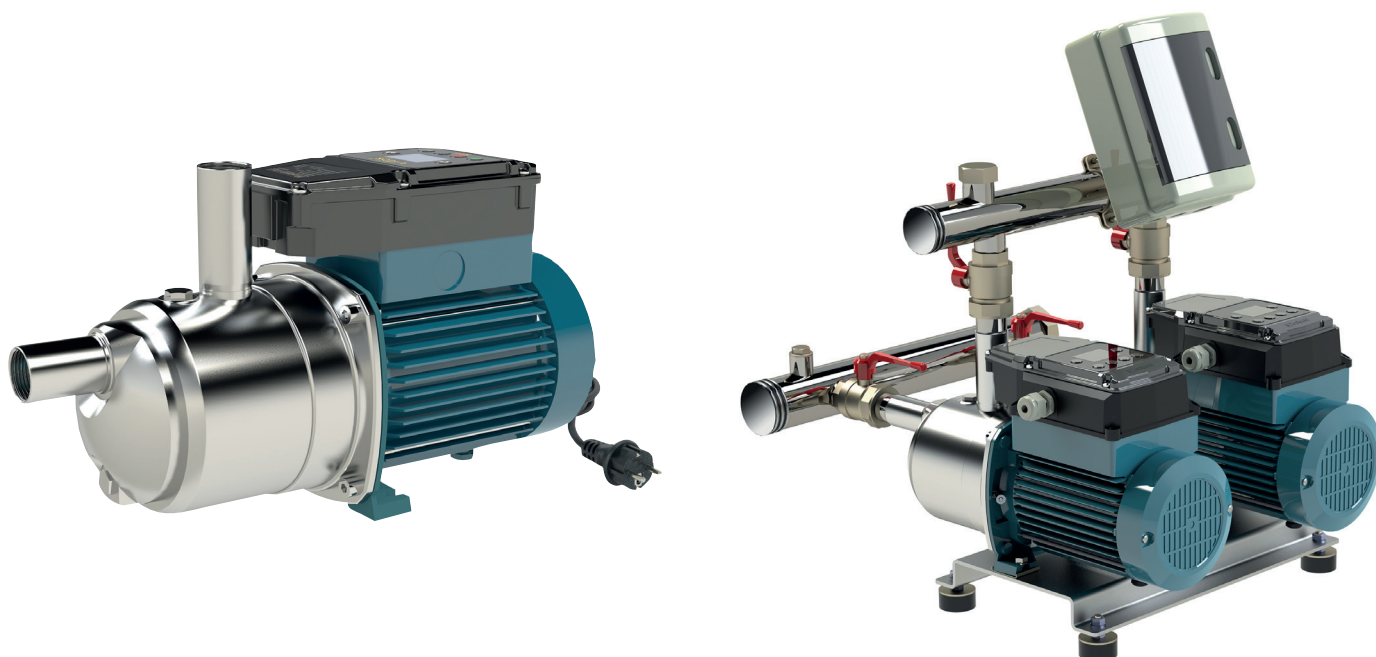
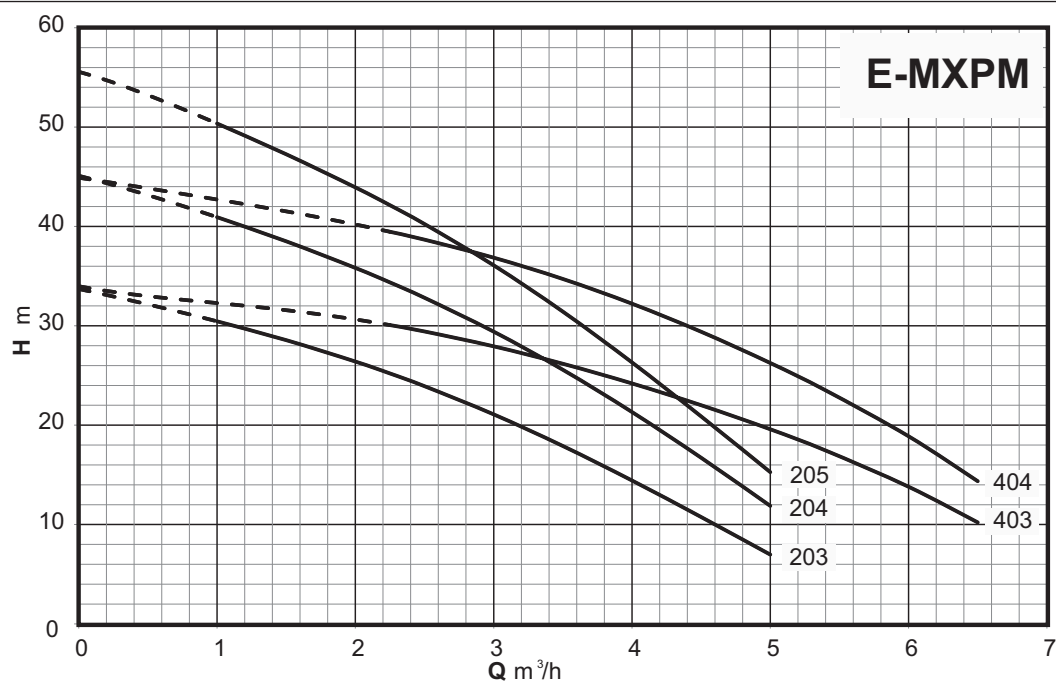


Characteristic curves $n \approx 2900$ rpm

Variable speed pressure
with integrated control



EASY TO INSTALL
Plug And play solution



ECONOMIC SAVING
High efficiency asynchronous motor 24 % less energy consumption compared to a standard pump



EASY TO USE
Equipped with a programmable software and, thanks to the analogic pressure sensor, the product allows to set the restart pressure. An ideal solution which allows to reduce or remove the need of a expansion tank

Construction

Easy to install, compact and plug and play pressurized system with integrated pressure transducer for automatic control of starting/stopping of the pump when utilization points are opened/closed with a integrated non-return valve into the pump suction.

Boosting sets with 2 pumps

Galvanised steel intake and delivery manifolds.
Connections for the installation of one G 1" connection pressure vessel

Applications

For water supply systems.
For domestic use, for garden use and irrigation.

Features

- high efficiency asynchronous motor
- capacitor less stressed in voltage
- uniform and lower motor temperature
- motor power control
- programmable re-start pressure
- programmable stop pressure
- no hydraulic losses due to the measuring devices
- voltage and current control
- monitoring of maximum starting current

Protections

- dry-run protection
- overload control and overheating motor control
- pump blockage
- power supply control
- starts per hour control

Operating conditions

liquid temperature: 0 °C to +50 °C.
Ambient temperature up to 40° C.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
Single-phase 230 V ± 10%, with thermal protector.
Capacitor inside the terminal box.
H07RN-F cable, 3G1.5 mm², length 1.5 m, with CEI-UNEL 47166 plug.
IE2 efficiency class for single-phase motors.
Insulation class F.
Protection IP X4.
Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Materials

Components	Material
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Pump shaft	Steel 1.4104 EN 10088 (AISI 430F)
Plug	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Stage casing	PPO-GF20 (Noryl)
Impeller	PPO-GF20 (Noryl)
Mechanical seal	Carbon - Ceramic - NBR

Coverage chart n ≈ 2900 rpm

Single-phase

Model					Q = Flow													
					m³/h	0	1	1,5	2	2,25	3	3,5	4	4,5	5	5,4	6	6,5
					l/min		16,6	25	33,3	37,5	50	58,3	66,6	75	83,3	90	100	108
	230V	P2		P1	H (m) = Total head													
	A	kW	HP	kW														
E-MXPM 203-PCD	2,7	0,45	0,6	0,67		33,7	30,5	28,6	26,4	25,2	21,1	17,9	14,4	10,8	7	-	-	-
E-MXPM 204-PCD	3,8	0,55	0,75	0,78		45,1	40,9	38,5	35,8	34,4	29,4	25,6	21,3	16,7	11,9	-	-	-
E-MXPM 205-PCD	4,8	0,75	1	1,01		55,6	50,4	47,3	43,9	42,1	36,1	31,4	26,3	20,9	15,3	-	-	-
E-MXPM 403-PCD	3,8	0,55	0,75	0,78		34	-	-	-	30,1	27,9	26,2	24,2	22	19,6	17,5	13,8	10,2
E-MXPM 404-PCD	4,8	0,75	1	1,01		44,9	-	-	-	39,5	36,9	34,7	32,2	29,4	26,3	23,5	18,9	14,4

P1: Maximum power input.

P2: Rated motor power output.

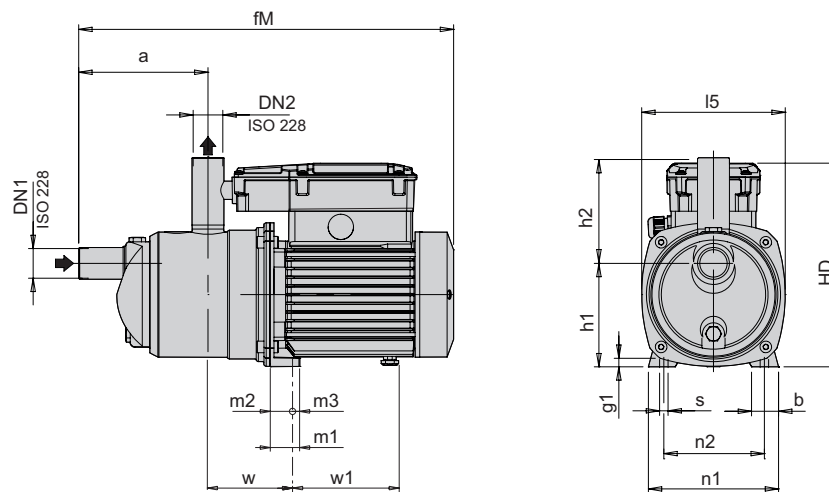
H: Total head in m

Test results with clean cold water, without gas content.

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

Tolerances according to UNI EN ISO 9906:2012

Dimensions and weights



TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
E-MXPM 203-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	109	9.5
E-MXPM 204-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	109	10.7
E-MXPM 205-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	109	11.5
E-MXPM 403-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	109	10.6
E-MXPM 404-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	109	11.5

Coverage chart n ≈ 2900 rpm
Single-phase

			Q = Flow													
			m³/h	0	2	3	4	4,5	6	7	8	9	10	10,8	12	13
Model	P2	P1	l/min		33,3	50	66,6	75	100	117	133	150	167	180	200	217
	kW	HP	H (m) = Total head													
BSM2F 2E MXPM 203-PCD	0.45 X2	0,56		33,7	30,5	28,6	26,4	25,2	21,1	17,9	14,4	10,8	7	-	-	-
BSM2F 2E MXPM 204-PCD	0.55 X2	0,7		45,1	40,9	38,5	35,8	34,4	29,4	25,6	21,3	16,7	11,9	-	-	-
BSM2F 2E MXPM 205-PCD	0.75 X2	0,89		55,6	50,4	47,3	43,9	42,1	36,1	31,4	26,3	20,9	15,3	-	-	-
BSM2F 2E MXPM 403-PCD	0.55 X2	0,75		34	-	-	-	30,1	27,9	26,2	24,2	22	19,6	17,5	13,8	10,2
BSM2F 2E MXPM 404-PCD	0.75 X2	1,05		44,9	-	-	-	39,5	36,9	34,7	32,2	29,4	26,3	23,5	18,9	14,4

P1: Maximum power input.

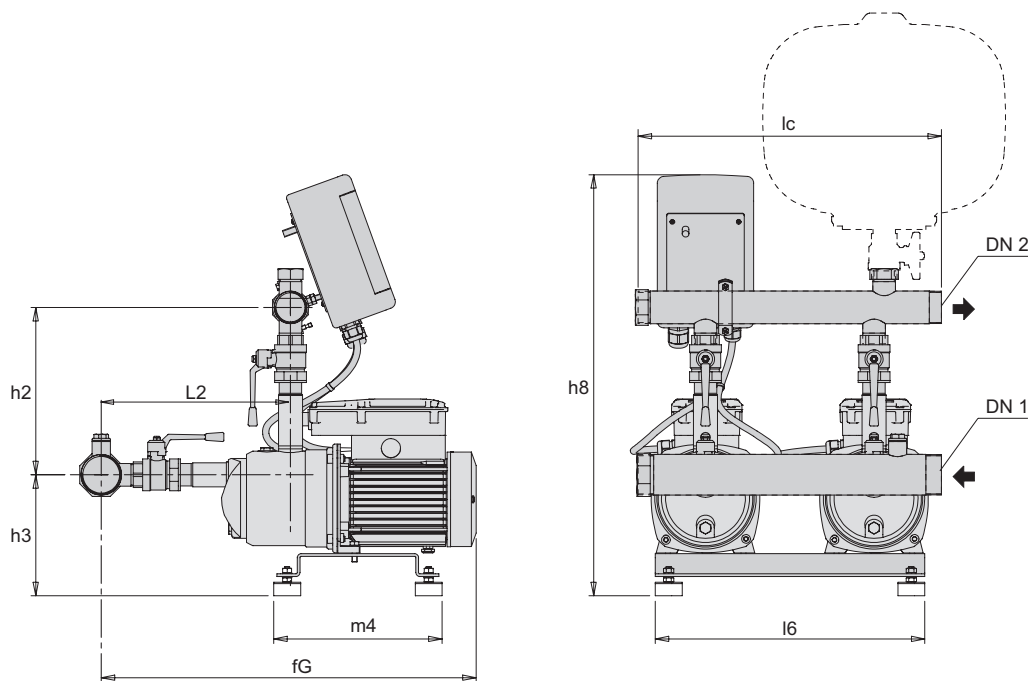
P2: Rated motor power output.

H: Total head in m

Test results with clean cold water, without gas content.

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

Tolerances according to UNI EN ISO 9906:2012

Dimensions and weights


TYPE			mm								kg
	DN1	DN2	fG	h2	h3	h8	l2	l6	l6	m4	Weight
BSM2F2EMXPM203PCD	G 2	G 1 1/2	588	248	179	625	281	400	450	250	31.4
BSM2F2EMXPM204PCD	G 2	G 1 1/2	588	248	179	625	281	400	450	250	33.2
BSM2F2EMXPM205PCD	G 2	G 1 1/2	588	248	179	625	281	400	450	250	35.5
BSM2F2EMXPM403PCD	G 2	G 1 1/2	588	248	179	625	281	400	450	250	-
BSM2F2EMXPM404PCD	G 2	G 1 1/2	588	248	179	625	281	400	450	250	35.2

Coverage chart $n \approx 2900$ rpm

