

# Aurora 400 Series

## SPLIT CASE PUMPS



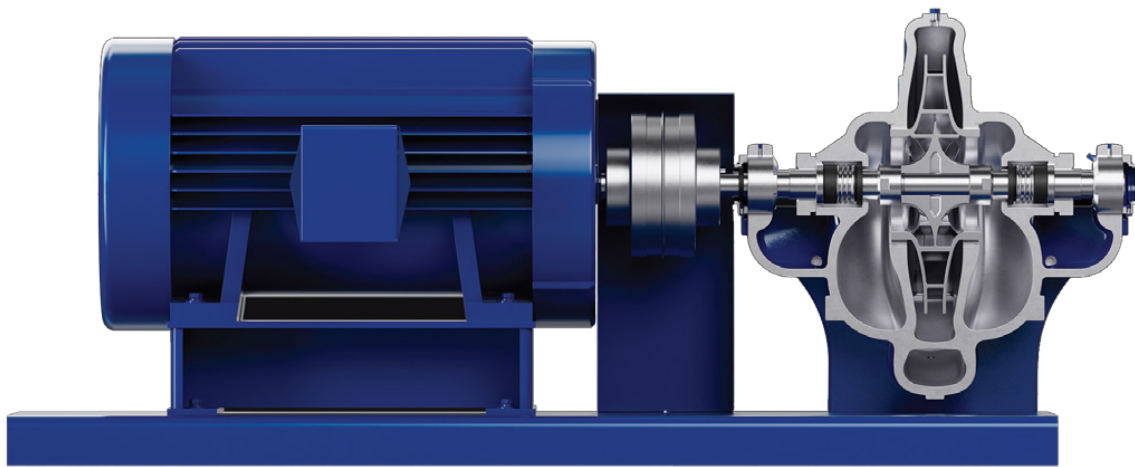
410 Series



420 Series

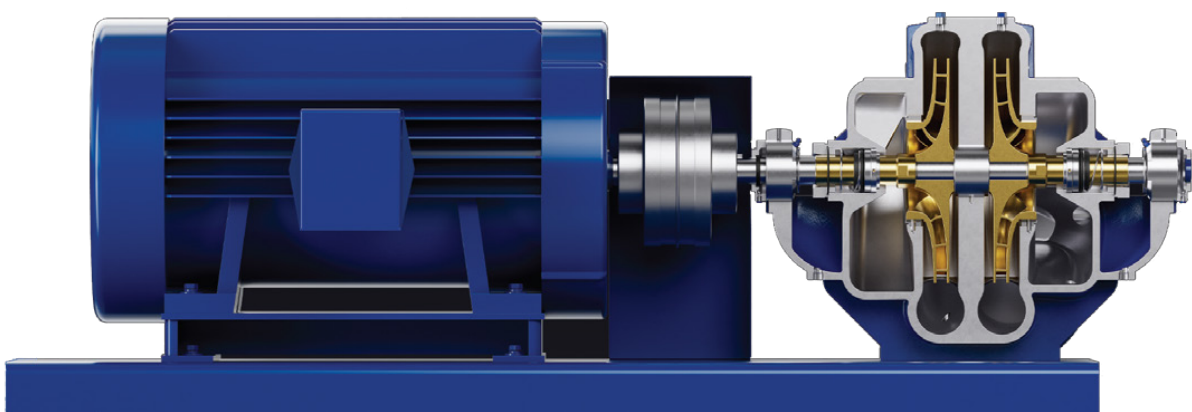
# UNYIELDING PERFORMANCE FROM TRUSTED TECHNOLOGY

Backed by over a century of innovation, the **Pentair Aurora® 400 Series** delivers reliable commercial pumping performance in the toughest applications. Our full line of single and multistage models is built to last using high-quality materials and protective design elements that help keep pumps operational.



## 410 SERIES

These single-stage pumps combine modern performance with a trusted, reliable design. They are best for installations with small- to medium-scale pumping needs.



## 420 SERIES

420 Series pumps are designed to maximize the life of bearings, pumps, and other key pump components. These models offer increased flow rates and pressure ranges for demanding municipal, industrial, and commercial water systems.

## ▶ 400 SERIES

Max Flow

15,000 GPM (3,407 M<sup>3</sup>/HR)

Max Head

663 FT (202 M)

Max Temp

275°F (135°C)

### DURABILITY

- ◆ Bronze fitted pump construction + shaft sleeves
- ◆ Bronze case wearing rings
- ◆ Stainless steel impeller key
- ◆ Graphite and TFE lubricated acrylic packing<sup>1</sup>
- ◆ Interwoven graphite + Teflon™ lubricated acrylic yarn packing rings<sup>2</sup>
- ◆ Carbon steel shaft
- ◆ Water slingers and grease seals
- ◆ All-iron or alloy pump construction<sup>3</sup>
- ◆ Hardened 440C stainless steel shaft sleeves (packing only)<sup>3</sup>
- ◆ 316 stainless steel shaft sleeves<sup>3</sup>
- ◆ Impeller wear rings<sup>3</sup>
- ◆ Stainless steel shaft<sup>3</sup>
- ◆ Steel drip pan or drip rim base<sup>3</sup>
- ◆ Formed or fabricated steel base<sup>3</sup>

### APPLICATIONS

- ◆ Heating + cooling
- ◆ Boiler feed service
- ◆ Condensate service
- ◆ High-pressure water service
- ◆ Water transport + boosting

### PERFORMANCE

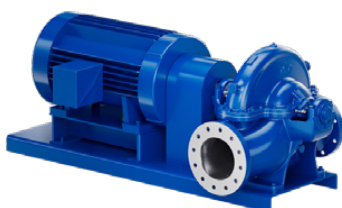
- ◆ Dynamically balanced impellers
- ◆ Twin volute on 10" and larger pumps<sup>1</sup>
- ◆ Re-greaseable ball bearings
- ◆ Inboard single-row ball bearings
- ◆ Outboard double-row ball bearings
- ◆ Single balanced mechanical seal<sup>1,3</sup>
- ◆ Single unbalanced mechanical seal<sup>2,3</sup>
- ◆ 125#/250# ANSI suction and discharge flanges available<sup>1</sup>
- ◆ 250 psi case working pressure
- ◆ Stuffing box bushings
- ◆ Lifting lugs
- ◆ Hydrostatic testing
- ◆ Cast integral bearing arms
- ◆ Coupling guard<sup>2</sup>
- ◆ Oil lubricated ball bearings<sup>2</sup>
- ◆ Double extended shaft model<sup>2,3</sup>
- ◆ Right- or left-handed rotation<sup>3</sup>
- ◆ Certified performance testing<sup>3</sup>
- ◆ Water-cooled cartridge caps<sup>1,3</sup>
- ◆ Water-cooled bearings<sup>3,4</sup>

<sup>1</sup> Single stage models

<sup>2</sup> Select models

<sup>3</sup> Optional features

<sup>4</sup> Multistage models



**410 Series**



**420 Series**

**410 Series Only**

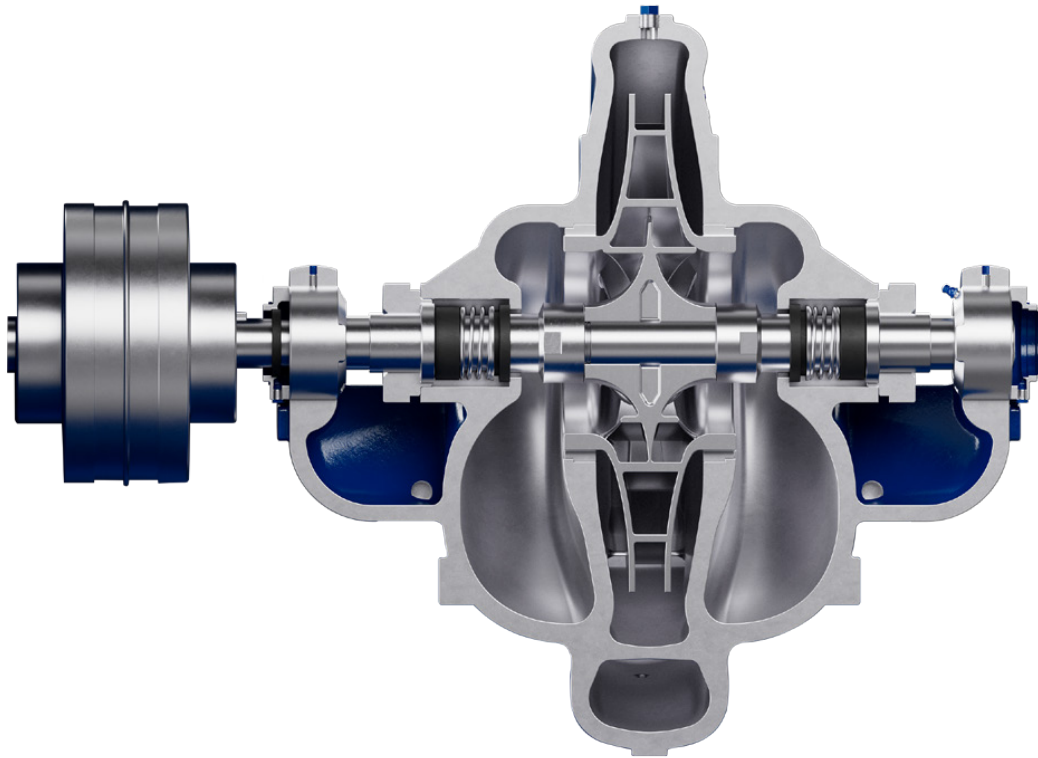
**NSF50**  
CERTIFIED\*

**NSF61**  
CERTIFIED\*

**NSF372**  
CERTIFIED\*

\*Optional

## ► 410 SERIES — SINGLE STAGE



**Split case design** makes it easy to remove upper casing without disturbing suction and discharge for simpler servicing and inspection.

**Dynamically balanced impeller** is keyed to the shaft and secured by adjustable shaft sleeve.

**Bronze shaft sleeve** extends the entire length of each stuffing box to prevent shaft wear.

**Interchangeable stuffing boxes** come equipped with 303 stainless steel parts and Buna-N® elastomers for a longer pump life.

**Mechanical seals** are included in standard constructions and include carbon against ceramic face for optimal hot water performance.

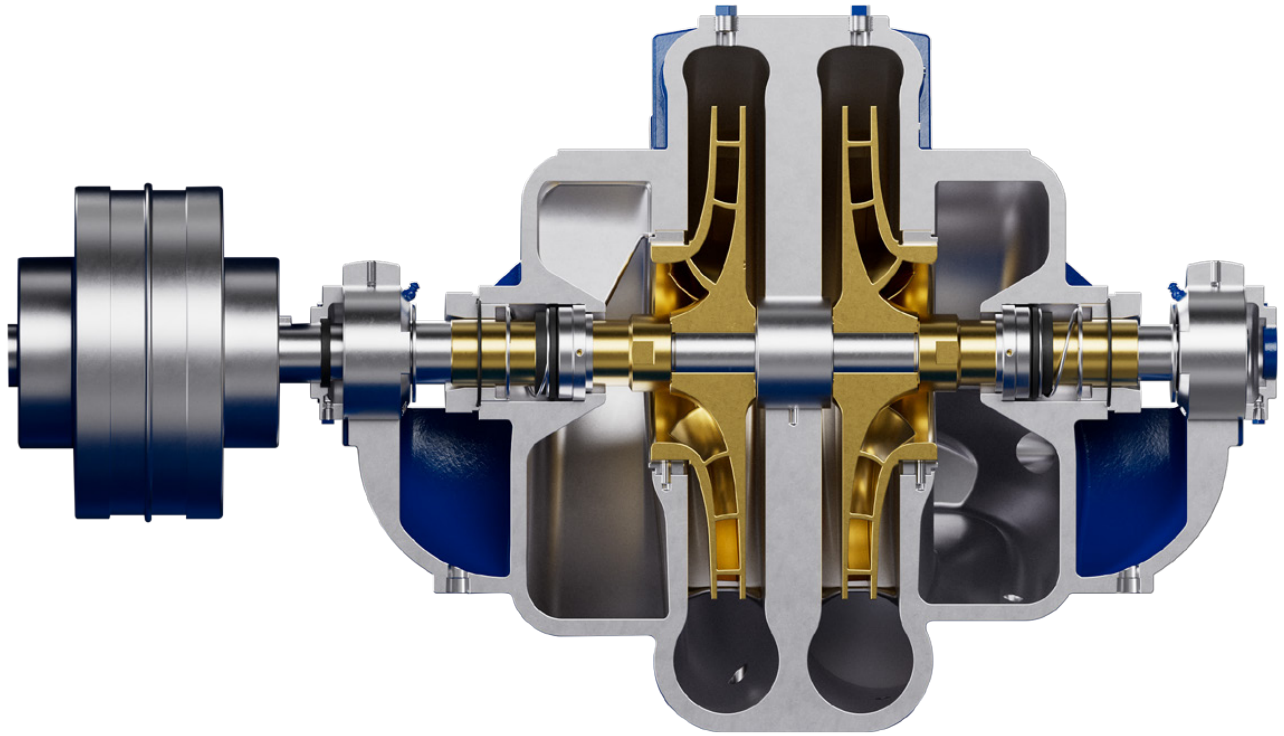
### **LIFECYCLE SUPPORT FOR YOUR PUMP**

When it's time to service your pump equipment with replacement parts, there's no room to gamble on unknown suppliers. We carry thousands of genuine OEM parts tailored to Pentair pumps and ready to ship quickly.

### **HYDRONIC ACCESSORIES**

Get the most out of your system with a wide range of hydronic accessories that can help boost performance and reliability.

## ► 420 SERIES — MULTISTAGE



**Grease lubrication bearings** are conveniently located for quick access and outfitted with oil seals and non-sparking neoprene rotating slingers to protect bearings during operation and washdowns.

**High-load bearings** provide a minimum of 50,000 hours of performance at maximum load thanks to double-row thrust ball bearings and arms that help eliminate misalignment.

**Left-hand rotation** is available with standard parts.

**Performance certification** with positive suction pressure or suction lift is available on each pump for customer approval. All pumps are hydrostatically tested for optimal performance.

**Case wearing rings** prevent wear on pump casing and are easy and cost-effective to replace.

### 400 SERIES OPTIONAL ADDS

**O-Ring seals** on the impeller and shaft sleeves help prevent shaft corrosion, reducing the need for high-cost specialty materials.

**Teflon™ coating** on multistage model shaft sleeves and impellers help reduce corrosion in high head applications.

**Computer-machined components** with 360° registered fits assure part concentricity.

**Twin volute design** on single stage models balances radial hydraulic thrust loads on large split case pumps (see range charts).

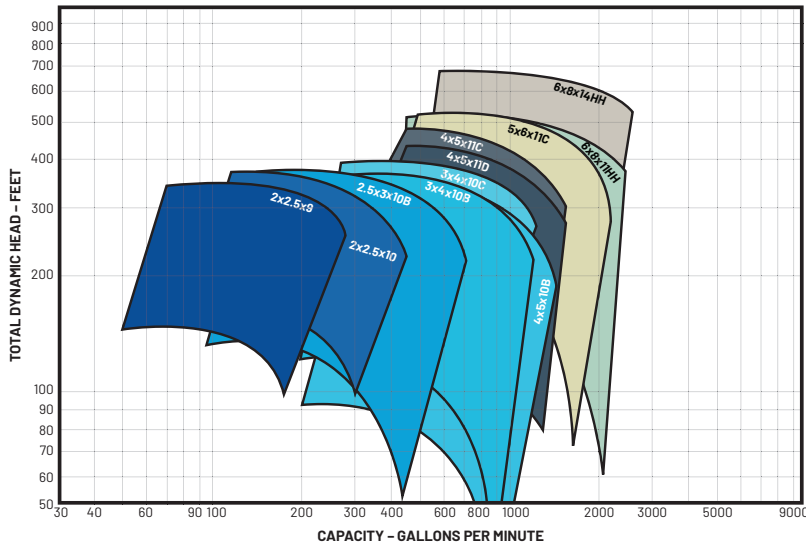
**Optional lantern rings** use internal water seal passages between casing and stuffing boxes to help prevent damage.

**Short bearing span** holds shaft deflection to .002" at the face of the stuffing box at maximum load.

**Mechanical seals** are included in standard constructions and include carbon against ceramic face for optimal hot water performance.



## ► 410 SERIES – SINGLE STAGE

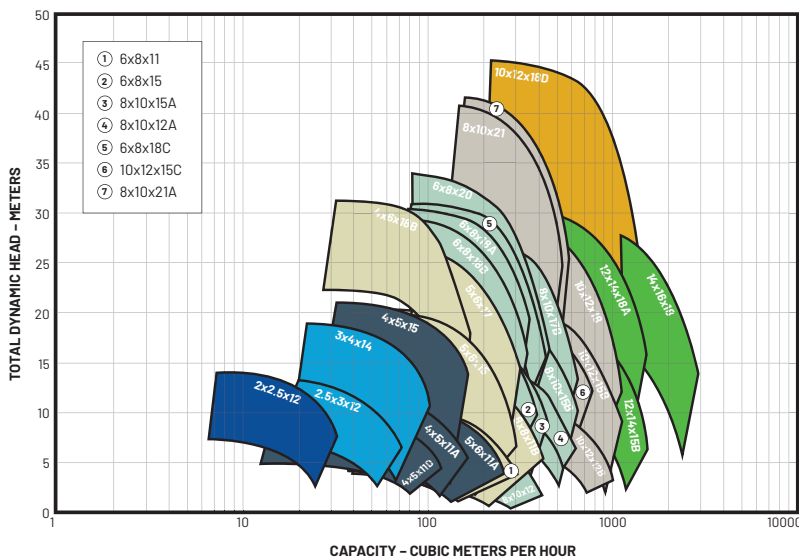


### SINGLE VOLUTE 3500 RPM

Individual performance curves should be checked for final selection.

For selections not shown on this chart, please refer to the factory.

Power Frame No. 1	Power Frame No. 4
Power Frame No. 2	Power Frame No. 5
Power Frame No. 3	Power Frame No. 6



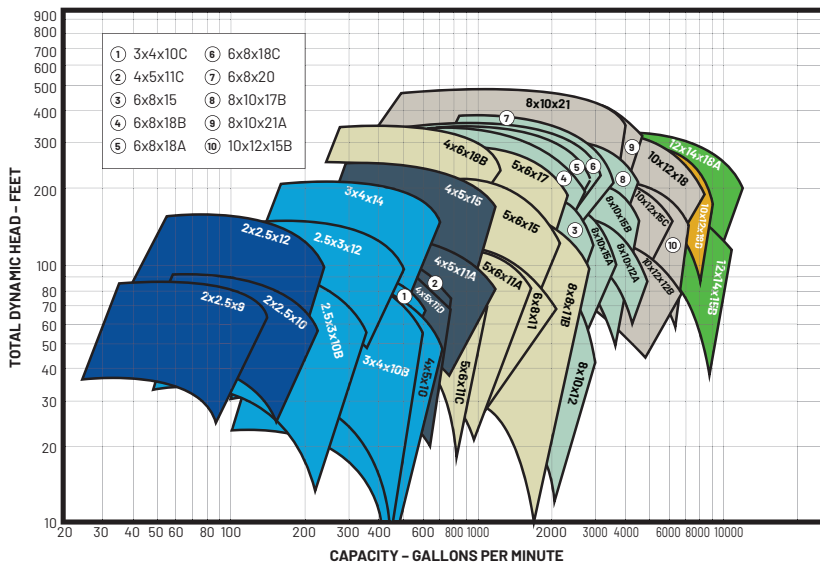
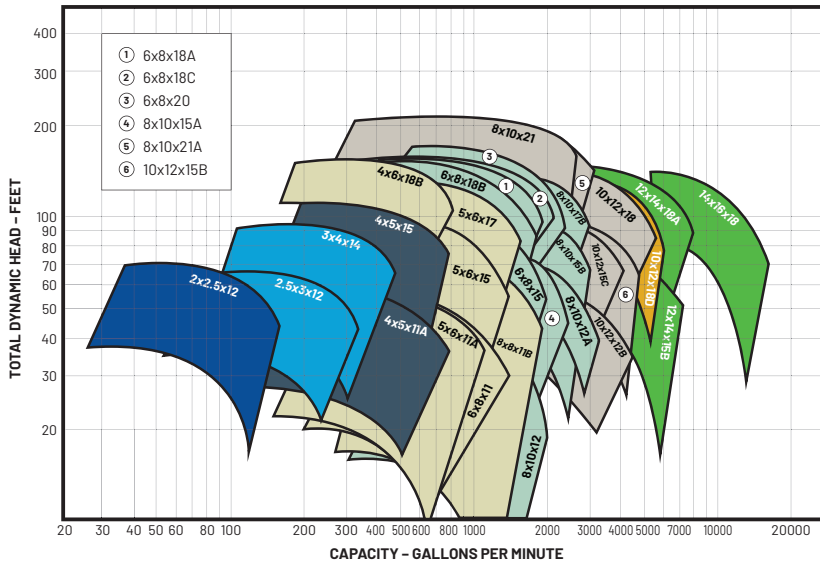
### 1000 RPM

Individual performance curves should be checked for final selection.

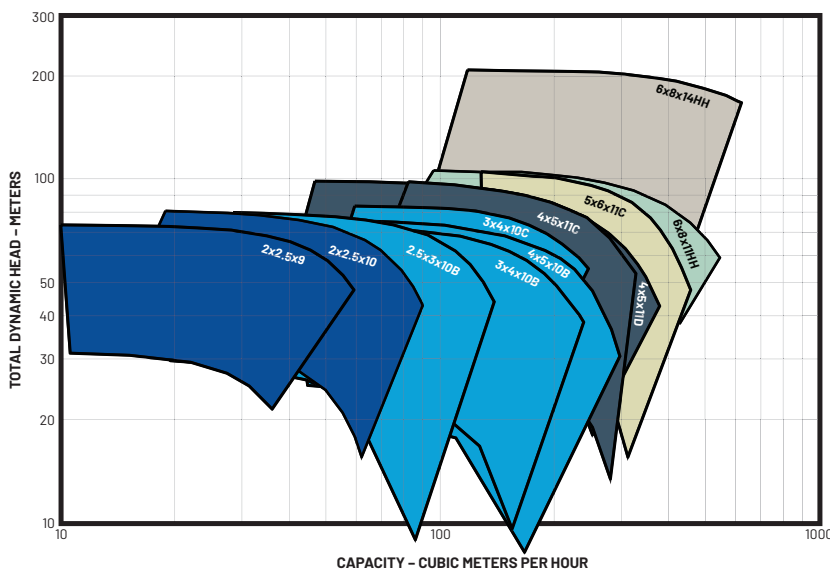
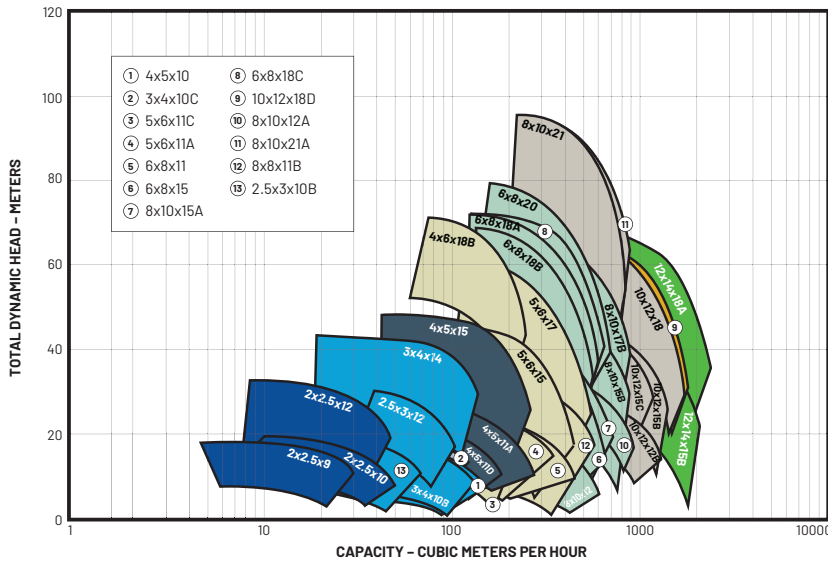
For selections not shown on this chart, please refer to the factory.

Power Frame No. 1	Power Frame No. 5
Power Frame No. 2	Power Frame No. 6B
Power Frame No. 3	Power Frame No. 7
Power Frame No. 4	Power Frame No. 7A

## ► 410 SERIES – SINGLE STAGE

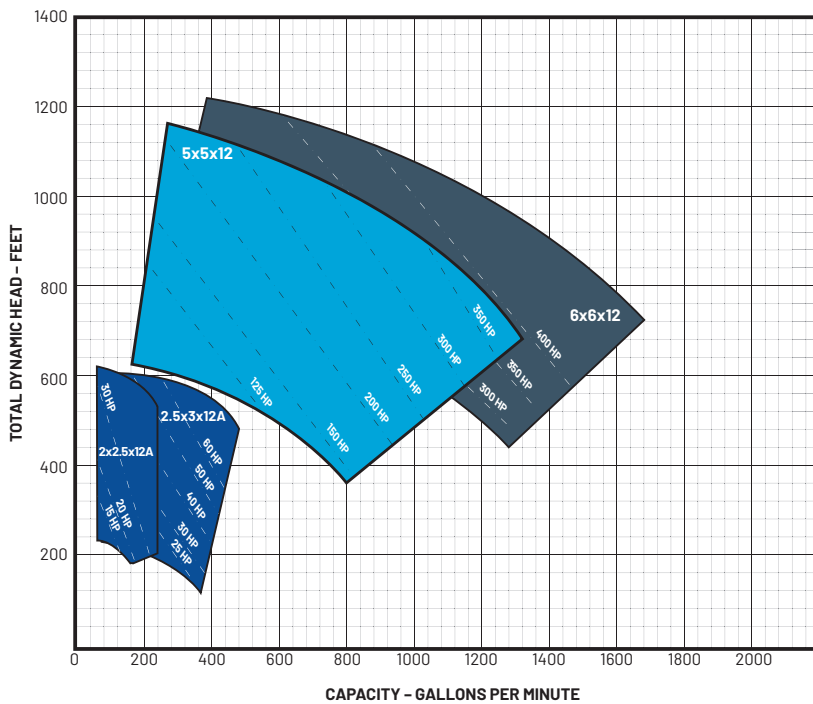


## ► 410 SERIES – SINGLE STAGE





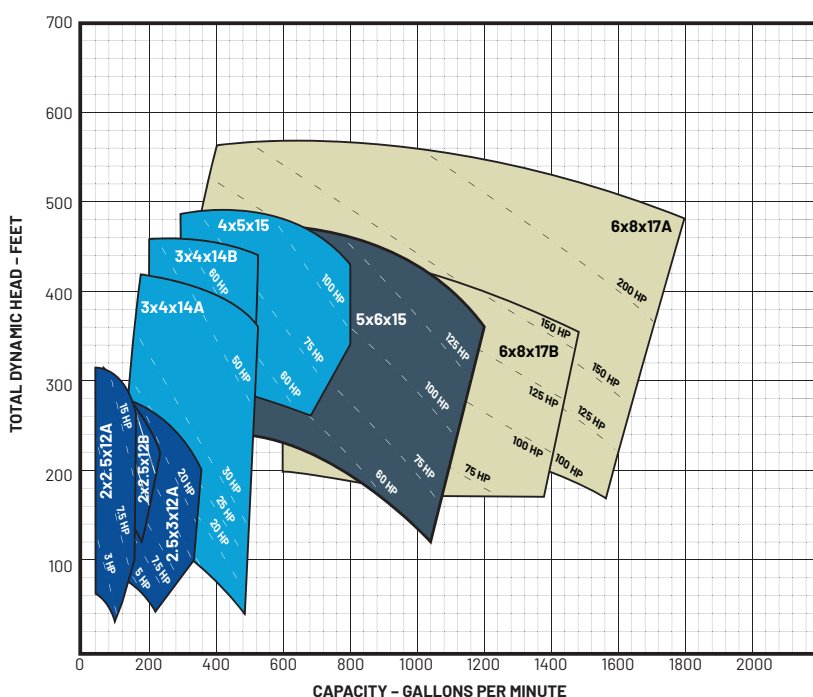
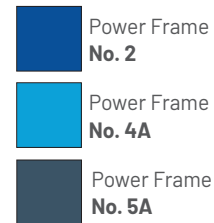
## ► 420 SERIES – MULTISTAGE



### 3600 RPM

Individual performance curves should be checked for final selection.

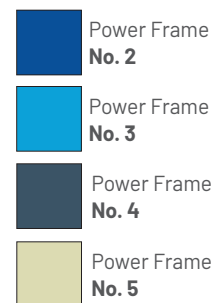
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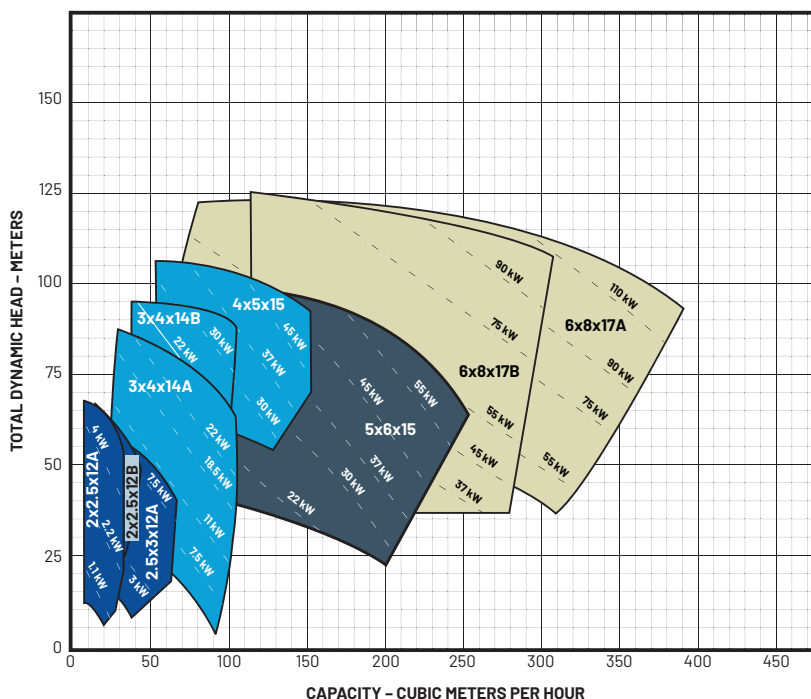
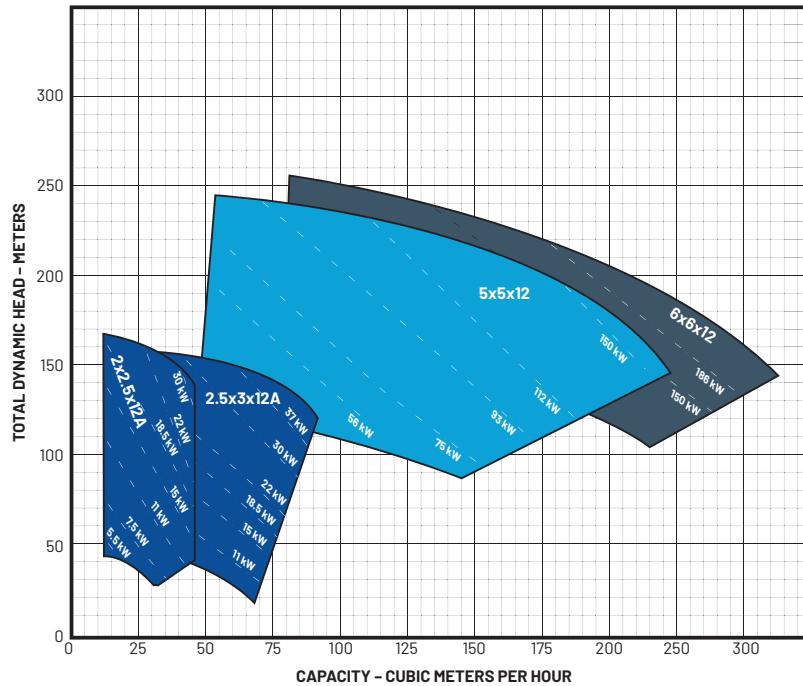
**1800 RPM**

Individual performance curves should be checked for final selection.

For selections not shown on this chart,  
please refer to the factory.



## ► 420 SERIES – MULTISTAGE



TO HELP GET YOUR PUMP BACK TO FACTORY CONDITIONS

Our three most popular kits have the parts your pump needs to get back to full strength. Shipping from our factory in North Aurora, Illinois, these OEM kits are made to fit your specific Aurora pump.

Repair Kit includes  
mechanical seal  
and gasket

Overhaul Kit includes  
mechanical seal, gasket  
and sleeves

Rotating Assembly  
includes all the internal  
parts you need to easily  
rebuild your pump

Parts Included	Repair Kit	Overhaul Kit	Rotating Assembly
Gasket	•	•	•
Mechanical Seal	•	•	•
Sleeves		•	•
Shaft			•
Impeller			•



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Dandenong South, Vic 3175

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Web:	<a href="http://pentair.com.au">pentair.com.au</a> , <a href="http://onga.com.au">onga.com.au</a>

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