

-  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

### 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

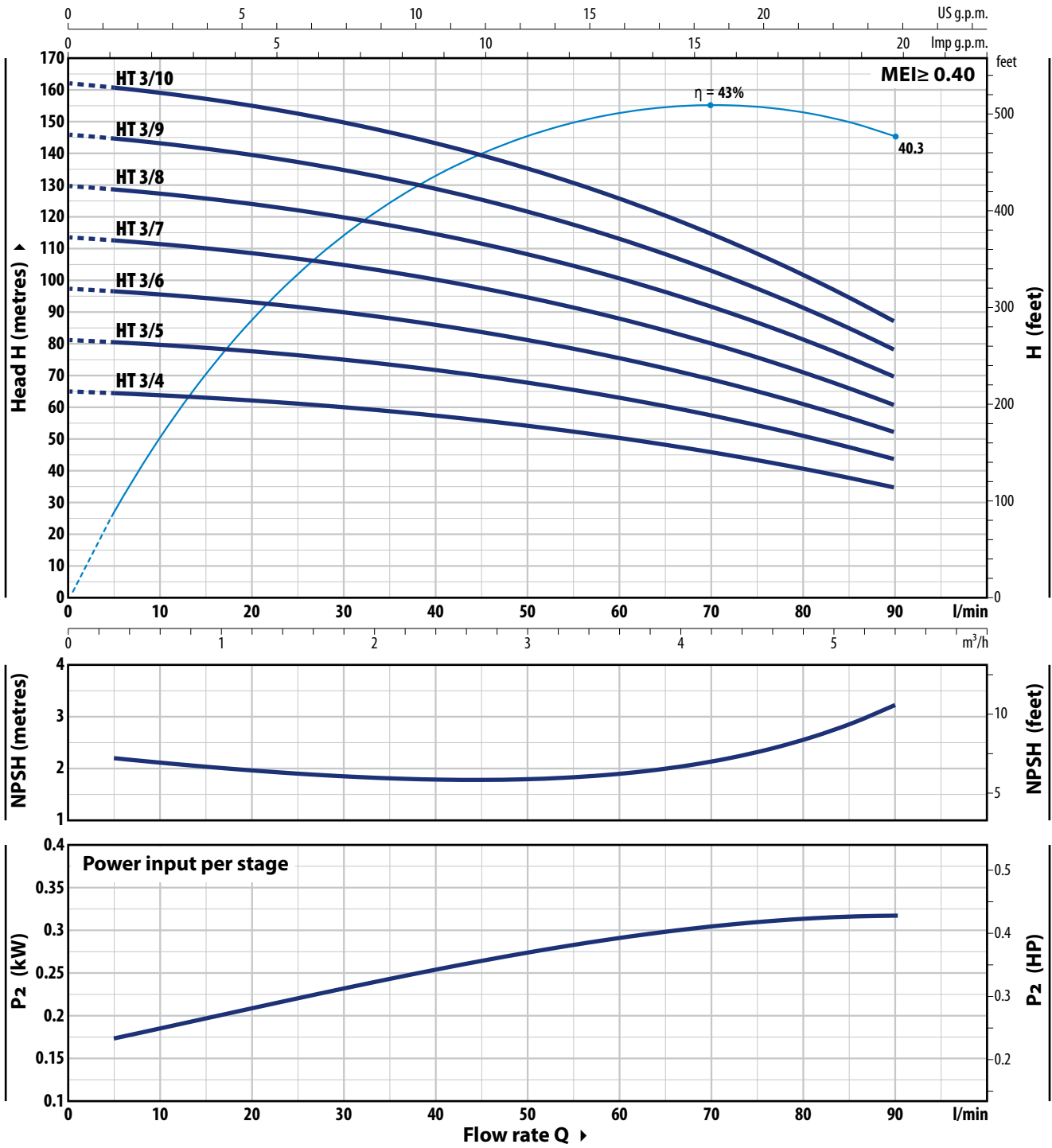
- Manometric suction head up to **7 m**
- Liquid temperature between **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **16 bar**

### 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 (P <sub>2</sub> )		1~3~	Q	m <sup>3</sup> /h									
Single-phase	Three-phase	kW	HP			0	0.3	0.6	1.2	2.4	3.6	4.8	5.4		
					l/min	0	5	10	20	40	60	80	90		
HTm 3/4	HT 3/4	0.75	1	IE2 IE3	H metres	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			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		

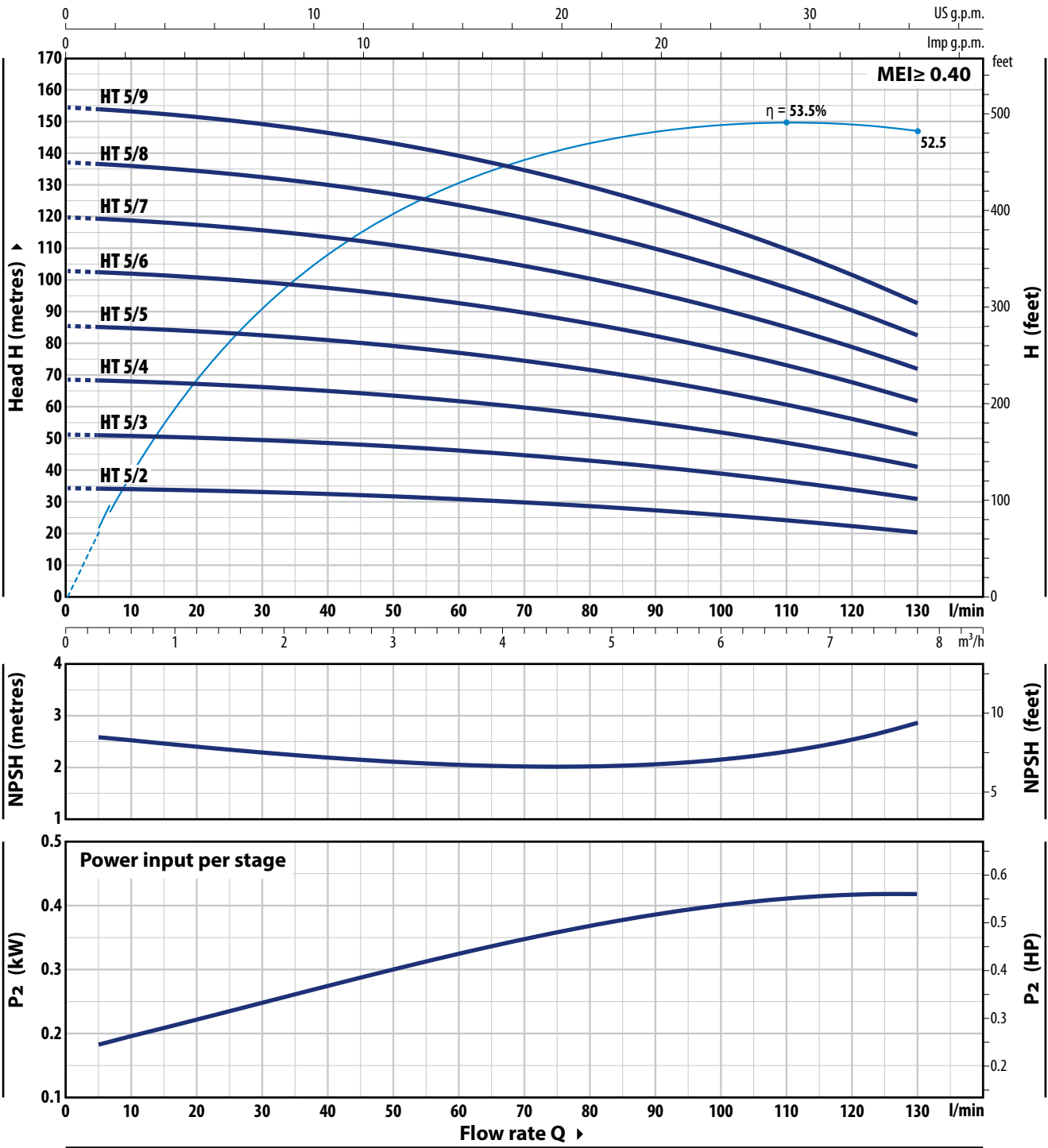
Q = Flow rate H = Total manometric head HS = Suction height

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

# HT 5

## CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



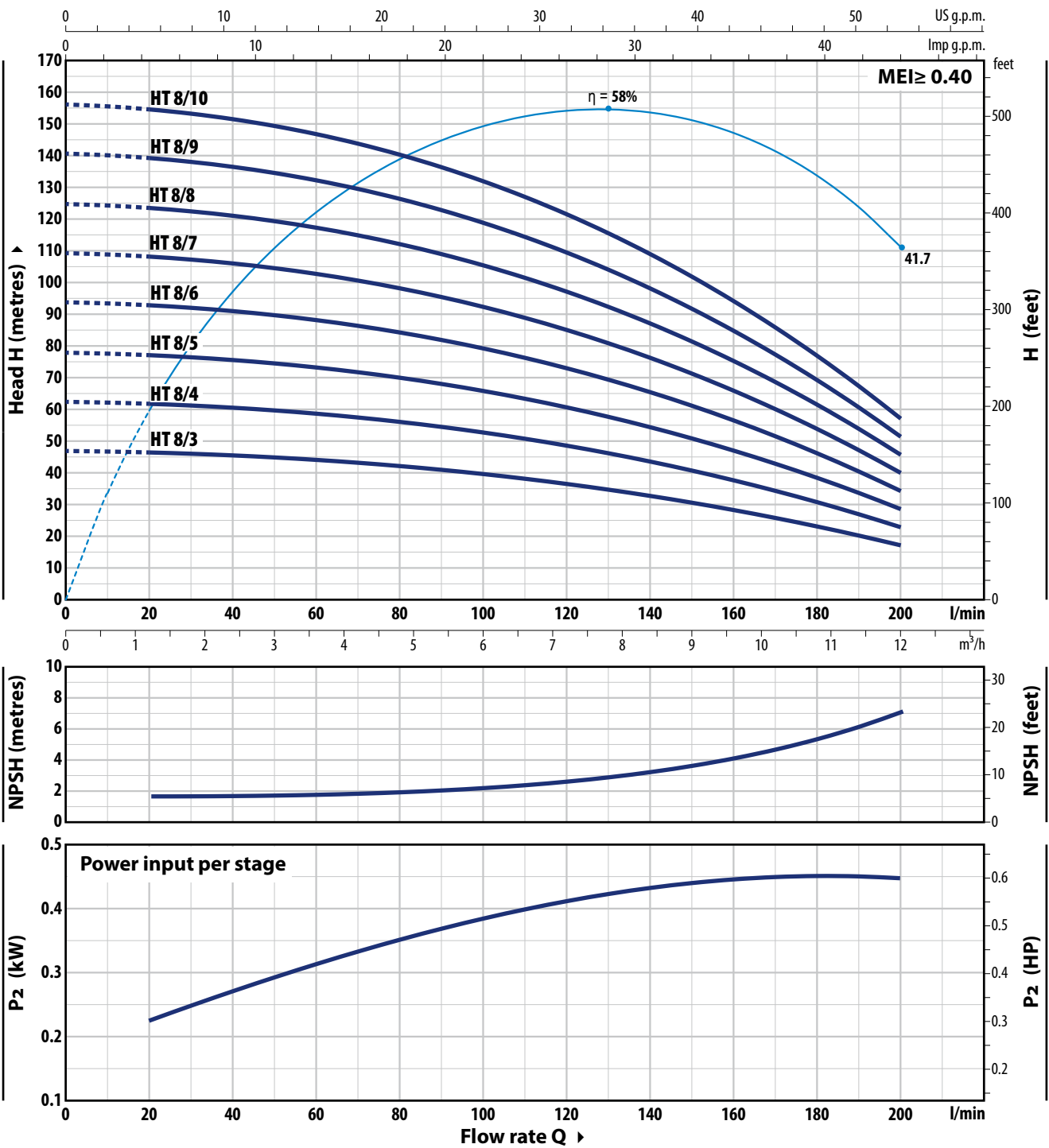
TYPE		POWER (P <sub>2</sub> )		1~3~	Q	Flow rate												
Single-phase	Three-phase	kW	HP			0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6	7.8			
						0	5	10	20	40	60	80	90	100	130			
HTm 5/2	HT 5/2	0.75	1	IE2 IE3	H metres	35	35	32.7	32.3	32.5	31	25.5	27.5	26	20.5			
HTm 5/3	HT 5/3	1.1	1.5			51.5	51.5	51	50.5	49	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			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.

## CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



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

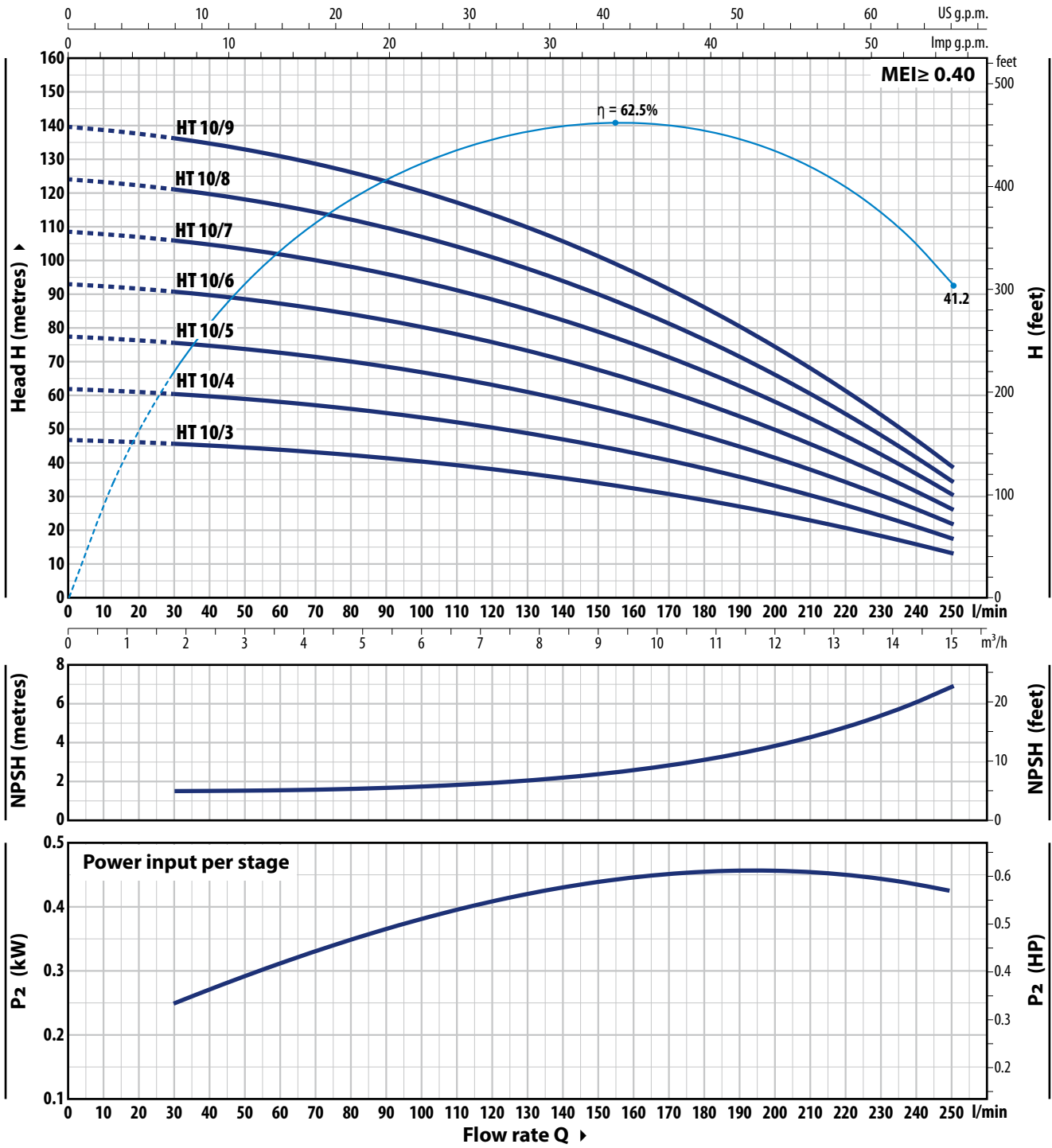
Q = Flow rate H = Total manometric head HS = Suction height

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

# HT 10

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



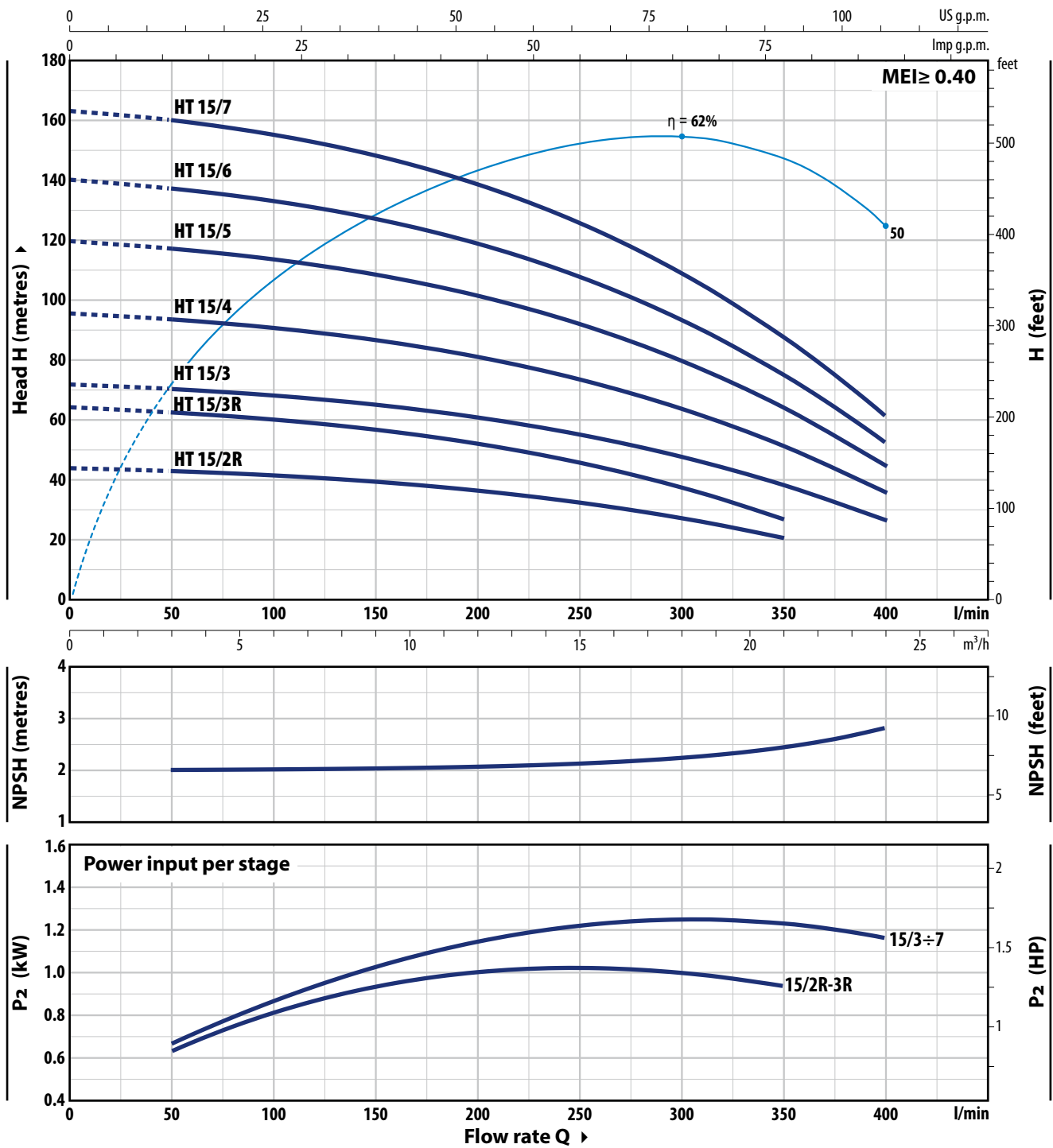
TYPE		POWER (P <sub>2</sub> )		1~3~	Q	Flow rate														
Single-phase	Three-phase	kW	HP			0	1.8	3	3.6	4.8	7.2	9	10.2	12	13.2	15				
HTm 10/3	HT 10/3	1.5	2	IE2 IE3	H metres	0	30	50	60	80	120	150	170	200	220	250				
								47	45.5	44	43.5	42	38	33.5	30.5	24.7	20.3	13		
								62	61	59	58	56	50.5	45	40.5	33	27	18		
								77	75.5	74	73	70	63	56	50.5	41	34	21.5		
-	HT 10/6	3	4					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.

## CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P <sub>2</sub> )		3~	Q	Flow rate Q						
	kW	HP			0	3	6	12	18	21	24
Three-phase					0	50	100	200	300	350	400
HT 15/2R	2.2	3	IE3	H metres	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			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

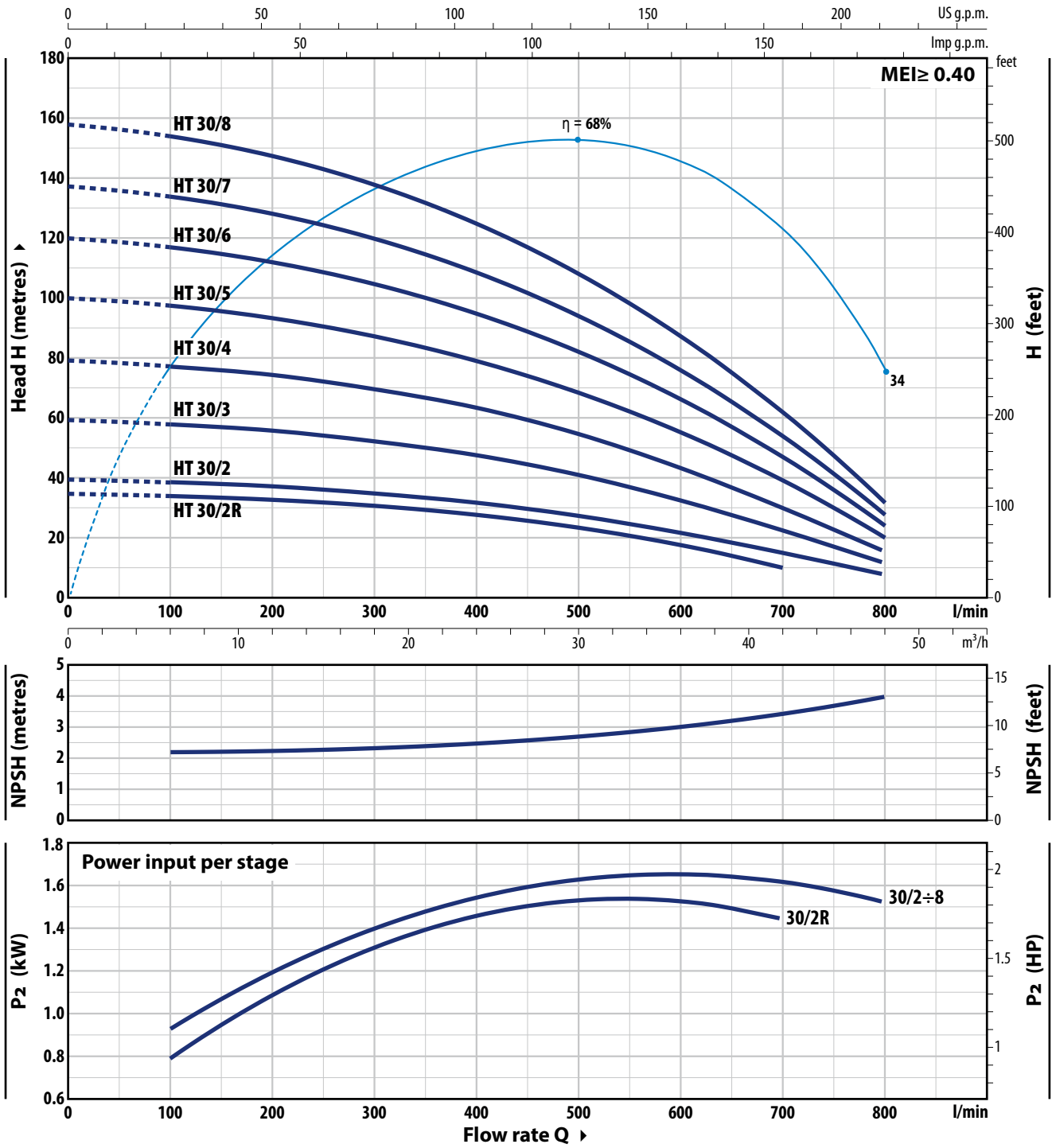
Q = Flow rate H = Total manometric head HS = Suction height

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

# HT 30

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE	POWER (P <sub>2</sub> )		3~	Q	Flow rate Q												
	kW	HP			m³/h	0	6	12	18	24	36	42	48				
Three-phase					0	100	200	300	400	600	700	800					
HT 30/2R	3	4	IE3	H metres	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			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
<b>Single-ph.</b>	<b>230 V</b>
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

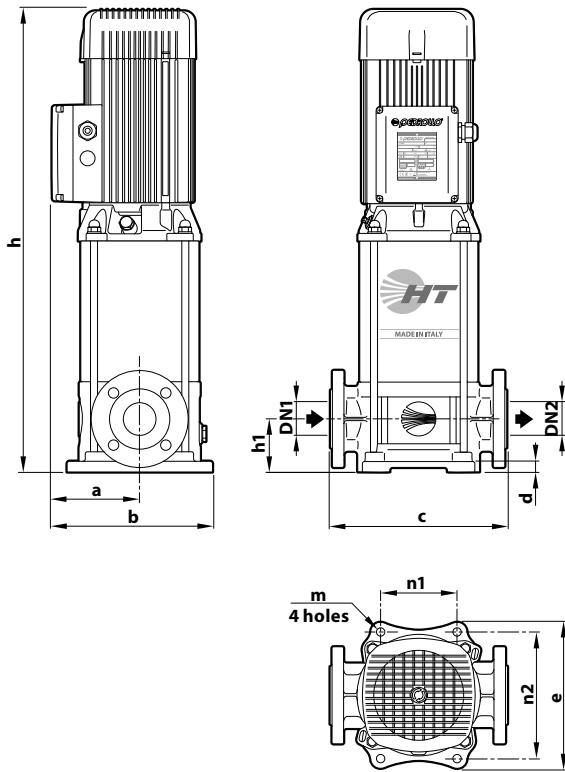
TYPE	VOLTAGE			
	230 V - Δ	400 V - ㄩ	400 V - Δ	690 V - ㄩ
HT 3/4	5.2 A	3.0 A	-	-
HT 3/5	6.1 A	3.5 A	-	-
HT 3/6	6.9 A	4.0 A	-	-
HT 3/7	8.3 A	4.8 A	-	-
HT 3/8	11.2 A	6.5 A	-	-
HT 3/9	11.8 A	6.8 A	-	-
HT 3/10	12.1 A	7.0 A	-	-
HT 5/2	4.9 A	2.8 A	-	-
HT 5/3	5.5 A	3.2 A	-	-
HT 5/4	6.6 A	3.8 A	-	-
HT 5/5	8.3 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
HTm 3/8	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

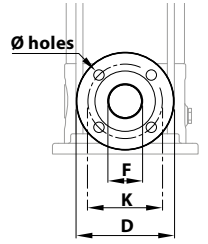


## DIMENSIONS AND WEIGHT



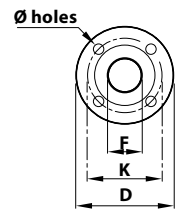
## FLANGE

TYPE	DN 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	15	210	75	100	180	Ø 13	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			2										1¼"	1¼"	126	231	250	15	210	75	100	180	Ø 13	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	3	1½"	1½"	126	231	280	15	210	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	3												1½"	1½"	126	231	280	15	210	80	100	180	Ø 13	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 15/2R	2	2"	2"	151	275	300	18	247	90	130	215	Ø 14												-	53.0
-	HT 15/3R	3																							-	53.5
-	HT 15/3	3																							-	58.0
-	HT 15/4	4												-	64.0											
-	HT 15/5	5												-	72.0											
-	HT 15/6	6												-	116.5											
-	HT 15/7	7												-	117.0											
HTm 30/2R	HT 30/2R	2												2½"	2½"	151	275	320	18	247	105	130	215	Ø 14	-	55.0
HTm 30/2	HT 30/2	2																							-	58.0
HTm 30/3	HT 30/3	3																							-	63.0
HTm 30/4	HT 30/4	4	-	71.5																						
HTm 30/5	HT 30/5	5	-	125.0																						
HTm 30/6	HT 30/6	6	-	125.5																						
HTm 30/7	HT 30/7	7	-	138.0																						
HTm 30/8	HT 30/8	8	-	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	<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 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**

