EQ Series pumps are designed for maximum efficiency and quiet operation in every detail. They are the only non-corrosive, all plastic pumps designed for the commercial pool and water applications market.

The EQ Series pump impellers are manufactured for true breakthrough performance, allowing for lower loads and longer motor life. Available with and without the strainer pot. Available in flows to 800 GPM, and from 3 to 15 HP.

**STANDARD FEATURES**

- Close-coupled for quiet, stable flow operation.
- Lightweight for easy, one-man installation.
- Clear Cam and Ramp™ Lid for added service convenience.
- Available in single- and three-phase models, ODP. TEFC motor available three-phase only.
- Closed impeller for long life and durability.
- 6” suction and 4” discharge with strainer pot.
- Great for use with Acu Drive™ XS Variable Frequency Drives.
- Self-priming under NSF standards; NSF Certified.
MATERIALS AND DESIGN

Pump Body
Volute type, back pull-out design.

- **Port Size**
  6” – ANSI Rated 125 bolted flange suction port\(^1\).
  4” – ANSI Rated 125 bolted flange discharge port\(^1\).

- **Material - Volute & Motor Adapter**
  PPO Resin

- **Impeller**
  PPO Resin

- **Base**
  6061 aluminum design, slotted for mounting ease.

- **Corrosion Prevention**
  All-plastic pump for maximum hydraulic performance and corrosion prevention.

Hair and Lint Strainer

- **Material**
  Separate bolt-on PPO Resin body with plastic basket, Polycarbonate Resin Thermoplastic lid, and stainless steel bolts.

- **Size**
  6” ANSI Rated 125 bolted flange suction and discharge ports.

Pump Maximum Limits
Liquid Temperature: 104°F
Ambient Air Temperature: 104°F

Motor
Standard JM type. Premium Efficient ODP Class F insulated.
On TEFC options, JMZ type, Premium Efficient, Class F insulated.

- **Frame Size**
  NEMA Rated “C” flange. 230/460V are open drip-proof design.

- **Shaft**
  303 stainless steel construction.

- **Design**
  3 to 15 HP, 3500 RPM, JM open drip-proof, continuous duty, three-phase and single-phase (5, 7½, 10 HP). 5 to 15 HP, 3500 RPM JMZ TEFC, continuous duty three-phase.

- **Bearings**
  Double-shielded, single row, deep-groove type, permanently lubricated.

- **Thermal Overload Protection**
  All models require external thermal overload protector.

Electrical

- **Power Supply Required**
  Three-phase pumps are 208-230/460. Single-phase models are available in ODP 230v, 60 Hz only.

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\(^1\) Use ANSI Rated class 125 plastic flange and \(\frac{1}{8}\)” thick class 125 full flange gasket to make connection.
FASTENERS AND O-RING ARE INCLUDED WITH PENTAIR® EQ 6X6 STRAINER TO CONNECT STRAINER DIRECTLY TO EQ SERIES PUMP. IF PUMP IS TO BE INSTALLED WITHOUT STRAINER MAKE BOTH CONNECTIONS PER NOTE 1. USE ANSI RATED CLASS 150 PLASTIC FLANGE AND 1/8” THICK CLASS 150 FULL FLANGE GASKET TO MAKE CONNECTION. THIS DIAMETER FITS INSIDE 6” SCH 40 PIPE. DO NOT USE SCH 80 PIPE AS FINAL PIPE SIZE WHEN MAKING THIS FLANGE CONNECTION.

EQ Series Commercial Pump With Strainer Pot 6” x 4”

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<tr>
<th>Part #</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Phase</th>
<th>HP</th>
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EQ Series pumps are available in 575V and 50 Hz models. Please contact your local sales representative or Pentair office for details.

EQ Series Commercial Pump Without Strainer Pot 6” x 6”

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<tr>
<th>Part #</th>
<th>Description</th>
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340013 Strainer Pot Assembly including Strainer, Lid, Basket and Hardware
ENGINEERING SPECIFICATIONS

EQ Series pump

• Recirculation pump shall be Pentair® EQ Series pump
  Model No._________self-priming centrifugal pump,____
  phase, 60 Hz.

General Notes

• Install pump in a cool, dry, well-vented location away from pool
  heaters and chemical storage.
• Pump should be firmly mounted with pipe supported to prevent
  vibration and undue operational noise.
• Allow 12” minimum clearance behind motor for servicing.
• Motor overheating may be caused by a voltage drop or
  excessive voltage. Be sure that wire size and voltage input
  are properly regulated.

Specifications

• The recirculation pump shall be a self-priming, centrifugal
  design with a hair and lint strainer as shown in the plans.
• The pump body, seal plate, and attached hair and lint strainer
  shall be constructed of non-corrosive PPO Resin materials, and
  close-coupled to an electric motor by means of an adaptor of the
  same material. The pump body shall have a single suction port
  with a 6” ANSI Rated 125 bolt flange to the hair and lint strainer.
  A centerline discharge port of 4” ANSI Rated 125 bolt flange and
  a winterizing drain port of 1/4” NPT shall be a part of the design.
• The pump shall be a back pull-out design to allow servicing
  without disturbing piping. The pump shall have a PPO Resin
  diffuser to aid in priming and it shall contain a replaceable
  bronze wear ring for the impeller. The impeller shall be of the
  closed type and PPO Resin, non-overloading at any point on
  the performance curve. The mechanical shaft seal shall be
  constructed of ceramic and carbon seal faces, with
  stainless steel, brass and Buna N materials in the spring
  bellows portion. The impeller shall be secured to the motor shaft
  by means of a stainless steel key and locking screw into the end
  of the motor shaft. The pump shall be capable of operating at up
  to 50 psi, 104° F continuous water temperature.
• The electric motor coupled to the pump shall be of the NEMA
  Rated series JM construction with stainless steel shaft inside a
  removable shaft sleeve of 300 series stainless steel. The motor
  shall be of an open, drip-proof design (or TEFC JMZ frame) with
  double-shielded, single row, deep-groove ball bearings. Motors
  shall be continuous duty rated at 40° C (or realign better)
  ambient and be suitable for outdoor installation.
• The pump motor shall be a ___ HP, ___ phase, 60 Hz, 3450 RPM
  for service on a ___ volt electric supply. The pump shall be rated
  for ______ GPM at ____ TDH. The pump shall be tested and
  certified by a nationally recognized testing laboratory to conform
  to National Sanitation Foundation Standard 50.

Hair and Lint Strainer

• The pump strainer shall consist of a PPO Resin body, Polycarbonate
  Resin Thermoplastic cover with O-ring seal, and Cam and
  Ramp™ Lid, and a strainer basket of mineral reinforced
  polypropylene material.
• The strainer body shall be 6” ANSI Rated 150 bolt flanged suction
  and discharge ports. The strainer body shall have a removable
  drain plug for winterizing.
• The strainer basket shall be securely positioned below the
  suction inlet of the trap, with access for inspection and
  cleaning through a removable trap body lid. The trap body lid
  shall be secured by means of a locking ring. The strainer
  basket shall have a perforation which in total open area is
  98 square inches.