



catalogue

Edition 03-09/2025

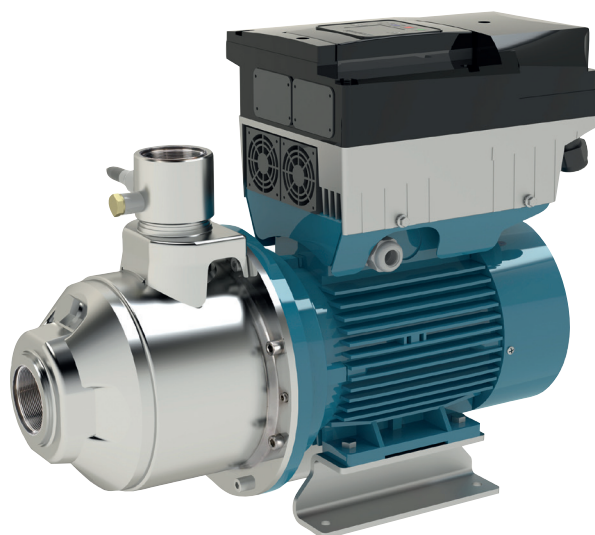
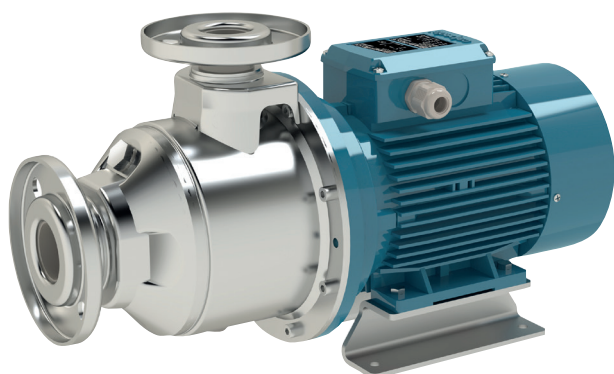


天保發展國際有限公司
Tin Po Development International Limited

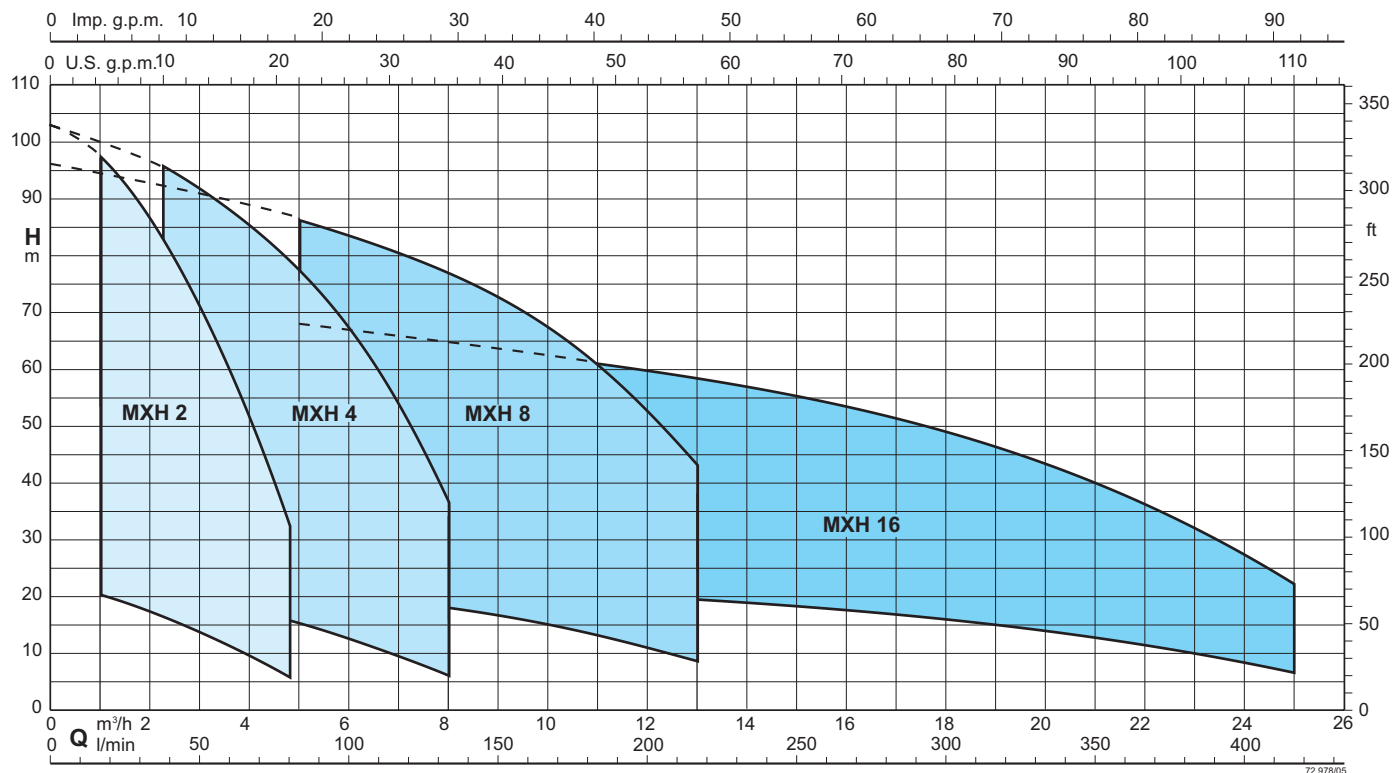
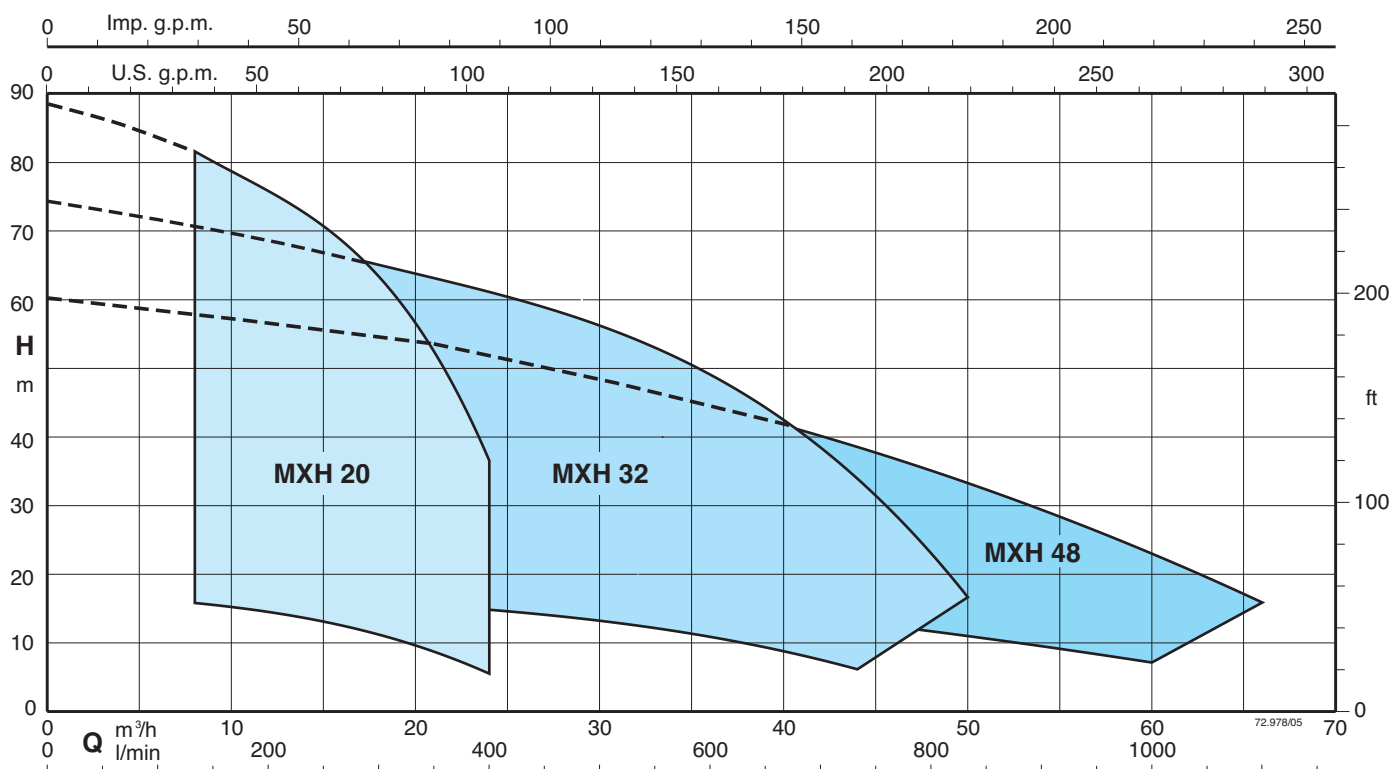
we connect
water
to people



water passion



Horizontal multi-stage close coupled
stainless steel pumps

Coverage chart $n \approx 2900$ rpmCoverage chart $n \approx 2900$ rpm



Construction

One-piece horizontal multi-stage pumps made of AISI 304 chrome-nickel stainless steel, AISI 316L steel for MXHL 2, 4, 8.

Compact and robust construction, with compact lantern bracket and motor with feet.

Single-piece barrel casing, with front suction port above pumps axis and radial delivery at top.

Version with frequency converter (on request)

Applications

For water supply systems.

For clean liquids, without abrasives, which are non-aggressive for stainless steel (with suitable seal materials, on request).

Universal pump, for domestic use, for civil and industrial applications, for garden use and irrigation.

Operating conditions

Liquid temperature: from -15°C to +110°C.

Ambient temperature up to 40° C.

Maximum permissible pressure in the pump casing: 10 bar, 8 bar for MXH 16.

Continuous duty (S3 60% for single-phase pump to 1,5-1,8 kW).

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

MXH: three-phase 230/400 V $\pm 10\%$ up to 3 kW;

400/690 V $\pm 10\%$, from 3.7 to 7.5 kW;

MXHM single-phase single-phase 230 V $\pm 10\%$, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Motor suitable for operation with frequency converter from 1,1 kW.

IE2 efficiency class for single-phase motors up to 1,1 kW.

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

Constructed in accordance with EN 60034-1; EN 60034-30-1.

EN 60335-1, EN 60335-2-41.

Special features on request

Pumps with ports with Victaulic couplings (-V) for MXH versions 32, 40.

Pumps with flanged ports (-F) for MXH versions 20, 32, 40.

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

Protection IP 55.

Special mechanical seal

Pump casing seal rings in FPM.

Higher or lower liquid or ambient temperatures.

Motor suitable for operation with frequency converter up to 0,75 kW.

Designation

Example: MXH(L) (-V, -F) EI 206/B

MXH = Series

L = Version in 1.4404 EN 10088 (AISI 316L) for MXH 2, 4, 8

(-V) = Version with Victaulic couplings for MXH 32, 40

(-F) = Version with flanged ports for MXH 20, 32, 40

EI = With frequency converter I-MAT

2 = Rated flow in m³/h

06 = Number of impellers

/B = It refers to a revision

Materials

Components	MXH	MXHL (2,4,8)
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Stage casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Wear ring	PPS	PPS
Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Spacer sleeve	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Pump shaft	Steel 1.4305 EN 10088 (AISI 303) for MXH 2, 4, 8, 16 Stainless Steel 1.4401 EN 10088 (AISI 316) for MXH 20, 32, 48	Stainless Steel 1.4404 EN 10088 (AISI 316L) -
Plug	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Mechanical seal with seat according to ISO 3069	Ceramic alumina/Carbon/EPDM	Ceramic alumina/Carbon/EPDM

El: Pumps with frequency converter

MXH El pumps are available with power ratings ranging from 0.55 kW to 7.5 kW and are equipped with integrated I-MAT inverters.

This design enables the creation of a highly compact and efficient variable-speed system, making them ideal for water supply applications and the distribution of hot and cold water.

The pump is fitted with transducers optimized for operation and is pre-programmed at the factory for seamless performance.

Features

- Energy saving
- Compact design
- Easy to use
- Programmable to suit the system requirements
- Reliability

Construction

- The system consists of:
- Pump
- Induction motor
- I-MAT Frequency converter
- Motor adapter for the motor mounting of the frequency converter
- Connection cable between frequency converter and induction motor
- Transducers

Main features

Motor nominal power from 0.55 kW to 7.5 kW.

Control range from 1750 rpm (4-pole) to 2900 rpm (2-pole)

Protection against dry running

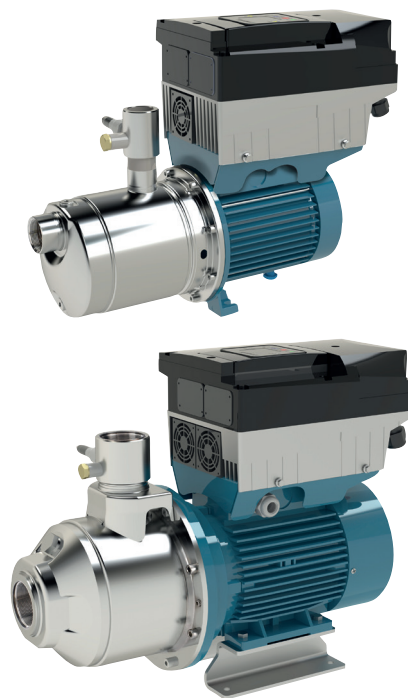
Protection against operations with closed valve ports

Protection against system leakages

Protection against overcurrent in the motor

Protection against overvoltage and undervoltage of the power supply

Protection against current unbalances between phases



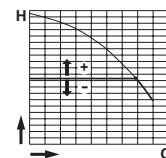
Operating modes



Constant pressure mode

with pressure transducer

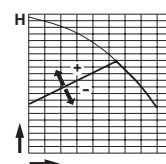
In this mode, the system maintains the preset pressure when the flow required by the installation changes.



Proportional pressure mode

with pressure transducer

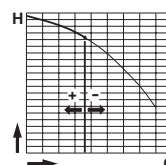
In this mode the system changes the working pressure according to the required flow rate.



Constant flow mode

with flow meter

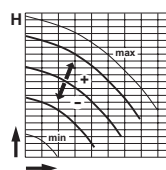
In this mode the system maintains a constant flow rate value in a point of the installation according to the required pressure.



Fixed speed mode

with setting of the speed preferential rotation.

In this mode, by changing the working frequency, you may choose any operational curve included within the working range.



Constant temperature mode

with temperature transducer

In this mode the system keeps the temperature constant inside a system by changing the speed of the pump.



Coverage chart n ≈ 2900 rpm

Data also valid for MXHL (in AISI 316L stainless steel)

Three-phase

						Q = Flow												
						m³/h	0	1	1,5	2	2,5	3	3,5	4	4,25	4,8		
Model	230V	400V	P2		l/min	16,6		25	33,3	41,6	50	58,3	66,6	70,8	80			
	A		kW	HP		H (m) = Total head												
MXHL	MXH 202/A		1,7	1	0,25	0,34			22	20	18,5	17	15,3	13,4	11,4	9,3	8,2	5,6
MXHL	MXH 203/A		2,4	1,4	0,37	0,5			33	31	29	27	24,5	21,7	18,6	15,5	13,8	9
MXHL	MXH 204/B		2,8	1,6	0,55	0,75		45	42,5	40,4	37,5	34,5	30,8	26,7	22,4	20,1	14,8	
MXHL	MXH 205/C		3,5	2	0,75	1		57	53,5	50,5	47,5	43,5	39	34	28,5	25,8	19	
MXHL	MXH 206/D		4,6	2,7	1,1	1,5		68,5	65	61,5	58	53,5	48	43	36,5	33,5	25	
MXHL	MXH 207		4,6	2,7	1,1	1,5		80	75,3	71,3	66,5	60,8	54,5	47,5	39,6	35,2	24,7	
MXHL	MXH 208		6,2	3,6	1,5	2		92,5	84,9	80,6	75	68,8	62	54,3	45,1	39,8	27,2	
MXHL	MXH 209		6,2	3,6	1,5	2		103	97,1	92,3	86,2	78,9	70,7	61,4	51,1	45,6	32,3	

Single-phase

						Q = Flow										
						m³/h	0	1	1,5	2	2,5	3	3,5	4	4,25	4,8
Model	230V	P2		P1	l/min	16,6		25	33,3	41,6	50	58,3	66,6	70,8	80	
	A	kW	HP	kW		H (m) = Total head										
MXHLM	MXHM 202/A	2,3	0,25	0,34	0,42		22	20	18,5	17	15,3	13,4	11,4	9,3	8,2	5,6
MXHLM	MXHM 203/A	3	0,37	0,5	0,57		33	31	29	27	24,5	21,7	18,6	15,5	13,8	9
MXHLM	MXHM 204/B	4,5	0,55	0,75	0,78		45	42,5	40,4	37,5	34,5	30,8	26,7	22,4	20,1	14,8
MXHLM	MXHM 205/B	5,7	0,75	1	1,01		57	53,5	50,5	47,5	43,5	39	34	28,5	25,8	19
MXHLM	MXHM 206/A	7,4	1,1	1,5	1,44		68,5	65	61,5	58	53,5	48	43	36,5	33,5	25
MXHLM	MXHM 207	7,4	1,1	1,5	1,5		80	75,3	71,3	66,5	60,8	54,5	47,5	39,6	35,2	24,7
MXHLM	MXHM 208	9,2	1,5	2	2		92,5	84,9	80,6	75	68,8	62	54,3	45,1	39,8	27,2
MXHLM	MXHM 209	9,2	1,5	2	2		103	97,1	92,3	86,2	78,9	70,7	61,4	51,1	45,6	32,3

Three-phase

Model						Q = Flow										
						m³/h	0	2,25	3	3,5	4	4,5	5	6	7	8
						l/min		37,5	50	58,3	66,6	75	83,3	100	117	133
		230V	400V	P2			H (m) = Total head									
		A		kW	HP											
MXHL	MXH 402/A	2,4	1,4	0,37	0,5		22,5	20	19	18,5	17,5	16	15	12,5	9,5	6
MXHL	MXH 403/B	2,8	1,6	0,55	0,75		33	30	29	27,5	26	24,5	23	19,5	15	9,5
MXHL	MXH 404/C	3,5	2	0,75	1		44,5	40,5	38	36,5	35	33	31	26	20	12,5
MXHL	MXH 405/D	4,6	2,7	1,1	1,5		56,5	52	50	47,5	45,5	43	40	33,5	26	16,5
MXHL	MXH 406/B	6,2	3,6	1,5	2		68,5	63	60	58	56	53,5	51	44	35	23
MXHL	MXH 407	6,2	3,6	1,5	2		79	73	69,9	67,6	65,1	62,2	58,9	50,9	40,7	28,4
MXHL	MXH 408	8,3	4,8	1,8	2,5		91,5	84,8	81,3	78,6	75,7	72,4	68,6	59,5	47,6	32,7
MXHL	MXH 409	9,2	5,3	2,2	3		103,5	95,6	91,5	88,4	85,1	81,3	77,2	67	53,6	36,5

Single-phase

Model						Q = Flow										
						m³/h l/min	0	2,25	3	3,5	4	4,5	5	6	7	8
								37,5	50	58,3	66,6	75	83,3	100	117	133
		230V	P2		P1	H (m) = Total head										
		A	kW	HP	kW											
MXHLM	MXHM 402/A	3	0,37	0,5	0,57		22,5	20	19	18,5	17,5	16	15	12,5	9,5	6
MXHLM	MXHM 403/B	4,5	0,55	0,75	0,78		33	30	29	27,5	26	24,5	23	19,5	15	9,5
MXHLM	MXHM 404/B	5,7	0,75	1	1,01		44,5	40,5	38	36,5	35	33	31	26	20	12,5
MXHLM	MXHM 405/A	7,4	1,1	1,5	1,44		56,5	52	50	47,5	45,5	43	40	33,5	26	16,5
MXHLM	MXHM 406/A	9,2	1,5	2	2		68,5	63	60	58	56	53,5	51	44	35	23
MXHLM	MXHM 407	9,2	1,5	2	2		79	73	69,9	67,6	65,1	62,2	58,9	50,9	40,7	28,4
MXHLM	MXHM 408	11,2	1,8	2,5	2,5		91,5	84,8	81,3	78,6	75,7	72,4	68,6	59,5	47,6	32,7

P1: Maximum power input.

P2: Rated motor power output.

Tolerances according to UNI EN ISO 9906:2012

A safety margin of + 0.5 m is recommended for the NPSH value.

Test results with clean cold water, without gas content.



Coverage chart n ≈ 2900 rpm

Three-phase

						Q = Flow										
						m³/h	0	5	6	7	8	9	10	11	12	13
Model		230V	400V	P2		l/min		83,3	100	117	133	150	167	183	200	217
		A		kW	HP	H (m) = Total head										
MXHL	MXH 802/C	3,5	2	0,75	1		22,5	20,5	20	19	18	16,5	15	13	11	8,5
MXHL	MXH 803/B	4,6	2,7	1,1	1,5		36	32	30,5	29	27,5	25,5	23	20	17	14
MXHL	MXH 804/B	6,2	3,6	1,5	2		48	42,5	41	39	37	34,5	32	28	24	19,5
MXHL	MXH 805/C	8,3	4,8	1,8	2,5		60	54	52	49,5	47	43,5	39,5	35	29,5	24
MXHL	MXH 806	9,2	5,3	2,2	3		71	63,1	60,7	58	55,1	51,7	47,5	42,3	35,8	28,1
MXHL	MXH 807	11,5	6,6	3	4		83,5	75,4	73	70,3	67,1	63,4	58,7	53	45,9	37,6
MXHL	MXH 808	11,5	6,6	3	4		95,5	86	83,3	80,3	76,7	72,5	67,2	60,6	52,4	43

Single-phase

Model						Q = Flow										
						m³/h	0	5	6	7	8	9	10	11	12	13
						l/min		83,3	100	117	133	150	167	183	200	217
						H (m) = Total head										
		230V	P2		P1											
		A	kW	HP	kW											
MXHLM	MXHM 802/B	5,7	0,75	1	1,01		22,5	20,5	20	19	18	16,5	15	13	11	8,5
MXHLM	MXHM 803/A	7,4	1,1	1,5	1,44		36	32	30,5	29	27,5	25,5	23	20	17	14
MXHLM	MXHM 804/A	9,2	1,5	2	2		48	42,5	41	39	37	34,5	32	28	24	19,5
MXHLM	MXHM 805/B	11,2	1,8	2,5	2,5		60	54	52	49,5	47	43,5	39,5	35	29,5	24

Three-phase

						Q = Flow										
						m³/h	0	5	8	11	14	16	18	20	22	25
Model	230V	400V	690V	P2		l/min		83,3	133	183	233	267	300	333	367	417
	A			kW	HP	H (m) = Total head										
MXH 1602/A	6,2	3,6	-	1,5	2		24	23	21,7	20,5	18,8	17,5	15,8	14	11,5	6,5
MXH 1603/B	8,3	4,8	-	1,8	2,5		36	34	31,8	29,5	26,8	24,8	22,4	19,2	15,3	8,8
MXH 1604/A	11,5	6,6	-	3	4		48	46,5	44,5	41,5	38	36	33	29	23	14
MXH 1605/B	-	9,6	5,5	4	5,5		60	57,5	55	51,5	48	45	42	37,5	31,5	19
MXH 1606/B	-	9,6	5,5	4	5,5		71	68	65	61	56	53	49	44	36	22

Single-phase

Model					Q = Flow														
					m³/h	0	5	8	11	14	16	18	20	22	25				
					l/min		83,3	133	183	233	267	300	333	367	417				
					H (m) = Total head														
					A	kW	HP	kW											
MXHM 1602					9,2	1,5	2	2		48	23	21,7	20,5	18,8	17,5	15,8	14	11,5	6,5
MXHM 1603					11,2	1,8	2,5	2,5		36	34	31,8	29,5	26,8	24,8	22,4	19,2	15,3	8,8

P1: Maximum power input.

P2: Rated motor power output.

Tolerances according to UNI EN ISO 9906:2012

A safety margin of + 0.5 m is recommended for the NPSH value.

Test results with clean cold water, without gas content.



Coverage chart n ≈ 2900 rpm

Three-phase

						Q = Flow											
						m³/h	0	8	10	12	14	16	18	20	22	24	
Model	230V	400V	690V	P2		l/min		133	167	200	233	267	300	333	367	400	
	A			kW	HP	H (m) = Total head											
MXH 2001/A	4,6	2,7	-	1,1	1,5		17,6	15,7	15,1	14,4	13,5	12,4	11,1	9,5	7,6	5,4	
MXH 2002/A	8,3	4,8	-	1,8	2,5		35,1	31,4	30,3	29,1	27,5	25,6	23,4	20,6	17,4	13,6	
MXH 2003	11,5	6,6	-	3	4		54	48,5	46,9	45,2	43,2	40,8	37,7	33,8	28,8	22,3	
MXH 2004/A	-	9,6	5,5	4	5,5		71,5	64,5	62,5	60,5	57,5	54,5	50	45	38	29	
MXH 2005	-	10,8	6,2	5,5	7,5		89	81,5	79	76	72,5	68	63	56,5	48,5	36	

Three-phase

						Q = Flow											
						m³/h	0	15	21	24	27	30	33	36	39	44	50
Model	230V	400V	690V	P2		l/min		250	350	400	450	500	550	600	650	733	833
	A			kW	HP	H (m) = Total head											
MXH 3201/B	9,2	5,3	-	2,2	3		18,4	16,3	15,3	14,8	14	13	12	10,8	9,3	6	-
MXH 3202/B	-	9,6	5,5	4	5,5		37	33	31	30	28,5	27	25	23	20,5	15	7,5
MXH 3203/A	-	10,8	6,2	5,5	7,5		55,5	50	47	45,5	43	40,5	38	35	31	23	10
MXH 3204/A	-	14,3	8,3	7,5	10		74,5	67	63	61	59	56	53	49	44	34	16,5

Three-phase

						Q = Flow											
						m³/h	0	21	27	33	39	45	48	51	54	60	66
Model	230V	400V	690V	P2		l/min			350	450	550	650	750	800	850	900	1000
	A			kW	HP	H (m) = Total head											
MXH 4801/A	11,5	6,6	-	3	4		20	18	17	16	14,5	12,5	11,5	10,5	9,5	7	-
MXH 4802/A	-	10,8	6,2	5,5	7,5		41	35,3	33	30,5	27,5	24,5	22,5	21	19	14	7,5
MXH 4803/A	-	14,3	8,3	7,5	10		60,5	53	50	46	42,5	38	35	32,5	29	22,5	16

P1: Maximum power input.

P2: Rated motor power output.

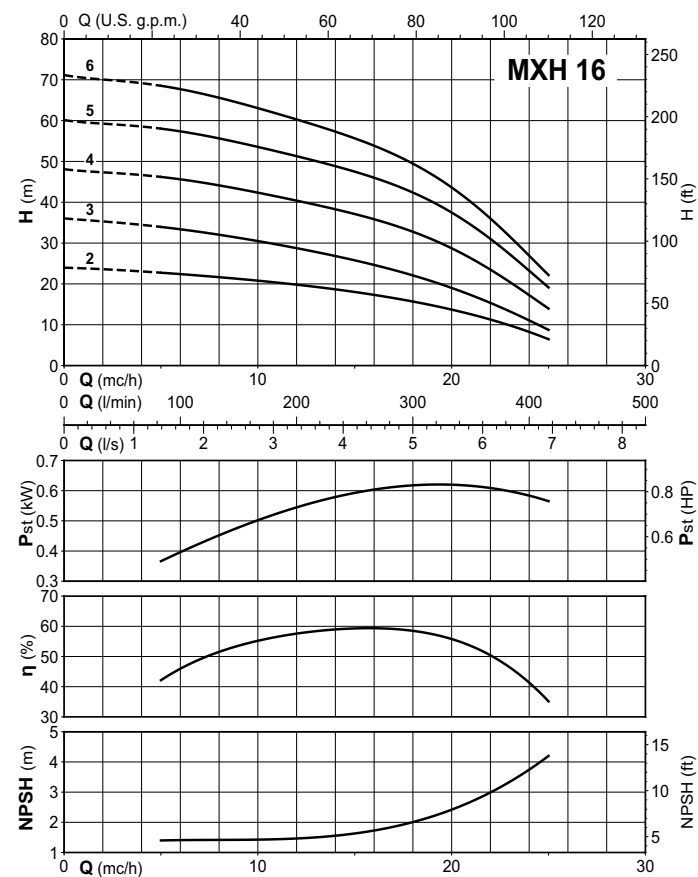
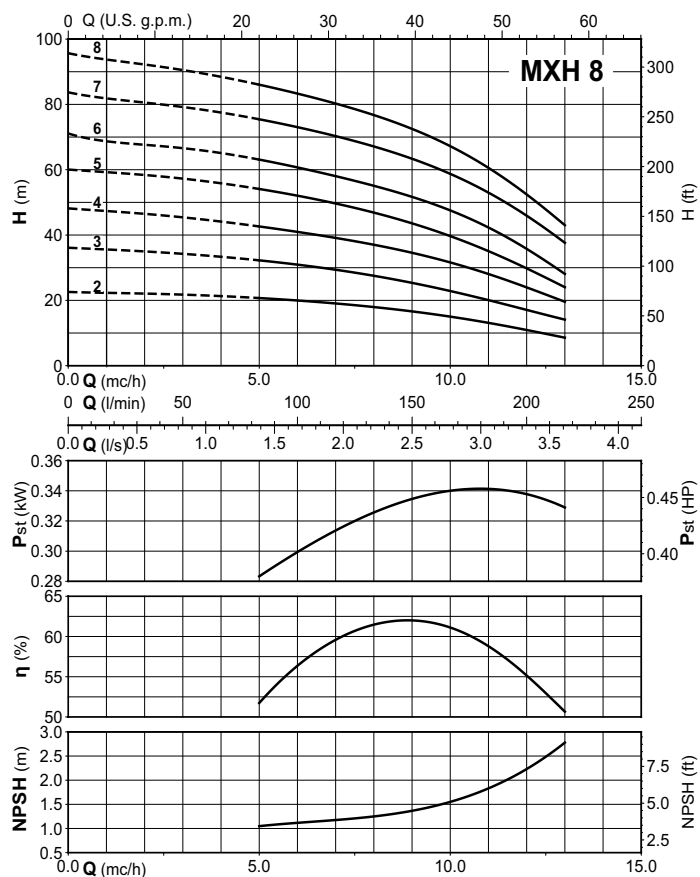
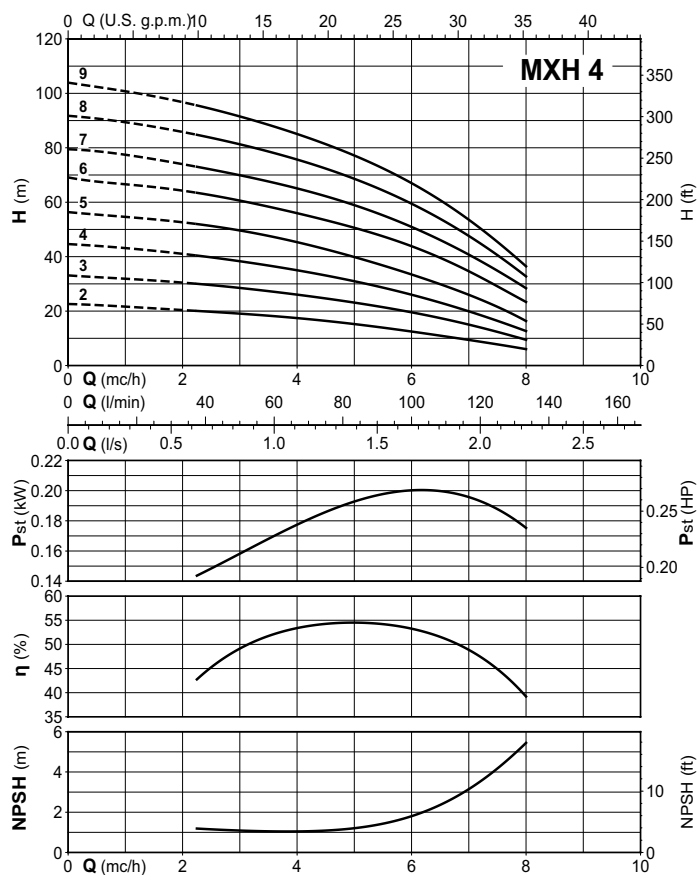
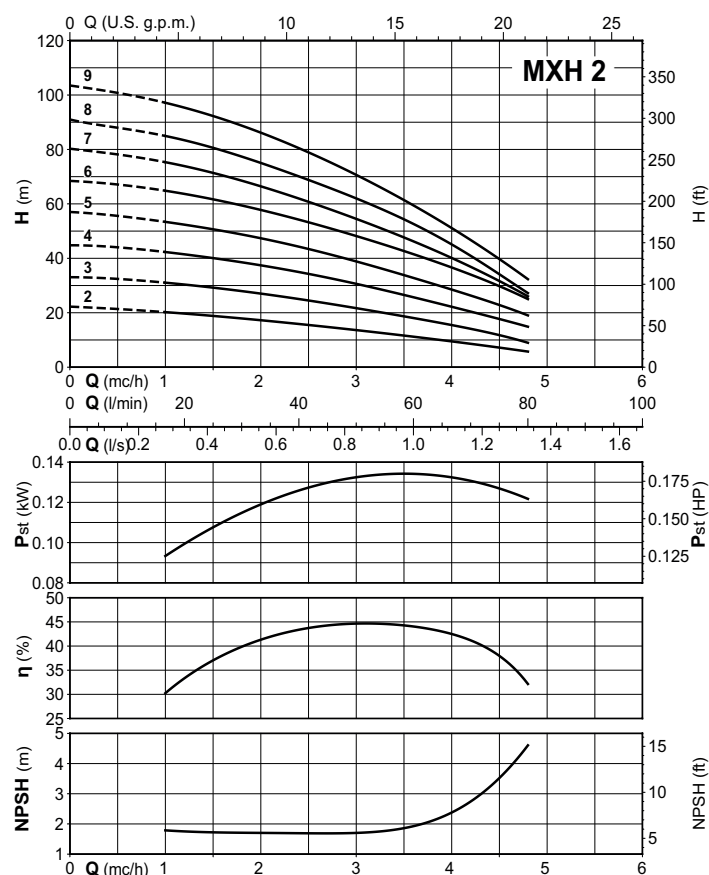
Tolerances according to UNI EN ISO 9906:2012

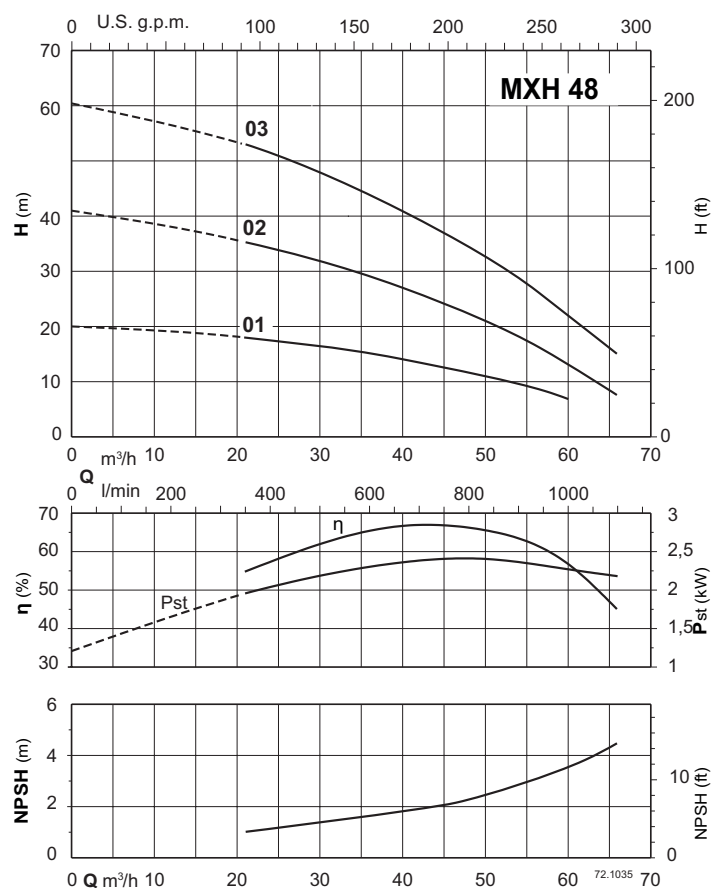
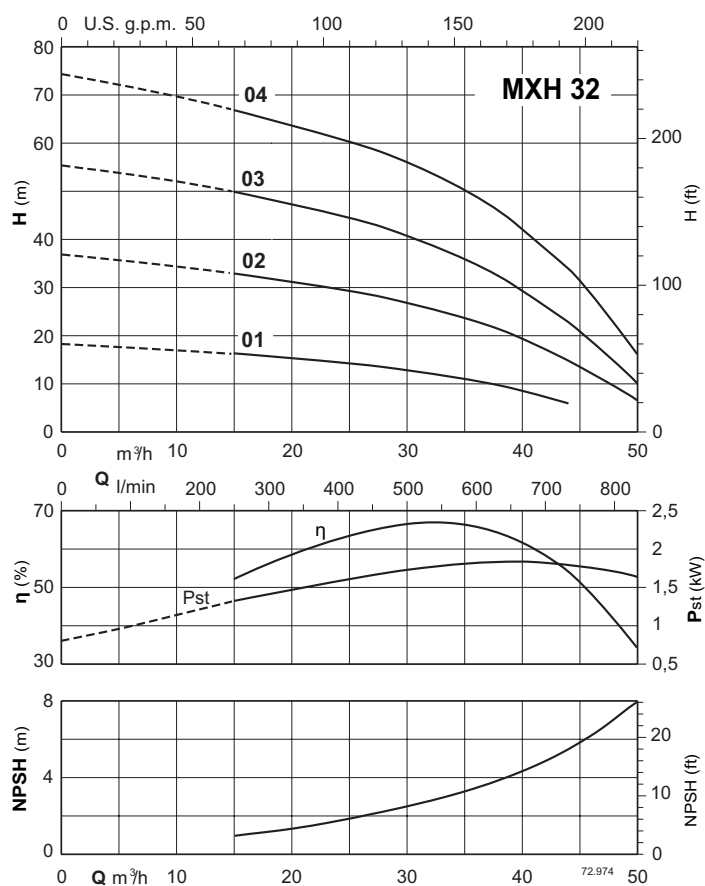
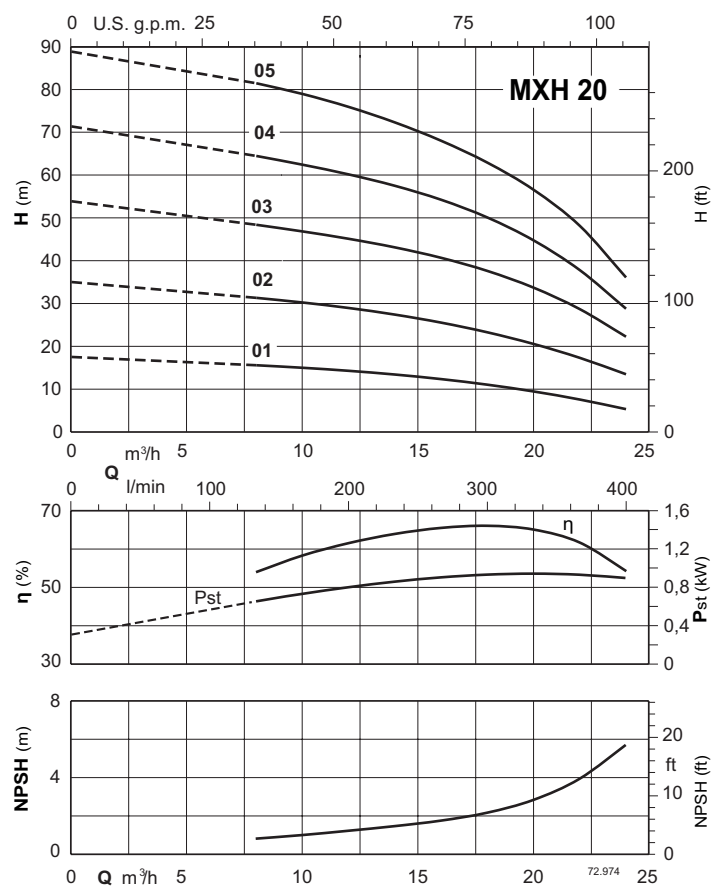
A safety margin of + 0.5 m is recommended for the NPSH value.

Test results with clean cold water, without gas content.



Characteristic curves $n \approx 2900$ rpm




Characteristic curves $n \approx 2900$ rpm


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