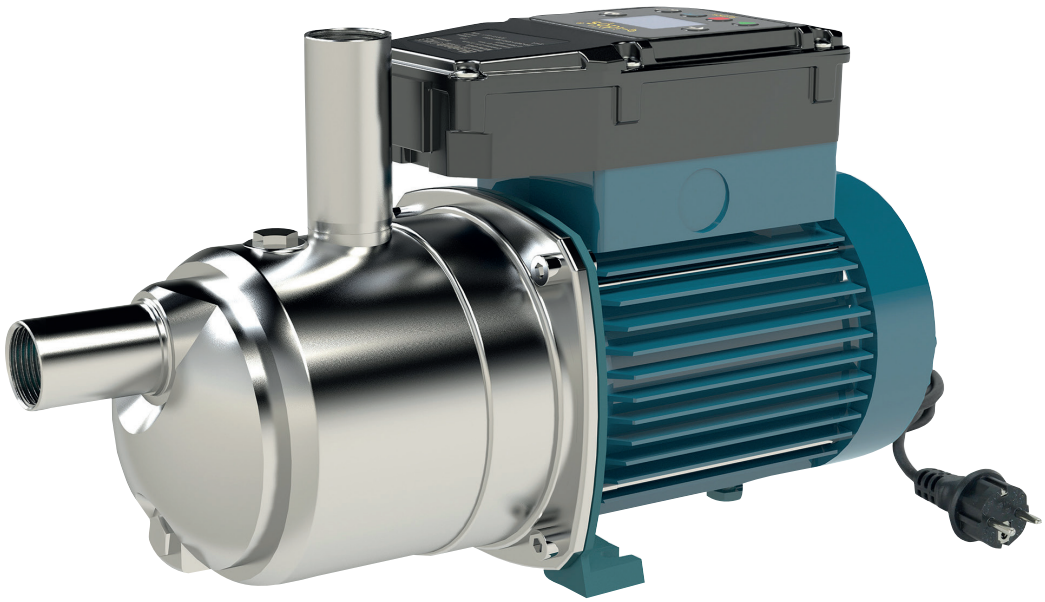
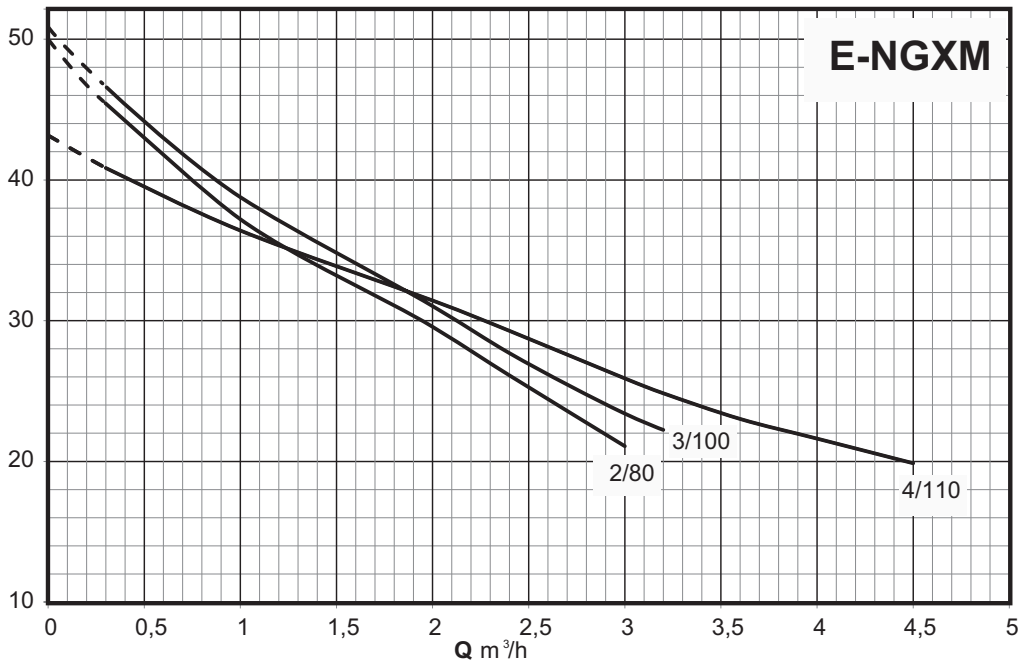
E-NGX



Coverage chart n ≈ 2800 rpm

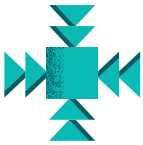


Variable speed pressure with integrated control

E-NGX

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, the product allows you to set the restart pressure. This is an ideal solution that reduces or eliminates 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 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 = Single-phase version (no indication: three-phase)
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	Stainless Steel 1.4104 EN 10088 (AISI 430F)
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

E-NGX

Performance n ≈ 2800 rpm

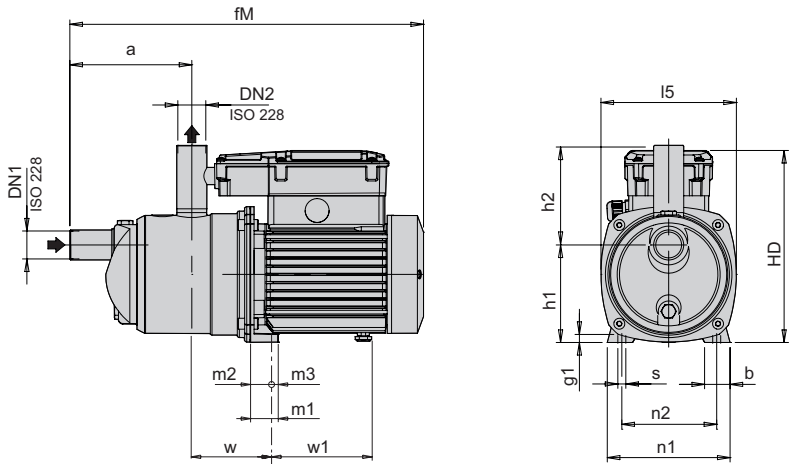
Single-phase

Model	230V	P2		P1	Q = Flow										
					m³/h	0	0,3	1	2	2,4	3	3.2	3,6	4	4,5
					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