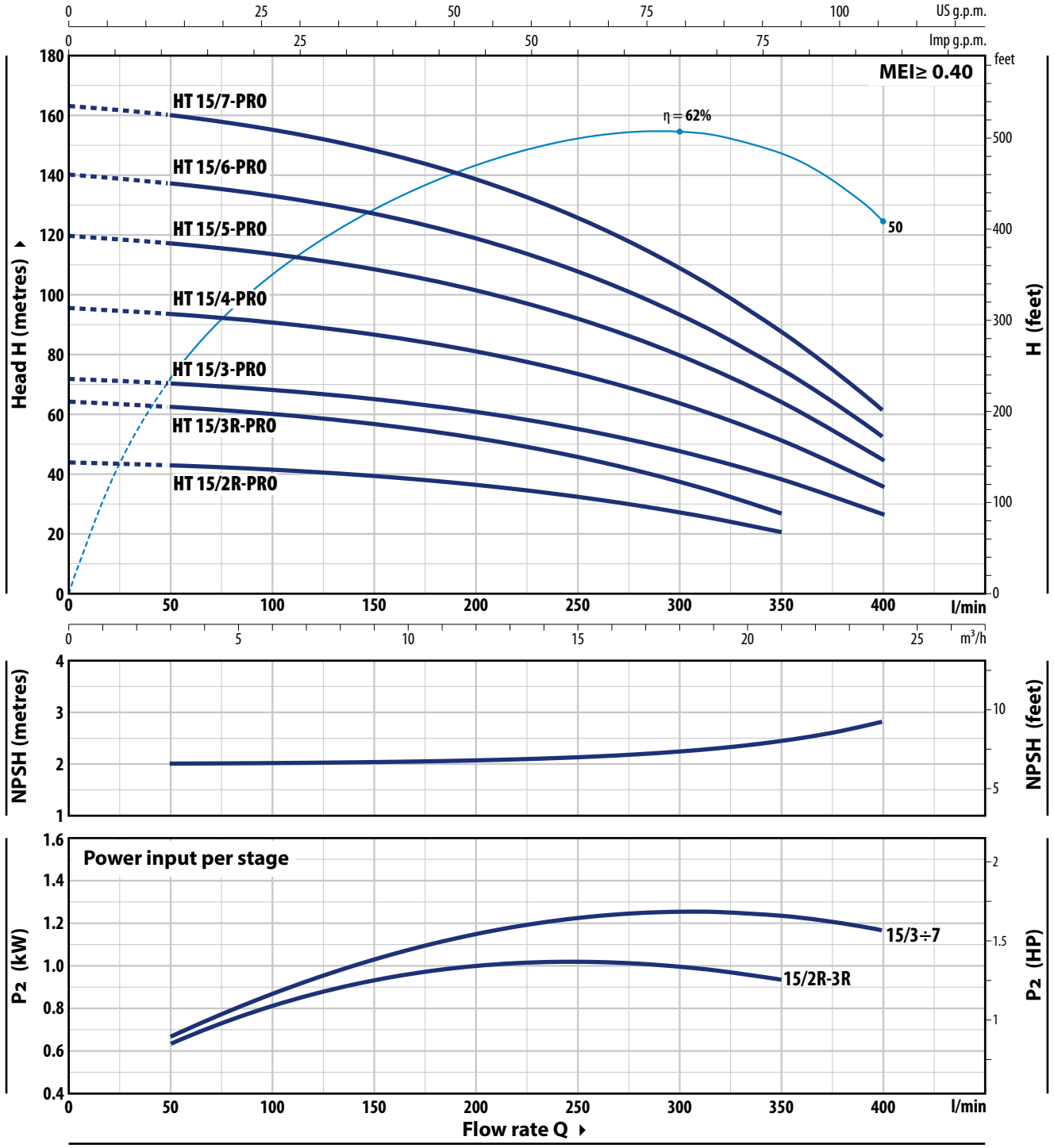
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 15 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P2)			Q	m³/h	0	3	6	12	18	21	24
Three-phase	kW	HP	3~		l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**
HT 15/2R - PRO	2.2	3				44	43	41.5	36.5	27.5	20.5	
HT 15/3R - PRO	3	4				64.5	62.5	60.5	52.0	37.5	27	
HT 15/3 - PRO	4	5.5				72	70	68.5	61	48	38.5	27
HT 15/4 - PRO	5.5	7.5	IE3	**H**	metres	96	94	91	81	64	51.5	36
HT 15/5 - PRO	7.5	10				120	117	114	102	80	64.5	45
HT 15/6 - PRO	9.2	12.5				140	137	133	119	94	75.5	52.5
HT 15/7 - PRO	9.2	12.5				–	160	155	139	109	88	61.5

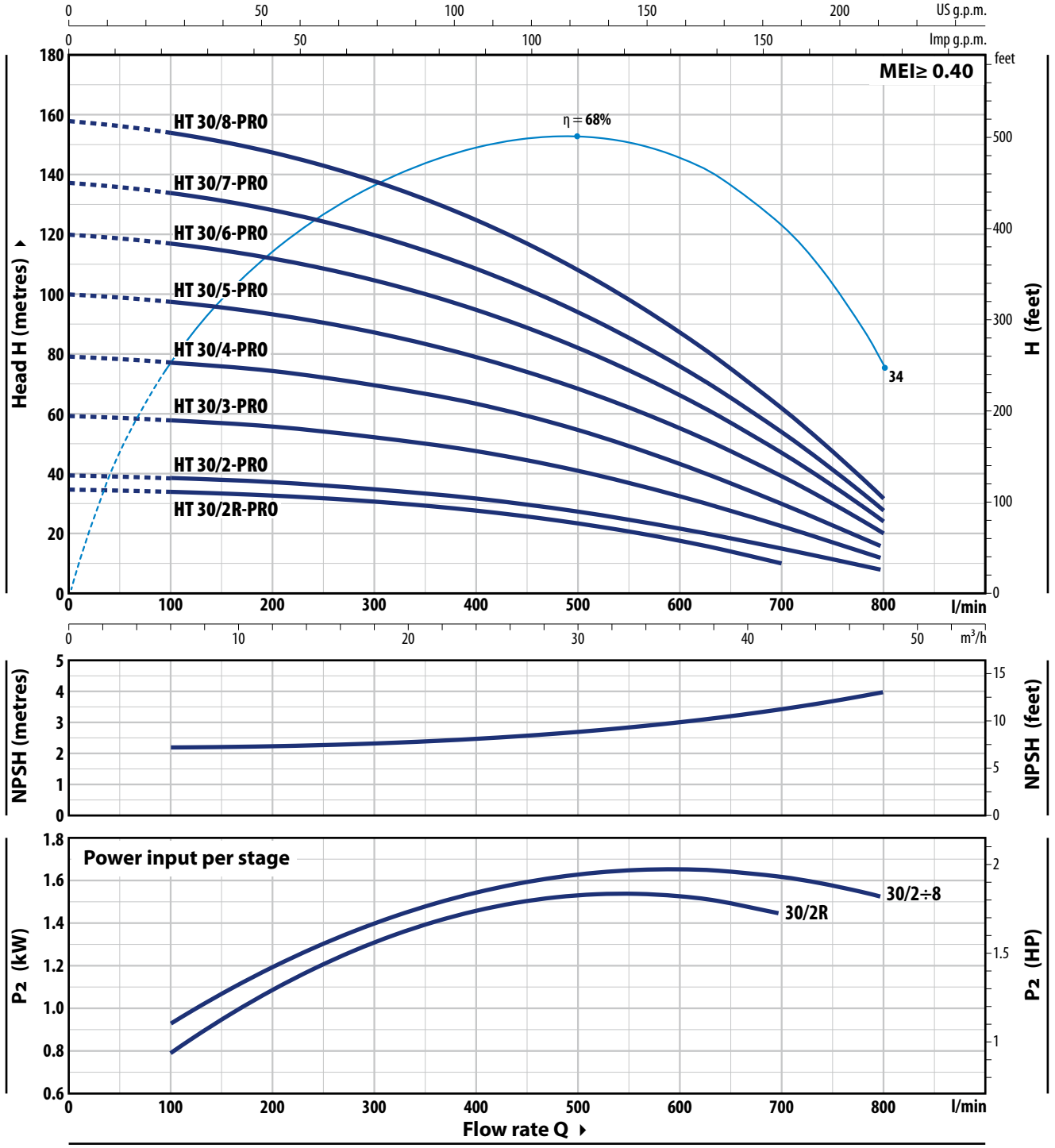
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 30 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P2)			Q	m³/h	0	6	12	18	24	36	42	48
Three-phase	kW	HP	3~		l/min	**0**	**100**	**200**	**300**	**400**	**600**	**700**	**800**
HT 30/2R - PRO	3	4				35	34	33	31	28	17.6	10	
HT 30/2 - PRO	4	5.5				40	39	37.5	35	31.5	22	15.7	8
HT 30/3 - PRO	5.5	7.5				60	58.5	56	52.5	47.5	33	23.5	12
HT 30/4 - PRO	7.5	10				80	78	75	70	63	44	31.3	16
HT 30/5 - PRO	9.2	12.5	IE3	**H**	metres	100	98	93	87	79	55	39	20
HT 30/6 - PRO	11	15				120	117	112	105	95	66.5	47	24
HT 30/7 - PRO	15	20				137	134	128	120	108	76	53.5	27.5
HT 30/8 - PRO	15	20				158	154	147	138	125	87	62	31.5

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

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

ABSORPTION

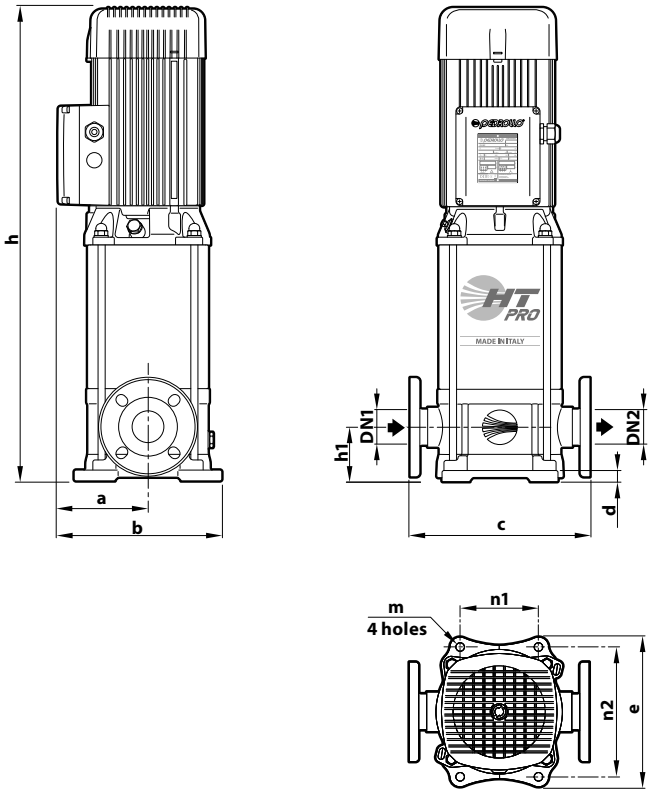
TYPE	VOLTAGE
Single-phase	**230 V**
HTm 3/4 - PRO	7.5 A
HTm 3/5 - PRO	9.0 A
HTm 3/6 - PRO	10.5 A
HTm 3/7 - PRO	12.5 A
HTm 5/2 - PRO	6.1 A
HTm 5/3 - PRO	8.5 A
HTm 5/4 - PRO	10.3 A
HTm 5/5 - PRO	12.5 A
HTm 5/6 - PRO	13.5 A
HTm 8/3 - PRO	8.7 A
HTm 8/4 - PRO	10.5 A
HTm 8/5 - PRO	12.5 A
HTm 8/6 - PRO	14.0 A
HTm 10/3 - PRO	9.5 A
HTm 10/4 - PRO	11.0 A
HTm 10/5 - PRO	13.5 A

TYPE	VOLTAGE			
Three-phase	**230 V - Δ**	**400 V - Y**	**400 V - Δ**	**690 V - Y**
HT 3/4 - PRO	5.2 A	3.0 A	–	–
HT 3/5 - PRO	6.1 A	3.5 A	–	–
HT 3/6 - PRO	6.9 A	4.0 A	–	–
HT 3/7 - PRO	8.3 A	4.8 A	–	–
HT 3/8 - PRO	11.2 A	6.5 A	–	–
HT 3/9 - PRO	11.8 A	6.8 A	–	–
HT 3/10 - PRO	12.1 A	7.0 A	–	–
HT 5/2 - PRO	4.9 A	2.8 A	–	–
HT 5/3 - PRO	5.5 A	3.2 A	–	–
HT 5/4 - PRO	6.6 A	3.8 A	–	–
HT 5/5 - PRO	8.3 A	4.8 A	–	–
HT 5/6 - PRO	9.0 A	5.2 A	–	–
HT 5/7 - PRO	11.8 A	6.8 A	–	–
HT 5/8 - PRO	13.0 A	7.5 A	–	–
HT 5/9 - PRO	14.7 A	8.5 A	–	–
HT 8/3 - PRO	5.7 A	3.3 A	–	–
HT 8/4 - PRO	6.9 A	4.0 A	–	–
HT 8/5 - PRO	8.3 A	4.8 A	–	–
HT 8/6 - PRO	9.3 A	5.4 A	–	–
HT 8/7 - PRO	12.1 A	7.0 A	–	–
HT 8/8 - PRO	14.7 A	8.5 A	–	–
HT 8/9 - PRO	16.4 A	9.5 A	–	–
HT 8/10 - PRO	–	–	10.5 A	6.1 A
HT 10/3 - PRO	5.9 A	3.4 A	–	–
HT 10/4 - PRO	7.8 A	4.5 A	–	–
HT 10/5 - PRO	9.0 A	5.2 A	–	–
HT 10/6 - PRO	11.2 A	6.5 A	–	–
HT 10/7 - PRO	12.5 A	7.2 A	–	–
HT 10/8 - PRO	14.4 A	8.3 A	–	–
HT 10/9 - PRO	15.6 A	9.0 A	–	–
HT 15/2R - PRO	10.4 A	6.0 A	–	–
HT 15/3R - PRO	12.5 A	7.2 A	–	–
HT 15/3 - PRO	15.2 A	8.8 A	–	–
HT 15/4 - PRO	–	–	11.2 A	6.5 A
HT 15/5 - PRO	–	–	14.2 A	8.2 A
HT 15/6 - PRO	–	–	15.0 A	8.7 A
HT 15/7 - PRO	–	–	16.5 A	9.5 A
HT 30/2R - PRO	12.1 A	7.0 A	–	–
HT 30/2 - PRO	15.2 A	8.8 A	–	–
HT 30/3 - PRO	–	–	11.2 A	6.5 A
HT 30/4 - PRO	–	–	14.1 A	8.2 A
HT 30/5 - PRO	–	–	16.5 A	9.5 A
HT 30/6 - PRO	–	–	19.0 A	11.0 A
HT 30/7 - PRO	–	–	22.0 A	12.7 A
HT 30/8 - PRO	–	–	24.5 A	14.2 A

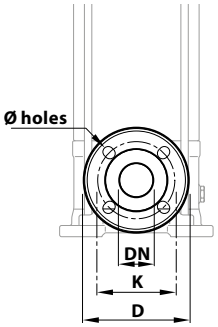
PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
HTm 3/4 - PRO	**HT 3/4 - PRO**	12
HTm 3/5 - PRO	**HT 3/5 - PRO**	12
HTm 3/6 - PRO	**HT 3/6 - PRO**	12
HTm 3/7 - PRO	**HT 3/7 - PRO**	12
–	**HT 3/8 - PRO**	4
–	**HT 3/9 - PRO**	4
–	**HT 3/10 - PRO**	4
HTm 5/2 - PRO	**HT 5/2 - PRO**	12
HTm 5/3 - PRO	**HT 5/3 - PRO**	12
HTm 5/4 - PRO	**HT 5/4 - PRO**	12
HTm 5/5 - PRO	**HT 5/5 - PRO**	12
HTm 5/6 - PRO	**HT 5/6 - PRO**	12
–	**HT 5/7 - PRO**	4
–	**HT 5/8 - PRO**	4
–	**HT 5/9 - PRO**	4
HTm 8/3 - PRO	**HT 8/3 - PRO**	12
HTm 8/4 - PRO	**HT 8/4 - PRO**	12
HTm 8/5 - PRO	**HT 8/5 - PRO**	12
HTm 8/6 - PRO	**HT 8/6 - PRO**	12
–	**HT 8/7 - PRO**	4
–	**HT 8/8 - PRO**	4
–	**HT 8/9 - PRO**	4
–	**HT 8/10 - PRO**	4
HTm 10/3 - PRO	**HT 10/3 - PRO**	12
HTm 10/4 - PRO	**HT 10/4 - PRO**	12
HTm 10/5 - PRO	**HT 10/5 - PRO**	12
–	**HT 10/6 - PRO**	12
–	**HT 10/7 - PRO**	4
–	**HT 10/8 - PRO**	4
–	**HT 10/9 - PRO**	4
–	**HT 15/2R - PRO**	4
–	**HT 15/3R - PRO**	4
–	**HT 15/3 - PRO**	4
–	**HT 15/4 - PRO**	4
–	**HT 15/5 - PRO**	4
–	**HT 15/6 - PRO**	2
–	**HT 15/7 - PRO**	2
–	**HT 30/2R - PRO**	4
–	**HT 30/2 - PRO**	4
–	**HT 30/3 - PRO**	4
–	**HT 30/4 - PRO**	4
–	**HT 30/5 - PRO**	2
–	**HT 30/6 - PRO**	2
–	**HT 30/7 - PRO**	2
–	**HT 30/8 - PRO**	2

DIMENSIONS AND WEIGHT



FLANGE



TYPE	DN	D	K	HOLES	
	mm	mm	mm	N°	Ø mm
HT 3 - PRO	**25**	115	85	4	14
HT 5 - PRO	**32**	140	100		18
HT 8 - PRO	**40**	150	110		
HT 10 - PRO	**40**	150	110		
HT 15 - PRO	**50**	165	125		
HT 30 - PRO	**65**	185	145		

TYPE		PORTS		N°	DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	STAGES	a	b	c	d	e	h	h1	n1	n2	m	1~	3~
HTm 3/4 - PRO	**HT 3/4 - PRO**	**1"**	**1"**	4	126	231	250	15	210	509	75	100	180	Ø 13	31.5	31.5
HTm 3/5 - PRO	**HT 3/5 - PRO**			5						535					31.7	31.7
HTm 3/6 - PRO	**HT 3/6 - PRO**			6						561					33.0	33.0
HTm 3/7 - PRO	**HT 3/7 - PRO**			7						607					37.9	37.9
–	**HT 3/8 - PRO**			8	151	257				685					–	45.2
–	**HT 3/9 - PRO**			9						711					–	46.2
–	**HT 3/10 - PRO**			10						737					–	47.1
HTm 5/2 - PRO	**HT 5/2 - PRO**	**1¼"**	**1¼"**	2	126	231				457					29.9	29.9
HTm 5/3 - PRO	**HT 5/3 - PRO**			3						483					30.1	30.1
HTm 5/4 - PRO	**HT 5/4 - PRO**			4						509					32.1	32.1
HTm 5/5 - PRO	**HT 5/5 - PRO**			5						555					34.5	34.5
HTm 5/6 - PRO	**HT 5/6 - PRO**			6						581					35.5	35.5
–	**HT 5/7 - PRO**			7	151	257				659					–	44.3
–	**HT 5/8 - PRO**			8						685					–	45.3
–	**HT 5/9 - PRO**			9						711					–	49.5
HTm 8/3 - PRO	**HT 8/3 - PRO**	**1½"**	**1½"**	3	126	231	280			488	80				30.6	30.6
HTm 8/4 - PRO	**HT 8/4 - PRO**			4						514					32.6	32.6
HTm 8/5 - PRO	**HT 8/5 - PRO**			5						560					36.1	36.1
HTm 8/6 - PRO	**HT 8/6 - PRO**			6						586					36.9	36.9
–	**HT 8/7 - PRO**			7	151	257				664					–	44.6
–	**HT 8/8 - PRO**			8						690					–	48.7
–	**HT 8/9 - PRO**			9						716					–	49.7
–	**HT 8/10 - PRO**			10						742					–	54.7
HTm 10/3 - PRO	**HT 10/3 - PRO**	**1½"**	**1½"**	3	126	231				488					30.7	30.7
HTm 10/4 - PRO	**HT 10/4 - PRO**			4						534					32.7	32.7
HTm 10/5 - PRO	**HT 10/5 - PRO**			5						560					36.2	36.2
–	**HT 10/6 - PRO**			6	151	257				638					–	44.5
–	**HT 10/7 - PRO**			7						664					–	44.7
–	**HT 10/8 - PRO**			8						690					–	48.8
–	**HT 10/9 - PRO**			9						716					–	49.8
–	**HT 15/2R - PRO**	**2"**	**2"**	2	151	275	300	18	247	589	90	130	215	Ø 14	–	52.0
–	**HT 15/3R - PRO**			3						633					–	52.5
–	**HT 15/3 - PRO**			3						633					–	57.0
–	**HT 15/4 - PRO**			4						677					–	63.0
–	**HT 15/5 - PRO**			5						771					–	71.0
–	**HT 15/6 - PRO**			6	181	305				900					–	115.5
–	**HT 15/7 - PRO**			7						944					–	116.0
–	**HT 30/2R - PRO**	**2½"**	**2½"**	2	151	275	320			604	105				–	53.5
–	**HT 30/2 - PRO**			2						604					–	56.5
–	**HT 30/3 - PRO**			3						648					–	61.5
–	**HT 30/4 - PRO**			4						742					–	70.0
–	**HT 30/5 - PRO**			5	181	305				871					–	123.5
–	**HT 30/6 - PRO**			6						915					–	124.0
–	**HT 30/7 - PRO**			7						959					–	136.5
–	**HT 30/8 - PRO**			8						1003					–	137.0

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**External sleeve**	Stainless steel **AISI 304**
4	**Impellers**	Stainless steel **AISI 304**
5	**Diffusers**	Stainless steel **AISI 304**

6 Mechanical seal

Water pump	Seal	Shaft	Materials
HT 3 - 5 - 8 - 10 PRO	**FN-18**	Ø 18 mm	Graphite / Ceramic / NBR
HT 15 - 30 PRO	**FN-KU-24** ISO 3069 EN 12756	Ø 24 mm	Graphite / Ceramic / NBR

7	**Shaft**	Stainless steel **AISI 316L**

8 Electric motor

– **HTm - PRO**: single-phase 230 V - 50 Hz with capacitor and winding integrated thermal motor protection

– **HT - PRO**: three-phase
230/400 V - 50 Hz up to 4 kW
400/690 V - 50 Hz from 5.5 to 15 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**

