



-  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 m<sup>3</sup>/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

#### APPLICATION LIMITS

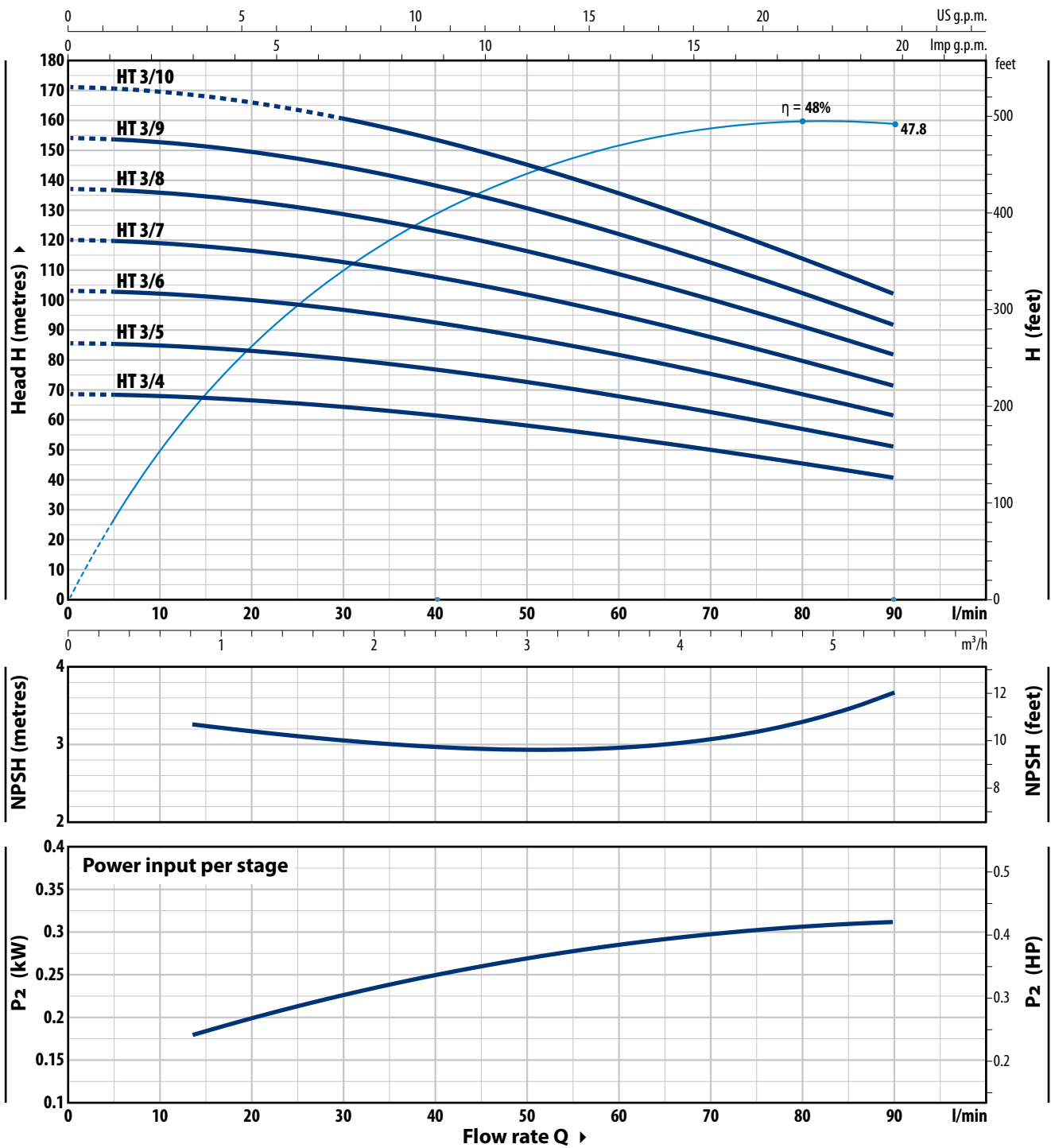
- Manometric suction head up to **7 m**
- Liquid temperature between **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **16 bar**

#### 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 or frequency

## CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P <sub>2</sub> )		3~	Q	Flow rate											
Single-phase	Three-phase	kW	HP			m <sup>3</sup> /h	0	0.3	0.6	1.2	1.8	2.4	3.6	5.4			
					l/min	0	5	10	20	30	40	60	90				
HTm 3/4	HT 3/4	0.75	1	IE3	H metres	68.5	68.5	68	66.5	65	61.5	54.5	41				
HTm 3/5	HT 3/5	1.1	1.5			86	86	85	83	80	77	68	51				
HTm 3/6	HT 3/6	1.5	2			103	103	102	100	96	92	82	61.5				
HTm 3/7	HT 3/7	1.8	2.5			120	120	119	116	112	108	95	72				
-	HT 3/8	2.2	3			137	137	136	133	128	123	109	82				
-	HT 3/9	3	4			154	154	153	150	145	138	122	92				
-	HT 3/10	3	4			-	-	-	-	160	154	136	102				

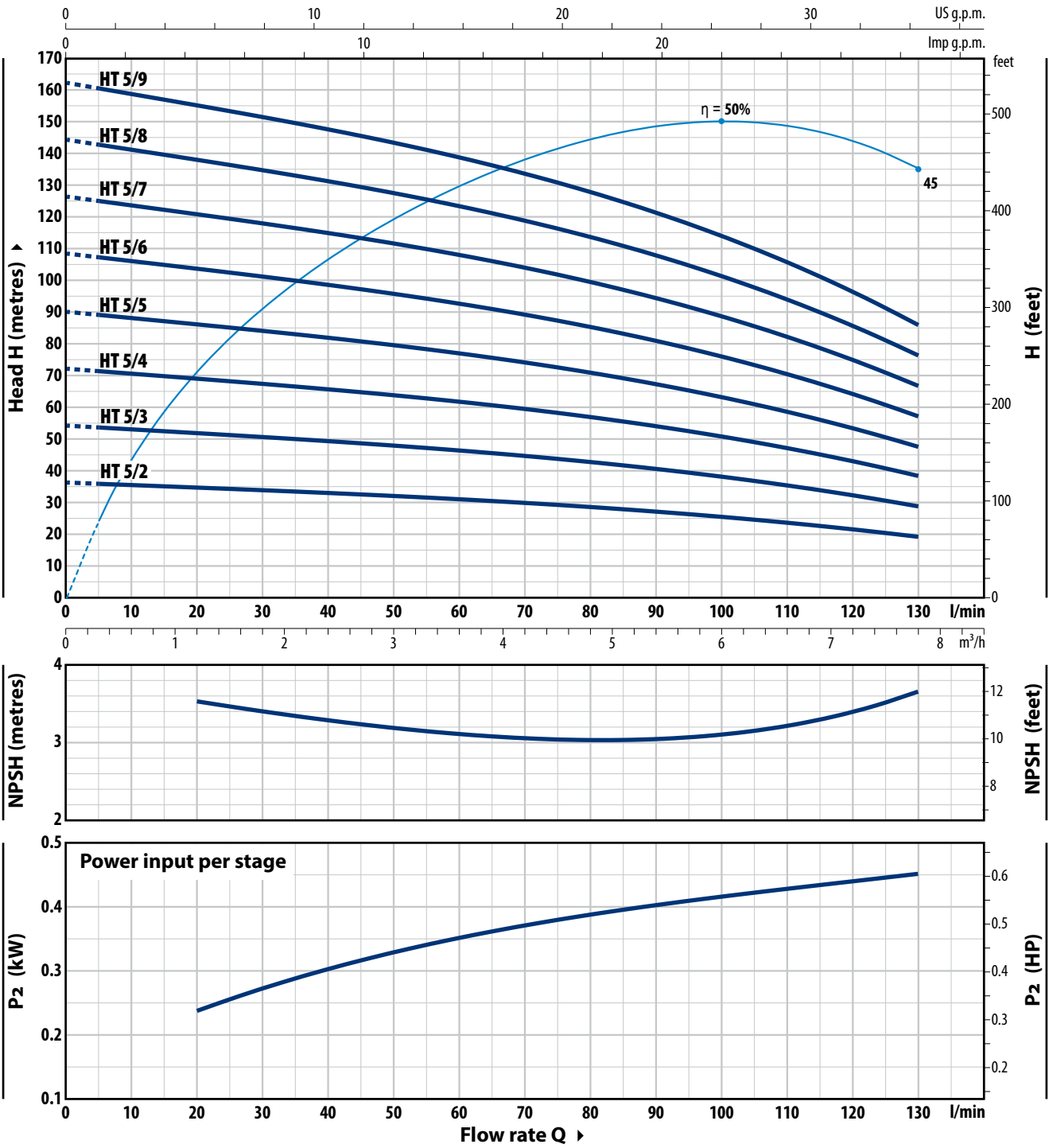
Q = Flow rate H = Total manometric head HS = Suction height

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

# HT 5

## CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



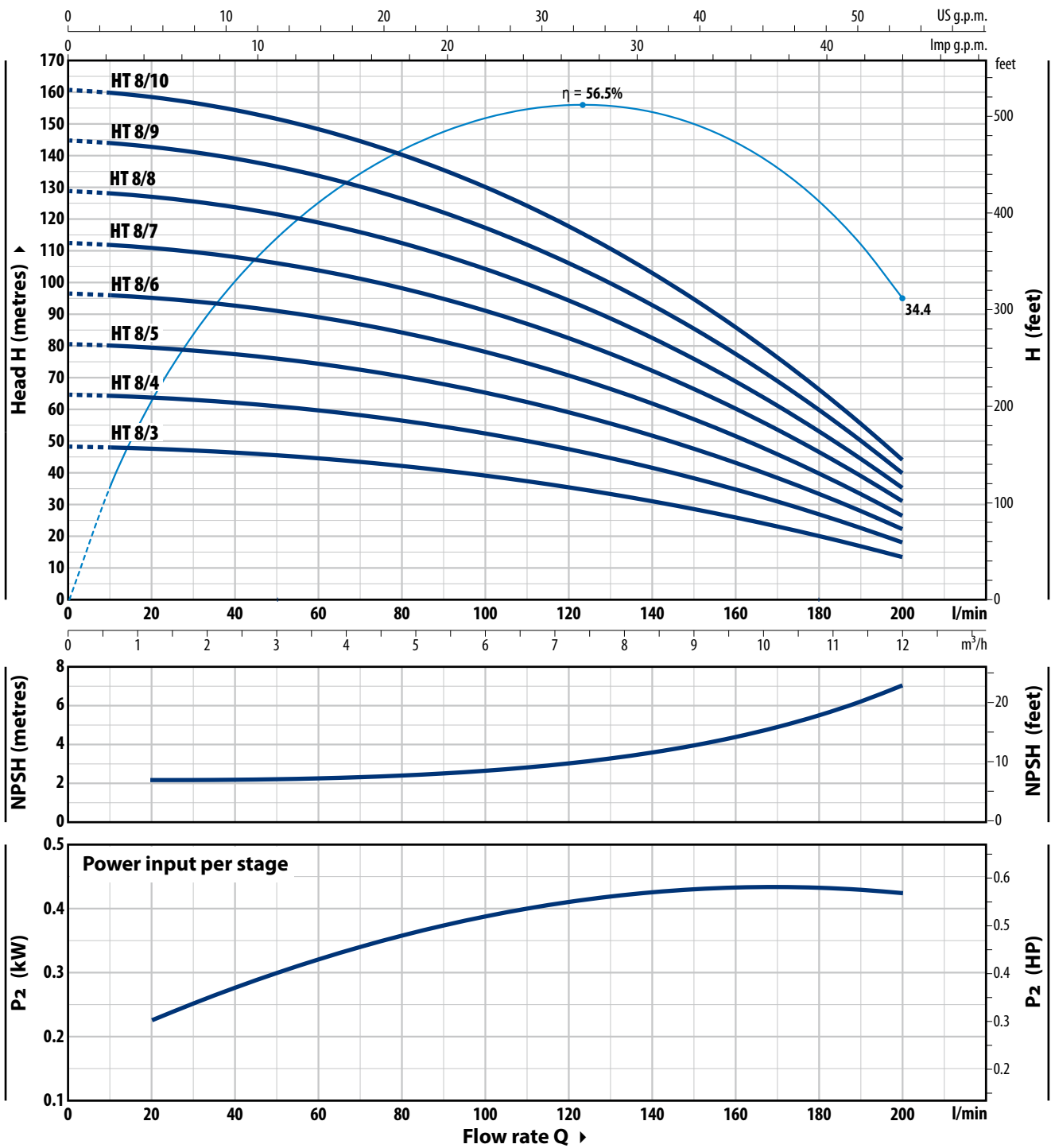
TYPE		POWER (P <sub>2</sub> )		3~	Q	H metres													
Single-phase	Three-phase	kW	HP			0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6	7.8				
					0	5	10	20	40	60	80	90	100	130					
HTm 5/2	HT 5/2	0.75	1	IE3	36	35.5	35.5	34.5	33	31	28.5	27	25.3	19					
HTm 5/3	HT 5/3	1.1	1.5		54	53.5	53	51.5	49	46.5	42.5	40.5	38	28.5					
HTm 5/4	HT 5/4	1.5	2		72	71	71	69	65.5	61.5	57	54	50.5	38					
HTm 5/5	HT 5/5	1.8	2.5		90	89	88	86	82	77	71	67.5	63.5	47.5					
HTm 5/6	HT 5/6	2.2	3		108	107	106	103	98	93	85	81	76	57					
-	HT 5/7	3	4		126	125	124	121	115	108	99	94	89	66.5					
-	HT 5/8	3	4		144	143	141	138	131	123	114	108	101	76					
-	HT 5/9	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 (P <sub>2</sub> )		3~	Q	Flow rate											
Single-phase	Three-phase	kW	HP			m³/h	0	1.2	2.4	3.6	6.0	8.4	10.8	12.0			
					0	20	40	60	100	140	180	200					
HTm 8/3	HT 8/3	1.1	1.5	IE3	H metres	48.5	48	46.5	45	39.5	31	20.1	13.5				
HTm 8/4	HT 8/4	1.5	2			64.5	64	62	59.5	52.5	41.5	26.8	18				
HTm 8/5	HT 8/5	1.8	2.5			81	80	78	75	65.5	52	33.5	22.5				
HTm 8/6	HT 8/6	2.2	3			97	95	93	89	78	62	40	27				
-	HT 8/7	3	4			113	111	108	104	91	72	47	31.5				
-	HT 8/8	4	5.5			129	127	124	119	104	83	53.5	35.5				
-	HT 8/9	4	5.5			145	143	139	134	117	93	60	40				
-	HT 8/10	5.5	7.5			161	159	155	149	131	103	67	44.5				

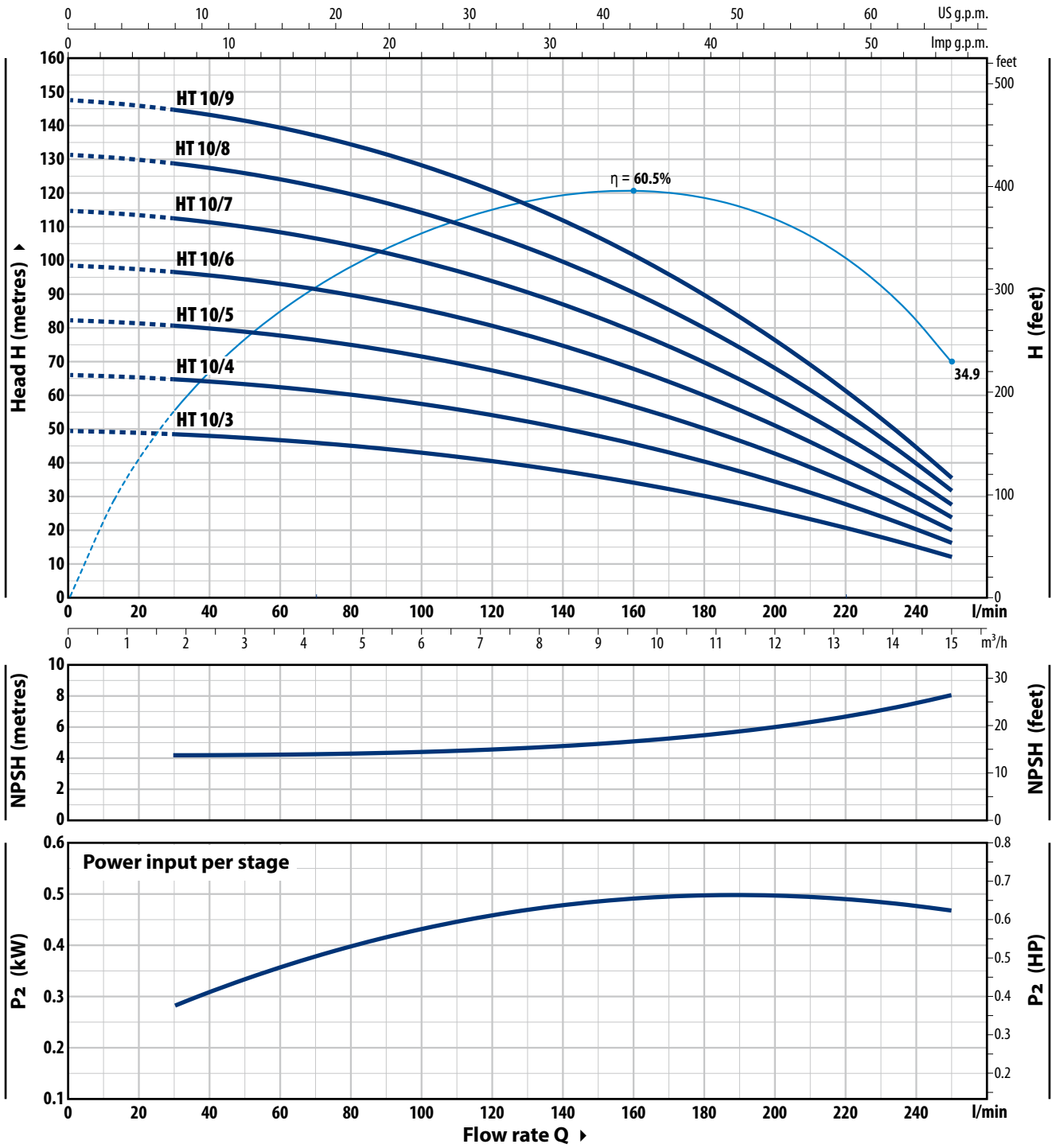
Q = Flow rate H = Total manometric head HS = Suction height

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

# HT 10

## CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



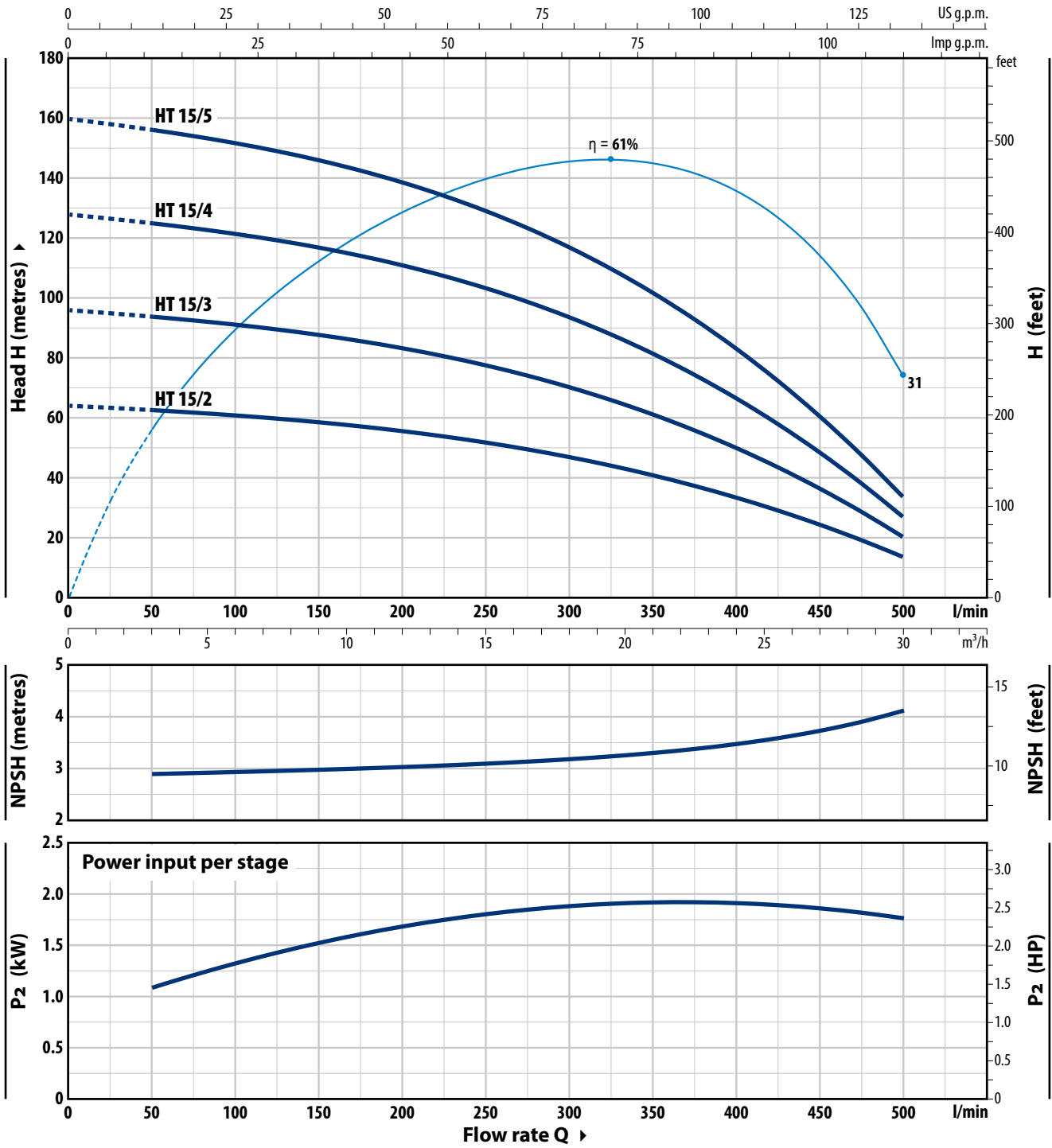
TYPE		POWER (P <sub>2</sub> )		3~	Q	Flow rate														
Single-phase	Three-phase	kW	HP			m³/h	0	1.8	3	4.2	5.4	6.6	7.8	9	10.8	13.2	15			
					l/min	0	30	50	70	90	110	130	150	180	220	250				
HTm 10/3	HT 10/3	1.5	2	IE3	H metres	49.5	48.5	47.5	46	44	42	39	36	30	20.6	12				
HTm 10/4	HT 10/4	1.8	2.5			66	64.5	63	61.5	59	55.5	52	48	40	27.5	16				
HTm 10/5	HT 10/5	2.2	3			82	81	79	77	73	69.5	65	59.5	50	34.5	20				
-	HT 10/6	3	4			99	97	94	92	88	83	78	71	60	41	24				
-	HT 10/7	3	4			115	113	110	107	102	97	91	83	70	48	28				
-	HT 10/8	4	5.5			131	129	126	122	117	111	104	95	80	54.5	32				
-	HT 10/9	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 (P <sub>2</sub> )		3~	Q	Flow rate (l/min)						
	kW	HP			0	50	100	200	300	400	500
HT 15/2	4	5.5	IE3	H metres	64	62.5	60.5	55.5	47	33	13.5
HT 15/3	5.5	7.5			96	94	91	83	70	50	20
HT 15/4	7.5	10			128	125	121	111	94	66.5	27
HT 15/5	9.2	12.5			160	156	152	139	117	83	33.5

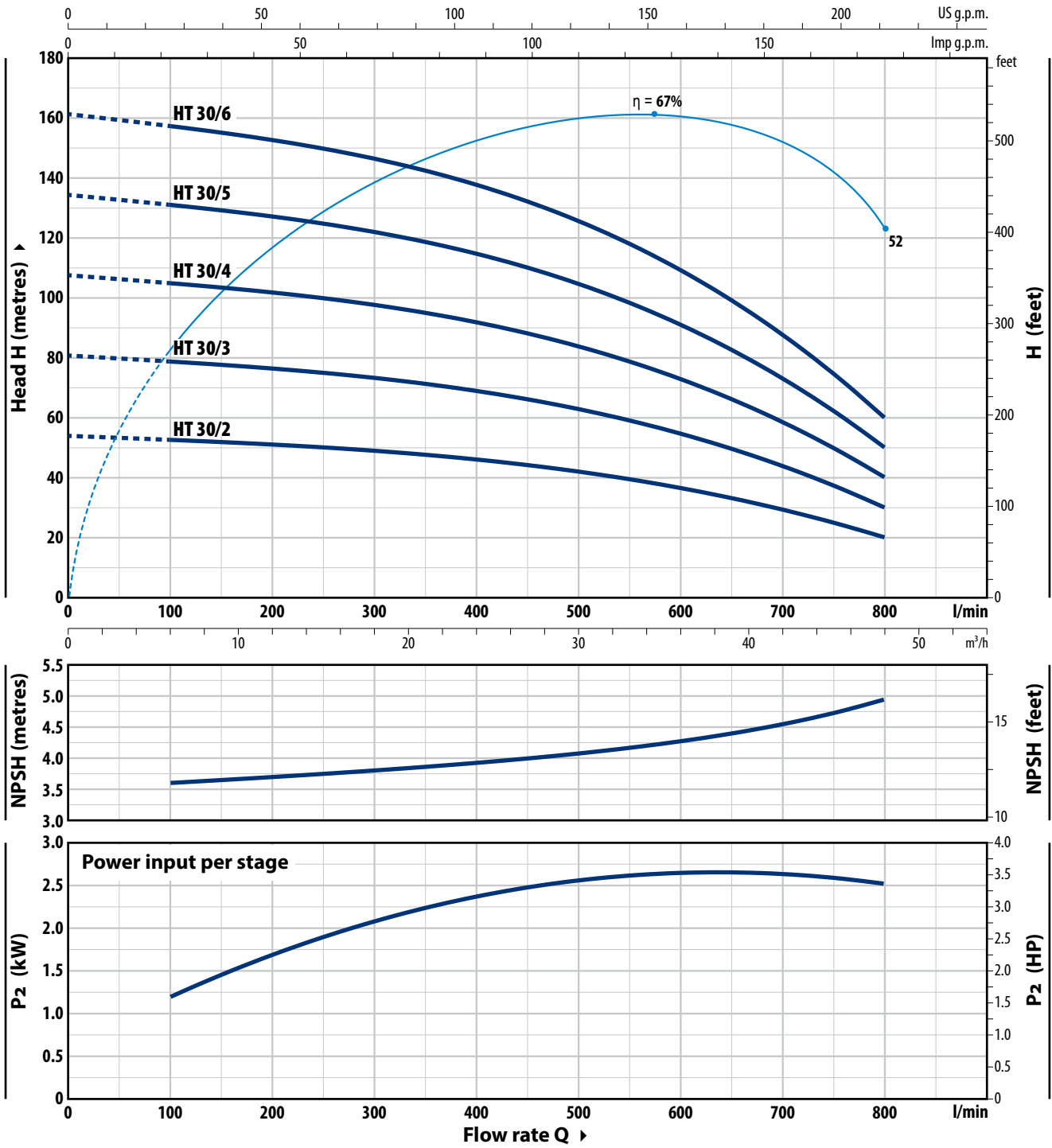
Q = Flow rate H = Total manometric head HS = Suction height

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

# HT 30

## CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE	POWER (P <sub>2</sub> )		3~	Q	Flow rate												
	kW	HP			m <sup>3</sup> /h	0	6	12	18	24	30	36	48				
Three-phase					0	100	200	300	400	500	600	800					
HT 30/2	5.5	7.5	IE3	H metres	54	52.5	51	49	46	42	36.5	20					
HT 30/3	7.5	10			81	79	76	73	69	63	54.5	30					
HT 30/4	11	15			108	105	102	98	92	84	73	40					
HT 30/5	15	20			134	131	127	122	115	105	91	50					
HT 30/6	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	
	220 V	
Single-ph.		
HTm 3/4	7.5 A	
HTm 3/5	9.5 A	
HTm 3/6	10.5 A	
HTm 3/7	13.0 A	
HTm 5/2	5.5 A	
HTm 5/3	7.5 A	
HTm 5/4	10.0 A	
HTm 5/5	11.8 A	
HTm 5/6	13.5 A	
HTm 8/3	8.0 A	
HTm 8/4	10.5 A	
HTm 8/5	12.5 A	
HTm 8/6	15.2 A	
HTm 10/3	14.0 A	
HTm 10/4	n.a.	
HTm 10/5	n.a.	

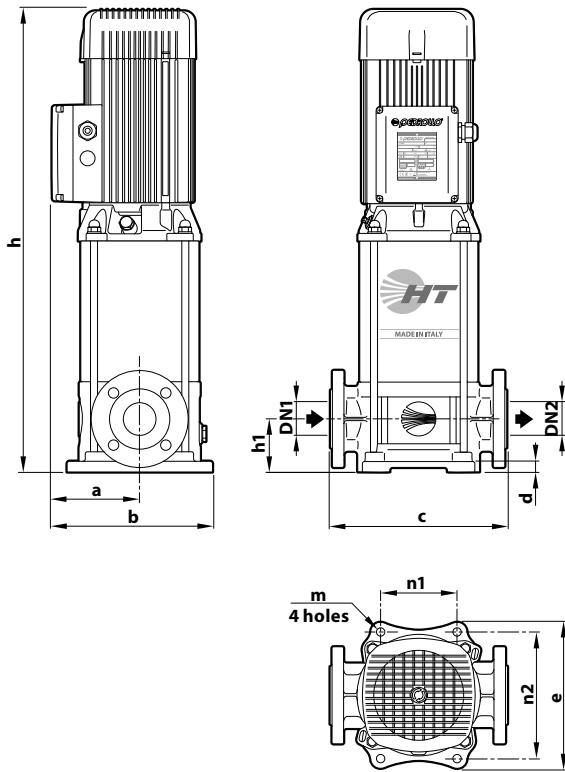
TYPE	VOLTAGE			
	Three-phase	220 V - Δ	380 V - ʘ	220 V - Δ
HT 3/4	6.1 A	3.5 A	5.2 A	3.0 A
HT 3/5	6.9 A	4.0 A	6.0 A	3.5 A
HT 3/6	7.6 A	4.4 A	6.6 A	3.8 A
HT 3/7	9.0 A	5.2 A	7.9 A	4.6 A
HT 3/8	n.a.	n.a.	n.a.	n.a.
HT 3/9	n.a.	n.a.	n.a.	n.a.
HT 3/10	n.a.	n.a.	n.a.	n.a.
HT 5/2	5.7 A	3.3 A	4.9 A	2.9 A
HT 5/3	6.6 A	3.8 A	5.7 A	3.3 A
HT 5/4	6.9 A	4.0 A	6.4 A	3.7 A
HT 5/5	9.2 A	5.3 A	7.9 A	4.6 A
HT 5/6	10.0 A	5.8 A	8.7 A	5.0 A
HT 5/7	n.a.	n.a.	n.a.	n.a.
HT 5/8	n.a.	n.a.	n.a.	n.a.
HT 5/9	n.a.	n.a.	n.a.	n.a.
HT 8/3	6.6 A	3.8 A	5.7 A	3.3 A
HT 8/4	7.8 A	4.5 A	6.7 A	3.9 A
HT 8/5	9.5 A	5.5 A	8.2 A	4.8 A
HT 8/6	9.5 A	5.5 A	9.0 A	5.2 A
HT 8/7	n.a.	n.a.	n.a.	n.a.
HT 8/8	n.a.	n.a.	n.a.	n.a.
HT 8/9	n.a.	n.a.	n.a.	n.a.
HT 8/10	n.a.	n.a.	n.a.	n.a.
HT 10/3	n.a.	n.a.	n.a.	n.a.
HT 10/4	n.a.	n.a.	n.a.	n.a.
HT 10/5	n.a.	n.a.	n.a.	n.a.
HT 10/6	n.a.	n.a.	n.a.	n.a.
HT 10/7	n.a.	n.a.	n.a.	n.a.
HT 10/8	n.a.	n.a.	n.a.	n.a.
HT 10/9	n.a.	n.a.	16.5 A	10.5 A
HT 15/2	19.0 A	11.0 A	16.0 A	10.5 A
HT 15/3	24.2 A	14.0 A	21.0 A	13.2 A
HT 15/4	31.0 A	18.0 A	28.0 A	17.5 A
HT 15/5	34.5 A	20.0 A	34.0 A	20.0 A
HT 30/2	23.7 A	13.7 A	20.9 A	13.0 A
HT 30/3	31.5 A	18.2 A	29.0 A	18.5 A
HT 30/4	37.2 A	21.5 A	32.8 A	20.5 A
HT 30/5	45.5 A	26.3 A	42.5 A	23.5 A
HT 30/6	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	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	6
-	HT 3/9	6
-	HT 3/10	6
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	6
-	HT 5/8	6
-	HT 5/9	6
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	6
-	HT 8/8	6
-	HT 8/9	6
-	HT 8/10	6
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	6
-	HT 10/8	6
-	HT 10/9	6
-	HT 15/2	6
-	HT 15/3	6
-	HT 15/4	6
-	HT 15/5	6
-	HT 30/2	6
-	HT 30/3	6
-	HT 30/4	6
-	HT 30/5	2
-	HT 30/6	2

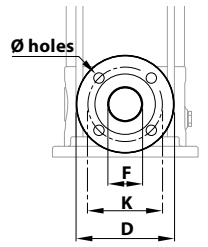


## DIMENSIONS AND WEIGHT



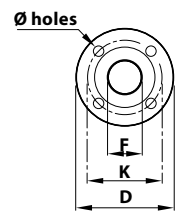
## FLANGE

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



## COUNTER-FLANGE

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



TYPE		PORTS		N° STAGES	DIMENSIONS mm										kg																	
Single-ph.	Three-ph.	DN1	DN2		a	b	c	d	e	h	h1	n1	n2	m	1~	3~																
HTm 3/4	HT 3/4	1"	1"	4	126	231	250			509	75				33.5	33.5																
HTm 3/5	HT 3/5			5													33.7	33.7														
HTm 3/6	HT 3/6			6													35.0	35.0														
HTm 3/7	HT 3/7			7													39.9	39.9														
-	HT 3/8			8													-	47.2														
-	HT 3/9			9													-	48.2														
-	HT 3/10			10													-	49.1														
HTm 5/2	HT 5/2			1¼"													1¼"	2	126	231	250			457	75				33.0	33.0		
HTm 5/3	HT 5/3																	3													33.2	33.2
HTm 5/4	HT 5/4																	4													35.2	35.2
HTm 5/5	HT 5/5	5	37.5		37.5																											
HTm 5/6	HT 5/6	6	38.5		38.5																											
-	HT 5/7	7	-		47.3																											
-	HT 5/8	8	-		48.3																											
-	HT 5/9	9	-		52.5																											
HTm 8/3	HT 8/3	1½"	1½"		3	126	231	280	15	210	488	80	100	180	Ø 13	34.6		34.6														
HTm 8/4	HT 8/4				4																										36.6	36.6
HTm 8/5	HT 8/5			5	40.1												40.1															
HTm 8/6	HT 8/6			6	40.9												40.9															
-	HT 8/7			7	-												48.6															
-	HT 8/8			8	-												52.7															
-	HT 8/9			9	-												53.7															
-	HT 8/10			10	-												58.7															
HTm 10/3	HT 10/3			1½"	1½"												3		126	231	280			488	80				34.7	34.7		
HTm 10/4	HT 10/4																4														36.7	36.7
HTm 10/5	HT 10/5	5	40.2			40.2																										
-	HT 10/6	6	-			48.5																										
-	HT 10/7	7	-			48.7																										
-	HT 10/8	8	-			52.8																										
-	HT 10/9	9	-			53.8																										
-	HT 15/2	2	-			52.3																										
-	HT 15/3	3	-			69.8																										
-	HT 15/4	4	-			78.0																										
-	HT 15/5	5	-	116.0																												
-	HT 30/2	2½"	2½"	2	181	305	320	18	247	604	105	130	215	Ø 14	-	61.5																
-	HT 30/3			3													-	69.5														
-	HT 30/4			4													-	124.5														
-	HT 30/5			5													-	125.0														
-	HT 30/6			6													-	137.5														

## 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	<b>FN-18</b>	Ø 18 mm	Graphite / Ceramic / NBR
HT 15 - 30	<b>FN-KU-24</b>	Ø 24 mm	Graphite / Ceramic / NBR
	ISO 3069 EN 12756		

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

### 8 Electric motor

- **HTm**: single-phase 220 V - 60 Hz with capacitor and winding integrated thermal motor protection
- **HT**: 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**

