



Close Coupled End-Suction Pump

Grundfos NBE

The Grundfos NBE close-coupled, end-suction pump with integrated permanent magnet motor, drive, and control serves as the industry standard in performance, quality, and durability. These products allow for dynamic and intelligent solutions to many commercial building and industrial applications. The NBE provides all the benefits of an NB pump, enhanced by a high-efficiency permanent magnet motor and variable frequency drive, manufactured by Grundfos.

The Grundfos MLE permanent magnet motor with integrated variable frequency drive exceeds IE5 efficiency levels set by the International Electrotechnical Commission (IEC), currently the highest efficiency worldwide for electrical motors. NEMA Premium Efficient motors are equivalent to IE3, meaning these MLE motors are two levels above NEMA Premium Efficiency. The combined motor and VFD efficiency is higher than a NEMA Premium motor alone.

Key Features and Benefits

Installation

- No baseplate or grouting required reducing installation costs
- No alignment required between the pump and motor with our
- Optimized, space-saving compact design
- Top centerline discharge design allows for self-venting and more compact piping designs

Efficiency and Reliability

- Industry leading efficiency you can count on, because of advanced Computational Fluid Dynamics (CFD)
- New Silicon Carbide (SiC) / Silicon Carbide (SiC) hard faced seal's robust design offers increased temperature range, better abrasives handling and longer life versus standard designs (standard on all N-Series pumps)
- Optimized, stainless-steel impeller design increases efficiency and reduces NPSH required
- Balanced impellers reduce noise and vibration for quiet operation and prolong seal and bearing life
- Integrally cast diffuser vane reduces turbulence

Serviceability

- Foot-mounted volute for increased pump stability
- Footed volute and back pull-out enables removal of the motor, motor stool and impeller without disturbing the pump housing or pipes

Applications

- Hot water systems
- Chilled water systems
- Condenser water
- District heating/cooling
- Water Utility
- Process water and Light industrial

GRUNDFOS

Possibility in every drop

Technical Data

NBE	
Flow, Q :	Max. 2330 gpm
Head, H:	Max. 555 ft
Liquid Temperature:	-13°F to 248°F
Working Pressure:	Max. 232 psi
HP Range / Speed:	3 to 30 hp /4000 rpm
	1.5 to 30 hp /2200 rpm
Discharge Sizes:	1.25 to 6 in.

NBE Control Modes	
Proportional Pressure	•
Constant Flow	•
Constant Pressure	•
Constant Differential Pressure	•
Constant Temperature	•

Performance Data NBE 60Hz

