

Pioneering for You

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Edition - 2019 - 60 Hz

Wilo-CronoNorm-NL





Wilo-CronoNorm-NL

Design

Single-stage low-pressure centrifugal pump with axial suction, according to EN 733, mounted on a baseplate

Type key

Example:	NL 40/200B-11/2
NL	Standard pump with axial suction
40	DN for the pressure flange
200	Nominal diameter of impeller (mm)
B	Hydraulic version I
11	Rated power P ₂ (kW)
2	Number of poles

Application

- Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substance in heating, cold water and cooling systems.
- Applications for irrigation, building services, general industry, power stations, etc.

Special features/product advantages

- Reduced life-cycle costs through optimised efficiency levels
- Bidirectional, force-flushed mechanical seal
- Low NPSH values, best cavitation properties
- Shaft coupling with or without spacer coupling

Technical data (series)

Minimum Efficiency Index (MEI)	≥ 0.4
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Approved fluids (other fluids on request)

Heating water (in accordance with VDI 2035)	•
Cooling and cold water	•
Water-glycol mixtures (for 20-40 vol. % glycol and fluid temperature ≤ 40 °C)	(from 10 vol.% glycol Performance check required; up to 50% glycol:mechanical seal on request)

Permitted field of application

Standard version for operating pressure P _{max}	16 bar
Temperature range at max. ambient temperature +40 °C	-20...+120°C (version with mechanical seal) -20...+105°C (version with stuffing box packing)
Ambient temperature	-15°C...40°C
Installation in closed buildings	•
Outdoor Installation	Special version at additional charge

Electrical connection

Main connections	3~400V, 60Hz
Nominal speed n	1450/2900 1/min

Motor/electronics

IEC standard motor	•
Protection class	IP 55
Insulation class	F
PTC Thermistor sensor	•
Motor protection required on site	To be provided by the customer for installation
Motor efficiency class	IE3 (for motors ≥ 0.75 kW
Speed control	Wilo control devices external frequency converter (at additional charge)
Motor winding up to 3 kW	230 VΔ /400 V Y,60 Hz
Motor winding up to 4 kW	400 VΔ /690 V Y,60 Hz
Other voltages/frequencies	Special version at additional charge

Materials

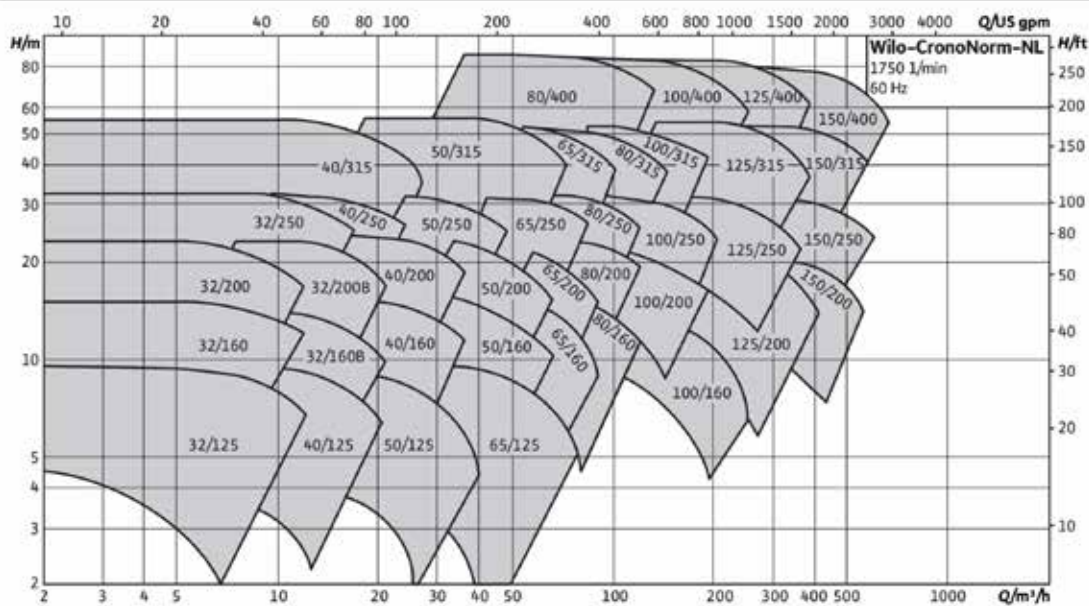
Pump Housing	EN-GJL-250
Pressure lid	EN-GJL-250
Bearing bracket	EN-GJL-250
Impeller	EN-GJL-250
Impeller (special version)	G-CuSn10
Pump shaft	X30Cr13
Mechanical seal	On request depending on the fluid
Non-cooled stuffing box	Version without additional charges

• = appropriate - = not appropriate

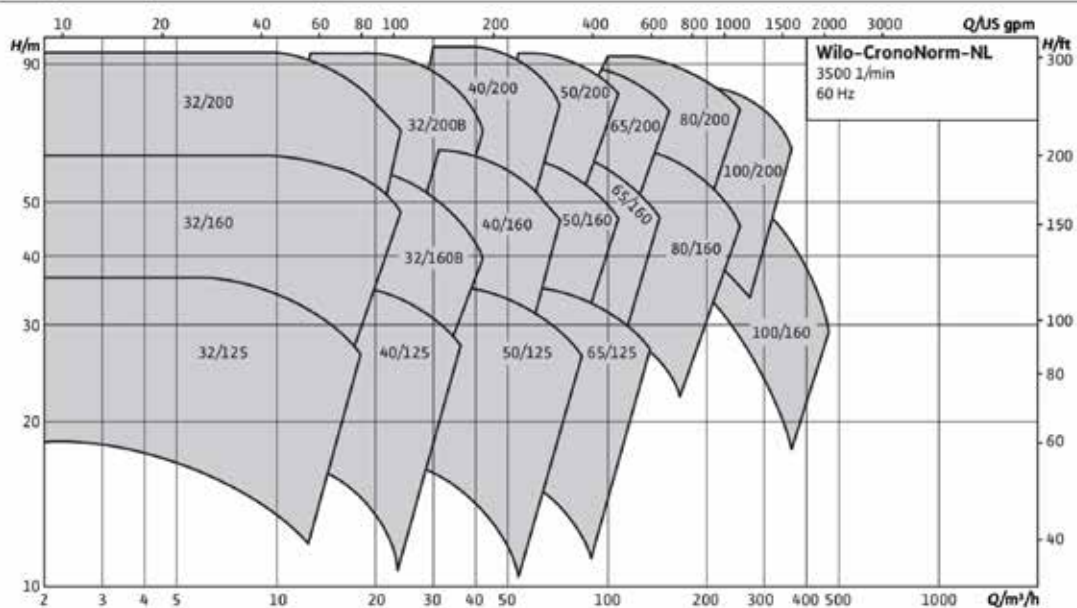
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Technical Data

Pump curves 4 pole motor - 1750 rpm



Pump curves 2 pole motor - 3500 rpm



Equipment/function

Single-stage low-pressure centrifugal pump in mono-bloc design with coupling, coupling guard, motor and baseplate

→ Mechanical shaft seal or stuffing box

Accessories

Automatic speed control:

For automatic, infinitely variable pump power control. Please contact Wilo for more information on "switch-gears and control devices"

Scope of delivery

- Pump
- Installation and operating instructions
- Pump with free shaft end or
- Pump on baseplate with coupling and coupling guard without motor or
- Completely mounted pump on baseplate with electric motor

Options

- Other materials and versions on request
- Other voltages and frequencies available on request

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