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.

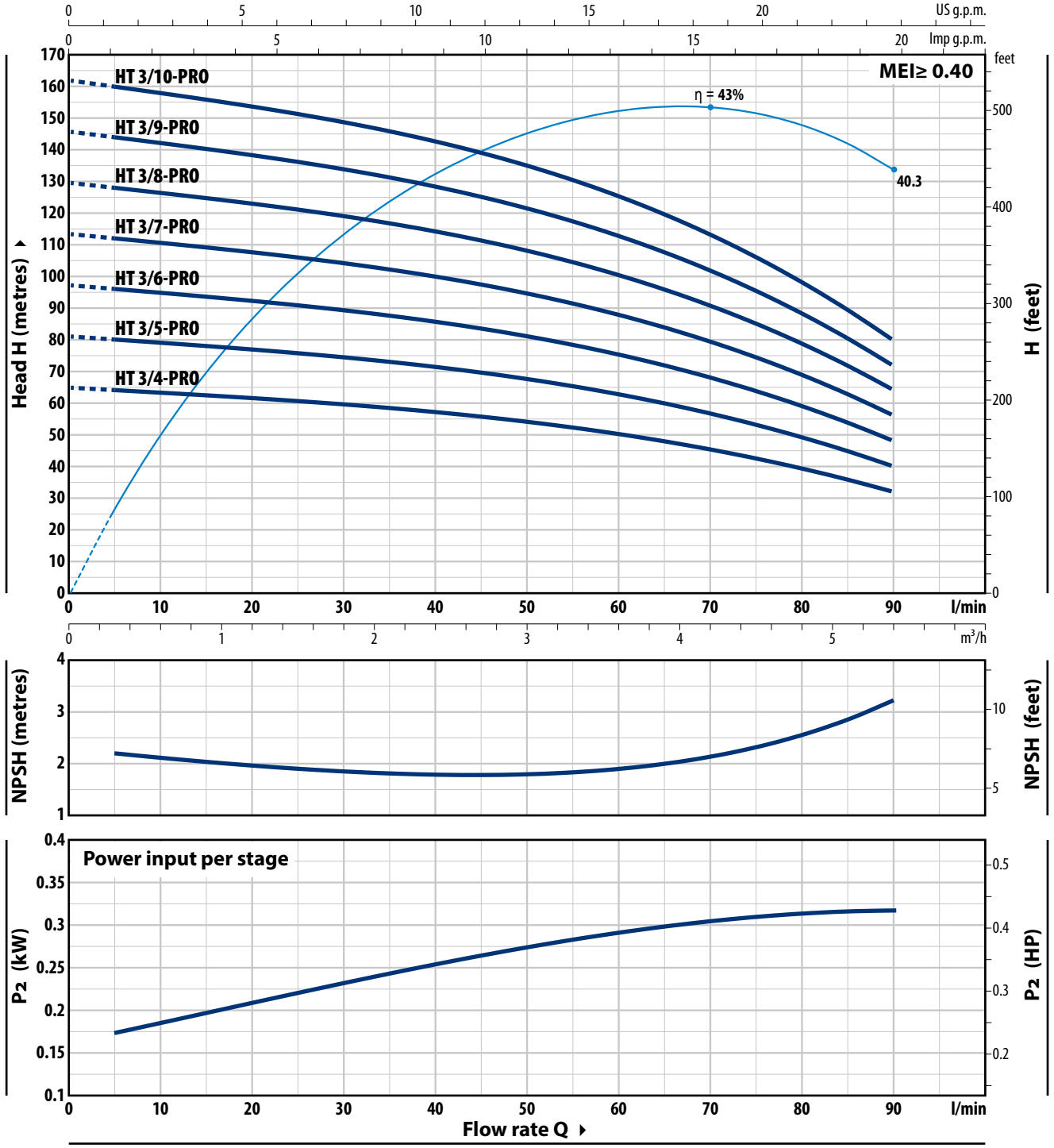
Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

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

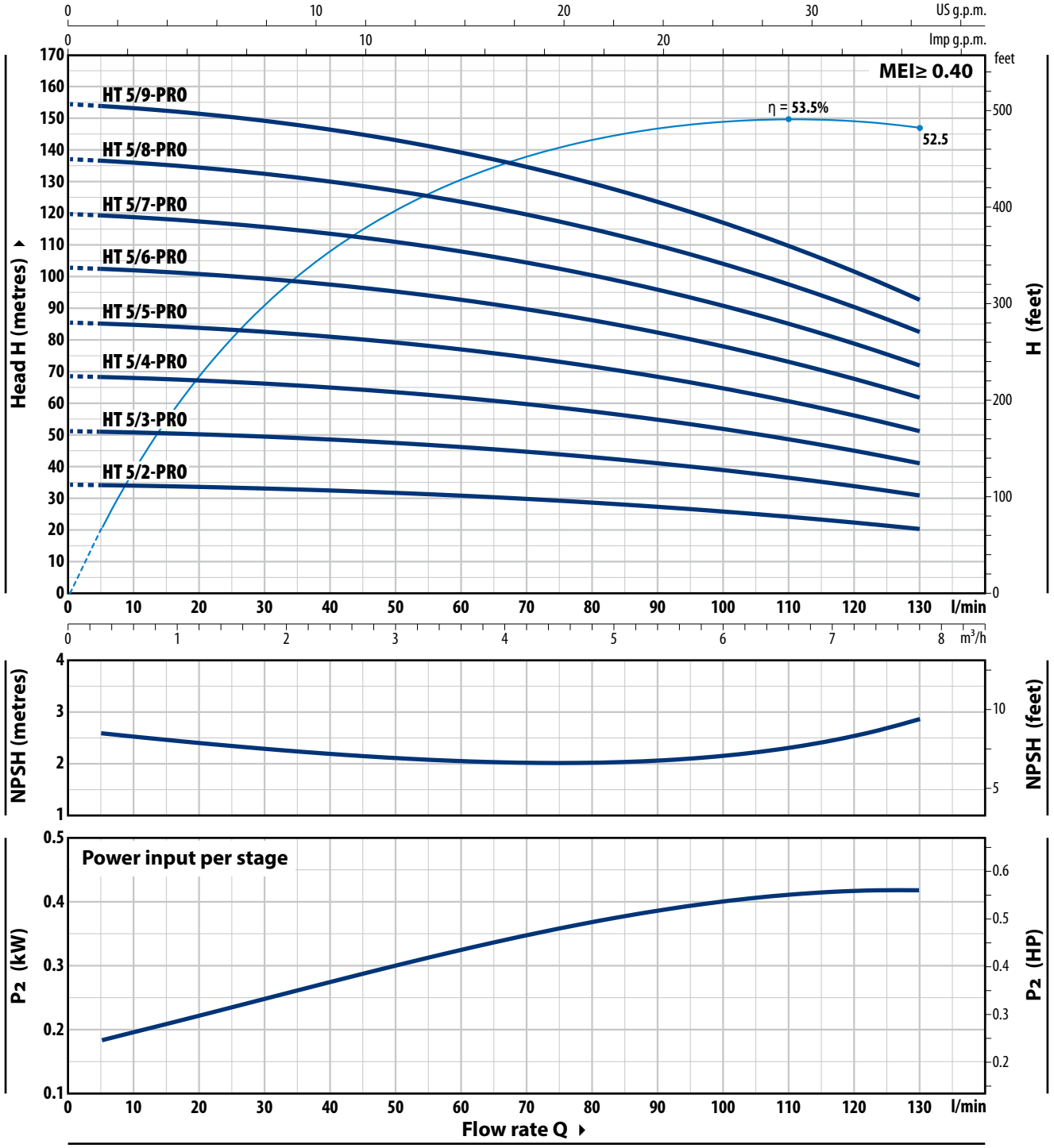
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

HT 5 - PRO

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



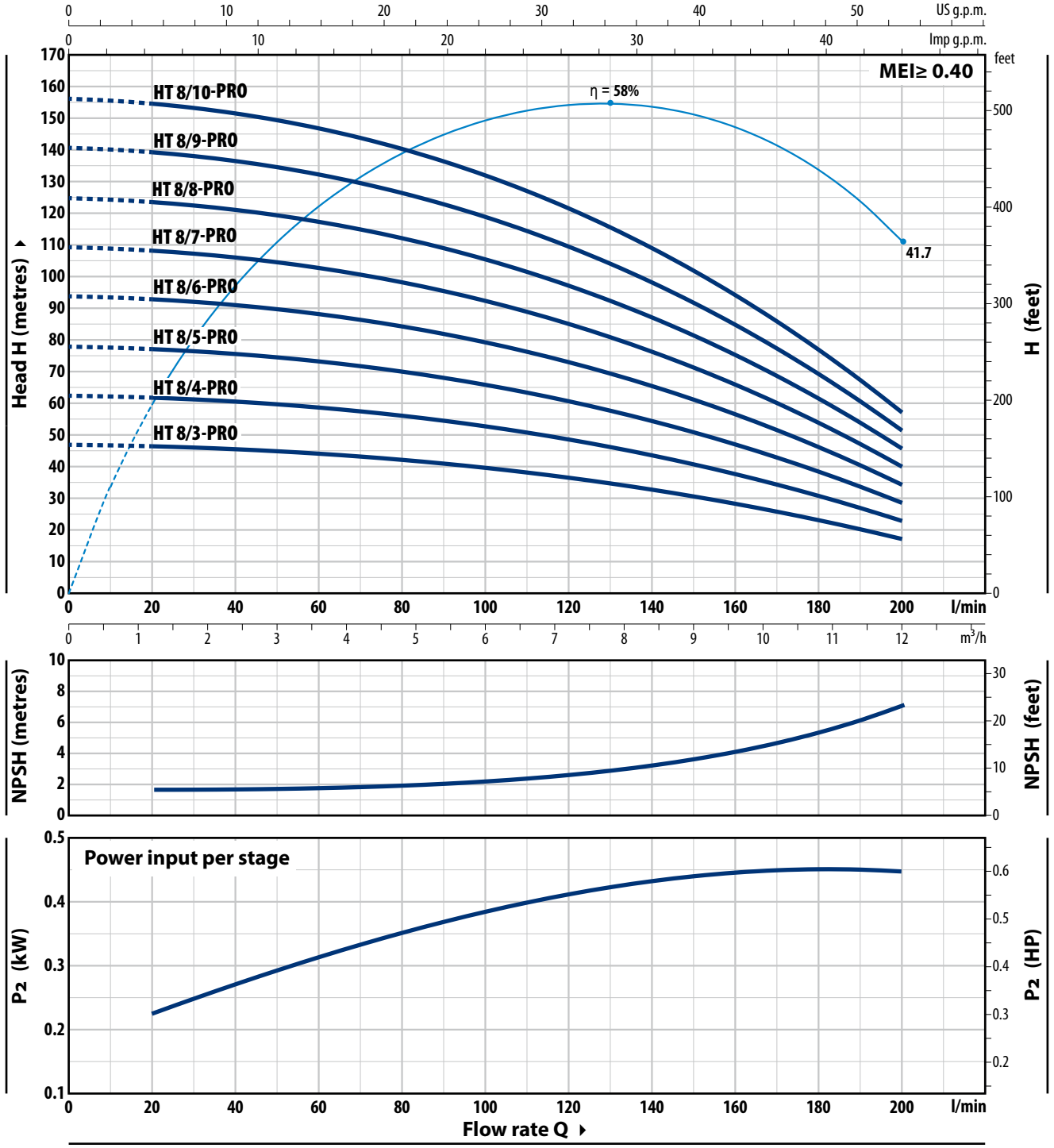
TYPE		POWER (P2)				Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6	7.8
Single-phase	**Three-phase**	**kW**	**HP**	**1~**	**3~**		l/min	**0**	**5**	**10**	**20**	**40**	**60**	**80**	**90**	**100**	**130**
HTm 5/2 - PRO	**HT 5/2 - PRO**	0.75	1					35	35	32.7	32.3	32.5	31	25.5	27.5	26	20.5
HTm 5/3 - PRO	**HT 5/3 - 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

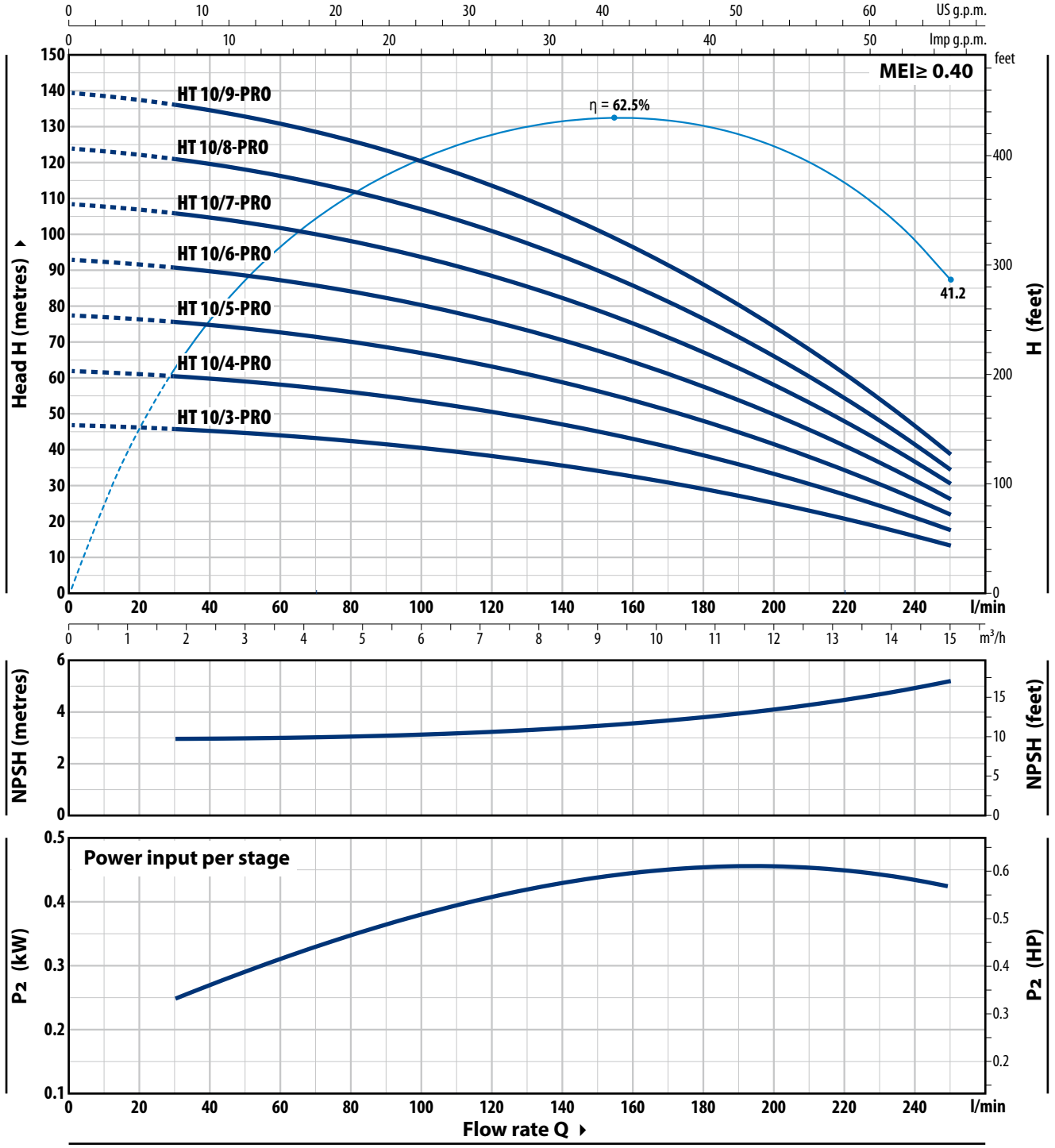
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

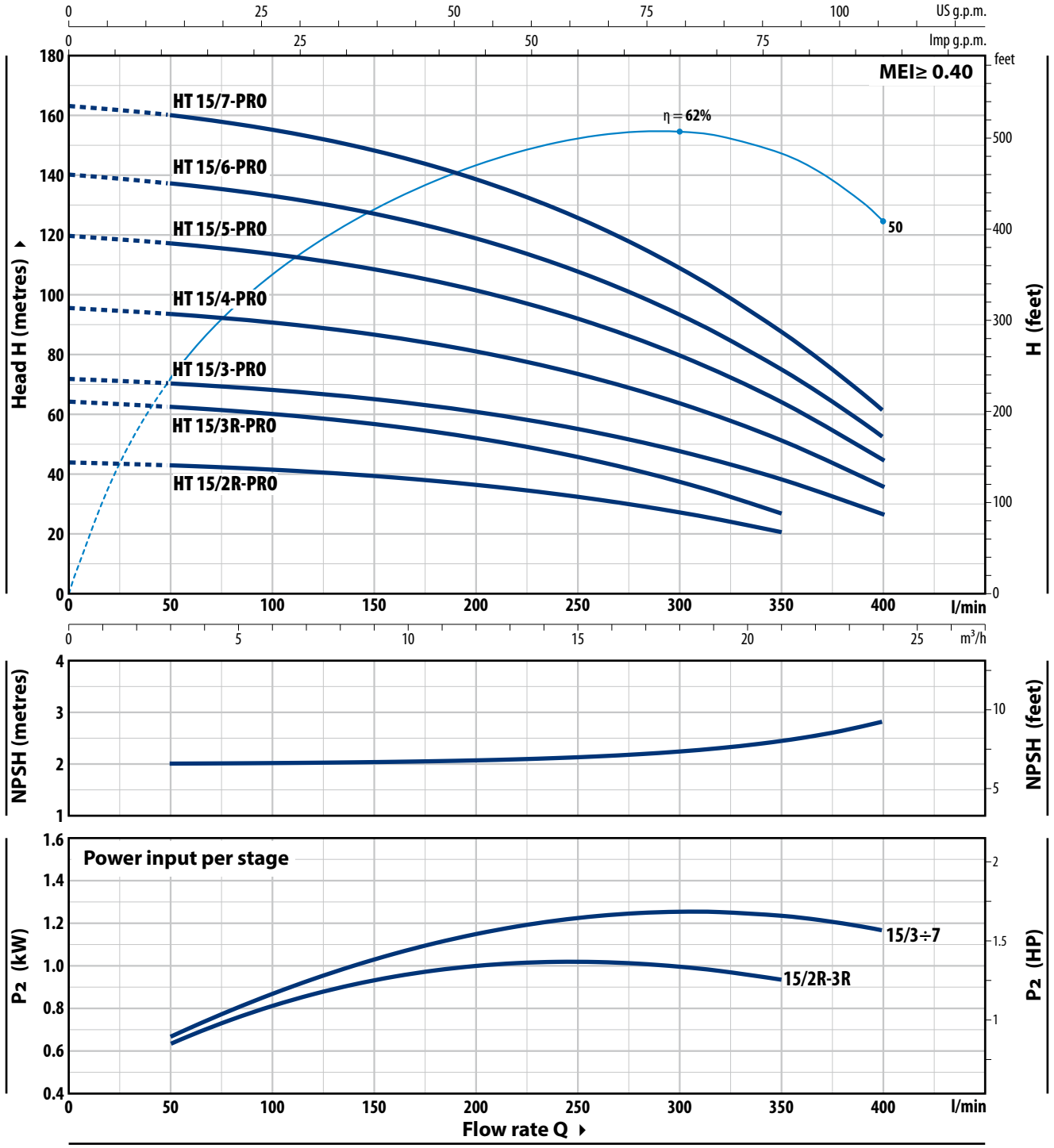
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

※ **Start of production 06.2024** ※

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

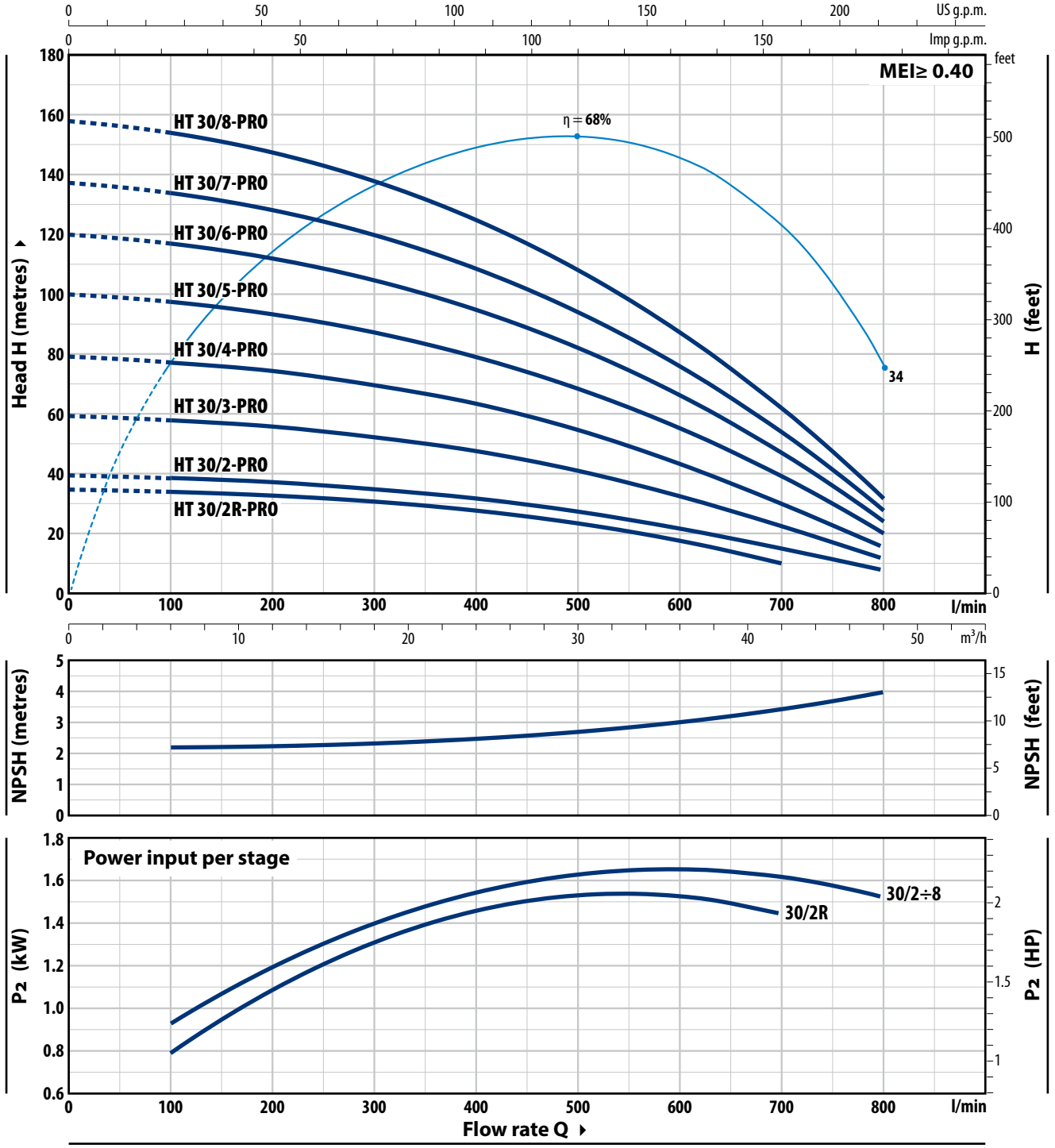
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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								
Three-phase	kW	HP	3~		m³/h	0	6	12	18	24	36	42	48
					l/min	**0**	**100**	**200**	**300**	**400**	**600**	**700**	**800**
HT 30/2R - PRO	3	4	IE3	H metres		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				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

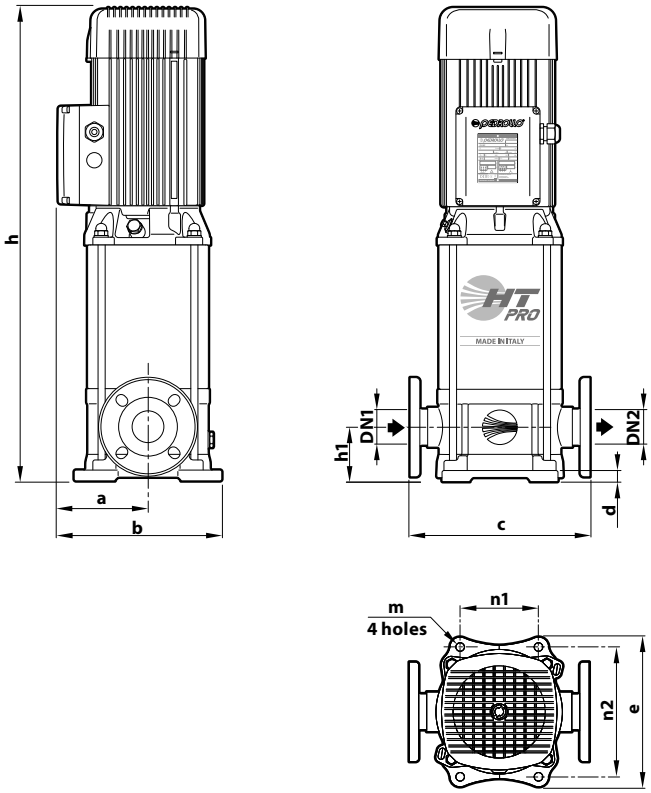
TYPE	VOLTAGE
Single-phase	**230 V**
HTm 3/4 - PRO	7.5 A
HTm 3/5 - PRO	9.0 A
HTm 3/6 - PRO	10.5 A
HTm 3/7 - PRO	12.5 A
HTm 5/2 - PRO	6.1 A
HTm 5/3 - PRO	8.5 A
HTm 5/4 - PRO	10.3 A
HTm 5/5 - PRO	12.5 A
HTm 5/6 - PRO	13.5 A
HTm 8/3 - PRO	8.7 A
HTm 8/4 - PRO	10.5 A
HTm 8/5 - PRO	12.5 A
HTm 8/6 - PRO	14.0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

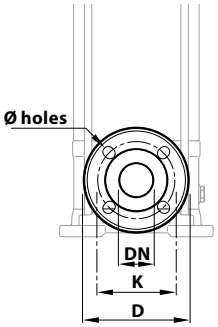
PALLET CAPACITY

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**	6
–	**HT 3/9 - PRO**	6
–	**HT 3/10 - PRO**	6
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**	6
–	**HT 5/8 - PRO**	6
–	**HT 5/9 - PRO**	6
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**	6
–	**HT 8/8 - PRO**	6
–	**HT 8/9 - PRO**	6
–	**HT 8/10 - PRO**	6
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**	6
–	**HT 10/8 - PRO**	6
–	**HT 10/9 - PRO**	6
–	**HT 15/2R - PRO**	6
–	**HT 15/3R - PRO**	6
–	**HT 15/3 - PRO**	6
–	**HT 15/4 - PRO**	6
–	**HT 15/5 - PRO**	6
–	**HT 15/6 - PRO**	2
–	**HT 15/7 - PRO**	2
–	**HT 30/2R - PRO**	6
–	**HT 30/2 - PRO**	6
–	**HT 30/3 - PRO**	6
–	**HT 30/4 - PRO**	6
–	**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**	**DN25 or 1"**	**DN25 or 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**	**DN32 or 1¼"**	**DN32 or 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**	**DN40 or 1½"**	**DN40 or 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**	**DN40 or 1½"**	**DN40 or 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**	**DN50 or 2"**	**DN50 or 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**	**DN65 or 2½"**	**DN65 or 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 431**

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**