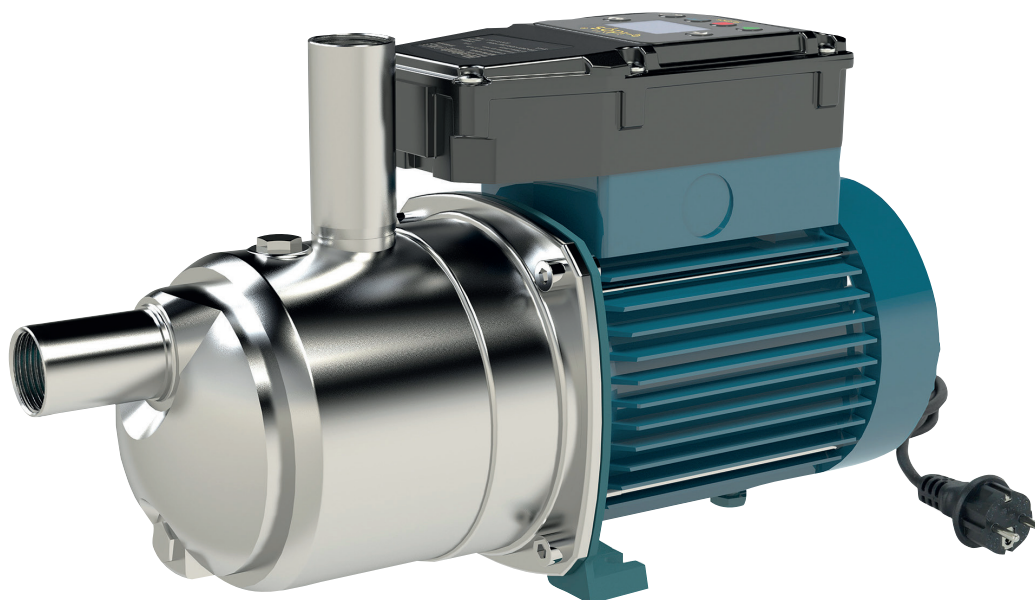
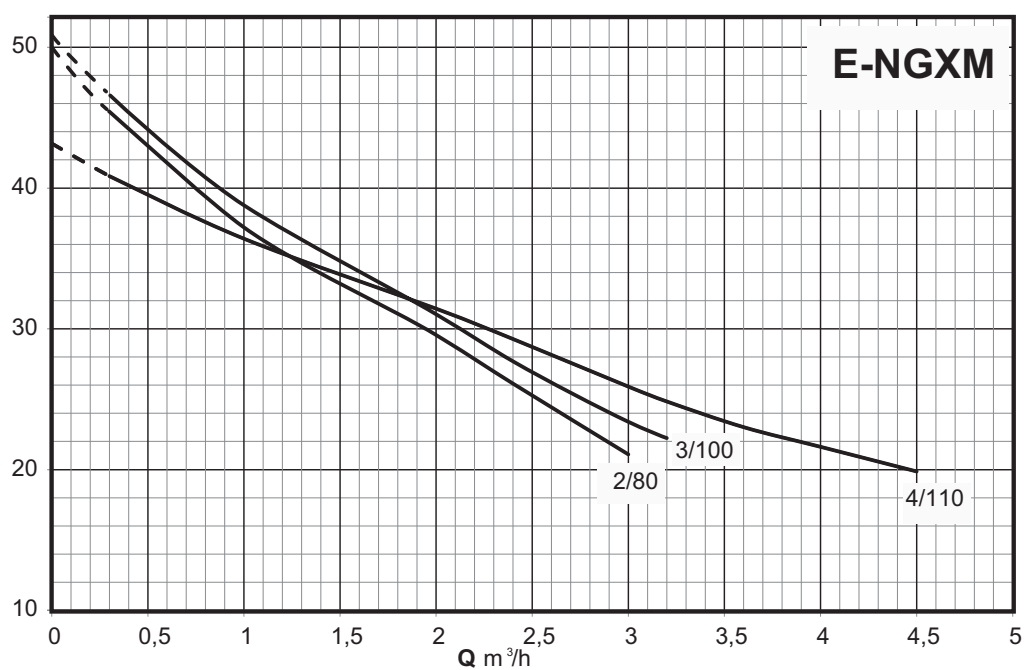


Coverage chart $n \approx 2800$ rpm

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.

pumps:

E-NGX: version with self-priming pumps

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 +35 °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.

Designation

Example: E-NGXM 2/80-PCD

E · = · Electronic

NGX = Series

M = Singlephase version (no indication: threephase)

2 = Progressive type number

80 · = P1 nominal power input in kW

PCD = Constant pressure Display

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	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Plug	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Impeller	PPO-GF20 (Noryl)
Diffuser	PPO-GF20 (Noryl)
Ejector	PPO-GF20 (Noryl)
Mechanical seal	Carbon - Ceramic - NBR

Performance $n \approx 2800$ rpm

Single-phase

					Q = Flow										
					m³/h	0	0,3	1	2	2,4	3	3,2	3,6	4	4,5
Model	230V	P2		P1	l/min		5	16,6	33,3	40	50	53.3	60	66,6	75
	A	kW	HP	kW	H (m) = Total head										
E-NGXM 2/80-PCD	3,8	0,55	0,75	0,78		50	45,5	37,2	29,6	26,1	21,1	-	-	-	-
E-NGXM 3/100-PCD	4,2	0,65	0,9	0,93		50,9	46	38,8	31	27,4	23,2	22,2	-	-	-
E-NGXM 4/110-PCD	4.8	0.75	1	1.01		43.2	40.8	36.4	31.4	29.3	25.9	24.8	23	21.6	19.9

P1: Maximum power input.

P2: Rated motor power output.

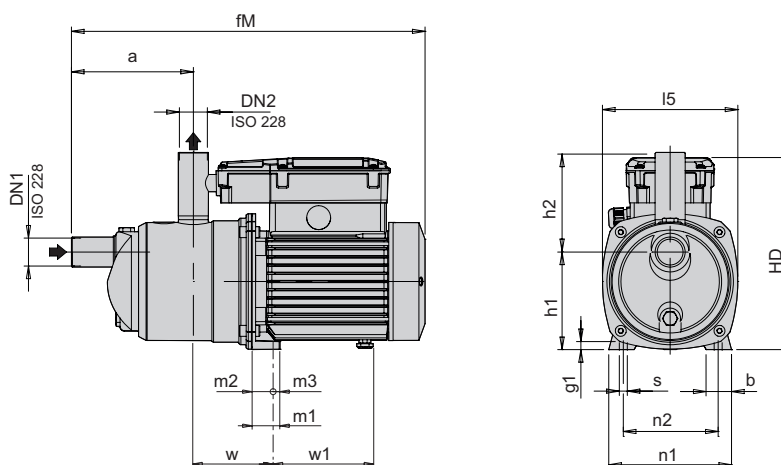
H: Total head in m

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	Weight
E-NGXM 2/80-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	10.1
E-NGXM 3/100-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	10.2
E-NGXM 4/110-PCD	G 1	G 1	145	30	420	10	116	119	228	161	33	25	8	146	112.5	9	95	11