



Construction

Close-coupled, single-impeller, centrifugal pumps; electric motor with extended shaft directly connected to the pump. Pump casing with suction and delivery connections with the same diameter and on the same axis (in-line).

Connections: Flanges PN 10, EN 1092-2.

Counterflanges (on request)

Sizes	Flanges
NR 50, NR 65	Screwed flanges PN 16, UNI 2247
NR 80, NR 100, NR 125	Flanges for welding PN 10, UNI 2277, UNI 2278

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Applications

For clean liquids, without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0.2%).
 For heating, conditioning, cooling and circulation plants.
 For civil and industrial applications.
 When low noise operation is required ($n = 1450$ rpm).

Operating conditions

Liquid temperature from -10 °C to $+100$ °C.
 Ambient temperature up to 40 °C.
 Total suction lift up to 7 m.
 Maximum permissible working pressure up to 10 bar.
 Continuous duty.

Motor

4-pole induction motor, 50 Hz ($n = 1450$ rpm).
NR: three-phase 230/400 V $\pm 10\%$.
NRM: single-phase 230 V $\pm 10\%$.
 2-pole induction motor, 50 Hz ($n = 2900$ rpm).
NR .../2: three-phase 230/400 V $\pm 10\%$.
NRM .../2: single-phase 230 V $\pm 10\%$.

Insulation class F.
 Protection IP 54.
 Constructed in accordance with IEC 34.

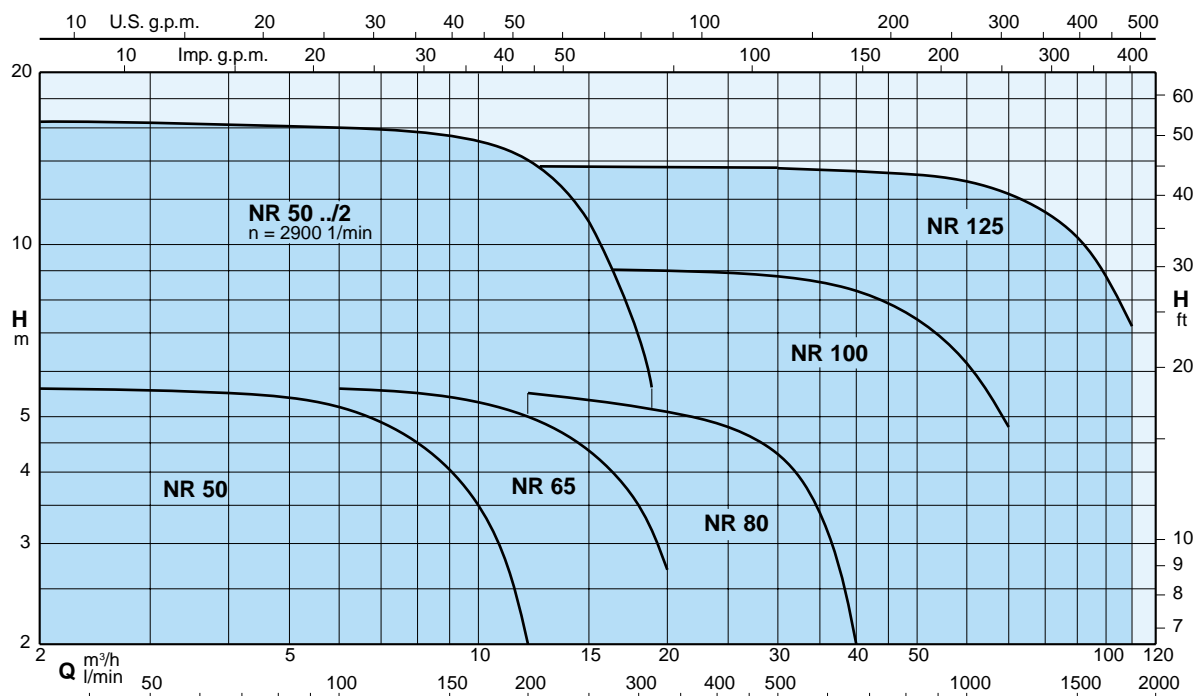
Materials

Component	Material
Pump casing Lantern bracket	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561 (Brass P-Cu Zn Pb 2 UNI 5705 for NR 50)
Shaft	Chrome-nickel steel AISI 303 for pumps up to 1.1 kW Chrome steel AISI 430 for pumps from 1.5 to 4 kW
Mecanical seal	Carbon - Ceramic - NBR
Counterflanges	Steel Fe 430B UNI 7070

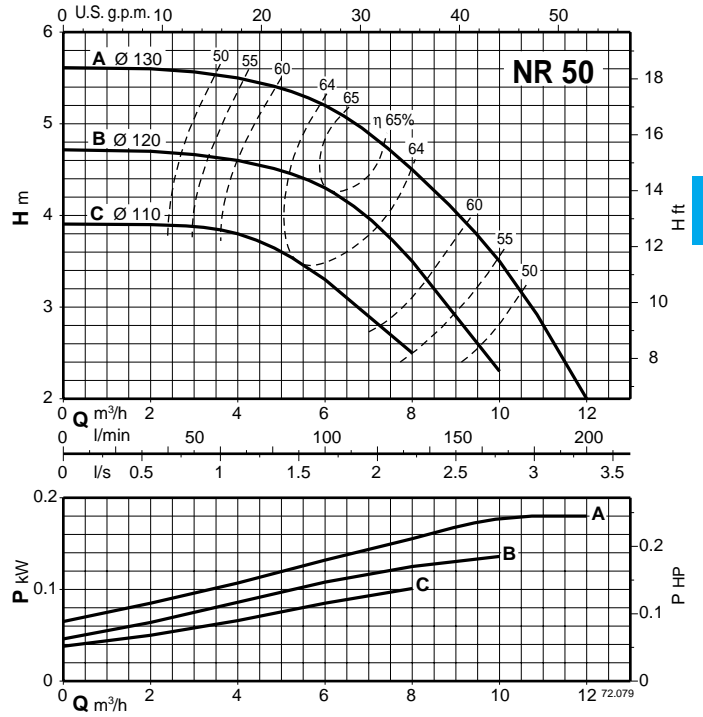
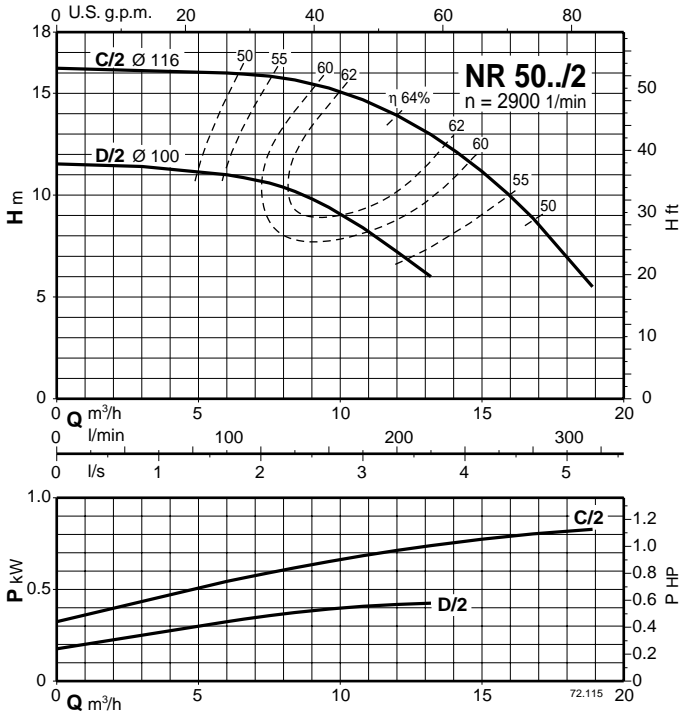
Special features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet). - Protection IP 55.
- Special mechanical seal. - Higher or lower liquid or ambient temperatures.

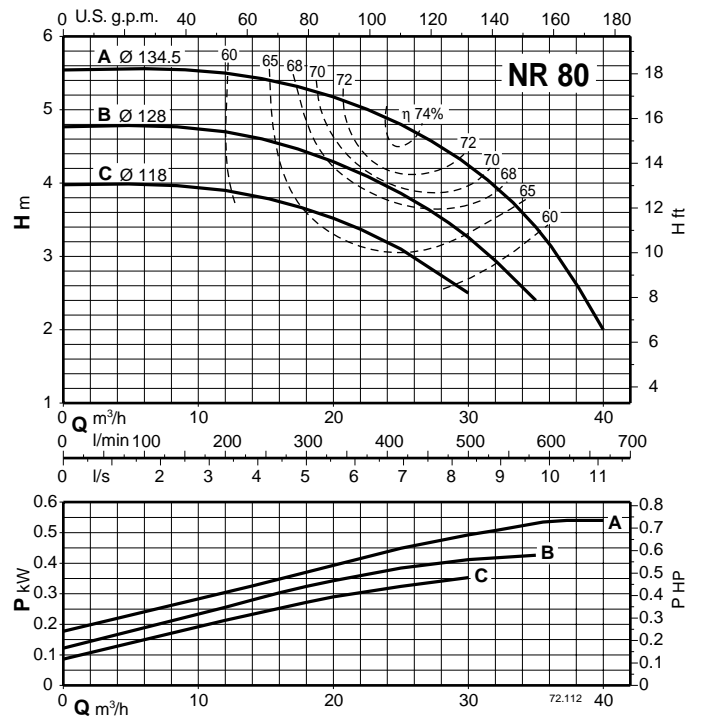
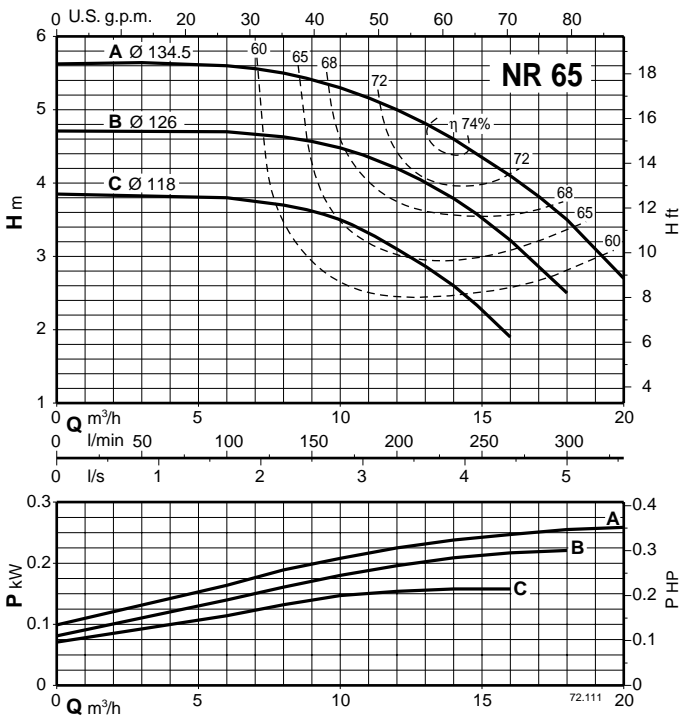
Coverage chart $n \approx 2900$ rpm and $n \approx 1450$ rpm



Characteristic curves $n \approx 2900$ rpm and $n \approx 1450$ rpm



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Characteristic curves $n \approx 1450$ rpm

