

EQ SERIES

HIGH PERFORMANCE COMMERCIAL PUMP

FOR COMMERCIAL SWIMMING POOLS AND OTHER WATER APPLICATIONS

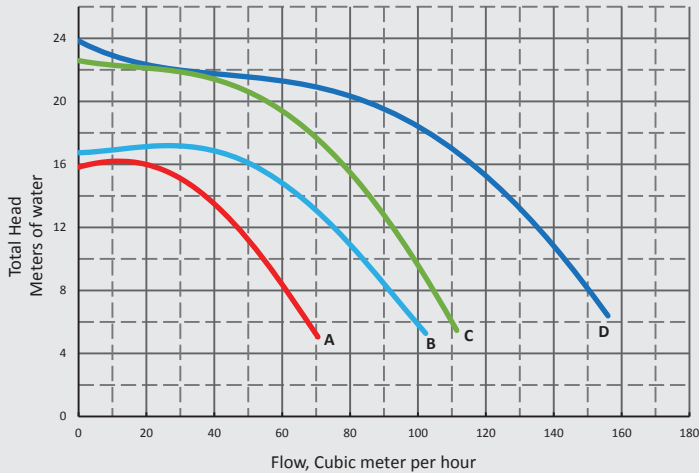
EQ Series Pumps are designed for maximum efficiency and quiet operation in every detail. They are the only non-corrosive, all-plastic pumps designed for the commercial pool and water applications market. The EQ Series Pump impellers are manufactured for true breakthrough performance, allowing for lower loads and longer motor life.

STANDARD FEATURES

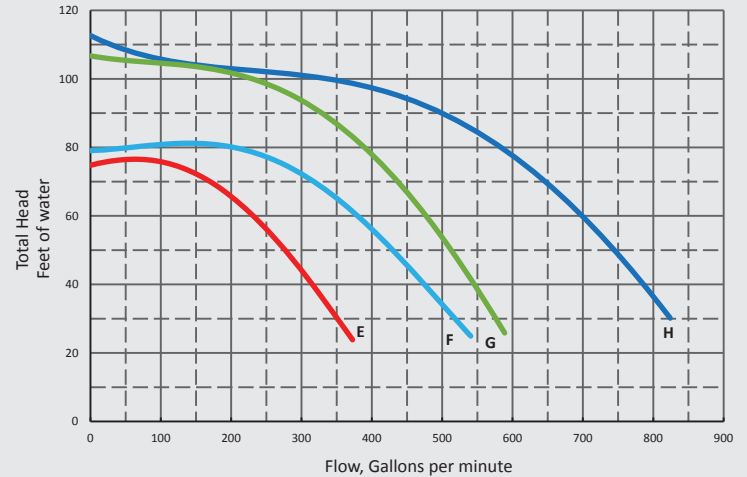
- Close-coupled for quiet, stable flow operation.
- Lightweight for easy, one-man installation.
- Clear Cam and Ramp Lid for added service convenience.
- Available in both 50Hz & 60Hz TEFC IE3 motors, three-phase only.
- Closed impeller for long life and durability.
- 6-inch suction and 4-inch discharge with strainer pot.
- Great for use with Acu Drive XS Variable Frequency Drives.
- Self-priming with strainer pot.
- CE certified.



EQ Series 50Hz Performance Curves



EQ Series 60Hz Performance Curves



MATERIALS AND DESIGN

PUMP BODY

Volute type, back pull-out design.

- **Port Size**
 - 6-inch, ANSI-rated 125 bolted flange suction port.¹
 - 4-inch, ANSI-rated 125 bolted flange discharge port.¹
- **Material – Volute and Motor Adapter**
 - PPO resin.
- **Impeller**
 - PPO resin.
- **Base**
 - 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-inch, ANSI-rated 125 bolted flange suction and discharge ports.

PUMP MAXIMUM THERMAL LIMITS

- Ambient air temperature: 40° C.
- Liquid temperature: 40° C.

MOTOR

Standard JM type. IE3 efficiency TEFC.

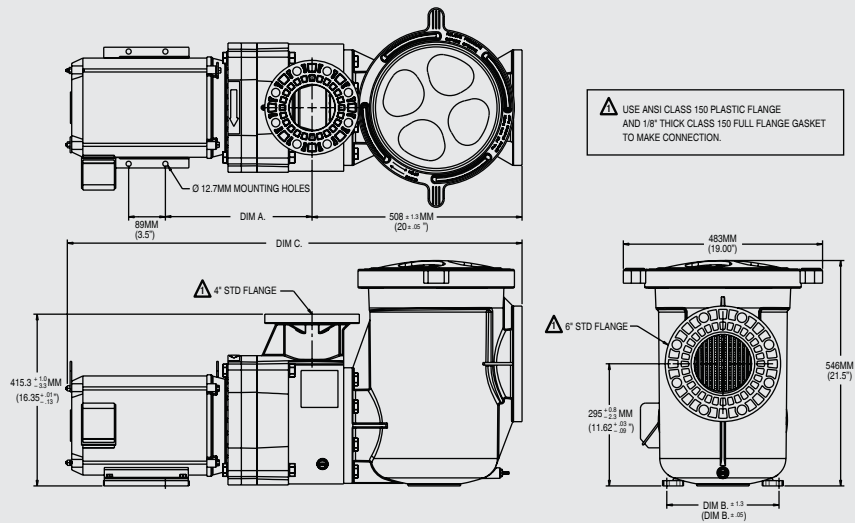
- **Frame and Size**
 - NEMA-rated "C" flange.
- **Shaft**
 - 304 stainless steel construction.
- **Design**
 - 3-10 HP, 3,000 RPM, JM TEFC, continuous duty, three-phase.
 - 5-15 HP, 3,500RPM, JM TEFC, continuous duty, three-phase.
- **Bearings**
 - Double-sealed, single row, deep-groove type.
- **Thermal Overload Protection**
 - All models require external thermal overload protector.

ELECTRICAL

- **Power Supply Required**
 - Three-phase 208-230/460, 60Hz
 - Three-phase 230/400, 50Hz

¹Use ANSI-rated class 125 plastic flange and 1/8-inch (3.2mm) thick class 125 full flange gasket to make connection.

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



EQ Series Commercial Pump With Strainer Pot (6 Inch x 4 Inch)

Part #	Description	Voltage	Amps	Phase	HP	Wt kg	Dim.A mm (inches)	Dim.B mm (inches)	Dim.C mm (inches)
AP340082	EQK-300-AP	230/400V	7.01/4.05	3	3	59	338.8 (13.34)	266.7 (10.5)	1068.3 (42.06)
AP340081	EQK-500-AP	230/400V	11.8/6.8	3	5	63	338.8 (13.34)	266.7 (10.5)	1068.3 (42.06)
AP340080	EQK-750-AP	230/400V	17.3/10.0	3	7.5	77	360.4 (14.19)	292.1 (11.5)	1126.7 (44.36)
AP340049	EQK-1000-AP	230/400V	23.1/13.3	3	10	91	360.4 (14.19)	292.1 (11.5)	1126.7 (44.36)
AP340604	EQKT-500-AP	208-230/460V	12.7-11.5/5.77	3	5	59	338.8 (13.34)	266.7 (10.5)	1068.3 (42.06)
AP340605	EQKT-750-AP	208 - 230/460V	18.7-17.0/8.48	3	7.5	76	360.4 (14.19)	292.1 (11.5)	1126.7 (44.36)
AP340606	EQKT-1000-AP	208-230/460V	35.6-33.0/16.5	3	10	81	360.4 (14.19)	292.1 (11.5)	1126.7 (44.36)
AP340607	EQKT-1500-AP	208 - 230/460V	35.6-33.0/16.5	3	15	91	360.4 (14.19)	292.1 (11.5)	1126.7 (44.36)

EQ SERIES®

HIGH PERFORMANCE COMMERCIAL PUMP



ENGINEERING SPECIFICATIONS

EQ SERIES PUMP

Recirculation pump shall be Pentair® EQ Series Pump model number _____ self-priming centrifugal pump, _____ Hz, three phase.

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 30cm (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-inch, ANSI-rated 125 bolt flange to the hair and lint strainer. A centerline discharge port of 4-inch, ANSI-rated 125 bolt flange and a winterizing drain port of 1/4 inch 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 3.45 bar and maintaining 40° C 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 TEFC JM frame with double sealed, single row, deep-groove ball bearings. Motor shall be continuous-duty rated at 40° C ambient and be suitable for outdoor installation.
- The pump motor shall be a _____ HP, _____ Hz, 3 phase, _____ RPM for service on a _____ volt electric supply. The pump shall be rated for _____ M3/H/GPM at _____ M/FT. The pump shall be tested and certified by CE.

HAIR AND LINT STRAINER

- The pump strainer shall consist of a PPO resin body, polycarbonate resin thermoplastic cover with O-ring seal, Cam and Ramp™ Lid and a strainer basket of mineral-reinforced polypropylene material.
- The strainer body shall be 6-inch, ANSI-rated 150 bolt flange 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 with a total open area of 632cm².



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