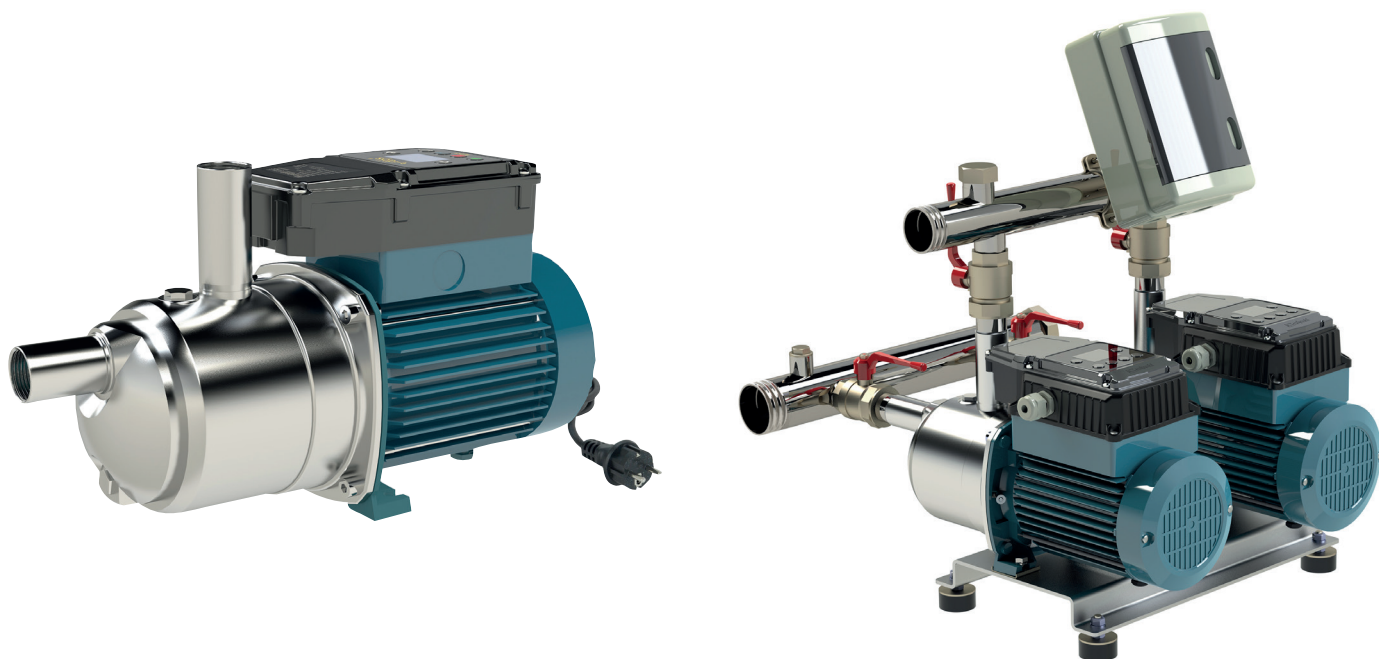
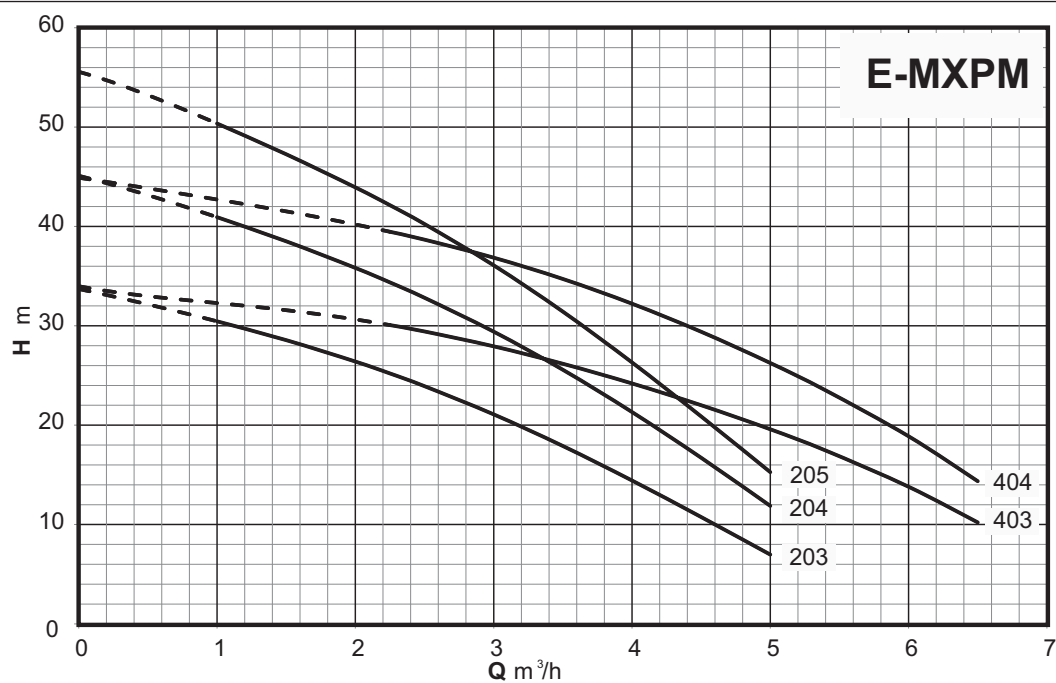


Characteristic curves $n \approx 2900$ rpm

Booster set
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 programmable software and an analog pressure sensor, this product allows for easy adjustment of the restart pressure. It is an ideal solution that helps reduce or eliminate the need for an 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, equipped with an 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

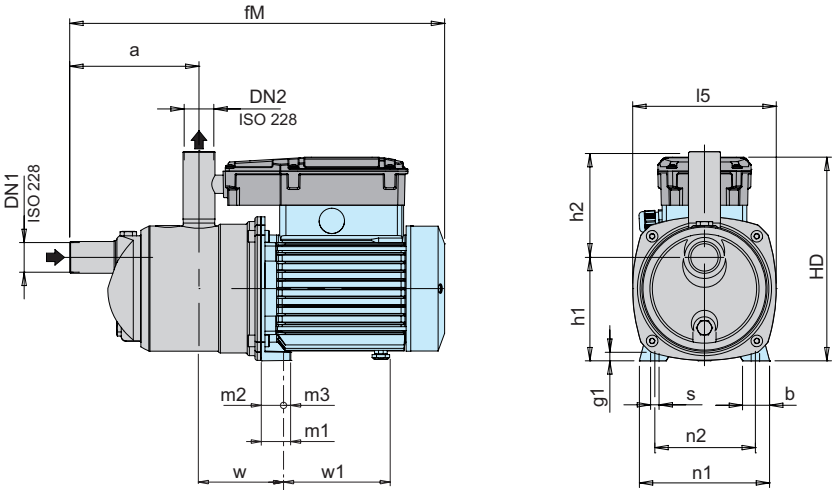
Single-phase

					Q = Flow													
					m³/h	0	1	1,5	2	2,25	3	3,5	4	4,5	5	5,4	6	6,5
Model	230V	P2		P1	l/min		16,6	25	33,3	37,5	50	58,3	66,6	75	83,3	90	100	108
	A	kW	HP	kW	H (m) = Total head													
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 $n \approx 2900$ 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.

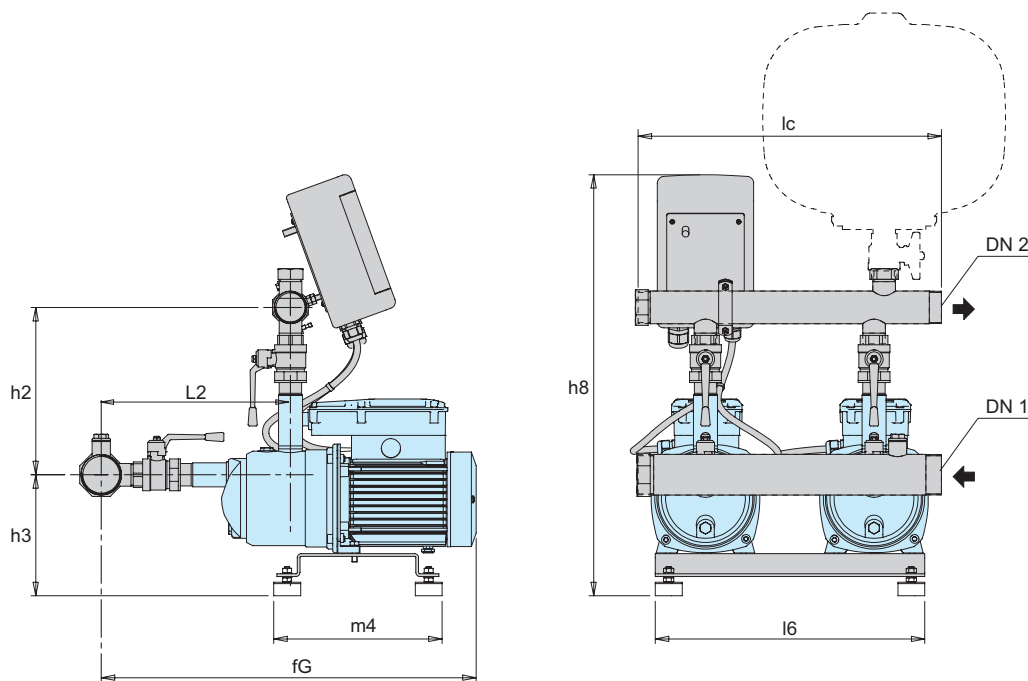
H: Total head in m

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	lc	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 ≈ 2900 rpm

