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

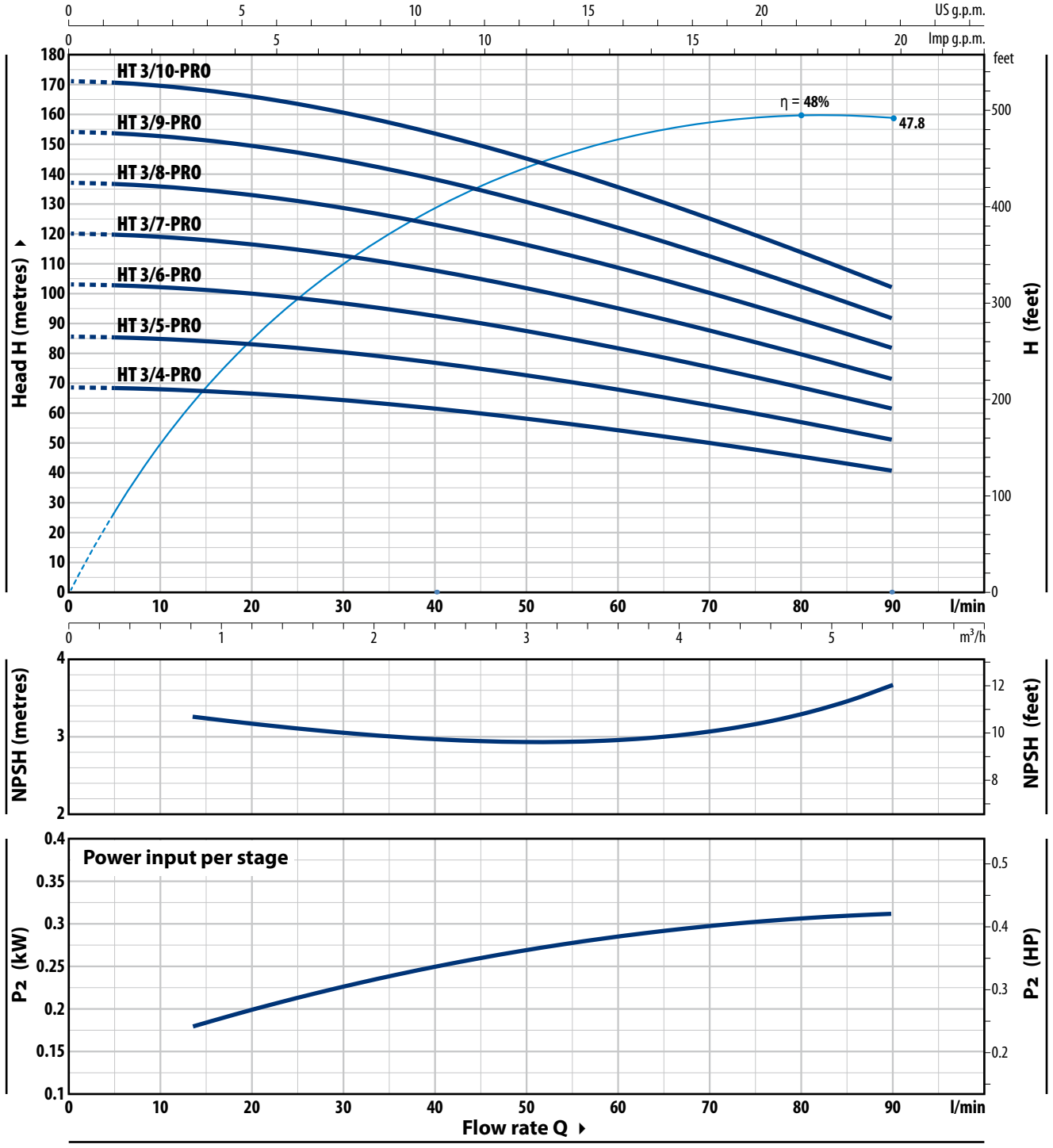
- Manometric suction head up to **7 m**
- Liquid temperature between **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **16 bar**

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 or frequency

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P2)			Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	5.4
Single-phase	Three-phase	kW	HP	3~		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**90**
HTm 3/4 - PRO	**HT 3/4 - PRO**	0.75	1				68.5	68.5	68	66.5	61.5	54.5	41
HTm 3/5 - PRO	**HT 3/5 - PRO**	1.1	1.5				86	86	85	83	77	68	51
HTm 3/6 - PRO	**HT 3/6 - PRO**	1.5	2				103	103	102	100	92	82	61.5
HTm 3/7 - PRO	**HT 3/7 - PRO**	1.8	2.5	**IE3**	**H**	metres	120	120	119	116	108	95	72
–	**HT 3/8 - PRO**	2.2	3				137	137	136	133	123	109	82
–	**HT 3/9 - PRO**	3	4				154	154	153	150	138	122	92
–	**HT 3/10 - PRO**	3	4				172	171	170	166	154	136	102

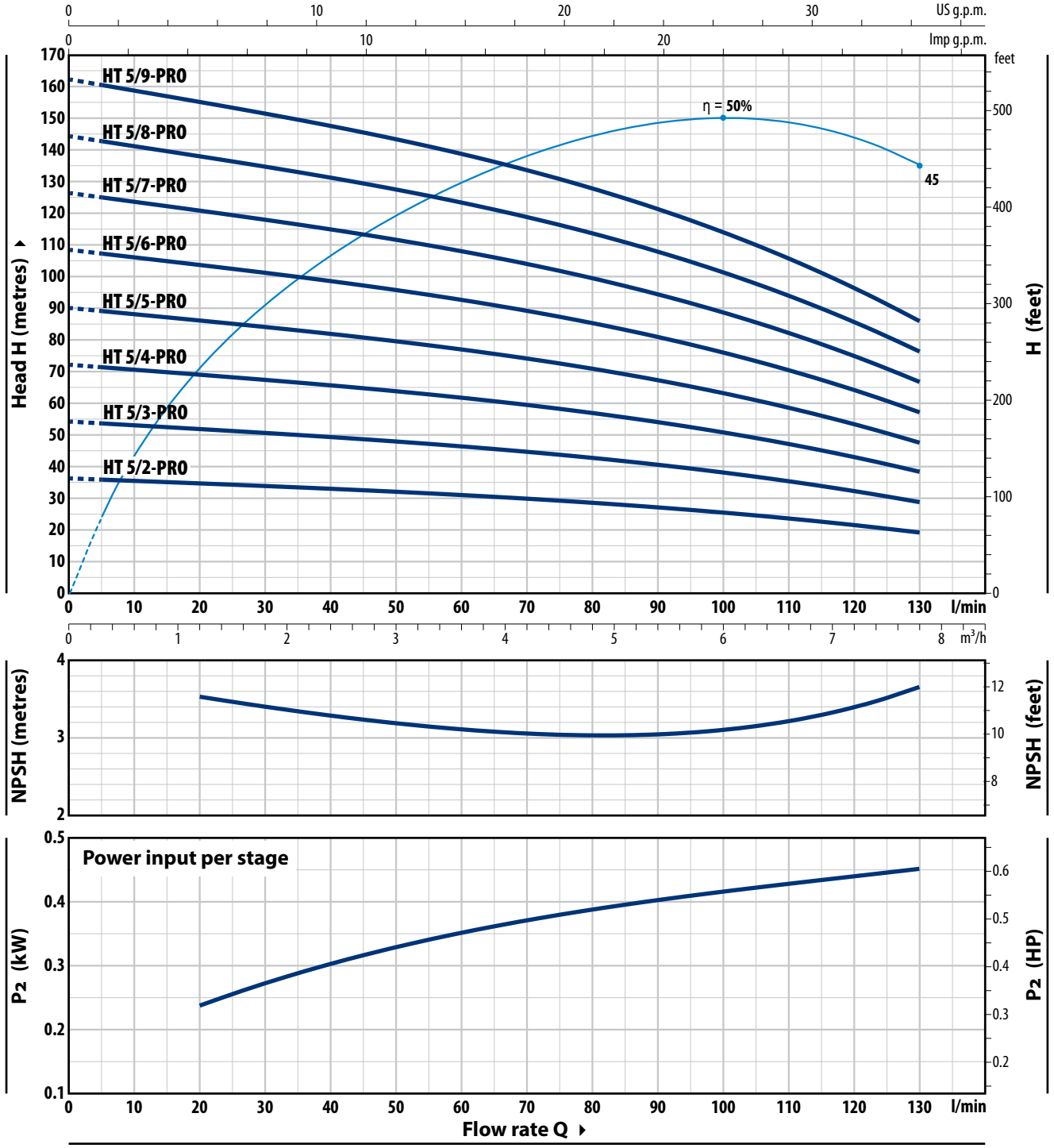
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 5 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



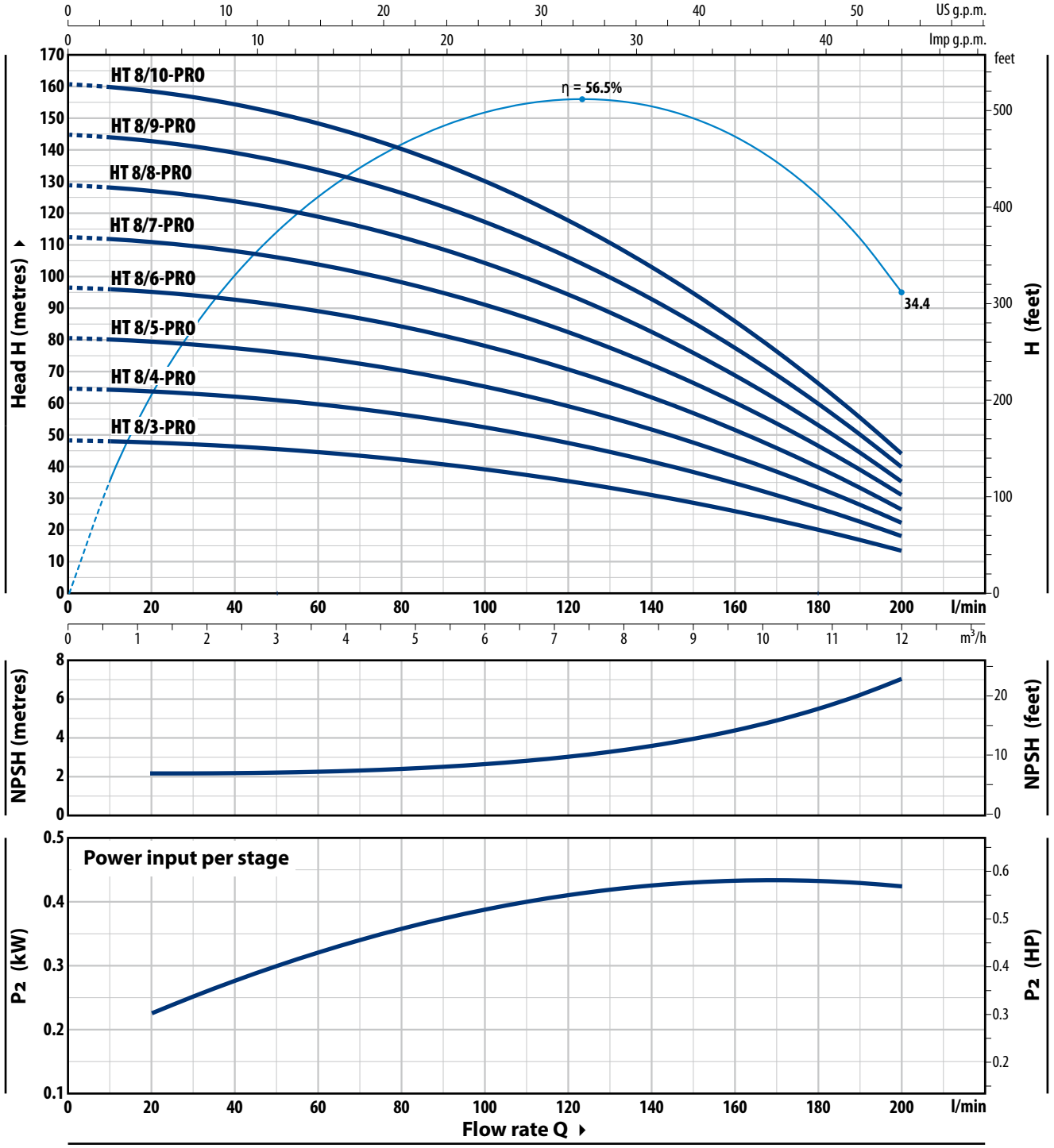
TYPE		POWER (P2)			Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6	7.8
Single-phase	**Three-phase**	**kW**	**HP**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**100**	**130**
HTm 5/2 - PRO	**HT 5/2 - PRO**	0.75	1				36	35.5	35.5	34.5	33	31	28.5	27	25.3	19
HTm 5/3 - PRO	**HT 5/3 - PRO**	1.1	1.5				54	53.5	53	51.5	49	46.5	42.5	40.5	38	28.5
HTm 5/4 - PRO	**HT 5/4 - PRO**	1.5	2				72	71	71	69	65.5	61.5	57	54	50.5	38
HTm 5/5 - PRO	**HT 5/5 - PRO**	1.8	2.5	**IE3**	**H** metres		90	89	88	86	82	77	71	67.5	63.5	47.5
HTm 5/6 - PRO	**HT 5/6 - PRO**	2.2	3				108	107	106	103	98	93	85	81	76	57
–	**HT 5/7 - PRO**	3	4				126	125	124	121	115	108	99	94	89	66.5
–	**HT 5/8 - PRO**	3	4				144	143	141	138	131	123	114	108	101	76
–	**HT 5/9 - PRO**	4	5.5				162	161	159	155	148	139	128	121	114	86

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

60 Hz



TYPE		POWER (P2)			Q m³/h	0	1.2	2.4	3.6	6.0	8.4	10.8	12.0
Single-phase	**Three-phase**	**kW**	**HP**	**3~**	l/min	**0**	**20**	**40**	**60**	**100**	**140**	**180**	**200**
HTm 8/3 - PRO	**HT 8/3 - PRO**	1.1	1.5			48.5	48	46.5	45	39.5	31	20.1	13.5
HTm 8/4 - PRO	**HT 8/4 - PRO**	1.5	2			64.5	64	62	59.5	52.5	41.5	26.8	18
HTm 8/5 - PRO	**HT 8/5 - PRO**	1.8	2.5			81	80	78	75	65.5	52	33.5	22.5
HTm 8/6 - PRO	**HT 8/6 - PRO**	2.2	3			97	95	93	89	78	62	40	27
–	**HT 8/7 - PRO**	3	4	**IE3**	**H** metres	113	111	108	104	91	72	47	31.5
–	**HT 8/8 - PRO**	4	5.5			129	127	124	119	104	83	53.5	35.5
–	**HT 8/9 - PRO**	4	5.5			145	143	139	134	117	93	60	40
–	**HT 8/10 - PRO**	5.5	7.5			161	159	155	149	131	103	67	44.5

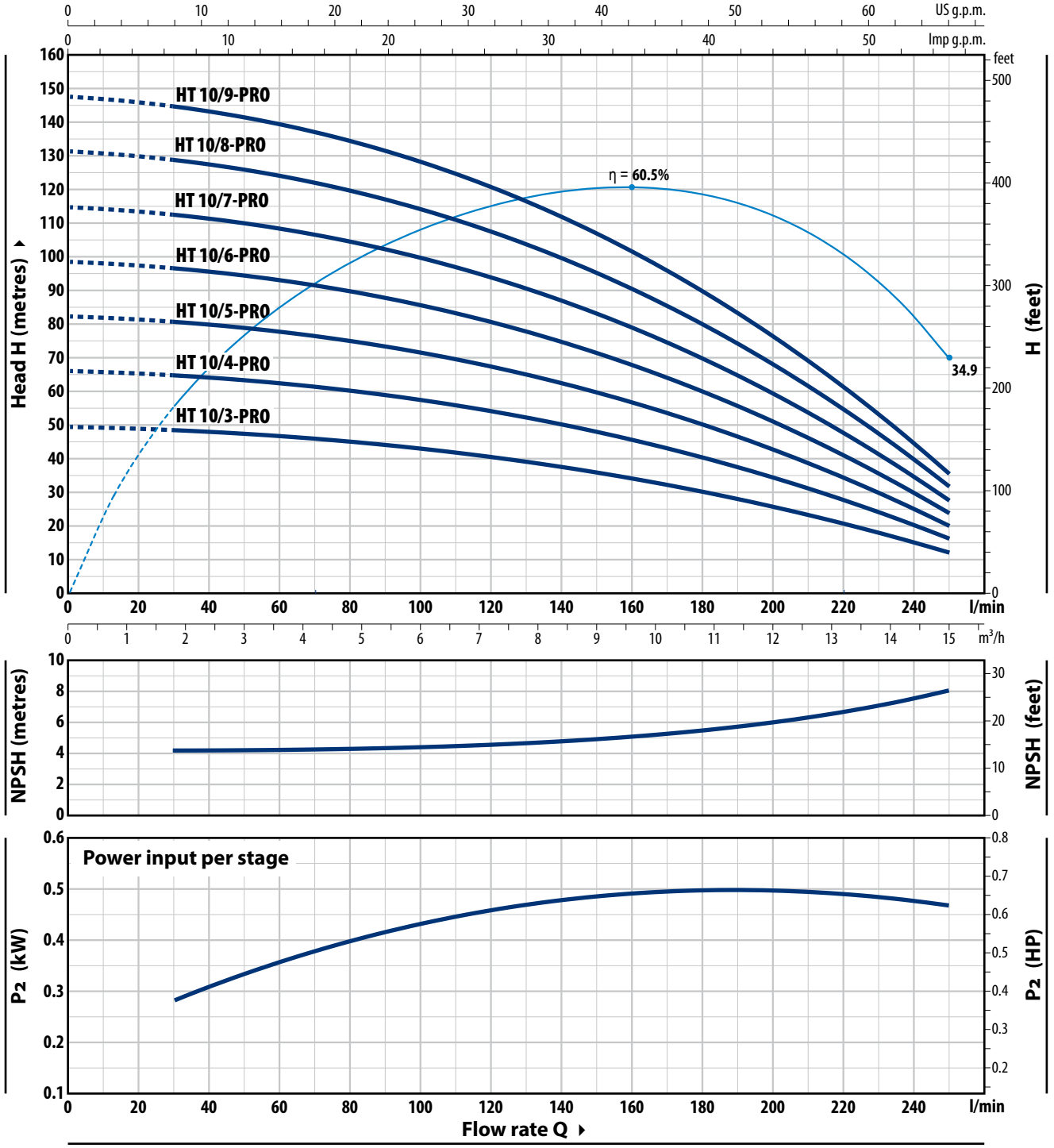
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 10 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



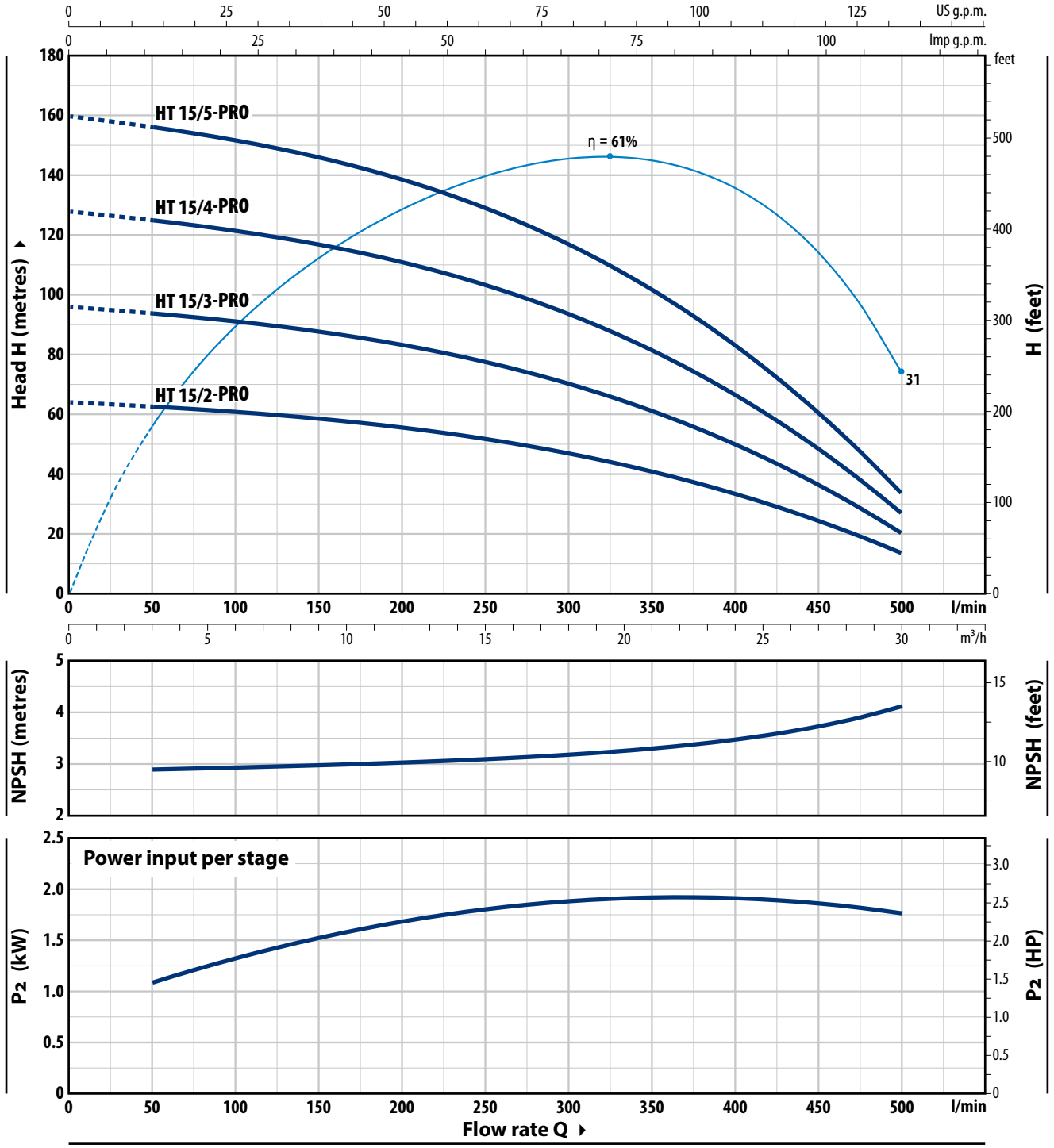
TYPE		POWER (P2)			Q	m³/h	0	1.8	3	4.2	5.4	6.6	7.8	9	10.8	13.2	15
Single-phase	**Three-phase**	**kW**	**HP**	**3~**		l/min	**0**	**30**	**50**	**70**	**90**	**110**	**130**	**150**	**180**	**220**	**250**
HTm 10/3 - PRO	**HT 10/3 - PRO**	1.5	2				49.5	48.5	47.5	46	44	42	39	36	30	20.6	12
HTm 10/4 - PRO	**HT 10/4 - PRO**	1.8	2.5				66	64.5	63	61.5	59	55.5	52	48	40	27.5	16
HTm 10/5 - PRO	**HT 10/5 - PRO**	2.2	3				82	81	79	77	73	69.5	65	59.5	50	34.5	20
–	**HT 10/6 - PRO**	3	4	**IE3**	**H**	metres	99	97	94	92	88	83	78	71	60	41	24
–	**HT 10/7 - PRO**	3	4				115	113	110	107	102	97	91	83	70	48	28
–	**HT 10/8 - PRO**	4	5.5				131	129	126	122	117	111	104	95	80	54.5	32
–	**HT 10/9 - PRO**	4	5.5				148	145	142	137	132	125	117	107	90	61.5	36

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

60 Hz



TYPE	POWER (P2)			Q m³/h	0	3	6	12	18	24	30
Three-phase	kW	HP	3~	l/min	**0**	**50**	**100**	**200**	**300**	**400**	**500**
HT 15/2 - PRO	4	5.5	**IE3**	**H** metres	64	62.5	60.5	55.5	47	33	13.5
HT 15/3 - PRO	5.5	7.5			96	94	91	83	70	50	20
HT 15/4 - PRO	7.5	10			128	125	121	111	94	66.5	27
HT 15/5 - PRO	9.2	12.5			160	156	152	139	117	83	33.5

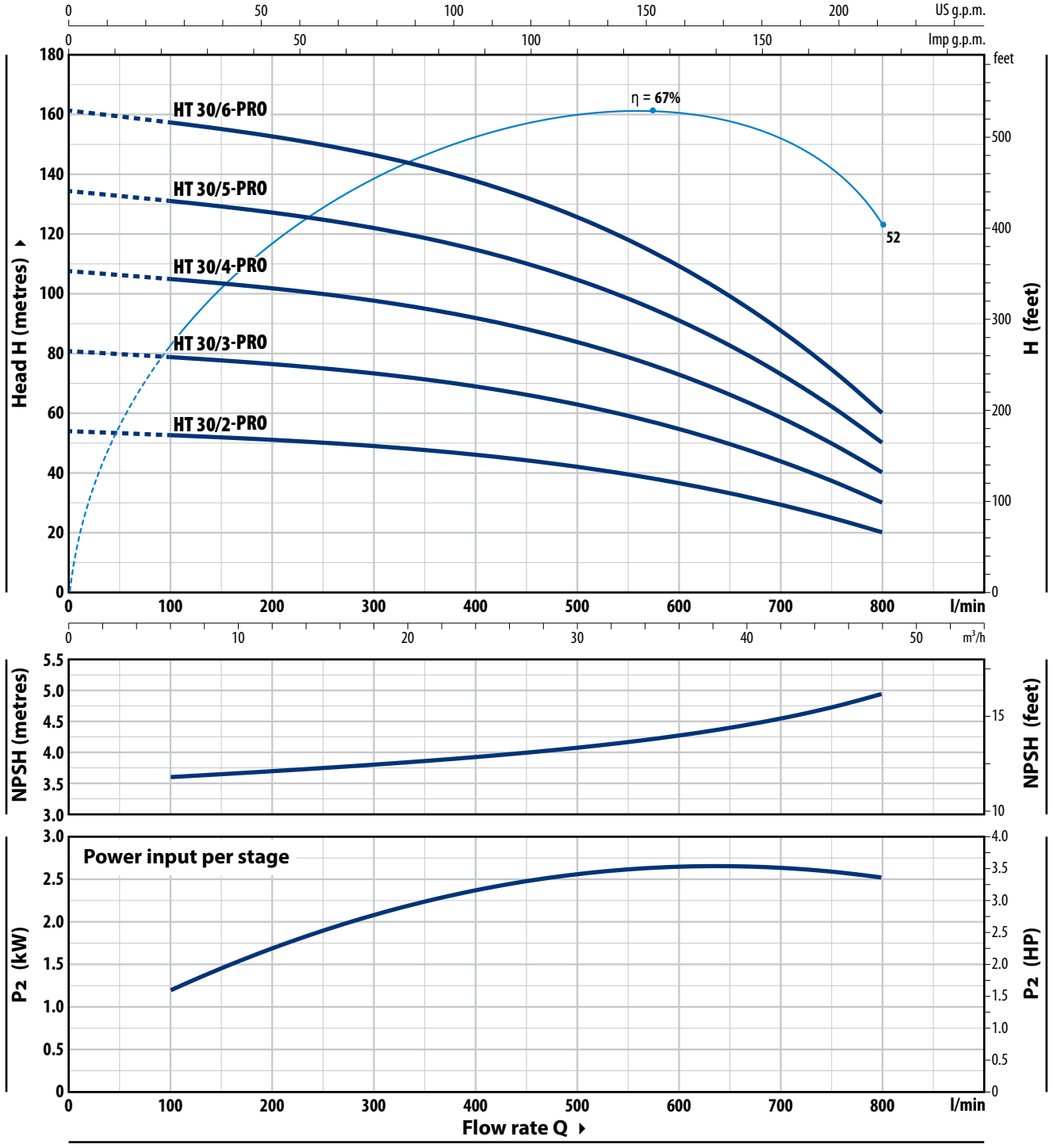
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 30 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE	POWER (P2)			Q	m³/h	0	6	12	18	24	30	36	48
Three-phase	kW	HP	3~		l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**800**
HT 30/2 - PRO	5.5	7.5				54	52.5	51	49	46	42	36.5	20
HT 30/3 - PRO	7.5	10				81	79	76	73	69	63	54.5	30
HT 30/4 - PRO	11	15	**IE3**	**H**	metres	108	105	102	98	92	84	73	40
HT 30/5 - PRO	15	20				134	131	127	122	115	105	91	50
HT 30/6 - PRO	15	20				161	157	153	146	138	126	109	60

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	**220 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	6.0 A
HTm 5/3 - PRO	8.0 A
HTm 5/4 - PRO	10.0 A
HTm 5/5 - PRO	11.8 A
HTm 5/6 - PRO	14.2 A
HTm 8/3 - PRO	8.0 A
HTm 8/4 - PRO	11.0 A
HTm 8/5 - PRO	12.5 A
HTm 8/6 - PRO	15.2 A
HTm 10/3 - PRO	n.a.
HTm 10/4 - PRO	n.a.
HTm 10/5 - PRO	n.a.

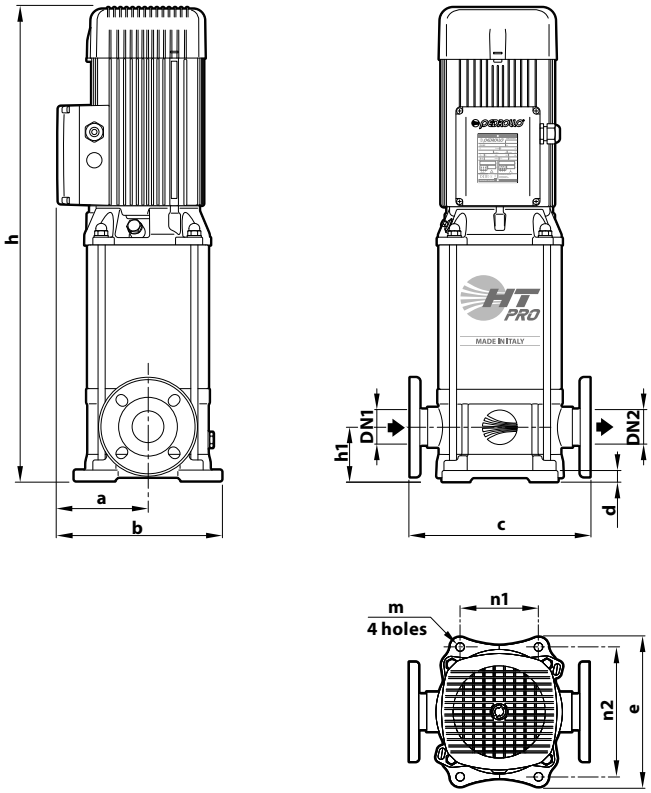
TYPE	VOLTAGE			
Three-phase	**220 V - Δ**	**380 V - Y**	**220 V - Δ**	**440 V - Y**
HT 3/4 - PRO	6.1 A	3.5 A	5.2 A	3.0 A
HT 3/5 - PRO	6.9 A	4.0 A	6.0 A	3.5 A
HT 3/6 - PRO	7.6 A	4.4 A	6.6 A	3.8 A
HT 3/7 - PRO	9.2 A	5.3 A	7.9 A	4.6 A
HT 3/8 - PRO	n.a.	n.a.	n.a.	n.a.
HT 3/9 - PRO	n.a.	n.a.	n.a.	n.a.
HT 3/10 - PRO	n.a.	n.a.	n.a.	n.a.
HT 5/2 - PRO	5.7 A	3.3 A	4.9 A	2.9 A
HT 5/3 - PRO	6.6 A	3.8 A	5.7 A	3.3 A
HT 5/4 - PRO	7.4 A	4.3 A	6.4 A	3.7 A
HT 5/5 - PRO	9.2 A	5.3 A	7.9 A	4.6 A
HT 5/6 - PRO	10.0 A	5.8 A	8.7 A	5.0 A
HT 5/7 - PRO	n.a.	n.a.	n.a.	n.a.
HT 5/8 - PRO	n.a.	n.a.	n.a.	n.a.
HT 5/9 - PRO	n.a.	n.a.	n.a.	n.a.
HT 8/3 - PRO	6.6 A	3.8 A	5.7 A	3.3 A
HT 8/4 - PRO	7.8 A	4.5 A	6.7 A	3.9 A
HT 8/5 - PRO	9.5 A	5.5 A	8.2 A	4.8 A
HT 8/6 - PRO	10.4 A	6.0 A	9.0 A	5.2 A
HT 8/7 - PRO	n.a.	n.a.	n.a.	n.a.
HT 8/8 - PRO	n.a.	n.a.	n.a.	n.a.
HT 8/9 - PRO	n.a.	n.a.	n.a.	n.a.
HT 8/10 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/3 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/4 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/5 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/6 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/7 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/8 - PRO	n.a.	n.a.	n.a.	n.a.
HT 10/9 - PRO	n.a.	n.a.	n.a.	n.a.
HT 15/2 - PRO	19.0 A	11.0 A	16.8 A	10.5 A
HT 15/3 - PRO	24.2 A	14.0 A	21.3 A	13.3 A
HT 15/4 - PRO	31.2 A	18.0 A	27.7 A	17.3 A
HT 15/5 - PRO	35.0 A	20.2 A	30.8 A	19.2 A
HT 30/2 - PRO	23.7 A	13.7 A	20.9 A	13.0 A
HT 30/3 - PRO	31.5 A	18.2 A	27.7 A	17.3 A
HT 30/4 - PRO	37.2 A	21.5 A	32.8 A	20.5 A
HT 30/5 - PRO	45.5 A	26.3 A	40.0A	25.0 A
HT 30/6 - PRO	52.2 A	30.2 A	46.0 A	28.8 A

PALLET CAPACITY

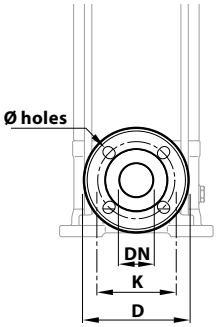
TYPE		NO. OF PUMPS
Single-phase	**Three-phase**	
HTm 3/4 - PRO	**HT 3/4 - PRO**	12
HTm 3/5 - PRO	**HT 3/5 - PRO**	12
HTm 3/6 - PRO	**HT 3/6 - PRO**	12
HTm 3/7 - PRO	**HT 3/7 - PRO**	12
–	**HT 3/8 - PRO**	4
–	**HT 3/9 - PRO**	4
–	**HT 3/10 - PRO**	4
HTm 5/2 - PRO	**HT 5/2 - PRO**	12
HTm 5/3 - PRO	**HT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

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 220 V - 60 Hz with capacitor and winding integrated thermal motor protection
- **HT - PRO**: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz
- The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)
- Continuous running duty **S1**