

605

Construction

Energy saving variable speed circulating pump driven by a permanent magnet synchronous motor (pm) controlled by on board inverter. Bronze pump casing.

Applications

Domestic hot water circulation systems.

Operating conditions

- Liquid temperature from +2 °C to +95 °C
- Ambient temperature from +2 °C to +40 °C
- Maximum permissible working pressure: 10 bar
- Storage: -20°C/+70°C max. relative humidity 95% at 40 °C
- Certifications: in conformity with CE requirements
- Sound pressure ≤ 43 dB (A).
- Minimum suction pressure: 0.3 bar at 50°C, 1.0 bar at 95°C
- EMC secondo: EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3.
- Threated ports ISO 228: G 1, G 1 1/4, G 1 1/2.

Motor

- Synchronous motor with permanent magnet.
- Motor: variable speed
- Standard voltage: single-phase 230 V (-10%;+6%)
- Frequency: 50/60 Hz
- Protection: IP 44
- Insulation class: H
- Class II appliance
- Overload protection (integrated).
 - 1) automatic protection with electronic rotor release
 - 2) Overload thermal protector
- Cable: phases and neutral.
- Constructed in accordance with EN 60335-1, EN 60335-2-51.

Special features on request

Brass unions.

Designation

NCE ES 25 - 40 / 130

NCE = Series

ES = Version for sanitary hot water

32 = DN ports in mm

60 = Max. head in dm

180 = connection size mm

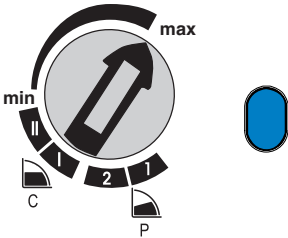
Materials

Component	Material
Pump casing	Bronze
Impeller	Composite
Shaft	Ceramic
Ball bearings	Carbon
Thrust bearing	Ceramic
Rotor	Composite / Ferrite
Winding	Copper wire
Electronic card	-
Gasket	EPDM

Operating modes

MANUAL PROGRAMMING
(BLUE LED)

Setting the switch in any position between the MIN and MAX points, the most suitable operating curve for the installation is manually selected.

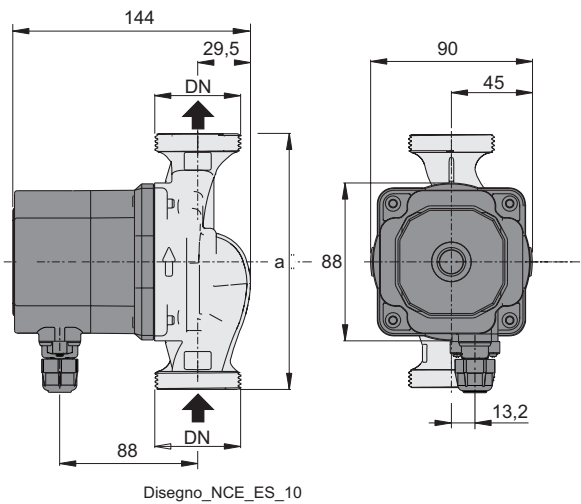


WARNING!

- The red LED indicates that the pump is not rotating but is still under tension.
- White flashing LED : plant degassing requirement, air in the system.



Dimensions and weights

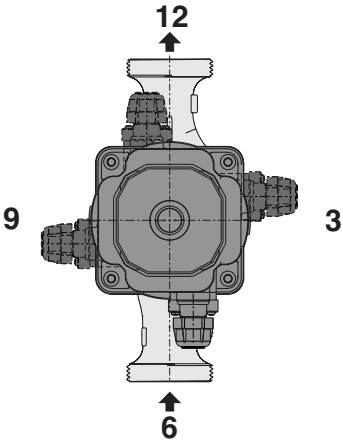


Unions (on request)

TYPE	DN	DN1
KIT G 1 - G 1/2 (NCE . 15..)	G 1	G 1/4
KIT G 1 1/2 - G 1 (NCE . 25..)	G 1 1/2	G 1
KIT G 2 - G 1 1/4 (NCE . 32..)	G 2	G 1 1/4

TYPE	DN	230 V		P1		mm	kg
		A max	A min	W max	W min	a	
NCE ES 15-40/130	G 1	0,35	0,03	44	4,5	130	2,15
NCE ES 20-40/130	G 1 1/4	0,35	0,03	44	4,5	130	2,25
NCE ES 25-40/130	G 1 1/2	0,35	0,03	44	4,5	130	2,35

Examples of installations



Terminal box arrangement (on request)

