



# PUMPS

**Updated September 2025**

# INTELLIFLO3® VSF

## VARIABLE SPEED AND FLOW POOL PUMP

TRADEGRADE



Optional touchscreen for more flexible control.



IntelliFlo3 3.0 HP  
Variable Speed & Flow Pump

IntelliFlo3 1.5 HP  
Variable Speed & Flow Pump

### Featured Highlights

- Proprietary flow technology maintains the pool's optimal flow
- Easy control via the Pentair Pool app or optional touchscreen
- Up to 90% energy savings\*
- New motor, drive, and hydraulics
- Optional onboard automation
- Easy setup and remote updates



Pentair Pool app:  
pool owners can access the  
pool anytime, anywhere.



Pentair Pro app:  
ability to control and  
remotely monitor.

This pump combines true set-it-and-forget-it patented flow technology paired with smart connectivity of the Pentair Pool app. The proprietary combination of variable speed plus auto-regulated flow means all good things flow from the IntelliFlo3 pool pump—for your customers and for your business. Small pool or big, this pump is a simple, smart, worry-free way to give pool owners the effortless, inviting pool experience they expect.

### Ordering Information

| PART #                                                             | DESCRIPTION                                              | THP | WEF <sup>1</sup> | Maximum Input Voltage | Frequency      | Full Load Amps  | Port Size (NPT)                              | Weight | Certification <sup>2</sup>         |
|--------------------------------------------------------------------|----------------------------------------------------------|-----|------------------|-----------------------|----------------|-----------------|----------------------------------------------|--------|------------------------------------|
| <b>INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP (3 HP MODEL)</b>  |                                                          |     |                  |                       |                |                 |                                              |        |                                    |
| 011075                                                             | IntelliFlo3 VSF 3.0 HP*                                  | 3   | 7.1              | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 011076                                                             | IntelliFlo3 VSF 3.0 HP with relay board*                 | 3   | 7.1              | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 011077                                                             | IntelliFlo3 VSF 3.0 HP with touchscreen*                 | 3   | 7.1              | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 011078                                                             | IntelliFlo3 VSF 3.0 HP with touchscreen and relay board* | 3   | 7.1              | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| <b>INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP (1.5HP MODEL)</b> |                                                          |     |                  |                       |                |                 |                                              |        |                                    |
| 011065                                                             | IntelliFlo3 VSF 1.5 HP*                                  | 1.5 | 9.4              | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 011066                                                             | IntelliFlo3 VSF 1.5 HP with relay board*                 | 1.5 | 9.4              | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 011067                                                             | IntelliFlo3 VSF 1.5 HP with touchscreen*                 | 1.5 | 9.4              | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 011068                                                             | IntelliFlo3 VSF 1.5 HP with touchscreen and relay board* | 1.5 | 9.4              | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |

<sup>1</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

\*Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

#### CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: Cancer and Reproductive Harm.  
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et des Dommages au Système Reproducteur.  
⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.pfswarnings.ca.gov](http://www.pfswarnings.ca.gov)

SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIFLO3® VSF

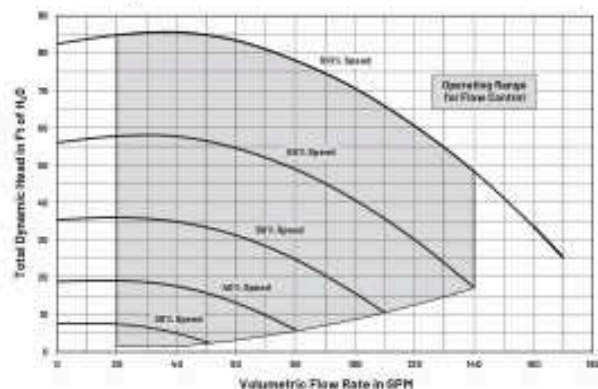
## VARIABLE SPEED AND FLOW POOL PUMP (CONT'D)

### Ordering Information

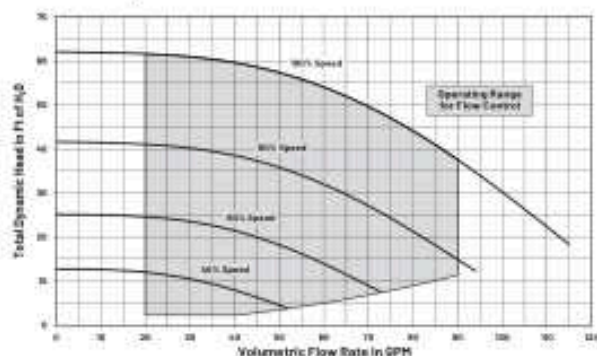
| PART #              | DESCRIPTION                                                                            |
|---------------------|----------------------------------------------------------------------------------------|
| INTELLIFLO3 ADD-ONS |                                                                                        |
| 356159Z             | IntelliFlo3 VSF Universal Touchscreen Add-On                                           |
| 356365Z             | IntelliFlo3 VSF Optional Universal Relay Board Kit                                     |
| 358163Z             | 50 ft 2 Conductor Automation Cable                                                     |
| 410009              | 2.5" Sweep Elbow Pump Kit                                                              |
| 410029              | 3" Union Kit for 3 HP Pumps                                                            |
| 351157              | 1-1/2" Internal Slip x 2" External Slip Union Kit for 1.5 HP Pumps (includes 2 unions) |
| 357831Z             | Retrofit Riser Base Kit for 1.5 HP Models—IntelliFlo and WhisperFlo Models             |
| 357832Z             | Retrofit Riser Base Kit for 1.5 HP Models—IntelliPro, Max-E-Pro, and Challenger Models |
| 357833Z             | Retrofit Riser Base Kit for 3.0 HP Models—IntelliPro, Max-E-Pro, and Challenger Models |

### Dimensions and Performance

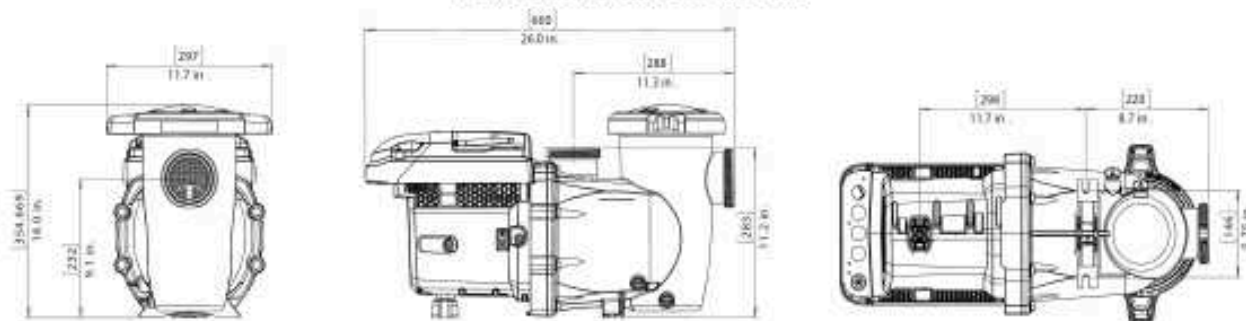
Pump Performance Curves (3 HP Models)



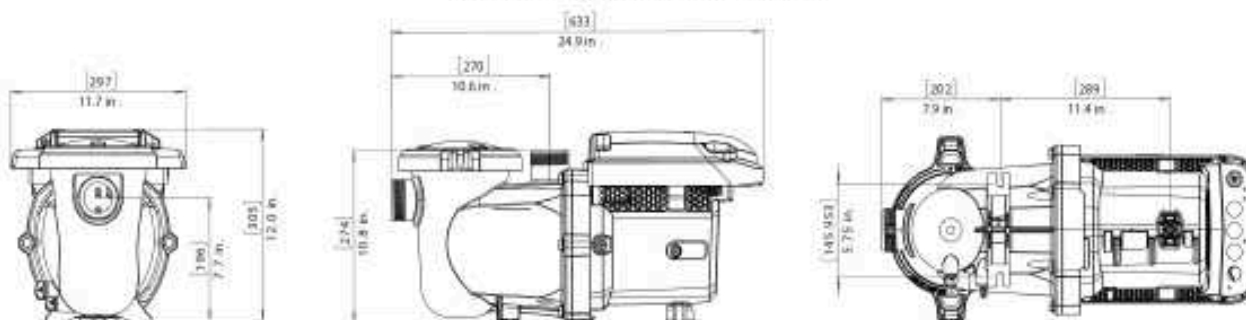
Pump Performance Curves (1.5 HP Models)



Pump Dimensions (3 HP Models)



Pump Dimensions (1.5 HP Models)



SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIFLO® VS+SVRS

## HIGH PERFORMANCE PUMPS



IntelliFlo VS+SVRS  
High Performance Pump

Patent Information: [www.pentair.com/patents](http://www.pentair.com/patents)

IntelliFlo pumps combine variable speed technology, onboard digital intelligence and permanent magnet motors (used in hybrid cars) to reduce pump-related energy costs by up to 90%\* compared to a single-speed pump. The IntelliFlo VS+SVRS pump includes a built-in Safety Vacuum Release System that detects drain blockage and automatically shuts the pump off.

### Featured Highlights

- Ability to program exact pump speeds for specific operations – filtering, heating, cleaning, spa jets, water features, and more
- SVRS complies with Virginia Graeme Baker Safety Act
- Built-in diagnostics helps protect the IntelliFlo pump from the most common causes of premature failure by alerting of the issue – overheating, freezing, and voltage irregularities
- Includes priming protection. No SVRS calibrations needed. Built-in SVRS cannot be turned off
- Safety lock-out feature (password protected) prevents pump speed settings from being changed by unauthorized personnel
- Ability to set minimum and maximum speeds so pump will only operate within the ranges set to help assure suitable operation for a longer life
- Compatible with Pentair Automation Systems
- Compliant with the current ASME A112.19.17 Standard for Safety Vacuum Release Systems (SVRS)
- Operates seamlessly on 50 hz or 60 hz input power. Flow/speed are constant when operating on 50hz or 60 hz

### Ordering Information

| Product                                                           | Description                                                           | THP  | WEF | HHP  | Service Factor | Voltage | Frequency | Current | Port Size                                       | Weight | Certifications <sup>1</sup>        |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|------|-----|------|----------------|---------|-----------|---------|-------------------------------------------------|--------|------------------------------------|
| ENERGY EFFICIENT VARIABLE SPEED WITH SAFETY VACUUM RELEASE SYSTEM |                                                                       |      |     |      |                |         |           |         |                                                 |        |                                    |
| 011057                                                            | IntelliFlo VS+SVRS                                                    | 3.95 | 6.9 | 1.88 | 1.0            | 230     | 50/60     | 16.0    | 2" x 2"                                         | 53     | UL <sup>1</sup> , NSF <sup>2</sup> |
| ACCESSORIES                                                       |                                                                       |      |     |      |                |         |           |         |                                                 |        |                                    |
| 350122Z                                                           | Communication Cable - 50 ft - Included with pump                      |      |     |      |                |         |           |         |                                                 |        | 2                                  |
| 356198                                                            | Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit                |      |     |      |                |         |           |         |                                                 |        | 1                                  |
| UNIONS                                                            |                                                                       |      |     |      |                |         |           |         |                                                 |        |                                    |
| 11201-0154                                                        | 2 in. x 2 in. Union (2 in. NPT male x 2 in. female NPT quick connect) |      |     |      |                |         |           |         | Note: two required per pump (sold individually) |        | 2                                  |

<sup>1</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

Note: Pump must be used with current collectors when installed on spas or hot tubs in Canada.

• Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

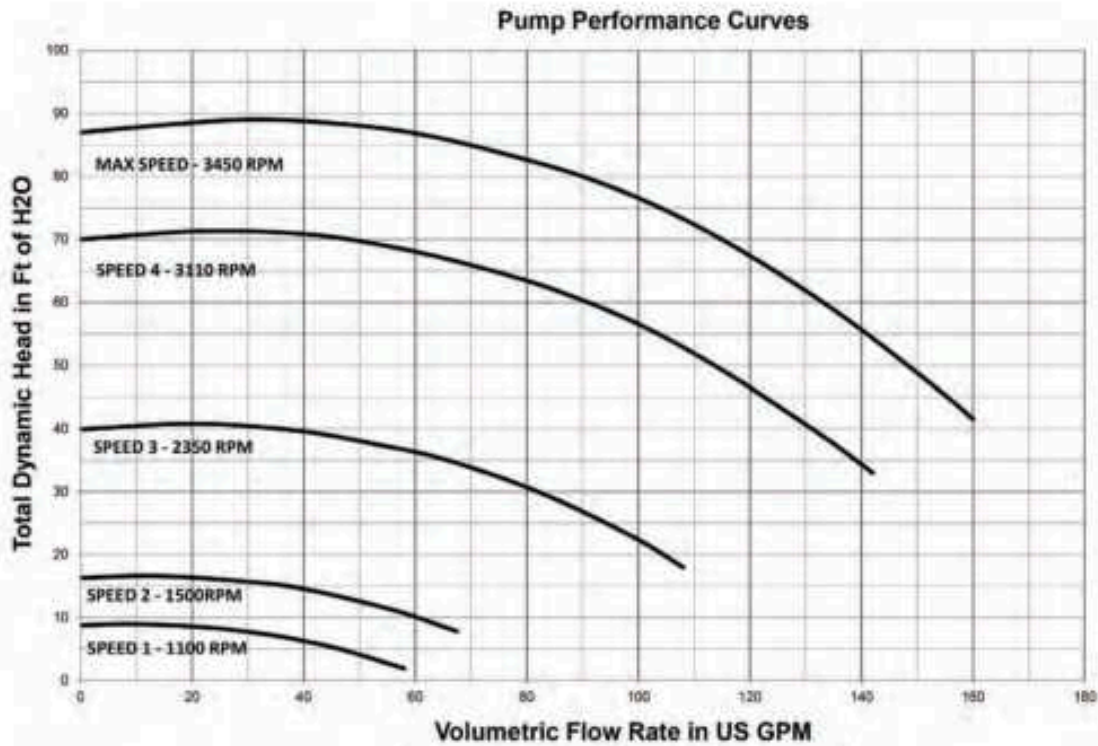
Refer to catalog page 23 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to Current NEC Standards for Pool Pumps.



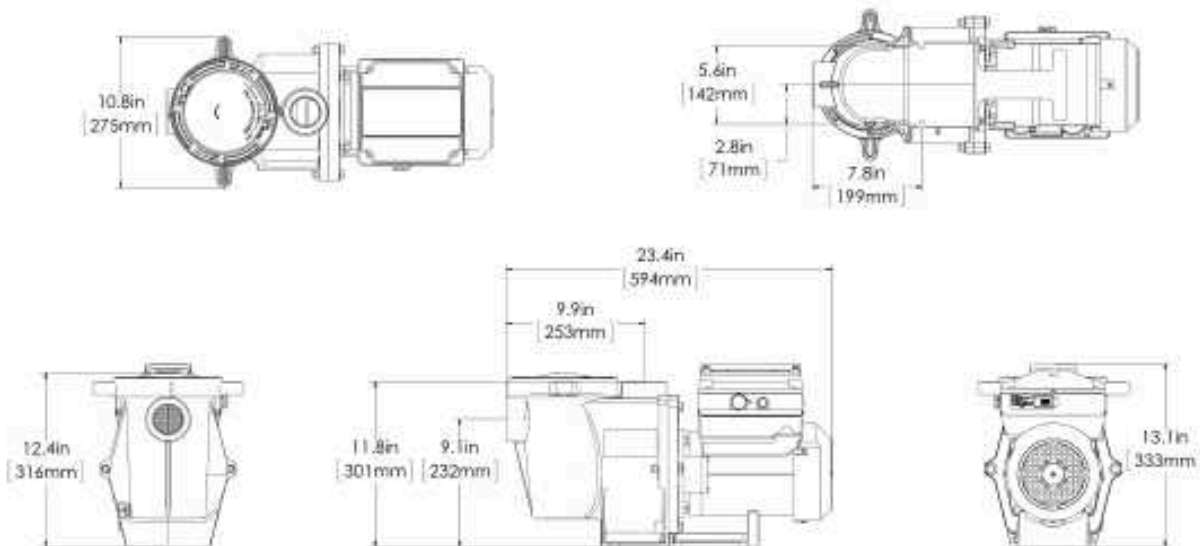
SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIFLO® VS+SVRS HIGH PERFORMANCE PUMPS (CONT'D)

## Dimensions and Performance



**Note:** IntelliFlo VS+SVRS minimum speed is 1100 RPM



**CALIFORNIA PROPOSITION 65 WARNING**

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SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIFLOXF® VSF

## VARIABLE SPEED AND FLOW PUMP

TRADEGRADE



**IntelliFloXF VSF**  
Variable Speed and Flow Pump

The IntelliFloXF VSF pump has built-in sensorless flow control that enables the pump to automatically adjust to changes in system conditions to maintain its programmed flow rate. With its available performance and efficiency, it is perfectly suited for large and feature-rich pools with high flow demand to power waterfalls, slides, negative edges, and more.

### Featured Highlights

- Eight programmable speed or flow settings and built-in timer
- Rotatable keypad with optional wall mount kit (sold separately)
- Top-mounted field wiring compartment is easier to access and connect
- Totally enclosed fan-cooled design keeps motor shielded from the elements for extended life
- Menus are easier than ever to use
- Union connectors included for connecting directly to 2.5" or 3" plumbing
- Maintains system flow requirements
- Compatible with Pentair automation systems

### Ordering Information

| Product                                                               | Description                                                                                                           | THP  | WEF | HHP  | Service Factor | Voltage | Frequency | Current | Port Size | Weight | Certifications <sup>1</sup>        |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------|-----|------|----------------|---------|-----------|---------|-----------|--------|------------------------------------|
| <b>INTELLIFLOXF VSF ENERGY EFFICIENT VARIABLE SPEED AND FLOW PUMP</b> |                                                                                                                       |      |     |      |                |         |           |         |           |        |                                    |
| 022058                                                                | IntelliFloXF VSF                                                                                                      | 3.95 | 5.6 | 2.10 | 1.0            | 230     | 50/60     | 16.0    | 2" x 2"   | 60     | UL <sup>1</sup> , NSF <sup>2</sup> |
| <b>ACCESSORIES</b>                                                    |                                                                                                                       |      |     |      |                |         |           |         |           |        |                                    |
| 400012                                                                | XF Riser Base - Simplifies installation of XF-series pumps in applications where Challenger pumps are being replaced. |      |     |      |                |         |           |         |           |        |                                    |
| 350122                                                                | Communication Cable - 50 ft. - Included with pump                                                                     |      |     |      |                |         |           |         |           | 2      |                                    |
| 356904Z                                                               | Keypad Relocation Kit                                                                                                 |      |     |      |                |         |           |         |           | 2      |                                    |
| 410009                                                                | 2.5" Sweep Elbow Pump Kit                                                                                             |      |     |      |                |         |           |         |           |        |                                    |

<sup>1</sup> UL indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> NSF indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

Note: Pump must be used with current collectors when installed on spas or hot tubs in Canada.

Patent information: [www.pentair.com/patents](http://www.pentair.com/patents)

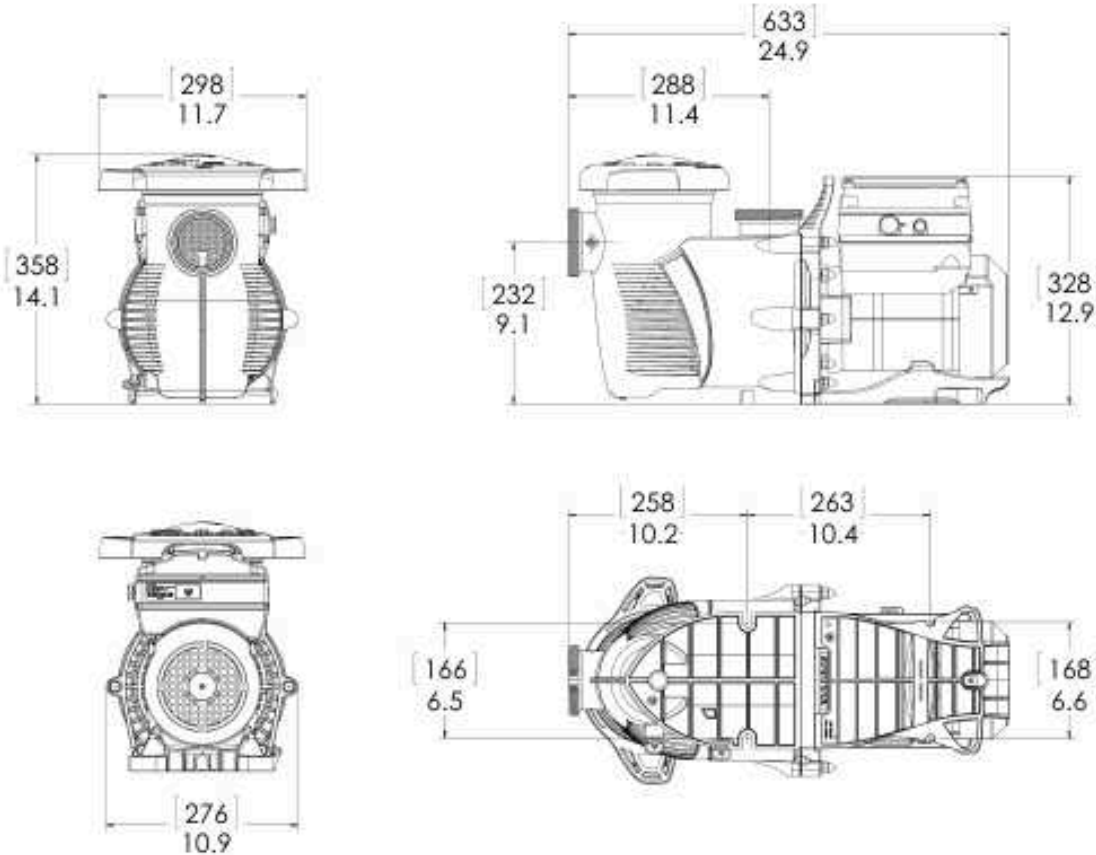
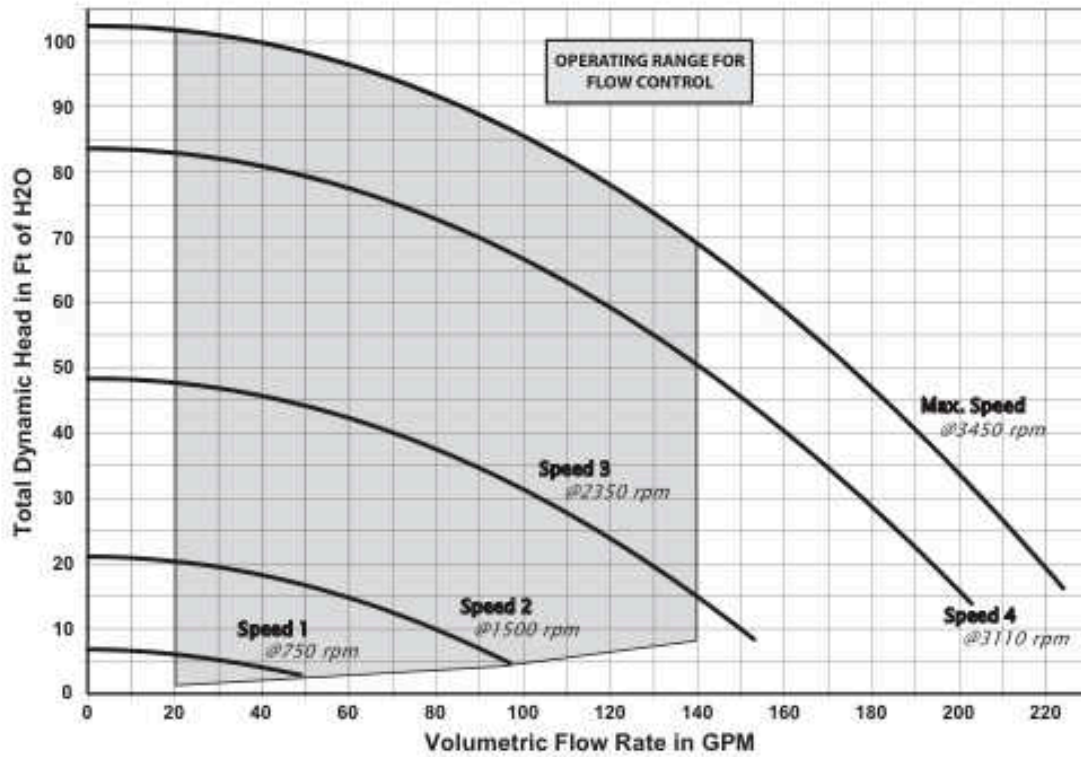
Refer to catalog page 23 for a selection of 2-Pole GFCI breakers which offer 6 millamp personnel protection while meeting 2008 to current NEC Standards for Pool Pumps.



SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIFLOX<sup>®</sup> VSF VARIABLE SPEED AND FLOW PUMP (CONT'D)

## Dimensions and Performance



# WHISPERFLOXF®

## HIGH PERFORMANCE PUMPS

### TRADEGRADE



WhisperFloXF Pump  
shown with TEFC Motor

Developed using advanced engineering tools - CFD (Computational Fluid Dynamics) and FEA (Finite Element Analysis). The impeller design delivers high level of precision concentricity for efficiency.

### Featured Highlights

- Drop-in replacement for all WhisperFlo® Pump models: Simple replacement for Challenger® Pumps.\*
- Union connectors included for connecting directly to 2.5 in. or 3 in. plumbing
- Extra large, robust basket with smooth surface for easy debris removal
- Easy-carry handle; easily removable ergonomic lock ring; and see-through lid for easy basket inspection
- Three-Phase XF pumps are compatible with Pentair's Acu Drive XS VFDs

\*Optional riser base for Challenger pump replacements. Part # 400012 available separately.

### Ordering Information

| Product                                   | Rated HP | THP  | WEF | HHP | Service Factor | Voltage     | Frequency | Current       | Port Size              | Weight | Certifications <sup>1</sup>        | Curve Key |
|-------------------------------------------|----------|------|-----|-----|----------------|-------------|-----------|---------------|------------------------|--------|------------------------------------|-----------|
| COMMERCIAL SINGLE-SPEED TEFC              |          |      |     |     |                |             |           |               |                        |        |                                    |           |
| 022034                                    | 5        | 5    | N/A | N/A | 1.00           | 208-230     | 60        | 20.0-18.8     | 2.5" x 2.5" or 3" x 3" | 67     | UL <sup>1</sup> , NSF <sup>2</sup> | A         |
| TEFC SINGLE-SPEED—NOT FOR SALE IN THE USA |          |      |     |     |                |             |           |               |                        |        |                                    |           |
| 022032-INT                                | 2        | 2.60 | N/A | N/A | 1.30           | 208-230     | 60        | 11.1-9.5      | 2.5" x 2.5" or 3" x 3" | 57     | UL <sup>1</sup> , NSF <sup>2</sup> | D         |
| 022033-INT                                | 3        | 3.45 | N/A | N/A | 1.15           | 208-230     | 60        | 14.6-12.7     | 2.5" x 2.5" or 3" x 3" | 61     | UL <sup>1</sup> , NSF <sup>2</sup> | B         |
| THREE-PHASE SUPER-DUTY                    |          |      |     |     |                |             |           |               |                        |        |                                    |           |
| 022017                                    | 2        | 2.6  | N/A | N/A | 1.30           | 208-230/460 | 60        | 7.5-7.2/3.6   | 2.5" x 2.5" or 3" x 3" | 60     | UL <sup>1</sup> , NSF <sup>2</sup> | I         |
| 022018                                    | 3        | 3.25 | N/A | N/A | 1.15           | 208-230/460 | 60        | 9.6-9.4/4.7   | 2.5" x 2.5" or 3" x 3" | 60     | UL <sup>1</sup> , NSF <sup>2</sup> | H         |
| 022019                                    | 5        | 5.00 | N/A | N/A | 1.00           | 208-230/460 | 60        | 13.9-13.1/6.6 | 2.5" x 2.5" or 3" x 3" | 72     | UL <sup>1</sup> , NSF <sup>2</sup> | G         |
| ACCESSORIES                               |          |      |     |     |                |             |           |               |                        |        |                                    |           |

400012 XF Riser Base - Simplifies installation of XF-series pumps in applications where Challenger pumps are being replaced.

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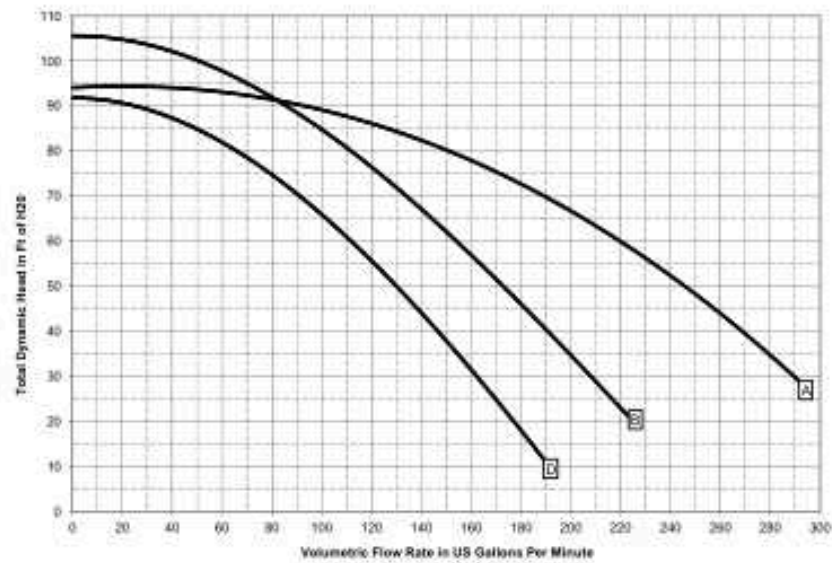
SEE PAGE 427 FOR REPLACEMENT PARTS

# WHISPERFLOX<sup>®</sup>

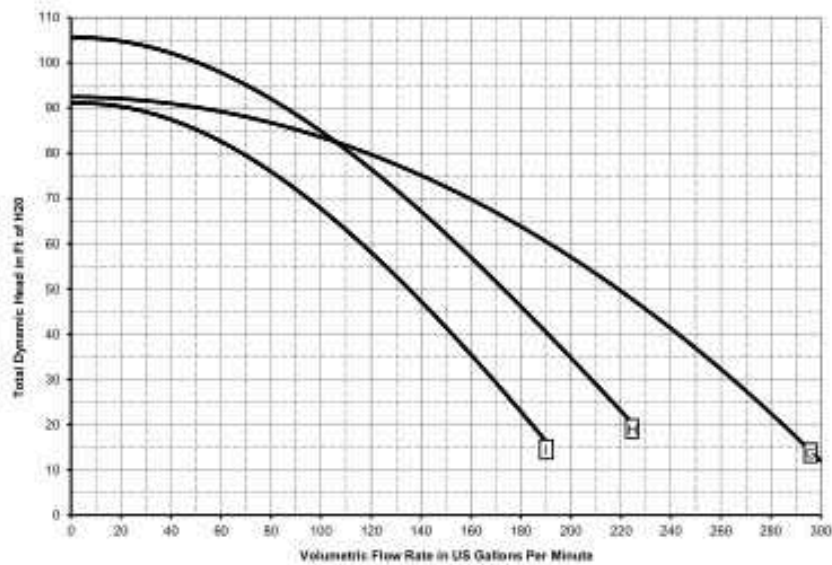
## HIGH PERFORMANCE PUMPS (CONT'D)

### Dimensions and Performance

1 & 2-Speed  
Performance  
Curve



3 Phase  
Performance  
Curve

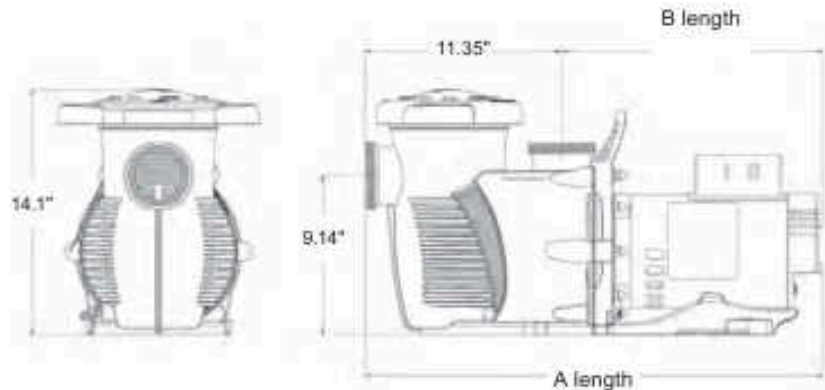


| B-VARYING LENGTH |       |       |
|------------------|-------|-------|
| HP               | TEFC  | 3-PH  |
| 2                | 13.05 | 12.35 |
| 3                | 13.65 | 13.05 |
| 5                | 14.55 | 13.85 |

| A-VARYING LENGTH |      |       |
|------------------|------|-------|
| HP               | TEFC | 3-PH  |
| 2                | 24.4 | 23.7  |
| 3                | 25   | 24.4  |
| 5                | 25.9 | 25.23 |

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SEE PAGE 427 FOR REPLACEMENT PARTS

# WHISPERFLO® VST

## VARIABLE SPEED PUMP

### TRADEGRADE



WhisperFlo VST  
Variable Speed Pump

The WhisperFlo VST pump brings features and benefits that are just right for a pool owners' needs. Ideal for new and standard pool pump replacement for pools requiring up to a 2.0 HP pump for filtration, water features, and higher head applications.

### Featured Highlights

- Variable speed technology can reduce energy costs up to 90%\*
- Improved mechanical seal and totally enclosed fan-cooled (TEFC) motor to help withstand harsh temperatures and chemicals
- RS-485 connectivity for improved interface with automation systems and IoT devices for more flexibility
- Advanced onboard digital display and real-time, 24-hour clock
- Select from three programmable speeds plus an override to meet specific needs
- Adapts to 115V to 230V and 50hz or 60hz power with no special wiring or switching

### Ordering Information

| Product                       | THP              | WEF | HHP  | Service Factor | Voltage      | Frequency | Current         | Port Size | Weight | Certifications <sup>1</sup>        |
|-------------------------------|------------------|-----|------|----------------|--------------|-----------|-----------------|-----------|--------|------------------------------------|
| WHISPERFLO VST VARIABLE SPEED |                  |     |      |                |              |           |                 |           |        |                                    |
| 011533                        | 2.6              | 8.4 | 1.64 | 1.0            | 115/208-230V | 50/60     | 13.9/11.1-10.1A | 2" x 2"   | 45     | UL <sup>1</sup> , NSF <sup>2</sup> |
| ACCESSORIES                   |                  |     |      |                |              |           |                 |           |        |                                    |
| 356324Z                       | Automation Cable |     |      |                |              |           |                 |           |        |                                    |

<sup>1</sup> "UL" indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.

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\*Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

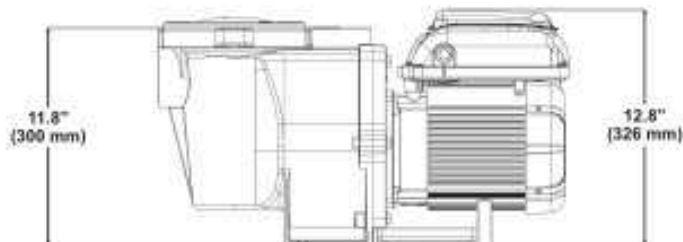
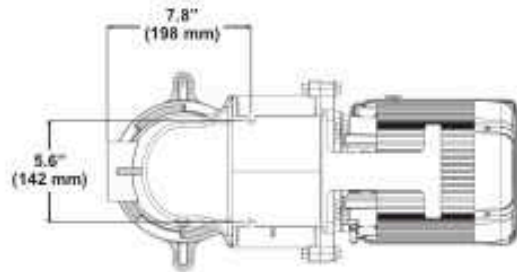
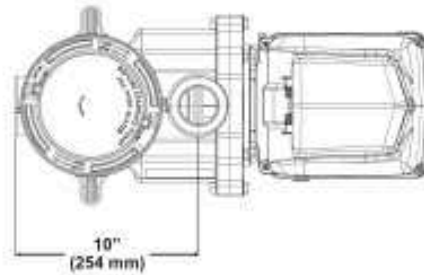
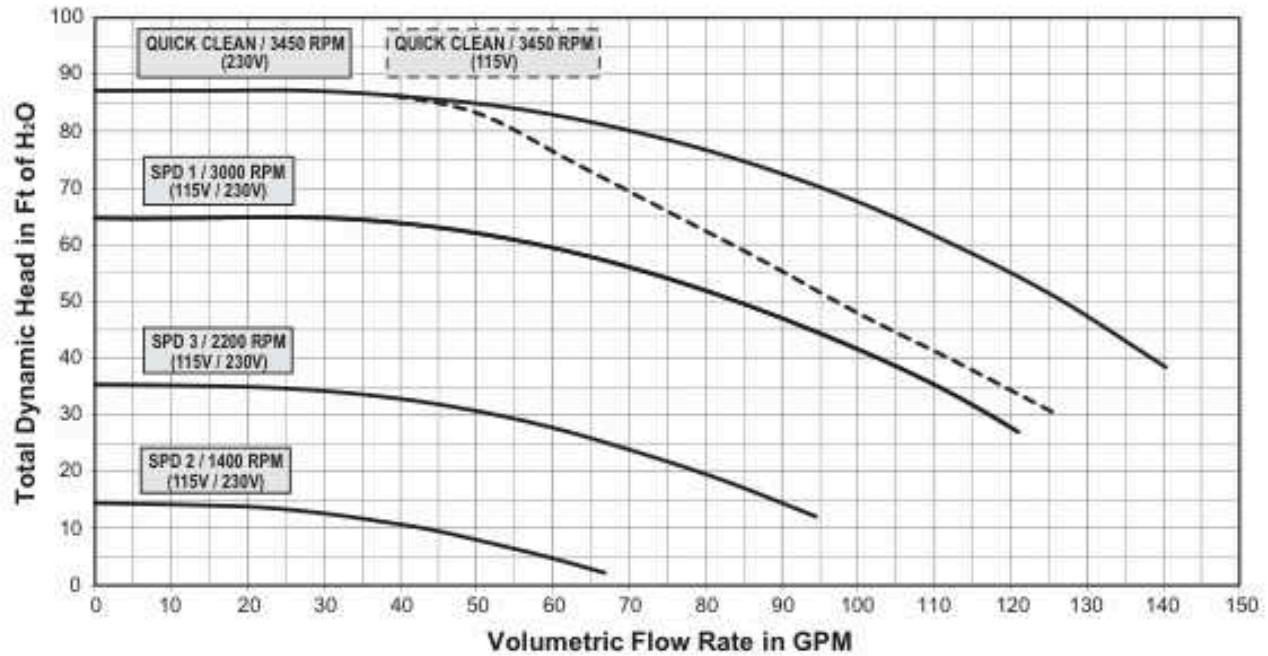
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 et des Dommages au Système Reproducteur.  
 ⚠️ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
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SEE PAGE 427 FOR REPLACEMENT PARTS

# WHISPERFLO® VST VARIABLE SPEED PUMP (CONT'D)

## Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING  
 ⚠️ WARNING: Cancer and Reproductive Harm.  
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SEE PAGE 427 FOR REPLACEMENT PARTS

# WHISPERFLO®

## HIGH-PERFORMANCE PUMPS

### TRADEGRADE



WhisperFlo Pump shown  
with TEFC Motor

Robust thermoplastic with the Cam & Ramp™ See-Through Lid design. Self-priming, high flow with Funnel-Flo™ Diffusers. 2 in. suction and discharge ports. Motor features threaded shaft and durable commercial duty 56 frame motor.

### Featured Highlights

- Oversized strainer basket and volute—industry standard in pool pumps
- TEFC Motors available
- 2" NPT suction and discharge ports.
- Compatible with all cleaning systems, various filters and jet action spas
- Heavy-duty/durable construction is designed for long life
- Designed for residential and commercial applications

### Ordering Information

| Product                                                                                                                            | Rated HP | THP  | WEF | HHP  | Service Factor | Voltage     | Frequency | Current      | Port Size | Weight | Certifications <sup>1</sup>        | Curve Key |
|------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----|------|----------------|-------------|-----------|--------------|-----------|--------|------------------------------------|-----------|
| DOE COMPLIANT SINGLE-SPEED TEFC                                                                                                    |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 015583                                                                                                                             | N/A      | 1.1  | 3.4 | 0.69 | 1.00           | 115/208-230 | 60        | 10.5/5.4-5.4 | 2" x 2"   | 50     | UL <sup>1</sup> , NSF <sup>2</sup> | E         |
| ENERGY EFFICIENT SINGLE-SPEED - NOT FOR SALE IN THE USA                                                                            |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 011512-INT                                                                                                                         | 3/4      | 1.25 | N/A | N/A  | 1.00           | 115/208-230 | 60        | 12.8/7.0-6.4 | 2" x 2"   | 44     | UL <sup>1</sup> , NSF <sup>2</sup> | F         |
| TEFC SINGLE-SPEED - NOT FOR SALE IN THE USA                                                                                        |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 011527-INT                                                                                                                         | 1        | 1.65 | N/A | N/A  | 1.00           | 115/208-230 | 60        | 15.1/8.5-7.7 | 2" x 2"   | 50     | UL <sup>1</sup> , NSF <sup>2</sup> | G         |
| 011528-INT                                                                                                                         | 1 1/2    | 2.21 | N/A | N/A  | 1.00           | 208-230     | 60        | 10.3-9.1     | 2" x 2"   | 53     | UL <sup>1</sup> , NSF <sup>2</sup> | H         |
| 011529-INT                                                                                                                         | 2        | 2.60 | N/A | N/A  | 1.00           | 208-230     | 60        | 11.7-10.3    | 2" x 2"   | 58     | UL <sup>1</sup> , NSF <sup>2</sup> | I         |
| 011530-INT                                                                                                                         | 3        | 3.45 | N/A | N/A  | 1.00           | 208-230     | 60        | 14.6-12.7    | 2" x 2"   | 62     | UL <sup>1</sup> , NSF <sup>2</sup> | J         |
| THREE-PHASE SUPER-DUTY                                                                                                             |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 011641                                                                                                                             | 1        | 1.65 | 2.9 | 1.10 | 1.65           | 208-230/460 | 60        | 4.9-4.5/2.3  | 2" x 2"   | 41     | UL <sup>1</sup> , NSF <sup>2</sup> | G         |
| 011642                                                                                                                             | 1.5      | 2.21 | 2.6 | 1.44 | 1.47           | 208-230/460 | 60        | 6.4-6.3/3.2  | 2" x 2"   | 43     | UL <sup>1</sup> , NSF <sup>2</sup> | H         |
| 011643                                                                                                                             | 2        | 2.60 | 2.5 | 1.61 | 1.30           | 208-230/460 | 60        | 7.5-7.2/3.6  | 2" x 2"   | 47     | UL <sup>1</sup> , NSF <sup>2</sup> | I         |
| 011644                                                                                                                             | 3        | 3.45 | 2.1 | 2.02 | 1.15           | 208-230/460 | 60        | 9.8-9.4/4.7  | 2" x 2"   | 52     | UL <sup>1</sup> , NSF <sup>2</sup> | J         |
| ACCESSORIES                                                                                                                        |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 11201-0154 2 in. x 2 in. Union (2 in. NPT male x 2 in. female NPT quick connect) * Note: two required per pump (sold individually) |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 357156 Cover/Lid, Chemical Resistant, CAM & RAMP                                                                                   |          |      |     |      |                |             |           |              |           |        |                                    |           |
| 356198 Chemical/Salt/Ozone/Resistant EPDM & SS Seal Quick Kit                                                                      |          |      |     |      |                |             |           |              |           |        |                                    |           |

<sup>1</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

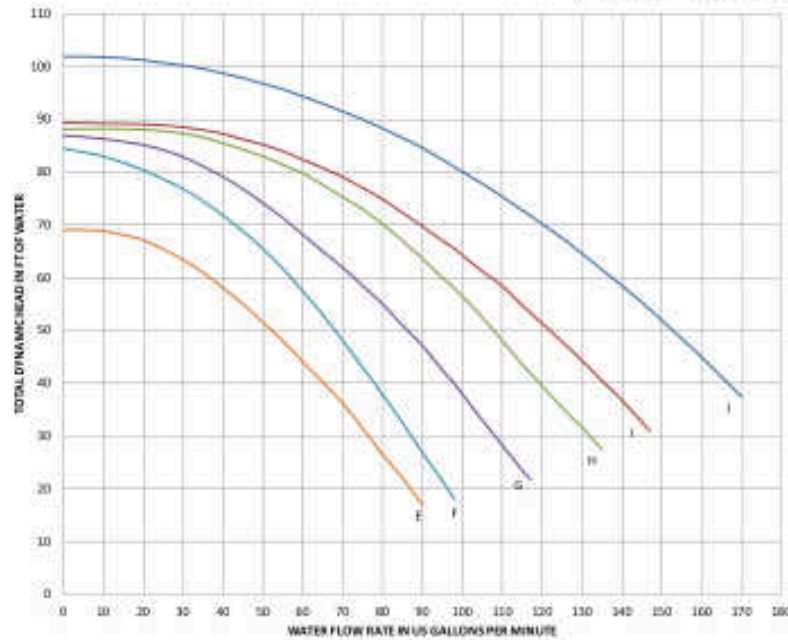
<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

#### CALIFORNIA PROPOSITION 65 WARNING

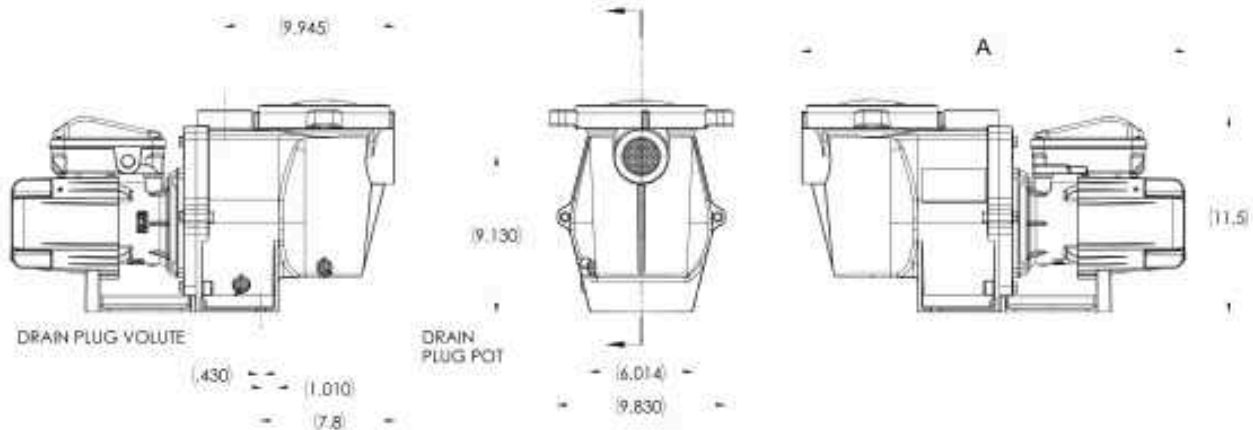
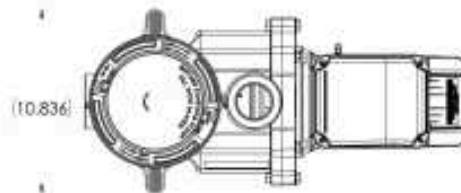
⚠ WARNING: Cancer and Reproductive Harm.  
 ⚠ AVERTISSEMENT: Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

# WHISPERFLO® HIGH PERFORMANCE PUMPS (CONT'D)

## Dimensions and Performance



| A - VARYING LENGTH |       |       |               |       |
|--------------------|-------|-------|---------------|-------|
| HP                 | EE    | TEFC  | DOE Compliant | 3-PH  |
| 0.5                | 24.41 | —     | —             | —     |
| 0.75               | 24.41 | —     | —             | —     |
| 1                  | —     | 21.71 | —             | 21.5  |
| 1.1                | —     | —     | 22.5          | —     |
| 1.5                | —     | 22.16 | —             | 21.5  |
| 2                  | —     | 22.51 | —             | 21.81 |
| 3                  | —     | 23.21 | —             | 22.61 |



CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 427 FOR REPLACEMENT PARTS

# SUPERFLO® VST VARIABLE SPEED PUMP

**TRADEGRADE**


SuperFlo VST Variable  
Speed Pump

## Featured Highlights

- TEFC motor, can adapt to 115V to 230V or 50hz or 60hz power with no special wiring or switching
- Improved mechanical seal for long, dependable performance
- Simple, easy-to-use digital control keypad with three programmable speeds, override capability, and a real-time, 24 hour clock
- Easy to access electrical connections for simple installation
- Ideal for new and standard pool pump replacement for pools requiring up to a 1.5 HP pump
- SuperFlo pumps by Pentair are a direct replacement for the Hayward® Super Pump®\*

The SuperFlo VST Variable Speed Pump features sophisticated technology in a simple to operate pump. Designed for the practical pool owner, the SuperFlo VST pump has a dependable and robust Totally Enclosed Fan Cooled motor and can adapt to 115V to 230V and 50hz or 60hz power with no special wiring or switching.

## Ordering Information

| Product                            | THP                                                                                      | WEF | HHP  | Service Factor | Voltage     | Frequency | Current      | Port Size   | Weight | Certifications <sup>1</sup>        |
|------------------------------------|------------------------------------------------------------------------------------------|-----|------|----------------|-------------|-----------|--------------|-------------|--------|------------------------------------|
| <b>SUPERFLO VST VARIABLE SPEED</b> |                                                                                          |     |      |                |             |           |              |             |        |                                    |
| 342002                             | 2.2                                                                                      | 9.0 | 1.08 | 1.0            | 115/208-230 | 50/60     | 13.6/8.0-7.1 | 1.5" x 1.5" | 53     | UL <sup>1</sup> , NSF <sup>2</sup> |
| <b>ACCESSORIES</b>                 |                                                                                          |     |      |                |             |           |              |             |        |                                    |
| 356324Z                            | External Control Wiring Kit                                                              |     |      |                |             |           |              |             |        |                                    |
| 356197                             | Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit (for pumps Mfg. before June 2019) |     |      |                |             |           |              |             |        |                                    |

<sup>1</sup> "UL" indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.

<sup>2</sup> "NSF" indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

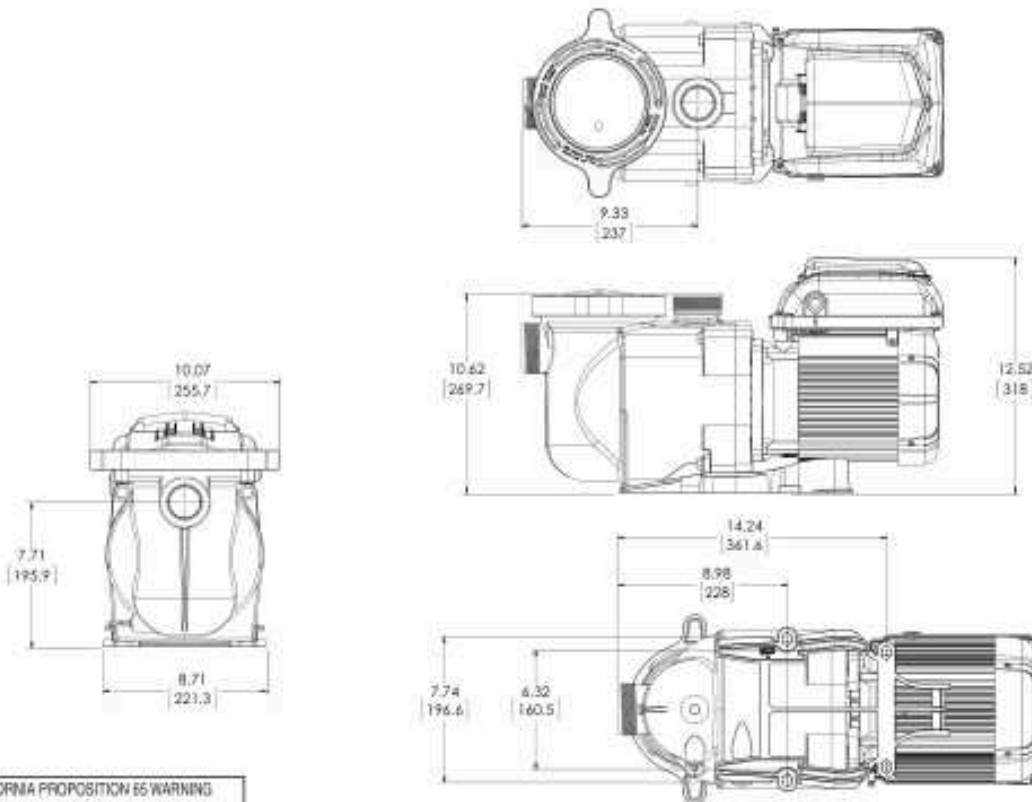
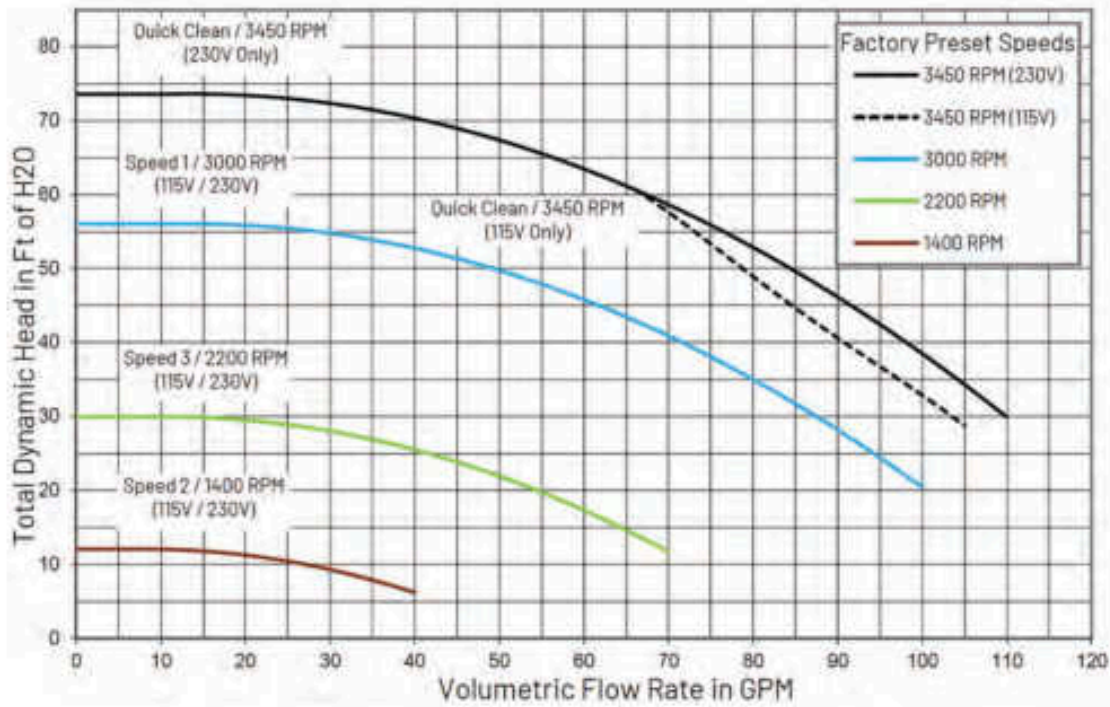
<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

\* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

# SUPERFLO® VST

## VARIABLE SPEED PUMP (CONT'D)

### Dimensions and Performance



#### CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 427 FOR REPLACEMENT PARTS

# SUPERFLO®

## HIGH-PERFORMANCE PUMPS

### TRADEGRADE



SuperFlo Pump

SuperFlo pumps feature thick walled body parts, a heavy-duty 56 square flange motor, and highly engineered hydraulics. SuperFlo pumps' silent running capability and small footprint allow it to easily drop into a compact equipment pad.

### Featured Highlights

- SuperFlo pump by Pentair Aquatic Systems is a direct replacement for the Hayward® Super Pump® \*
- Extremely quiet operation
- Unionized fittings included (1-1/2 in. internal slip and 2 in. external slip)
- Cam and Ramp™ Lid
- Heavy-duty, high service factor 56 square flange motor
- Integral volute and pot reduce hydraulic noise

### Ordering Information

| Product                                                 | Rated HP                                                                                        | THP  | WEF | HHP  | Service Factor | Voltage     | Frequency | Current      | Port Size   | Weight | Certifications <sup>1</sup>        | Curve Key |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------|------|-----|------|----------------|-------------|-----------|--------------|-------------|--------|------------------------------------|-----------|
| DOE COMPLIANT SINGLE-SPEED TEFC                         |                                                                                                 |      |     |      |                |             |           |              |             |        |                                    |           |
| 348190                                                  | N/A                                                                                             | 1.1  | 3.6 | 0.63 | 1.00           | 115/208-230 | 60        | 10.5/5.4-5.4 | 1.5" x 1.5" | 50     | UL <sup>1</sup> , NSF <sup>2</sup> | B         |
| ENERGY EFFICIENT SINGLE-SPEED - NOT FOR SALE IN THE USA |                                                                                                 |      |     |      |                |             |           |              |             |        |                                    |           |
| 348022-INT                                              | 3/4                                                                                             | 0.95 | N/A | N/A  | 1.00           | 115/208-230 | 60        | 8.8/4.5-4.4  | 1.5" x 1.5" | 44     | UL <sup>1</sup> , NSF <sup>2</sup> | A         |
| TEFC SINGLE-SPEED - NOT FOR SALE IN THE USA             |                                                                                                 |      |     |      |                |             |           |              |             |        |                                    |           |
| 348144-INT                                              | 1                                                                                               | 1.65 | N/A | N/A  | 1.00           | 115/208-230 | 60        | 15.1/8.5-7.7 | 1.5" x 1.5" | 50     | UL <sup>1</sup> , NSF <sup>2</sup> | C         |
| 348145-INT                                              | 1-1/2                                                                                           | 2.21 | N/A | N/A  | 1.00           | 208-230     | 60        | 10.3-9.1     | 1.5" x 1.5" | 53     | UL <sup>1</sup> , NSF <sup>2</sup> | D         |
| 348146-INT                                              | 2                                                                                               | 2.60 | N/A | N/A  | 1.00           | 208-230     | 60        | 11.7-10.3    | 1.5" x 1.5" | 58     | UL <sup>1</sup> , NSF <sup>2</sup> | E         |
| ACCESSORIES                                             |                                                                                                 |      |     |      |                |             |           |              |             |        |                                    |           |
| 351157                                                  | Union Kit - 1-1/2 in. Internal Slip x 2 in. External Slip (includes 2 unions as pictured above) |      |     |      |                |             |           |              |             |        |                                    |           |
| 356197                                                  | Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit                                          |      |     |      |                |             |           |              |             |        |                                    |           |

<sup>1</sup> UL indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1051 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> NSF indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

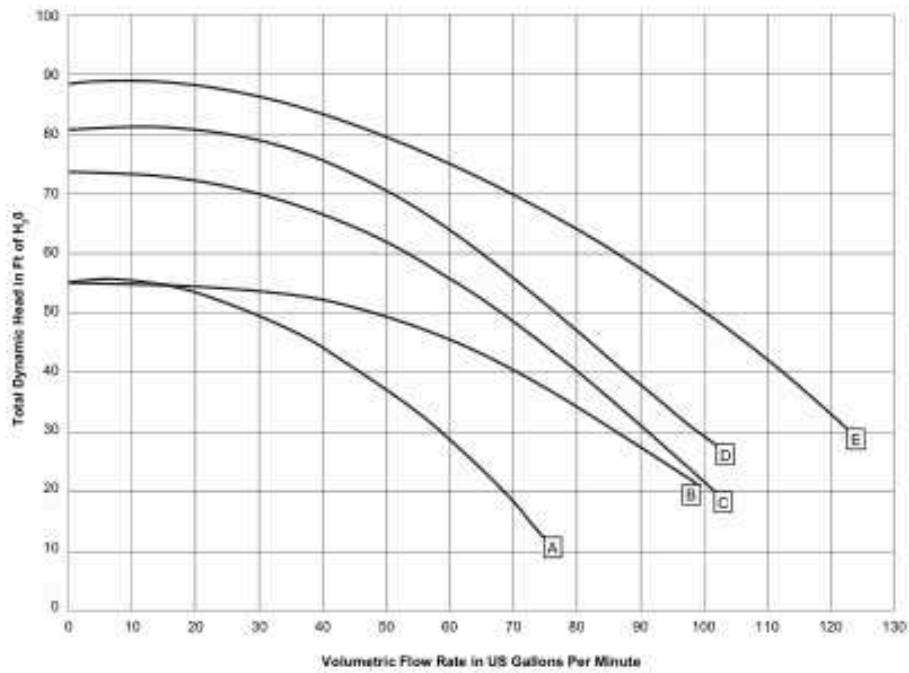
<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

\* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

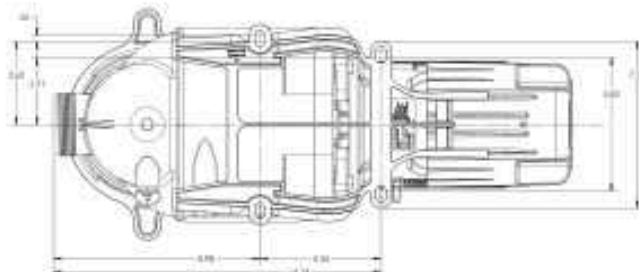
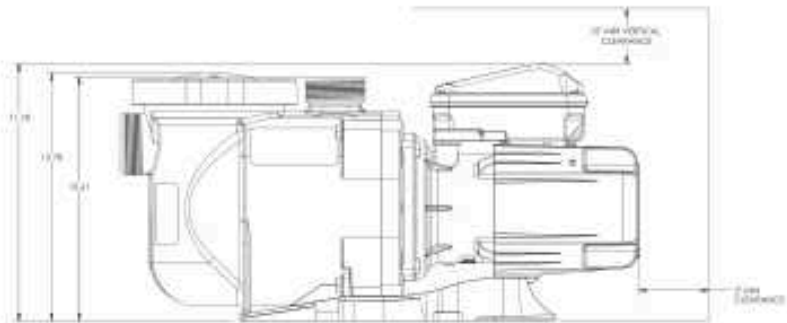
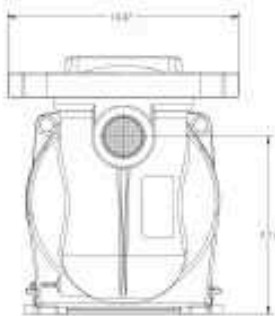
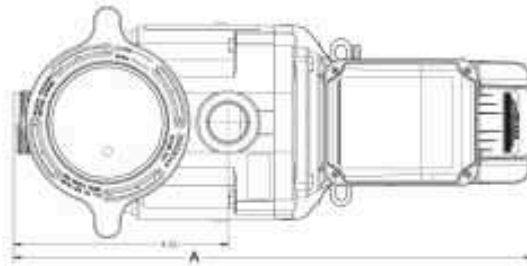
# SUPERFLO®

## HIGH PERFORMANCE PUMPS (CONT'D)

### Dimensions and Performance



| A- VARYING LENGTH |       |       |               |
|-------------------|-------|-------|---------------|
| HP                | EE    | TEFC  | DOE Compliant |
| 0.5               | 24.64 | —     | —             |
| 0.75              | 24.64 | —     | —             |
| 1                 | —     | 22    | —             |
| 1.1               | —     | —     | 22.55         |
| 1.5               | —     | 22.45 | —             |
| 2                 | —     | 22.9  | —             |



SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIPRO3® VSF

## VARIABLE SPEED AND FLOW POOL PUMP



TRADEGRADE

Optional touchscreen  
for more flexible control.

### Featured Highlights

- Proprietary flow technology maintains the pool's optimal flow
- Easy control via the Pentair Pool app or optional touchscreen
- Up to 90% energy savings\*
- New motor, drive and hydraulics
- Optional onboard automation
- Easy setup and remote updates

IntelliPro3 3.0 HP  
Variable Speed & Flow PumpIntelliPro3 1.5 HP  
Variable Speed & Flow PumpPentair Pool app:  
pool owners can access the  
pool anytime, anywhere.Pentair Pro app:  
ability to control and  
remotely monitor.

This pump combines true set-it-and-forget-it patented flow technology paired with smart connectivity of the Pentair Pool app. The proprietary combination of variable speed plus auto-regulated flow means all good things flow from the IntelliPro3 pool pump—for your customers and for your business. Small pool or big, this pump is a simple, smart, worry-free way to give pool owners the effortless, inviting pool experience they expect.

### Ordering Information

| PART #                                                                 | DESCRIPTION                                              | THP | WEF | Maximum Input Voltage | Frequency      | Full Load Amps  | Port Size (NPT)                              | Weight | Certification <sup>1</sup>         |
|------------------------------------------------------------------------|----------------------------------------------------------|-----|-----|-----------------------|----------------|-----------------|----------------------------------------------|--------|------------------------------------|
| <b>INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP</b>                   |                                                          |     |     |                       |                |                 |                                              |        |                                    |
| 013075                                                                 | IntelliPro3 VSF 3.0 HP*                                  | 3   | 7.1 | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 013076                                                                 | IntelliPro3 VSF 3.0 HP with relay board*                 | 3   | 7.1 | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 013077                                                                 | IntelliPro3 VSF 3.0 HP with touchscreen*                 | 3   | 7.1 | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 013078                                                                 | IntelliPro3 VSF 3.0 HP with touchscreen and relay board* | 3   | 7.1 | 208V-230V             | 50 Hz or 60 Hz | 12.4-11.2 Amps  | 2" x 2" or 2.5" x 2.5" or (optional) 3" x 3" | 55 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| <b>INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP WITH 1.5HP MODELS</b> |                                                          |     |     |                       |                |                 |                                              |        |                                    |
| 013065                                                                 | IntelliPro3 VSF 1.5 HP*                                  | 1.5 | 9.4 | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 013066                                                                 | IntelliPro3 VSF 1.5 HP with relay board*                 | 1.5 | 9.4 | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 013067                                                                 | IntelliPro3 VSF 1.5 HP with touchscreen*                 | 1.5 | 9.4 | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |
| 013068                                                                 | IntelliPro3 VSF 1.5 HP with touchscreen and relay board* | 1.5 | 9.4 | 115/208-230V          | 50 Hz or 60 Hz | 12/6.4-5.9 Amps | 1.5" x 1.5" or 2" x 2"                       | 48 lbs | UL <sup>1</sup> , NSF <sup>2</sup> |

<sup>1</sup> "UL" indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> "NSF" indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

\*Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

#### CALIFORNIA PROPOSITION 65 WARNING

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⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.  
⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.pfswarnings.ca.gov](http://www.pfswarnings.ca.gov)

SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIPRO3® VSF (CONT'D)

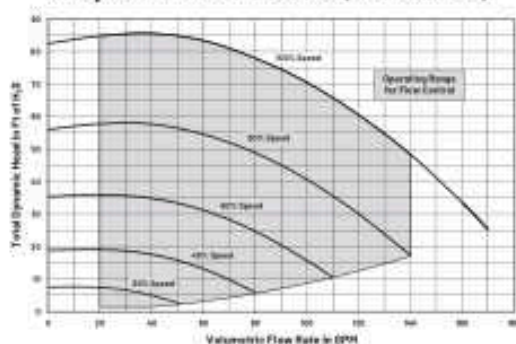
## VARIABLE SPEED AND FLOW POOL PUMP

### Ordering Information

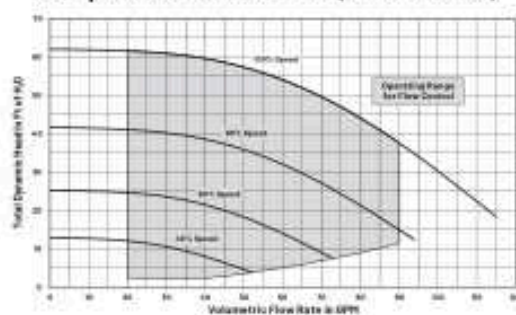
| PART #              | DESCRIPTION                                                                            |
|---------------------|----------------------------------------------------------------------------------------|
| INTELLIFLO3 ADD-ONS |                                                                                        |
| 356348Z             | IntelliPro3 VSF Universal Touchscreen Add-On                                           |
| 356365Z             | IntelliPro3 VSF Optional Universal Relay Board Kit                                     |
| 358163Z             | 50 ft 2 Conductor Automation Cable                                                     |
| 410009              | 2.5" Sweep Elbow Pump Kit                                                              |
| 410029              | 3" Union Kit for 3 HP Pumps                                                            |
| 351157              | 1-1/2" Internal Slip x 2" External Slip Union Kit for 1.5 HP Pumps (includes 2 unions) |
| 357831Z             | Retrofit Riser Base Kit for 1.5 HP Models—IntelliFlo and WhisperFlo Models             |
| 357832Z             | Retrofit Riser Base Kit for 1.5 HP Models—IntelliPro, Max-E-Pro, and Challenger Models |
| 357833Z             | Retrofit Riser Base Kit for 3.0 HP Models—IntelliPro, Max-E-Pro, and Challenger Models |

### Dimensions and Performance

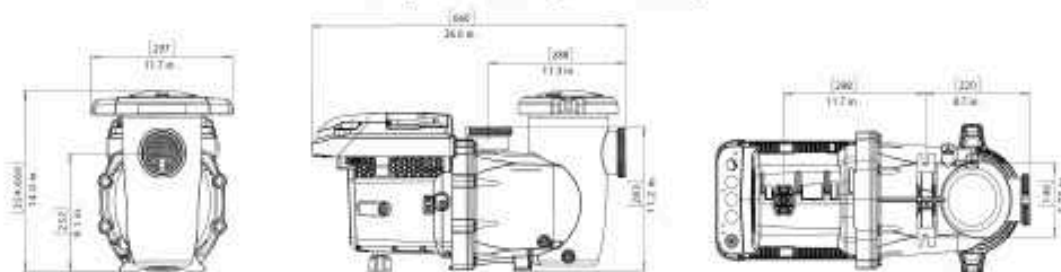
Pump Performance Curves (3 HP Models)



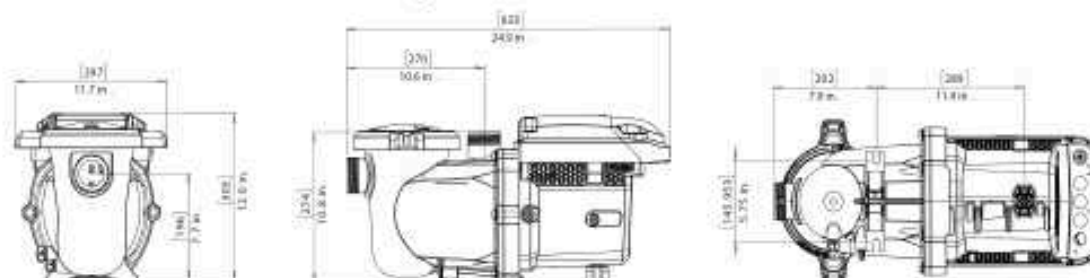
Pump Performance Curves (1.5 HP Models)



Pump Dimensions (3 HP Models)



Pump Dimensions (1.5 HP Models)



#### CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIPRO® VS+SVRS

## HIGH PERFORMANCE PUMPS



IntelliPro VS+SVRS  
Variable Speed Pump

Patent Information: [www.pentair.com/patents](http://www.pentair.com/patents)

IntelliPro pumps combine variable speed technology, onboard digital intelligence and permanent magnet motors (used in hybrid cars) to reduce pump-related energy costs by up to 90%\* compared to single-speed pumps. The IntelliPro VS+SVRS pump models include a built-in Safety Vacuum Release System that detects drain blockage and automatically shuts the pump off.

### Featured Highlights

- Ability to program exact pump speeds for specific operations – filtering, heating, cleaning, spa jets, water features, and more
- SVRS complies with Virginia Graeme Baker Safety Act
- Built-in diagnostics helps protect the IntelliPro pump from the most common causes of premature failure – overheating, freezing, and voltage irregularities
- Includes priming protection. No SVRS calibrations needed. Built-in SVRS cannot be turned off
- Safety lock-out feature (password protected) prevents pump speed settings from being changed by unauthorized personnel
- Ability to set minimum and maximum speeds so pump will only operate within the ranges set to help assure suitable operation for a longer life
- Compatible with Pentair Automation Systems
- Compliant with the current ASME A112.19.17 standard for Safety Vacuum Release Systems (SVRS)

### Ordering Information

| Product                                                              | Description                                                           | THP  | WEF | HHP  | Service Factor | Voltage | Frequency | Current | Port Size | Weight | Certifications <sup>1</sup>        |
|----------------------------------------------------------------------|-----------------------------------------------------------------------|------|-----|------|----------------|---------|-----------|---------|-----------|--------|------------------------------------|
| INTELLIPRO VS+ SVRS VARIABLE SPEED WITH SAFETY VACUUM RELEASE SYSTEM |                                                                       |      |     |      |                |         |           |         |           |        |                                    |
| 013002                                                               | IntelliPro VS+SVRS                                                    | 3.95 | 6.9 | 1.88 | 1.0            | 230     | 50/60     | 16.0    | 2" x 2"   | 53     | UL <sup>1</sup> , NSF <sup>2</sup> |
| ACCESSORIES                                                          |                                                                       |      |     |      |                |         |           |         |           |        |                                    |
| 350122Z                                                              | Communication Cable - 50 ft. - included with pump                     |      |     |      |                |         |           |         |           |        | 2                                  |
| 356905Z                                                              | Optional Keypad Wall Mount Kit                                        |      |     |      |                |         |           |         |           |        |                                    |
| 356196                                                               | Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit                |      |     |      |                |         |           |         |           |        | 1                                  |
| UNIONS                                                               |                                                                       |      |     |      |                |         |           |         |           |        |                                    |
| 11201-0154                                                           | 2 in. x 2 in. Union (2 in. NPT male x 2 in. female NPT quick connect) |      |     |      |                |         |           |         |           |        | 2                                  |

<sup>1</sup> UL indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> NSF indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

Note: Pump must be used with current collectors when installed on spas or hot tubs in Canada.

Refer to catalog page 23 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to Current NEC Standards for Pool Pumps.

\* Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

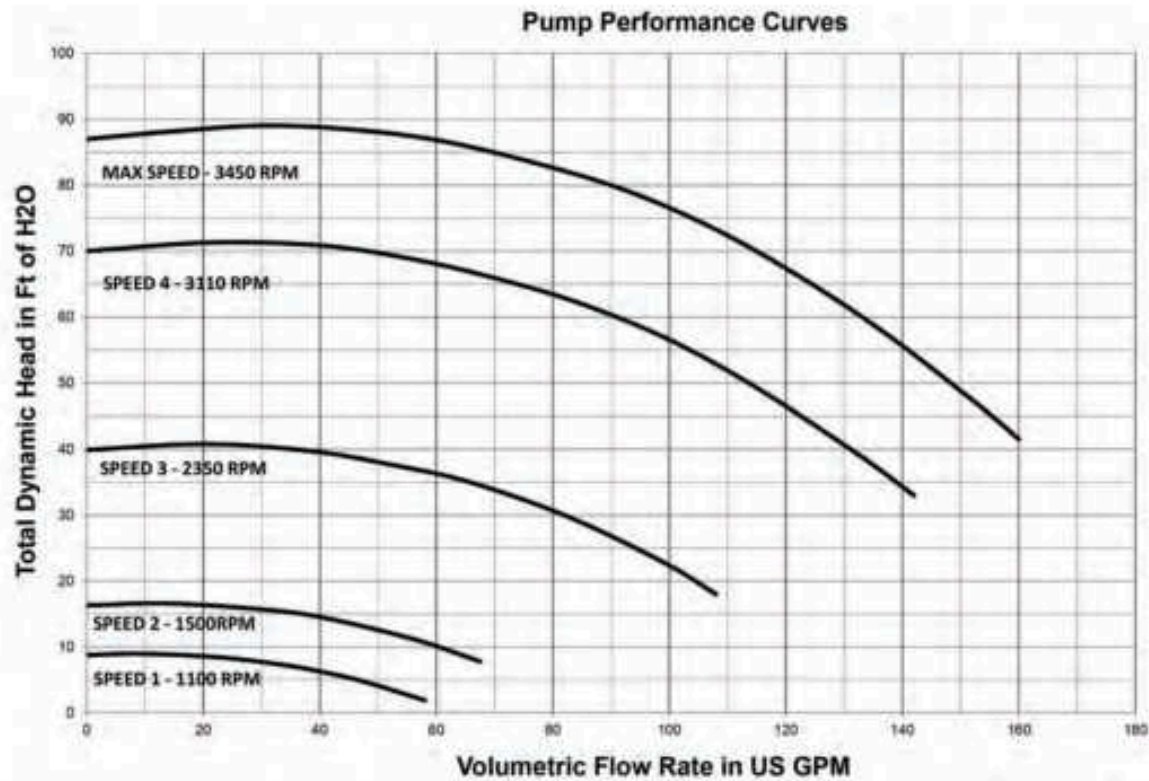
#### CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: Cancer and Reproductive Harm.  
⚠ AVERTISSEMENT: Peut Causer le Cancer  
et des Dommages au Système Reproducteur.  
⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

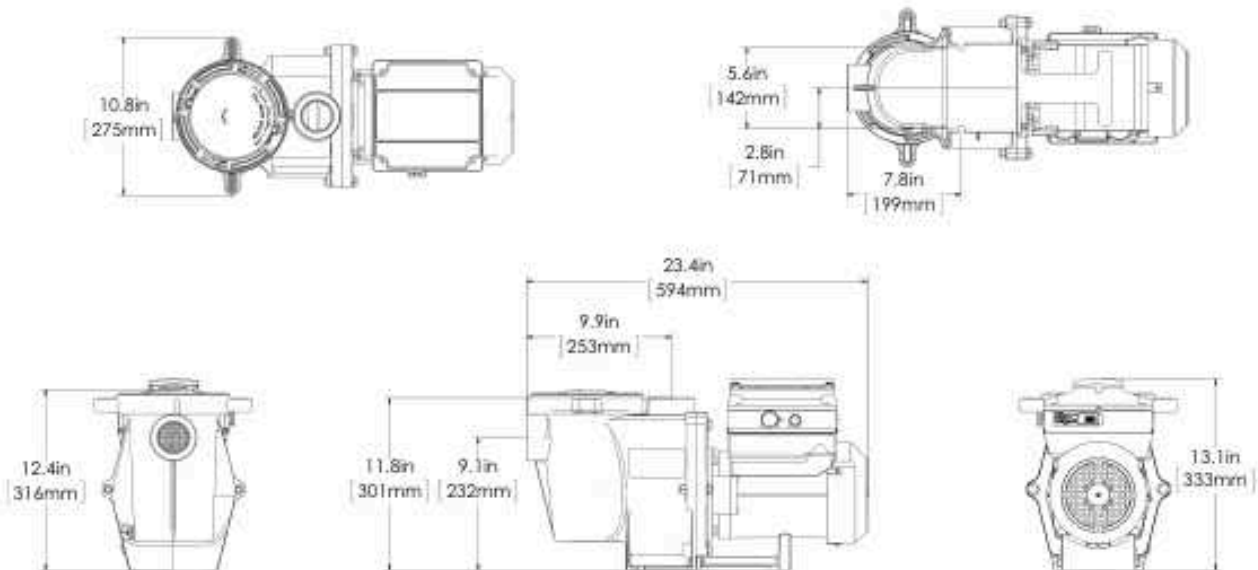
SEE PAGE 427 FOR REPLACEMENT PARTS

# INTELLIPRO® VS+SVRS HIGH-PERFORMANCE PUMPS (CONT'D)

## Dimensions and Performance



\* IntelliPro VS+SVRS minimum speed is 1100 RPM



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SEE PAGE 427 FOR REPLACEMENT PARTS

# MAX-E-PROXF<sup>®</sup>

## HIGH PERFORMANCE PUMPS


**TRADEGRADE**

Max-E-ProXF Pump  
shown with TEFC Motor

Developed using advanced engineering tools - CFD (Computational Fluid Dynamics) and FEA (Finite Element Analysis). The impeller design delivers a high level of precision concentricity for efficiency.

\* Optional riser base for Challenger pump replacements, part #400012 available separately

### Featured Highlights

- Totally Enclosed Fan Cooled (TEFC) motor
- Improved design
- 2" quick-disconnect plumbing union for faster disassembly and service
- 6", extra-large-capacity trap collects more debris
- Clear-view lid allows easy way to check for debris without lifting a finger
- Some models meet updated DOE minimum efficiency requirements

### Ordering Information

| Product                      | Rated HP | THP  | WEF | HHP | Service Factor | Voltage     | Frequency | Current       | Port Size              | Weight | Certifications <sup>1</sup>        | Curve Key |
|------------------------------|----------|------|-----|-----|----------------|-------------|-----------|---------------|------------------------|--------|------------------------------------|-----------|
| COMMERCIAL SINGLE-SPEED TEFC |          |      |     |     |                |             |           |               |                        |        |                                    |           |
| 023034                       | 5        | 5    | N/A | N/A | 1.00           | 208-230     | 60        | 20.0-18.8     | 2.5" x 2.5" or 3" x 3" | 67     | UL <sup>1</sup> , NSF <sup>2</sup> | C         |
| THREE-PHASE SUPER-DUTY       |          |      |     |     |                |             |           |               |                        |        |                                    |           |
| 023017                       | 2        | 2.8  | N/A | N/A | 1.30           | 208-230/460 | 60        | 7.5-7.2/3.6   | 2.5" x 2.5" or 3" x 3" | 60     | UL <sup>1</sup> , NSF <sup>2</sup> | I         |
| 023018                       | 3        | 3.25 | N/A | N/A | 1.15           | 208-230/460 | 60        | 9.8-9.4/4.7   | 2.5" x 2.5" or 3" x 3" | 60     | UL <sup>1</sup> , NSF <sup>2</sup> | H         |
| 023019                       | 5        | 5.00 | N/A | N/A | 1.00           | 208-230/460 | 60        | 13.9-13.1/6.6 | 2.5" x 2.5" or 3" x 3" | 72     | UL <sup>1</sup> , NSF <sup>2</sup> | G         |
| ACCESSORIES                  |          |      |     |     |                |             |           |               |                        |        |                                    |           |

400012 XF Riser Base - Simplifies installation of XF-series pumps in applications where Challenger pumps are being replaced.

<sup>1</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 105-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

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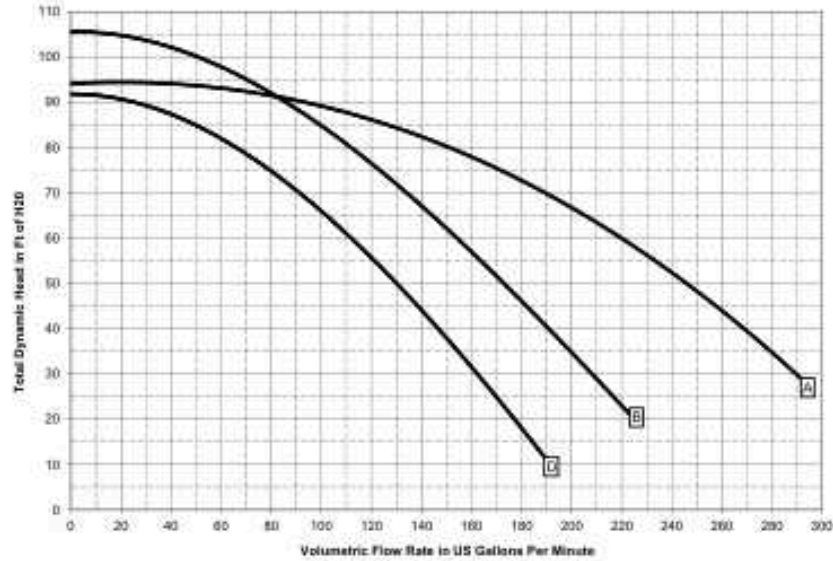
SEE PAGE 427 FOR REPLACEMENT PARTS

# MAX-E-PROXF<sup>®</sup>

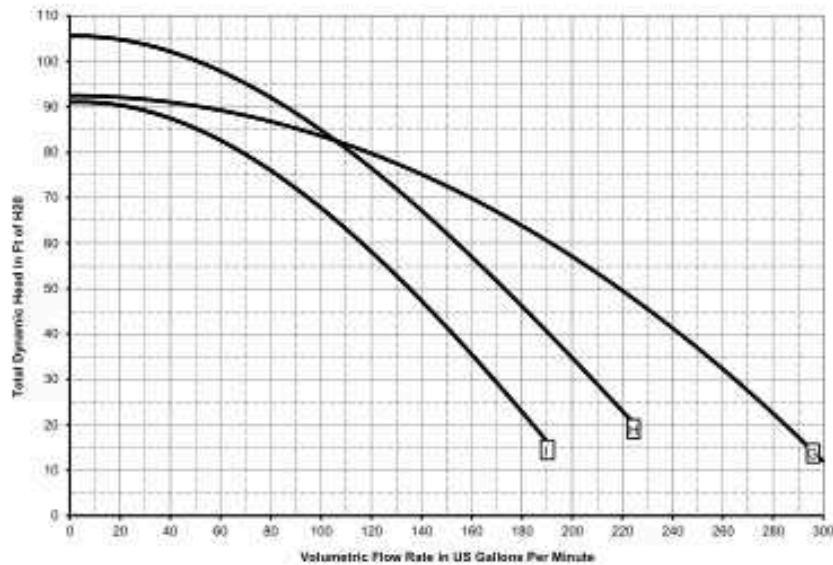
## HIGH-PERFORMANCE PUMPS (CONT'D)

### Dimensions and Performance

1 & 2-Speed  
Performance  
Curve



3 Phase  
Performance  
Curve

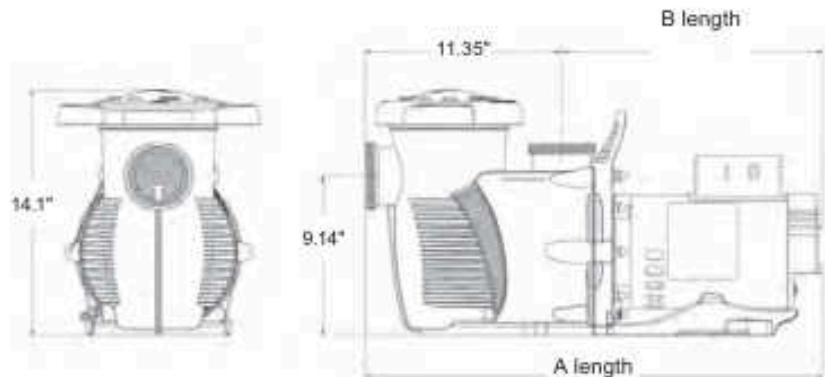


| B-VARYING LENGTH |       |       |
|------------------|-------|-------|
| HP               | TEFC  | 3-PH  |
| 2                | 13.05 | 12.35 |
| 3                | 13.65 | 13.05 |

| A-VARYING LENGTH |      |      |
|------------------|------|------|
| HP               | TEFC | 3-PH |
| 2                | 24.4 | 23.7 |
| 3                | 25   | 24.4 |

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SEE PAGE 427 FOR REPLACEMENT PARTS

# SUPERMAX® VS

## VARIABLE SPEED PUMPS



TRADEGRADE



SuperMax VS  
Variable Speed Pump

For pool owners who want to step-up to the energy and cost savings of variable speed technology, the SuperMax VS pump is a wise choice. SuperMax VS pump is engineered for easy installation, simple operation, and trouble-free service.

### Featured Highlights

- Variable speed technology provides energy & costs savings \*
- Ideal for standard pools requiring up to 1.5 hp pump
- 110/230V and 50/60 Hz capability
- Real-time clock with 24-hour memory retention
- Simple, intuitive user interface is easy to program and operate
- Easy to access electrical connections for simple installation
- Three operating speed settings plus override capability
- SuperMax pump by Pentair Aquatic Systems is a direct replacement for the Hayward® Super Pump® 4

### Ordering Information

| Product                    | THP                                                                                      | WEF | NHP  | Service Factor | Voltage     | Frequency | Current      | Port Size   | Weight | Certifications <sup>1</sup>        |
|----------------------------|------------------------------------------------------------------------------------------|-----|------|----------------|-------------|-----------|--------------|-------------|--------|------------------------------------|
| SUPERMAX VS VARIABLE SPEED |                                                                                          |     |      |                |             |           |              |             |        |                                    |
| 343001                     | 2.2                                                                                      | 9.0 | 1.08 | 1.0            | 115/208-230 | 50/60     | 13.8/8.0-7.1 | 1.5" x 1.5" | 53     | UL <sup>1</sup> , NSF <sup>2</sup> |
| ACCESSORIES                |                                                                                          |     |      |                |             |           |              |             |        |                                    |
| 356324Z                    | External Control Wiring Kit                                                              |     |      |                |             |           |              |             |        |                                    |
| 356197                     | Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit (for pumps Mfg. before June 2019) |     |      |                |             |           |              |             | 1      |                                    |

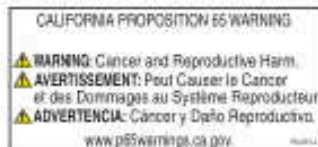
<sup>1</sup> "UL" indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.

<sup>2</sup> "NSF" indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

<sup>4</sup> Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

\*Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

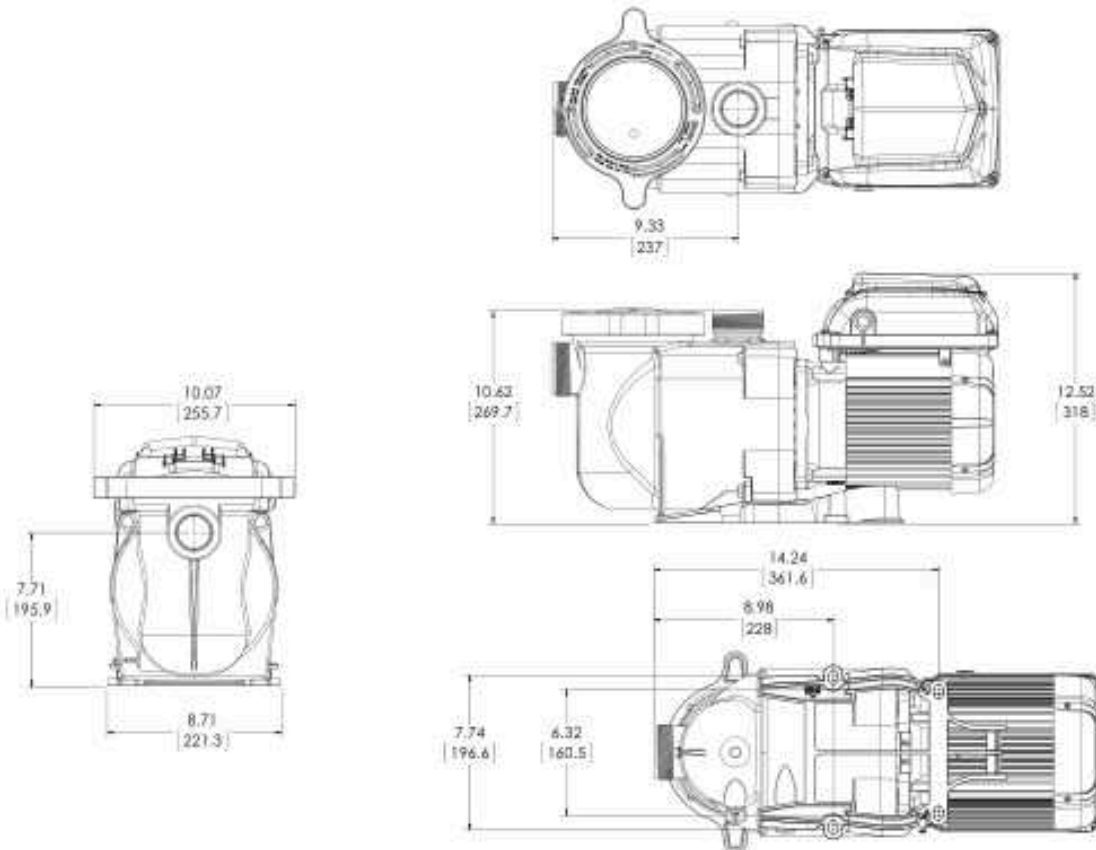
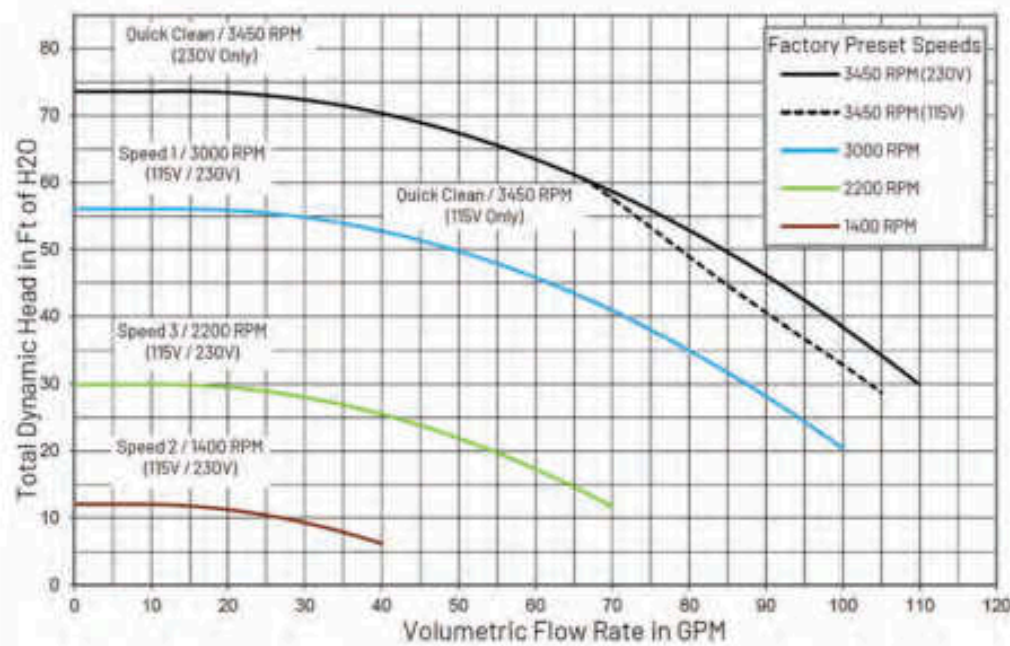


SEE PAGE 427 FOR REPLACEMENT PARTS

# SUPERMAX® VS

## VARIABLE SPEED PUMPS (CONT'D)

### Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING  
 ⚠️ WARNING: Cancer and Reproductive Harm.  
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 ⚠️ ADVERTENCIA: Cáncer y Daño Reproductivo.  
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SEE PAGE 427 FOR REPLACEMENT PARTS

# SUPERMAX®

## HIGH PERFORMANCE PUMPS



### TRADEGRADE



SuperMax Pump  
shown with TEFC Motor

The SuperMax pump features a commercial grade, 56 square flange motor for top performance in residential swimming pools. Consumers enjoy its economical performance. Pool professionals benefit from its ease of installation and reliability.

### Featured Highlights

- SuperMax pump by Sta-Rite is a direct replacement for the Hayward® Super Pump® \*
- Single and two-speed models ranging from 1/2 to 2-1/2 HP
- Cam and Ramp™ Lid locks and unlocks with a simple quarter turn
- Exterior thermoplastic resin withstands temperature extremes and delivers long life
- Unionized fittings included (1-1/2 in. internal slip and 2 in. external slip)

### Ordering Information

| Product                                                        | Rated HP                                                               | THP  | WEF | HHP  | Service Factor | Voltage     | Frequency | Current      | Port Size   | Weight | Certifications <sup>1</sup> | Curve Key |
|----------------------------------------------------------------|------------------------------------------------------------------------|------|-----|------|----------------|-------------|-----------|--------------|-------------|--------|-----------------------------|-----------|
| <b>DOE COMPLIANT SINGLE-SPEED TEFC</b>                         |                                                                        |      |     |      |                |             |           |              |             |        |                             |           |
| 348191                                                         | N/A                                                                    | 1.1  | 3.6 | 0.63 | 1.00           | 115/208-230 | 60        | 10.5/5.4-5.4 | 1.5" x 1.5" | 50     | UL, NSF                     | B         |
| <b>ENERGY EFFICIENT SINGLE-SPEED - NOT FOR SALE IN THE USA</b> |                                                                        |      |     |      |                |             |           |              |             |        |                             |           |
| PHK2E6D-101L-INT                                               | 3/4                                                                    | 0.95 | N/A | N/A  | 1.00           | 115/208-230 | 60        | 8.8/4.5-4.4  | 1.5" x 1.5" | 44     | UL, NSF                     | A         |
| <b>TEFC SINGLE-SPEED - NOT FOR SALE IN THE USA</b>             |                                                                        |      |     |      |                |             |           |              |             |        |                             |           |
| 348147-INT                                                     | 1                                                                      | 1.65 | N/A | N/A  | 1.00           | 115/208-230 | 60        | 15.1/8.5-7.7 | 1.5" x 1.5" | 50     | UL, NSF                     | C         |
| 348148-INT                                                     | 1-1/2                                                                  | 2.21 | N/A | N/A  | 1.00           | 208-230     | 60        | 10.3-9.1     | 1.5" x 1.5" | 53     | UL, NSF                     | D         |
| 348149-INT                                                     | 2                                                                      | 2.60 | N/A | N/A  | 1.00           | 208-230     | 60        | 11.7-10.3    | 1.5" x 1.5" | 58     | UL, NSF                     | E         |
| <b>ACCESSORIES</b>                                             |                                                                        |      |     |      |                |             |           |              |             |        |                             |           |
| 351157                                                         | Union Kit - 1-1/2 in. Internal Slip x 2 in. External Slip - includes 2 |      |     |      |                |             |           |              |             | 1      |                             |           |
| 356197                                                         | Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit                 |      |     |      |                |             |           |              |             | 1      |                             |           |

<sup>1</sup> "UL" indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 106-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> "NSF" indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

\* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

#### CALIFORNIA PROPOSITION 65 WARNING

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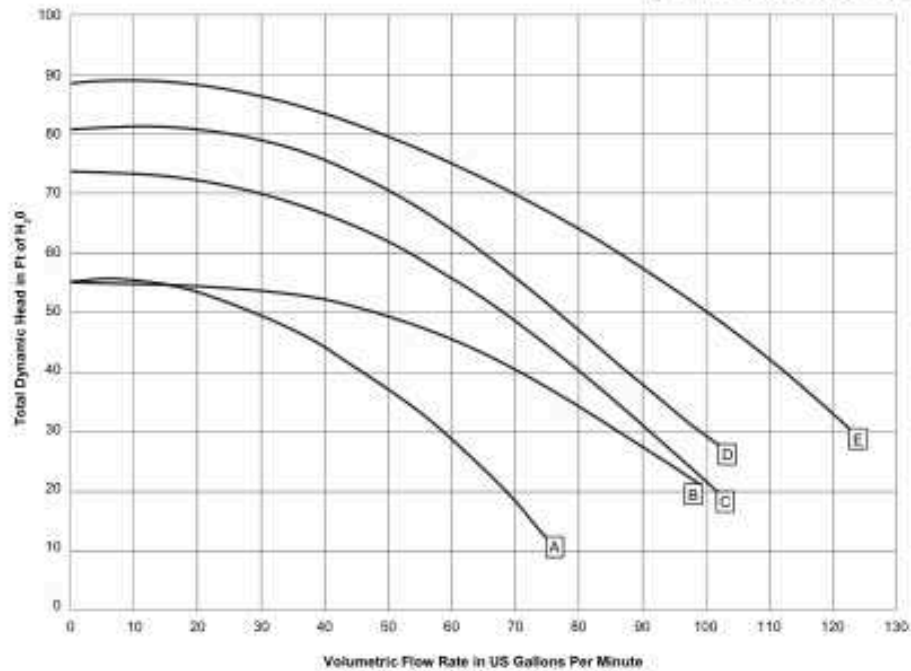
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SEE PAGE 427 FOR REPLACEMENT PARTS

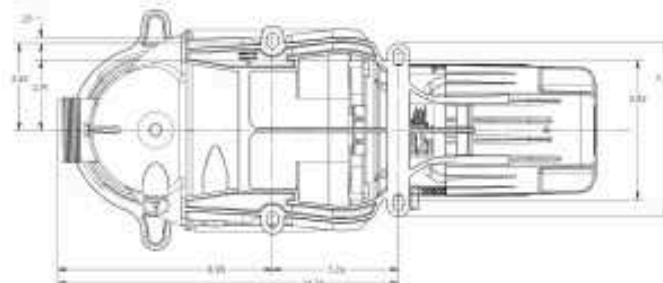
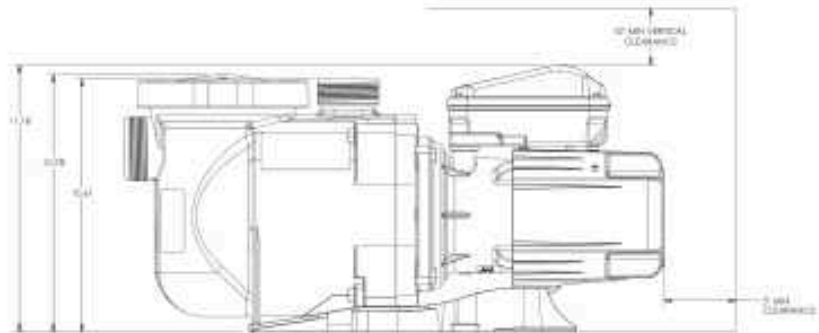
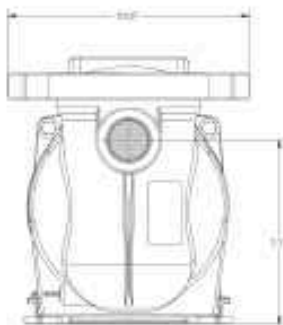
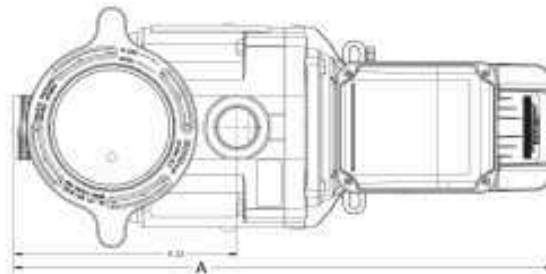
# SUPERMAX®

## HIGH-PERFORMANCE PUMPS (CONT'D)

### Dimensions and Performance



| A- VARYING LENGTH |       |       |               |
|-------------------|-------|-------|---------------|
| HP                | EE    | TEFC  | DOE Compliant |
| 0.5               | 24.64 | —     | —             |
| 0.75              | 24.64 | —     | —             |
| 1                 | —     | 22    | —             |
| 1.1               | —     | —     | 22.55         |
| 1.5               | —     | 22.45 | —             |
| 2                 | —     | 22.9  | —             |



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SEE PAGE 427 FOR REPLACEMENT PARTS

# WHISPERFLOXF<sup>®</sup> VS

## COMMERCIAL VARIABLE SPEED PUMP

### TRADEGRADE



WhisperFloXF VS Pump

WhisperFloXF pump is an economical, combined motor/drive solution for HMA (hotel, motel, apartment, condominium) or large residential installations, providing sophisticated, energy-saving pump technology without the high costs typically associated with independent pump/external drive setups.

### Featured Highlights

- Integrated 5HP motor/drive; no expensive external drive required
- Versatile power input capability; runs off a wide range of single- or three-phase power
- Speed or flow control for greater efficiency and pool performance\*
- External control capability through automation systems or relays
- Intuitive programming and operation
- Meets commercial codes and agency requirements

### Ordering Information

| Product                            | THP                                                                                                                  | WEF | HHP  | Service Factor | Voltage                                                     | Frequency | Current                                              | Port Size                    | Weight | Certifications <sup>1</sup>        |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----|------|----------------|-------------------------------------------------------------|-----------|------------------------------------------------------|------------------------------|--------|------------------------------------|
| <b>WHISPERFLOXF VARIABLE SPEED</b> |                                                                                                                      |     |      |                |                                                             |           |                                                      |                              |        |                                    |
| 022035                             | 5.0                                                                                                                  | 5.0 | 2.09 | 1.00           | Single-Phase:<br>208-230/277-460<br>Three-Phase:<br>208-460 | 50/60     | Single-Phase:<br>20-21/17-11<br>Three-Phase:<br>13-6 | 2.5" x 2.5"<br>or<br>3" x 3" | 95     | UL <sup>1</sup> , NSF <sup>2</sup> |
| <b>ACCESSORIES</b>                 |                                                                                                                      |     |      |                |                                                             |           |                                                      |                              |        |                                    |
| 356324Z                            | RS-485 Automation Wiring Kit, 25 ft.                                                                                 |     |      |                |                                                             |           |                                                      |                              |        |                                    |
| 400012                             | XF Riser Base - Simplifies installation of XF-series pumps in application where Challenger Pumps are being replaced. |     |      |                |                                                             |           |                                                      |                              |        |                                    |

<sup>1</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

\*When connected to Pentair's inline 4-20mA flowmeter for 3" plumbing (P/N 97014-4203KIT—sold separately), or similar 4-20mA flowmeters, this pump is capable of maintaining a constant flow based on the needs of your pool system. To connect the flowmeter and pump, the digital input cable provided in the External Control Wiring Kit (P/N 356324Z sold separately) is required.

#### CALIFORNIA PROPOSITION 65 WARNING

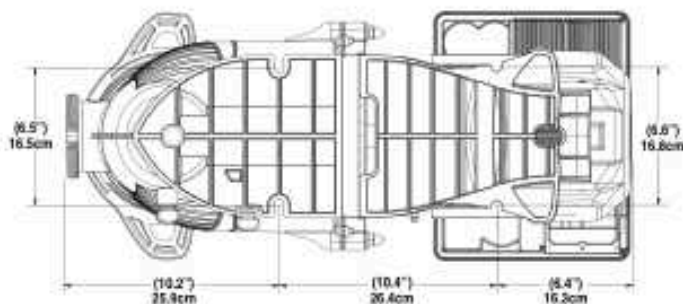
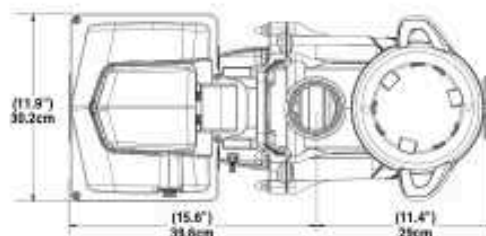
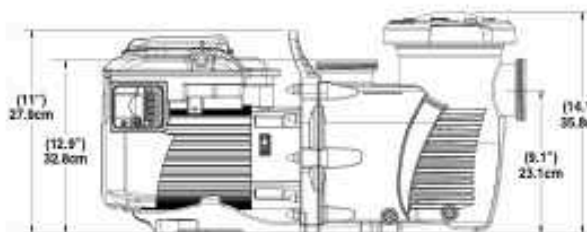
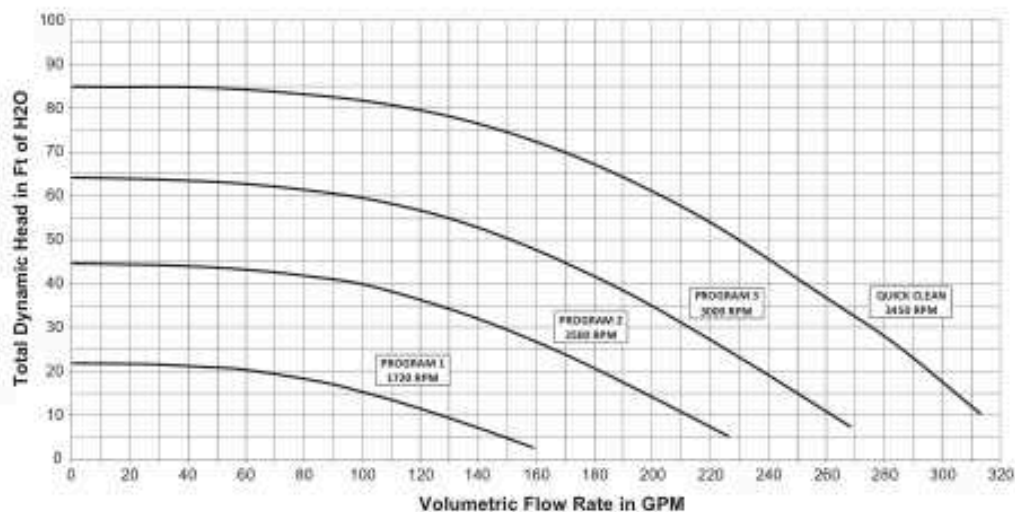
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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

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# WHISPERFLOXF VS

## COMMERCIAL VARIABLE SPEED PUMP (CONT'D)

### Dimensions and Performance



#### CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 427 FOR REPLACEMENT PARTS

# MAX-E-PROXF® VS

## COMMERCIAL VARIABLE SPEED PUMP



TRADEGRADE



Max-E-ProXF VS Pump

Variable speed pump that runs on single-phase or three-phase power. It's economical, combined motor/drive solution for HMAC (hotel, motel, apartment, condominium) or large residential installations, providing sophisticated, energy-saving pump technology without the high costs typically associated with independent pump/external drive setups.

### Featured Highlights

- Integrated 5HP motor/drive; no expensive external drive required
- Versatile power input capability; runs off a wide range of single- or three-phase power
- Speed or flow control for greater efficiency and pool performance\*
- External control capability through automation systems or relays
- Intuitive programming and operation
- Meets commercial codes and agency requirements

### Ordering Information

| Product                    | THP                                                                                                                  | WEF | HHP  | Service Factor | Voltage                                                     | Frequency | Current                                              | Port Size                    | Weight | Certifications <sup>1</sup>        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|-----|------|----------------|-------------------------------------------------------------|-----------|------------------------------------------------------|------------------------------|--------|------------------------------------|
| MAX-E-PROXF VARIABLE SPEED |                                                                                                                      |     |      |                |                                                             |           |                                                      |                              |        |                                    |
| 023035                     | 5.0                                                                                                                  | 5.0 | 2.09 | 1.00           | Single-Phase:<br>208-230/277-460<br>Three-Phase:<br>208-460 | 50/60     | Single-Phase:<br>20-21/17-11<br>Three-Phase:<br>13-6 | 2.5" x 2.5"<br>or<br>3" x 3" | 95     | UL <sup>1</sup> , NSF <sup>2</sup> |
| ACCESSORIES                |                                                                                                                      |     |      |                |                                                             |           |                                                      |                              |        |                                    |
| 356324Z                    | RS-485 Automation Wiring Kit, 25 ft.                                                                                 |     |      |                |                                                             |           |                                                      |                              |        |                                    |
| 400012                     | XF Riser Base - Simplifies installation of XF-series pumps in application where Challenger Pumps are being replaced. |     |      |                |                                                             |           |                                                      |                              |        |                                    |

<sup>1</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

\*When connected to Pentair's inline 4-20mA flowmeter for 3" plumbing (P/N 97014-4203KIT—sold separately), or similar 4-20mA flowmeters, this pump is capable of maintaining a constant flow based on the needs of your pool system. To connect the flowmeter and pump, the digital input cable provided in the External Control Wiring Kit (P/N 356324Z sold separately) is required.

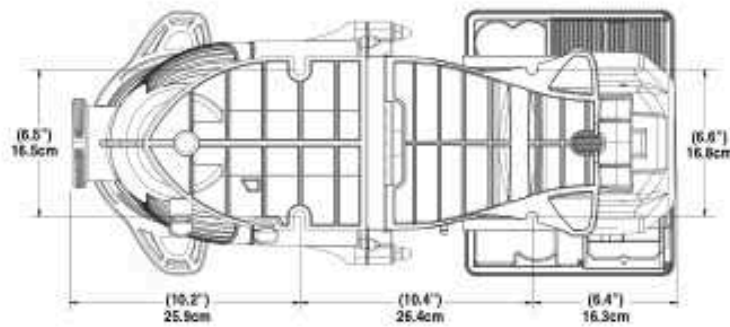
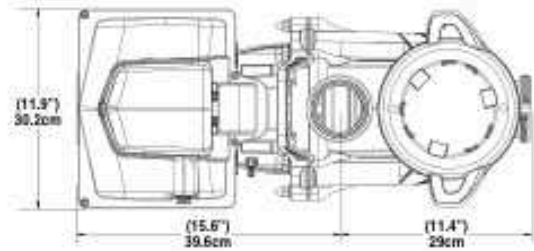
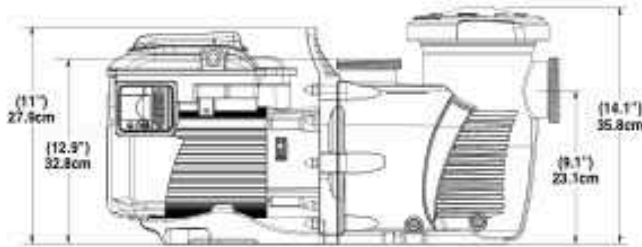
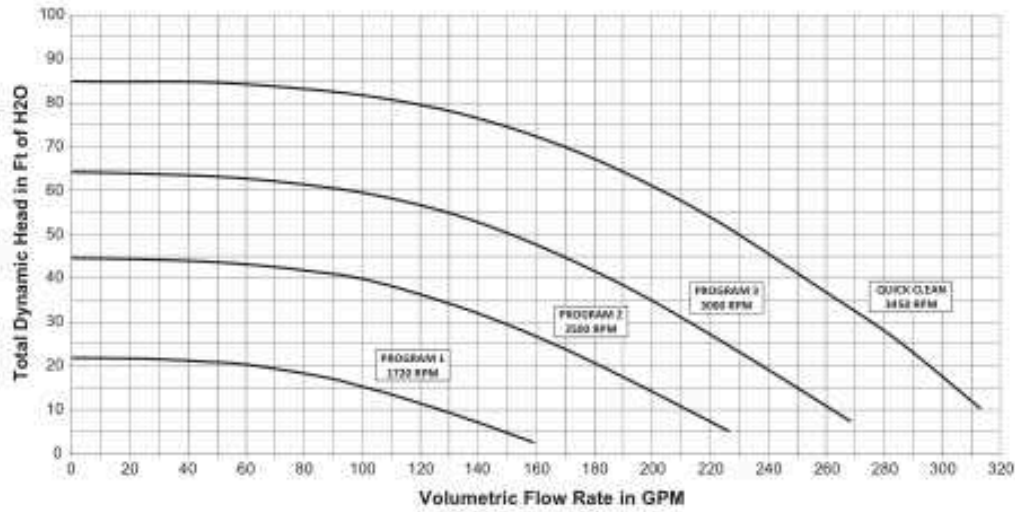
#### CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.  
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

SEE PAGE 427 FOR REPLACEMENT PARTS

# MAX-E-PROXF<sup>®</sup> VS COMMERCIAL VARIABLE SPEED PUMP (CONT'D)

## Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING  
**WARNING:** Cancer and Reproductive Harm.  
**AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.  
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SEE PAGE 427 FOR REPLACEMENT PARTS

# COMMERCIAL ACU DRIVE™ XS

## VARIABLE FREQUENCY DRIVE



### Featured Highlights

- Save up to 60% or more on pump's electricity usage\*
- "Right-size" your pump to the exact flow required
- Helps save energy with constant flow as the filters get dirty (with optional flow sensor)
- Off-hour flow management capability
- Does not blow corrosive filter-room air across the circuitry
- High efficiency up to 98% — adjusts drive input voltage for best efficiency point
- Eliminates need for motor starters
- Integrated disconnects, fusing and optional bypasses
- 2-step ramps (Soft Start Feature)
- Real-time clock for time based functions
- Great match for 3-phase models of EQ Series® Pumps
- Overload trip protection helps protect motor and Acu Drive XS VF Drive from Voltage Spikes and phase unbalance
- Can connect to an IntelliTouch® Automation System
- 3-year manufacturers warranty. Optional 6-year warranty available
- Optional: Factory Start-up upgrade available
- Indoor & Outdoor-rated enclosures
- One drive type for the full power range
- For use with 3 phase pumps only
- Acu Drive XS VF Drives with single phase input power available

The Acu Drive XS VF Drive offers built-in intelligence for increased performance in all aquatic pump applications. Specified for energy and cost savings, the Acu Drive XS VF Drive offers a fast return on investment. The Acu Drive XS VF Drive allows the pump to run at its most efficient point on the curve. Preventative maintenance costs may drop due to motor protection, motor soft start, and a significant decrease in water hammer protecting the shaft and impeller. Up to an additional 5% savings due to the Acu Drive XS VF Drive's ability to balance power phase and harmonic suppression. Built with powerful standard and optional features specifically designed for energy optimization, the Acu Drive XS VF Drive is perfectly matched with the full line of Pentair Commercial pumps.

#### CALIFORNIA PROPOSITION 65 WARNING

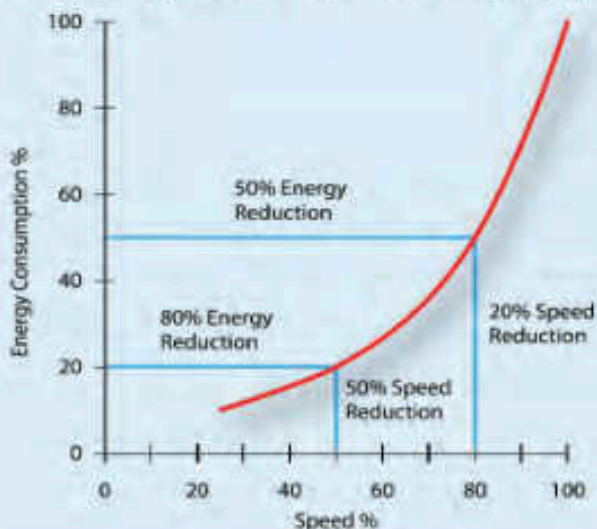
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#### Affinity Law

Significant Energy Savings are achieved with even a modest reduction in speed

#### Ideal Energy Consumption at Varying Speed



\*Savings based on single speed pool pumps traditionally configured without VFD's, up to 20% larger than actual required flow and head pressure. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump RPM, plumbing size and length, pump model, service factor and other hydraulic factors.

# COMMERCIAL ACU DRIVE™ XS

## VARIABLE FREQUENCY DRIVE (CONT'D)

### Ordering Information

| 3-PHASE INCLUDES FUSED DISCONNECT, BATTERY BACKUP, & PENTAIR SMART START*                                                                           |                          |                 |                       |                       |                 |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-----------------------|-----------------------|-----------------|-----------------|
| Horse Power (HP)                                                                                                                                    | NEMA-12 RATED (IP 54/55) |                 |                       | NEMA-4X RATED (IP 66) |                 |                 |
|                                                                                                                                                     | 200-240 VAC              | 360-480 VAC     | 525-800 VAC           | 200-240 VAC           | 360-480 VAC     | 525-800 VAC     |
| 3                                                                                                                                                   | AD030X-2303-N12          | AD030X-4603-N12 | AD030X-5753-N12       | AD030X-2303-N4X       | AD030X-4603-N4X | AD030X-5753-N4X |
| 5                                                                                                                                                   | AD050X-2303-N12          | AD050X-4603-N12 | AD050X-5753-N12       | AD050X-2303-N4X       | AD050X-4603-N4X | AD050X-5753-N4X |
| 7-1/2                                                                                                                                               | AD075X-2303-N12          | AD075X-4603-N12 | AD075X-5753-N12       | AD075X-2303-N4X       | AD075X-4603-N4X | AD075X-5753-N4X |
| 10                                                                                                                                                  | AD100X-2303-N12          | AD100X-4603-N12 | AD100X-5753-N12       | AD100X-2303-N4X       | AD100X-4603-N4X | AD100X-5753-N4X |
| 15                                                                                                                                                  | AD150X-2303-N12          | AD150X-4603-N12 | AD150X-5753-N12       | AD150X-2303-N4X       | AD150X-4603-N4X | AD150X-5753-N4X |
| 20                                                                                                                                                  | AD200X-2303-N12          | AD200X-4603-N12 | AD200X-5753-N12       | AD200X-2303-N4X       | AD200X-4603-N4X | AD200X-5753-N4X |
| 25                                                                                                                                                  | AD250X-2303-N12          | AD250X-4603-N12 | AD250X-5753-N12       | AD250X-2303-N4X       | AD250X-4603-N4X | AD250X-5753-N4X |
| SINGLE-PHASE INPUT DRIVES (FOR USE WITH 3-PHASE PUMPS ONLY)<br>INCLUDES STANDARD DISCONNECT ONLY (NO FUSES), BATTERY BACKUP, & PENTAIR SMART START* |                          |                 |                       |                       |                 |                 |
| Horse Power (HP)                                                                                                                                    | NEMA-12 RATED (IP 54/55) |                 | NEMA-4X RATED (IP 66) |                       |                 |                 |
|                                                                                                                                                     | 200-240 VAC              |                 | 200-240 VAC           |                       |                 |                 |
| 3                                                                                                                                                   | AD030X-2301-N12          |                 | AD030X-2301-N4X       |                       |                 |                 |
| 5                                                                                                                                                   | AD050X-2301-N12          |                 | AD050X-2301-N4X       |                       |                 |                 |
| 7-1/2                                                                                                                                               | AD075X-2301-N12          |                 | AD075X-2301-N4X       |                       |                 |                 |
| 10                                                                                                                                                  | AD100X-2301-N12          |                 | AD100X-2301-N4X       |                       |                 |                 |
| 15-20                                                                                                                                               | AD200X-2301-N12          |                 | AD200X-2301-N4X       |                       |                 |                 |

For 30HP and higher - Please contact factory.

3-PHASE Units available with Optional Bypass Contactor mounted to common back plate. Please contact factory.

### \*Startup Services

CERTIFIED START-UP ASSISTANCE BY TRAINED TECHNICIANS IS AVAILABLE FOR PURCHASE WITH ALL ACU DRIVE VFD's.  
USE PRODUCT NUMBERS AS FOLLOWS:

AD-SUFW01 Batch Startup for 4-6 standard drives (8 hr. onsite / day)

### Optional Accessories and Warranties

\*ENHANCED SERVICE WARRANTY - ON SITE\*  
INCLUDES PARTS, LABOR, TRAVEL AND ON-SITE WARRANTY REPAIR.  
USE PRODUCT NUMBERS AS FOLLOWS:

| DURATION | 200-240 VAC  |           | 360-480 VAC   |           |
|----------|--------------|-----------|---------------|-----------|
|          | 3 HP & Below | 5-25 HP   | 10 HP & Below | 15-40 HP  |
| 6 YEARS  | AD-EWW172    | AD-EWW272 | AD-EWW172     | AD-EWW272 |

### Flow Sensor Options

| ACU DRIVE XS - FLOW SENSOR KITS |                          |                                                    |                       |                                               |  |
|---------------------------------|--------------------------|----------------------------------------------------|-----------------------|-----------------------------------------------|--|
| Pipe Size (inches)              | NEMA-12 RATED (IP 54/55) |                                                    | NEMA-4X RATED (IP 66) |                                               |  |
|                                 | 200-240 VAC              | 525-800 VAC                                        | 200-240 VAC           | 525-800 VAC                                   |  |
| 2"                              | 97014-4202KIT            | Includes:                                          | —                     | Includes:                                     |  |
| 3"                              | 97014-4203KIT            | • Sch80 PVC Clamp-on Pipe Saddle.                  | 97014BL-03KIT         | • Sch80 PVC Clamp-on Pipe Saddle (3"-8").     |  |
| 4"                              | 97014-4204KIT            | • 100 linear feet shielded signal wire.            | 97014BL-04KIT         | • Iron Saddle (10"-14").                      |  |
| 6"                              | 97016-4206KIT            | • Strain relief connector.                         | 97016BL-06KIT         | • 100 linear feet shielded signal wire.       |  |
| 8"                              | 97016-4208KIT            | Does not include separate wall-mount flow display. | 97016BL-08KIT         | • Strain relief connector.                    |  |
| 10"                             | —                        |                                                    | 97020BL-10KIT         | Separate wall-mount flow display/transmitter. |  |
| 12"                             | —                        |                                                    | 97020BL-12KIT         |                                               |  |
| 14"                             | —                        |                                                    | 97020BL-14KIT         |                                               |  |

\*Additional charges will apply if on-site start-up exceeds four hours (including round-trip travel) per Acu Drive XS Drive.

Other options and add-ons are available including "Bypass Contactors", and "Contact Motor Select" upgrades, and additional on-site technical training. For more information on these options, other sizes, or applications assistance call 1-800-831-7133.

Some pump motors (e.g. 230/460V versions) can be wired to accommodate multiple voltages. This is not true of VFDs. In order to ensure proper VFD selection, the actual pump motor input voltage must be consistent with the drives operating range as shown.

The Acu Drive VF Drive is recommended for use with all "High" or "Premium" efficiency motors and all motors that have Class F insulation or better. For all non-Class F motors, please contact the factory for proper selection of Acu Drive XS Drive and accessories.

Standard Acu Drive XS VF Drives can be returned within 12 months of invoice only if unused, in original packaging, and subject to a 35% restocking charge. Special drives are non-returnable.

Nema Rated 12 enclosure provides protection against dust, dirt and light splashing. Nema Rated 12 units may be used outdoors when sheltered from direct precipitation and sunlight.

Nema Rated 4X enclosure provides a degree of protection against solid foreign objects (windblown dust), water (rain, sleet, snow, splashing water, and hose directed water), and an additional level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.

#### CALIFORNIA PROPOSITION 65 WARNING

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[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## EQ SERIES®

## COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER

EQ Series TEFC Pump  
with StrainerEQ Series Pump  
without Strainer

Commercial Plastic pump built specifically for commercial and large residential pools. Pump features electrical and hydraulic designs that helps reduce wear and tear on critical moving parts, and is lightweight for ease of installation.

## CALIFORNIA PROPOSITION 65 WARNING

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## Featured Highlights

- Efficiency 3-phase motors
- Commercial grade, non-corrosive Plastic Parts for durability and long life
- Now available in TEFC and ODP 3-phase motor options
- Cam and Ramp™ See -Through Lid
- Self-priming with Hair and Lint Strainer
- Light weight
- 3-phase models compatible with Acu Drive™ XS VF Drive
- Drop-in replacement for C Series® and CSP Series™ Pumps
- Waterfall models great for low head, high flow applications
- Easy cleaning and serviceability
- 50 Hz models available -contact factory

## Ordering Information

| Product                                                                               | Description | Voltage     | Amps           | HP  | SF   | SFHP  | Primary Listings and Certifications * | Port Size (ANSI Flange) | Motor Class | Carton Wt. (Lbs.) | Curve Key |
|---------------------------------------------------------------------------------------|-------------|-------------|----------------|-----|------|-------|---------------------------------------|-------------------------|-------------|-------------------|-----------|
| NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITHOUT STRAINER - TEFC           |             |             |                |     |      |       |                                       |                         |             |                   |           |
| ▶ 340608                                                                              | EQKT-500    | 208-230/460 | 13.4-12.2/6.1  | 5   | 1.25 | 6.25  | NSF <sup>2</sup> , UL <sup>7</sup>    | 6 in. x 4 in.           | F           | 97                | D         |
| ▶ 340609                                                                              | EQKT-750    | 208-230/460 | 19.9-17.8/8.9  | 7.5 | 1.25 | 9.38  | NSF <sup>2</sup> , UL <sup>7</sup>    | 6 in. x 4 in.           | F           | 117               | E         |
| ▶ 340610                                                                              | EQKT-1000   | 208-230/460 | 26.4-23.5/11.7 | 10  | 1.25 | 12.50 | NSF <sup>2</sup> , UL <sup>7</sup>    | 6 in. x 4 in.           | F           | 163               | F         |
| ▶ 340611                                                                              | EQKT-1500   | 208-230/460 | 39.0-36.0/18.0 | 15  | 1.25 | 18.75 | NSF <sup>2</sup> , UL <sup>8</sup>    | 6 in. x 4 in.           | F           | 177               | G         |
| NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITHOUT STRAINER - 575 VOLT - ODP |             |             |                |     |      |       |                                       |                         |             |                   |           |
| ▶ 340148                                                                              | EQK-500     | 575         | 5.1            | 5   | 1.15 | 5.75  | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 77                | D         |
| ▶ 340149                                                                              | EQK-750     | 575         | 7.2            | 7.5 | 1.15 | 8.63  | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 87                | E         |
| ▶ 340150                                                                              | EQK-1000    | 575         | 10.2           | 10  | 1.15 | 11.50 | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 117               | F         |
| ▶ 340151                                                                              | EQK-1500    | 575         | 15.0           | 15  | 1.15 | 17.25 | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 132               | G         |
| PREMIUM EFFICIENCY SINGLE PHASE POOL PUMP WITH STRAINER - ODP                         |             |             |                |     |      |       |                                       |                         |             |                   |           |
| ▶ 340030                                                                              | EQ-500      | 230         | 20.0           | 5   | 1.15 | 5.75  | NSF <sup>3</sup> , ETL <sup>5</sup>   | 6 in. x 4 in.           | F           | 126               | A         |
| ▶ 340032                                                                              | EQ-750      | 230         | 30.4           | 7.5 | 1.15 | 8.63  | NSF <sup>3</sup>                      | 6 in. x 4 in.           | F           | 161               | B         |
| ▶ 340238                                                                              | EQ-1000     | 230         | 40.0           | 10  | 1.15 | 11.50 | NSF <sup>3</sup>                      | 6 in. x 4 in.           | F           | 160               | C         |
| NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITH STRAINER - ODP               |             |             |                |     |      |       |                                       |                         |             |                   |           |
| ▶ 340031                                                                              | EQK-500     | 208-230/460 | 13.5-12.3/6.2  | 5   | 1.15 | 5.75  | NSF <sup>3</sup>                      | 6 in. x 4 in.           | F           | 106               | D         |
| ▶ 340033                                                                              | EQK-750     | 208-230/460 | 20.1-18.3/9.1  | 7.5 | 1.15 | 8.63  | NSF <sup>3</sup>                      | 6 in. x 4 in.           | F           | 116               | E         |
| ▶ 340034                                                                              | EQK-1000    | 208-230/460 | 27.0/26.2/13.1 | 10  | 1.15 | 11.50 | NSF <sup>3</sup>                      | 6 in. x 4 in.           | F           | 146               | F         |
| ▶ 340035                                                                              | EQK-1500    | 208-230/460 | 40.0-36.0/17.8 | 15  | 1.15 | 17.25 | NSF <sup>3</sup>                      | 6 in. x 4 in.           | F           | 161               | G         |
| NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITH STRAINER - TEFC              |             |             |                |     |      |       |                                       |                         |             |                   |           |
| ▶ 340604                                                                              | EQKT-500    | 208-230/460 | 13.4-12.2/6.1  | 5   | 1.25 | 6.25  | NSF <sup>3</sup> , UL <sup>7</sup>    | 6 in. x 4 in.           | F           | 127               | D         |
| ▶ 340605                                                                              | EQKT-750    | 208-230/460 | 19.9-17.8/8.9  | 7.5 | 1.25 | 9.38  | NSF <sup>3</sup> , UL <sup>7</sup>    | 6 in. x 4 in.           | F           | 147               | E         |
| ▶ 340606                                                                              | EQKT-1000   | 208-230/460 | 26.4-23.5/11.7 | 10  | 1.25 | 12.50 | NSF <sup>3</sup> , UL <sup>7</sup>    | 6 in. x 4 in.           | F           | 193               | F         |
| ▶ 340607                                                                              | EQKT-1500   | 208-230/460 | 39.0-36.0/18.0 | 15  | 1.25 | 18.75 | NSF <sup>3</sup> , UL <sup>8</sup>    | 6 in. x 4 in.           | F           | 207               | G         |

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2023.

SEE PAGE 427 FOR REPLACEMENT PARTS

## EQ SERIES®

## COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER (CONT'D)

| Product                                                                                   | Description                                                                   | Voltage | Amps | HP  | SF   | SFHP  | Primary Listings and Certifications * | Port Size (ANSI Flange) | Motor Class | Carton Wt. (Lbs.) | Curve Key |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------|------|-----|------|-------|---------------------------------------|-------------------------|-------------|-------------------|-----------|
| <b>NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITH STRAINER - ODP - 575 VOLT</b> |                                                                               |         |      |     |      |       |                                       |                         |             |                   |           |
| ▶ 340155                                                                                  | EQK-500                                                                       | 575     | 5.1  | 5   | 1.15 | 5.75  | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 106               | D         |
| ▶ 340156                                                                                  | EQK-750                                                                       | 575     | 7.2  | 7.5 | 1.15 | 8.63  | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 116               | E         |
| ▶ 340157                                                                                  | EQK-1000                                                                      | 575     | 10.2 | 10  | 1.15 | 11.50 | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 146               | F         |
| ▶ 340159                                                                                  | EQK-1500                                                                      | 575     | 15.0 | 15  | 1.15 | 17.25 | NSF <sup>2</sup>                      | 6 in. x 4 in.           | F           | 161               | G         |
| <b>HAIR AND LINT STRAINER WITH CAM AND RAMP LID, BASKET AND HARDWARE</b>                  |                                                                               |         |      |     |      |       |                                       |                         |             |                   |           |
| 340013                                                                                    | EQ 6X6 Strainer                                                               |         |      |     |      |       | NSF <sup>4</sup>                      | 6 in. x 6 in.           |             | 33                | J         |
| <b>EQ SERIES PUMP ACCESSORIES FLANGE ASSEMBLY KITS</b>                                    |                                                                               |         |      |     |      |       |                                       |                         |             |                   |           |
| 357262                                                                                    | Flange 4 in. w/ gasket and SS hardware <sup>5</sup>                           |         |      |     |      |       | (See images on next page)             |                         |             | 20                |           |
| 357263                                                                                    | Flange 6 in. w/ gasket and SS hardware <sup>5</sup>                           |         |      |     |      |       | (See images on next page)             |                         |             | 23                |           |
| 357212                                                                                    | Flange 6 in. w/ gasket and SS hardware. For use on EQ Pumps without Strainer. |         |      |     |      |       |                                       |                         |             | 23                |           |

<sup>1</sup> Thermoplastic PVC socket style.

<sup>2</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Non Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>3</sup> 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>4</sup> 'NSF' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.

<sup>5</sup> 'ETL' indicates that pump bears a specific ETL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools And Spas. (Enclosure 3).

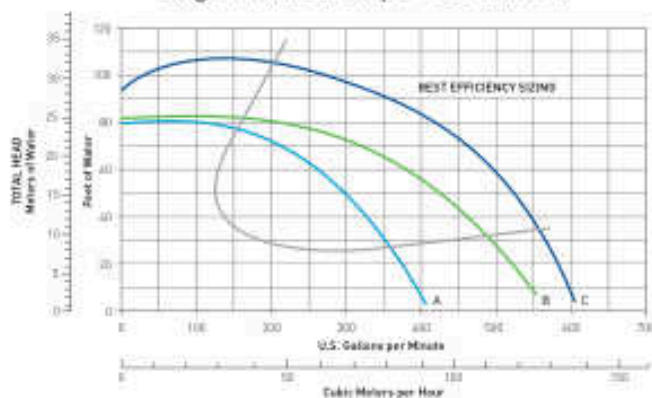
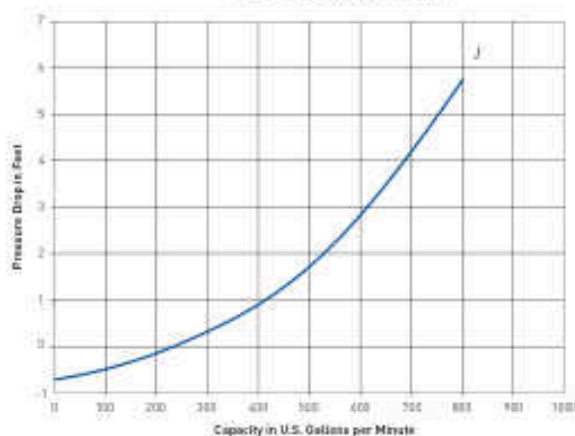
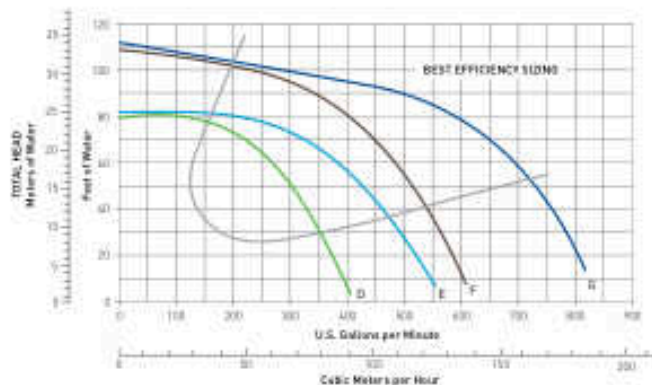
<sup>6</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

<sup>7</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

<sup>8</sup> 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps.



**Dimensions and Performance - See next page.**

**EQ SERIES®****COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER (CONT'D)****Dimensions and Performance****Single Phase Pumps - EQ Models****EQ Strainer Only****Three Phase Pumps - EQK Models**

For detailed efficiency curves go to [www.pentaircommercial.com](http://www.pentaircommercial.com)

**CALIFORNIA PROPOSITION 65 WARNING**

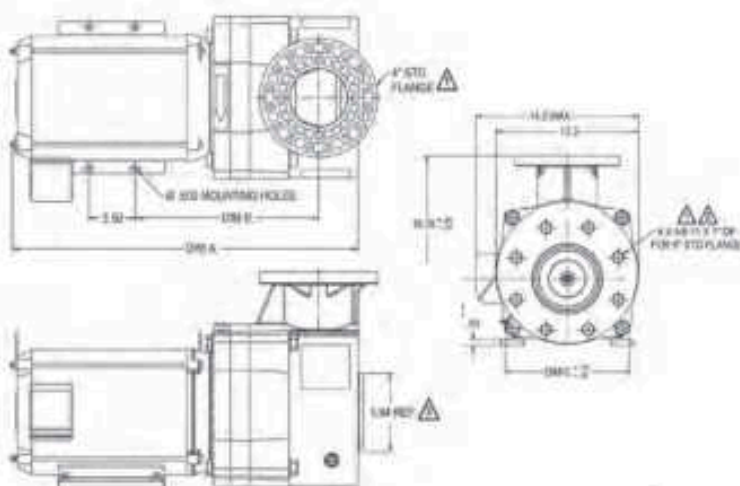
⚠ **WARNING:** Cancer and Reproductive Harm.  
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## EQ SERIES®

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER  
(CONT'D)

## Dimensions and Performance

EQ Series Commercial Pump without Strainer

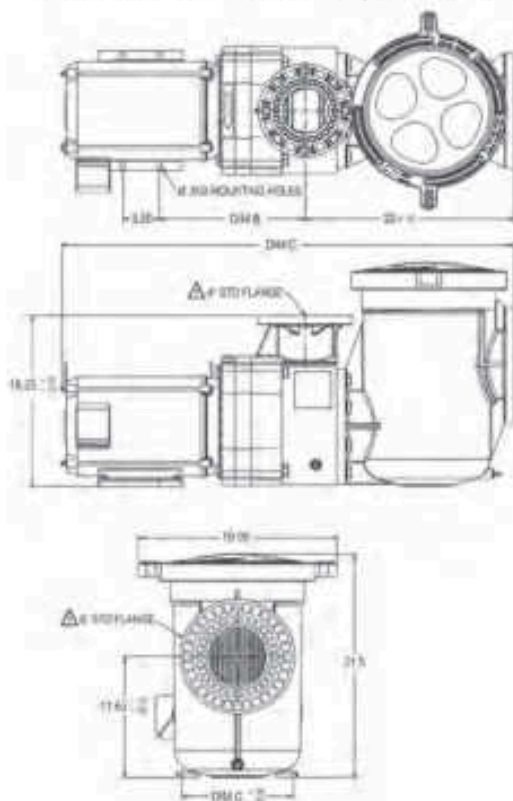


## CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: Cancer and Reproductive Harm.  
 ⚠ AVERTISSEMENT: Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

EQ Series Pump  
Flange Assembly Kit

EQ Series Commercial Pump with Strainer



| Product No.<br>W/O Pot | Product No.<br>W/ Pot | Dim A* | Dim B* | Dim C* | Dim D* |
|------------------------|-----------------------|--------|--------|--------|--------|
| 340014                 | 340026                | 26.62  | 13.32  | 9.69   | 43.59  |
| 340017                 | 340028                | 26.62  | 14.21  | 9.69   | 43.59  |
| 340019                 | 340030                | 26.62  | 13.32  | 9.69   | 43.59  |
| 340021                 | 340032                | 27.53  | 14.21  | 10.69  | 44.59  |
| 340237                 | 340238                | 26.94  | 14.03  | 10.69  | 43.92  |
| 340016                 | 340027                | 23.12  | 13.32  | 9.69   | 40.09  |
| 340018                 | 340029                | 23.12  | 13.32  | 9.69   | 40.09  |
| 340020                 | 340031                | 23.12  | 13.32  | 9.69   | 40.09  |
| 340022                 | 340033                | 24.50  | 13.32  | 9.69   | 41.56  |
| 340023                 | 340034                | 26.31  | 14.38  | 10.69  | 43.29  |
| 340024                 | 340035                | 26.31  | 14.38  | 10.69  | 43.29  |
| 340148                 | 340155                | 24.62  | 13.32  | 7.50   | 41.09  |
| 340149                 | 340156                | 24.62  | 13.32  | 7.50   | 41.09  |
| 340150                 | 340157                | 26.31  | 14.07  | 8.50   | 43.29  |
| 340151                 | 340159                | 26.31  | 14.07  | 8.50   | 43.29  |
| 340608                 | 340604                | 24.52  | 13.48  | 9.69   | 41.50  |
| 340609                 | 340605                | 26.52  | 14.19  | 10.69  | 43.50  |
| 340010                 | 340606                | 28.02  | 14.19  | 10.69  | 45.00  |
| 340611                 | 340607                | 28.02  | 14.19  | 10.69  | 45.00  |
| 340086                 | 340082                | 24.62  | 13.48  | 9.69   | 41.50  |
| 340085                 | 340081                | 24.62  | 13.48  | 9.69   | 41.50  |
| 340084                 | 340080                | 26.31  | 14.19  | 10.69  | 45.29  |
| 340083                 | 340049                | 26.31  | 14.19  | 10.69  | 45.29  |
| 340048                 | 340046                | 26.31  | 14.19  | 10.69  | 45.29  |
| 340047                 | 340045                | 26.31  | 14.19  | 10.69  | 45.29  |

\* This value may vary slightly depending upon manufacturer and motor design.

- ⚠ FASTENERS AND O-RING ARE INCLUDED WITH PENTAIR POOL PRODUCTS 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 CLASS 150 PLASTIC FLANGE AND 1/2 IN THICK CLASS 150 FULL FLANGE GASKET TO MAKE CONNECTION.
- ⚠ THIS DIAMETER FITS INSIDE 8 IN SCH 40 PIPE. DO NOT USE SCH 40 PIPE AS FINAL PIPE SIZE WHEN MAKING THIS FLANGE CONNECTION.

# C SERIES®

## COMMERCIAL BRONZE PUMPS



C Series Commercial Bronze Pump

Bronze volute and pot, coated cast iron foot, flanged connections, 6 in. suction, 4 in. discharge.

### Featured Highlights

- Large commercial pump with s/s basket
- Easy serviceability
- All-bronze construction for strength and durability
- 6 in. suction and 4 in. discharge for maximum capabilities
- Heavy-gauge stainless steel strainer basket with an open area 5 times the area of the suction port
- Closed impeller for longer motor bearing life
- Heat-resistant seal capable of operation at up to 150°
- Available in single and three-phase, 50 and 60-Hertz models
- For 200-208v applications order 200-208v model pump

### Ordering Information

| Product                                             | Description | Voltage | Amps      | HP    | SF   | SFHP  | Primary Listings and Certifications <sup>1</sup> | Motor Class | Port Size (ANSI Flange) | Carton Wt. (Lbs.) | Curve Key |
|-----------------------------------------------------|-------------|---------|-----------|-------|------|-------|--------------------------------------------------|-------------|-------------------------|-------------------|-----------|
| NEMA RATED STANDARD EFFICIENCY THREE PHASE 220/440V |             |         |           |       |      |       |                                                  |             |                         |                   |           |
| 011657                                              | CHK-50      | 220/440 | 13.0/6.5  | 5     | 1.15 | 5.75  | NSF <sup>2</sup>                                 | F           | 6 in. x 4 in.           | 336               | A         |
| 011658                                              | CHK-75      | 220/440 | 18.4/9.2  | 7-1/2 | 1.15 | 8.63  | NSF <sup>2</sup>                                 | F           | 6 in. x 4 in.           | 349               | B         |
| 011659                                              | CHK-100     | 220/440 | 25.3/12.6 | 10    | 1.15 | 11.50 | NSF <sup>2</sup>                                 | B           | 6 in. x 4 in.           | 378               | C         |
| 011660                                              | CHK-150     | 220/440 | 37.5/18.8 | 15    | 1.15 | 17.25 | NSF <sup>2</sup>                                 | B           | 6 in. x 4 in.           | 398               | D         |
| 011661                                              | CHK-200     | 220/440 | 49.0/24.6 | 20    | 1.15 | 23.00 | NSF <sup>2</sup>                                 | F           | 6 in. x 4 in.           | 403               | E         |

#### CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.  
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.  
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

<sup>1</sup> This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

SEE PAGE 427 FOR REPLACEMENT PARTS

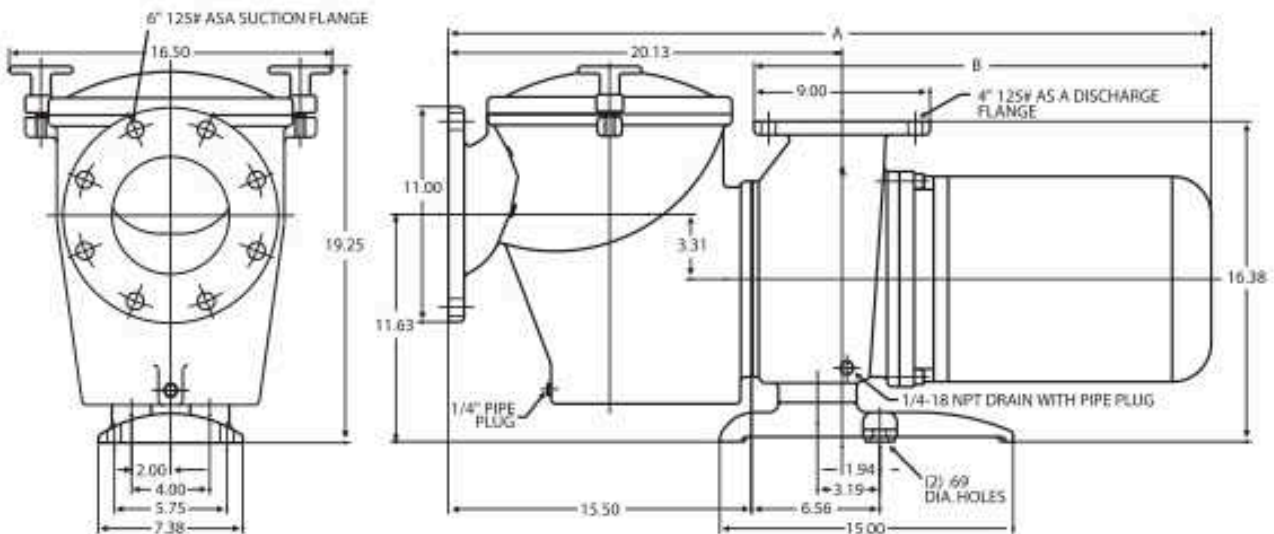
**C SERIES®****COMMERCIAL BRONZE PUMPS (CONT'D) WITH HAIR AND LINT STRAINER**

| Product                                                           | Description | Voltage | Amps      | HP | SF   | SFHP  | Primary Listings and Certifications <sup>1</sup> | Motor Class | Port Size (ANSI Flange) | Carton Wt. (Lbs.) | Curve Key |
|-------------------------------------------------------------------|-------------|---------|-----------|----|------|-------|--------------------------------------------------|-------------|-------------------------|-------------------|-----------|
| <b>NEMA RATED STANDARD EFFICIENCY THREE PHASE 575V</b>            |             |         |           |    |      |       |                                                  |             |                         |                   |           |
| 347967                                                            | CHK-50      | 575     | 5.6       | 5  | 1.15 | 5.75  | NSF <sup>1</sup>                                 | F           | 6 in. x 4 in.           | 336               | A         |
| 347935                                                            | CHK-200     | 575     | 19.5      | 20 | 1.15 | 23.00 | NSF <sup>1</sup>                                 | F           | 6 in. x 4 in.           | 406               | E         |
| <b>NEMA RATED STANDARD EFFICIENCY THREE PHASE 380-415V- 50 HZ</b> |             |         |           |    |      |       |                                                  |             |                         |                   |           |
| 014884                                                            | CHKL-200    | 380-415 | 26.0-26.0 | 20 | 1.15 | 23.00 | NSF <sup>1</sup>                                 | F           | 6 in. x 4 in.           | 403               |           |

<sup>1</sup> This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

<sup>1</sup> "NSF" indicates that pump has been certified to NSF/ANSI 50, the Standard for Equipment for swimming pools, spas, hot tubs and other recreational water features.

<sup>2</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

**Dimensions and Performance**

| PUMP DIMENSIONS                        |      |       |       |  |
|----------------------------------------|------|-------|-------|--|
| THREE-PHASE AMPS @ 220/440 & 380/415 V |      |       |       |  |
| HP                                     | AMPS | A     | B     |  |
| 5                                      | 14   | 34.88 | 19.50 |  |
| 7.5                                    | 20   | 35.88 | 20.50 |  |
| 10                                     | 26   | 36.88 | 22.50 |  |
| 15                                     | 38   | 37.38 | 22.00 |  |
| 20                                     | 46   | 37.88 | 23.50 |  |

| PUMP DIMENSIONS               |      |       |       |  |
|-------------------------------|------|-------|-------|--|
| SINGLE-PHASE AMPS @ 230 VOLTS |      |       |       |  |
| HP                            | AMPS | A     | B     |  |
| 5                             | 26   | 35.50 | 20.50 |  |
| 7.5                           | 37   | 35.88 | 20.50 |  |

| PUMP DIMENSIONS               |      |       |       |  |
|-------------------------------|------|-------|-------|--|
| SINGLE-PHASE AMPS @ 200 VOLTS |      |       |       |  |
| HP                            | AMPS | A     | B     |  |
| 5                             | 29   | 35.50 | 20.50 |  |
| 7.5                           | 39.6 | 35.88 | 20.50 |  |

**NOTES:**

1. BOTH "A" AND "B" DIMENSIONS ARE APPROXIMATE IT DEPENDS ON MOTOR MANUFACTURER.

2. ALL DIMENSIONS ARE IN INCHES AND MAY VARY  $\pm .25$

**CALIFORNIA PROPOSITION 65 WARNING**

**WARNING:** Cancer and Reproductive Harm.  
**AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.  
**ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p6swarnings.ca.gov](http://www.p6swarnings.ca.gov)

**C SERIES®****COMMERCIAL BRONZE PUMPS (CONT'D) WITHOUT HAIR AND LINT STRAINER**

C Series Commercial Bronze Pump  
without Hair and Lint Strainer

**Featured Highlights**

- High-performance motors for maximum flow
- All-bronze construction for strength and durability
- 5 in. suction and 4 in. discharge for maximum capabilities
- Closed impeller for longer motor bearing life
- Heat-resistant seal capable of operation at up to 150°
- Available in single and three-phase, 50 and 60-hertz models
- For 200-208v applications order 200-208v model pump

**Ordering Information**

| Product                                                            | Description                                         | Voltage | Amps | HP | SF | SFHP | Primary Listings and Certifications <sup>1</sup> | Motor Class | Port Size (ANSI Flange) | Carton Wt. (Lbs.) | Curve Key |
|--------------------------------------------------------------------|-----------------------------------------------------|---------|------|----|----|------|--------------------------------------------------|-------------|-------------------------|-------------------|-----------|
| <b>C SERIES &amp; AURORA PUMP ACCESSORIES FLANGE ASSEMBLY KITS</b> |                                                     |         |      |    |    |      |                                                  |             |                         |                   |           |
| 357260                                                             | Flange 5 in. w/ gasket and SS hardware <sup>1</sup> |         |      |    |    |      | for pump less strainer                           |             |                         | 22                |           |
| 357262                                                             | Flange 4 in. w/ gasket and SS hardware <sup>1</sup> |         |      |    |    |      |                                                  |             |                         | 20                |           |
| 357263                                                             | Flange 6 in. w/ gasket and SS hardware <sup>1</sup> |         |      |    |    |      |                                                  |             |                         | 23                |           |

► This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

<sup>1</sup> Thermoplastic PVC socket style

<sup>2</sup> NSF(1)<sup>3</sup> indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Non Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

<sup>3</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

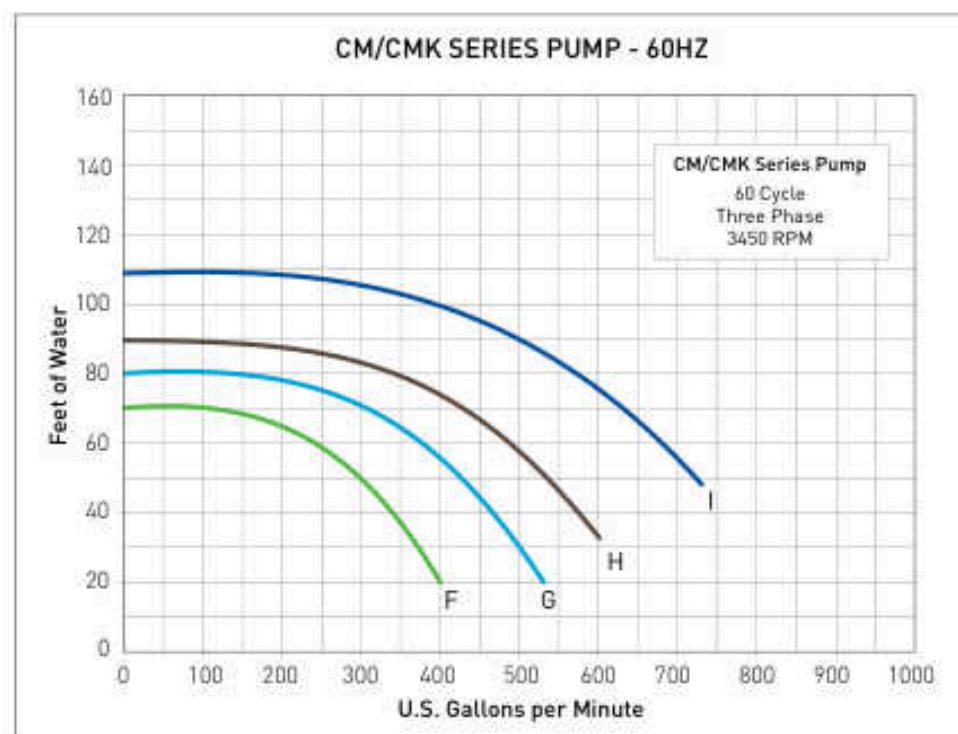
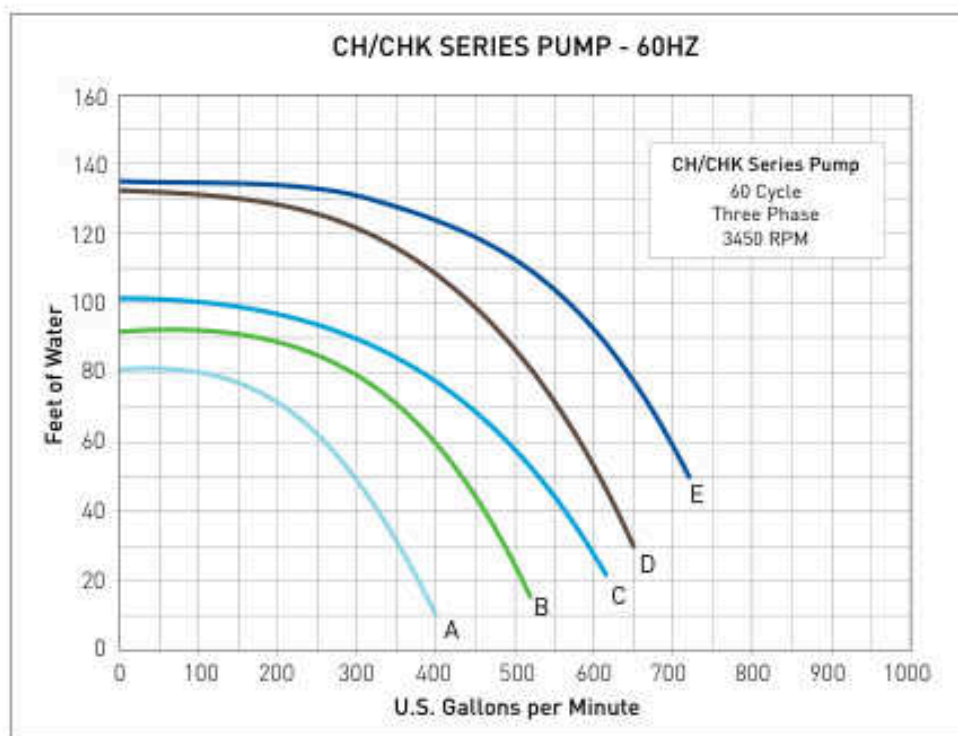
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 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

SEE PAGE 427 FOR REPLACEMENT PARTS

**C SERIES®**

## COMMERCIAL BRONZE PUMPS (CONT'D) WITH HAIR AND LINT STRAINER

**Dimensions and Performance**

For detailed efficiency curves go to [www.pentaircommercial.com](http://www.pentaircommercial.com)

## CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.  
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov/](http://www.p65warnings.ca.gov/)

SEE PAGE 427 FOR REPLACEMENT PARTS

# CSP/CCSP SERIES™

## COMMERCIAL SELF-PRIMING PUMP



CALIFORNIA PROPOSITION 65 WARNING  
 ⚠️ WARNING: Cancer and Reproductive Harm.  
 ⚠️ AVERTISSEMENT: Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠️ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

CSP/CCSP Series  
 Commercial Self-Priming  
 Pump with PKG 184  
 Strainer (sold separately)

### Featured Highlights

- Especially designed for commercial and public swimming pools and spas, aquatic facilities, water parks, and fountain applications where high performance and self-priming are required
- Pump has enclosed bronze impeller and standard 6 in. x 4 in. A.N.S.I. rated flange connections
- The pump strainer (order separately) has capacity of 1,100 cubic inches. Both pump and strainer can be ordered with optional epoxy coated castings to provide additional performance and corrosion resistance

### Ordering Information

| Product                                                                                      | Voltage                                                          | Amps <sup>1</sup> | HP    | SF   | SFHP  | Primary Listings and Certifications <sup>4</sup> | Port Size (ANSI Flange) | Carton Wt. (Lbs.) | Curve Key |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------|-------|------|-------|--------------------------------------------------|-------------------------|-------------------|-----------|
| <b>NEMA RATED STANDARD EFFICIENCY SINGLE PHASE EPOXY COATED CAST IRON</b>                    |                                                                  |                   |       |      |       |                                                  |                         |                   |           |
| ▶ CCSPHK-142                                                                                 | 230                                                              | 39                | 7.5   | 1.15 | 8.63  | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 270               | E         |
| ▶ CCSPHL-143                                                                                 | 230                                                              | 46                | 10    | 1.15 | 11.50 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 275               | F         |
| <b>NEMA RATED STANDARD EFFICIENCY THREE PHASE CAST IRON</b>                                  |                                                                  |                   |       |      |       |                                                  |                         |                   |           |
| ▶ CSPHK3-142                                                                                 | 230/460                                                          | 21.2-19.2/9.6     | 7-1/2 | 1.25 | 9.38  | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 265               | A         |
| ▶ CSPHL3-143                                                                                 | 230/460                                                          | 27.6-24.4/12.2    | 10    | 1.25 | 12.50 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 270               | B         |
| ▶ CSPHM3-144                                                                                 | 230/460                                                          | 44.2-40/20        | 15    | 1.25 | 18.75 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 280               | C         |
| ▶ CSPHN3-145                                                                                 | 230/460                                                          | 55.3-50/25        | 20    | 1.25 | 25.00 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 325               | D         |
| <b>NEMA RATED STANDARD EFFICIENCY THREE PHASE CAST IRON - 200V<sup>6</sup></b>               |                                                                  |                   |       |      |       |                                                  |                         |                   |           |
| ▶ CSPH2K3-142                                                                                | 200                                                              | 22.1              | 7-1/2 | 1.15 | 8.63  | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 265               | A         |
| ▶ CSPH2L3-143                                                                                | 200                                                              | 26.1              | 10    | 1.25 | 12.50 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 270               | B         |
| ▶ CSPH2M3-144                                                                                | 200                                                              | 42.3              | 15    | 1.25 | 18.75 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 280               | C         |
| ▶ CSPH2N3-145                                                                                | 200                                                              | 57.3              | 20    | 1.25 | 25.00 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 350               | D         |
| <b>NEMA RATED STANDARD EFFICIENCY THREE PHASE EPOXY COATED CAST IRON</b>                     |                                                                  |                   |       |      |       |                                                  |                         |                   |           |
| ▶ CCSPHK3-142                                                                                | 230/460                                                          | 21.2-19.2/9.6     | 7-1/2 | 1.25 | 9.38  | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 265               | E         |
| ▶ CCSPHL3-143                                                                                | 230/460                                                          | 27.6-24.4/12.2    | 10    | 1.25 | 12.50 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 270               | F         |
| ▶ CCSPHM3-144                                                                                | 230/460                                                          | 44.2-40/20        | 15    | 1.25 | 18.75 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 280               | G         |
| ▶ CCSPHN3-145                                                                                | 230/460                                                          | 55.3-50/25        | 20    | 1.25 | 25.00 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 325               | H         |
| <b>NEMA RATED STANDARD EFFICIENCY THREE PHASE EPOXY COATED CAST IRON - 200 V<sup>6</sup></b> |                                                                  |                   |       |      |       |                                                  |                         |                   |           |
| ▶ CCSPH2K3-142                                                                               | 200                                                              | 22.1              | 7-1/2 | 1.15 | 8.63  | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 265               | E         |
| ▶ CCSPH2L3-143                                                                               | 200                                                              | 26.1              | 10    | 1.25 | 12.50 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 270               | F         |
| ▶ CCSPH2M3-144                                                                               | 200                                                              | 42.3              | 15    | 1.25 | 18.75 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 280               | G         |
| ▶ CCSPH2N3-145                                                                               | 200                                                              | 57.3              | 20    | 1.25 | 25.00 | NSF <sup>2</sup>                                 | 6 in. x 4 in.           | 350               | H         |
| <b>ACCESSORIES FOR CSP/CCSP SERIES</b>                                                       |                                                                  |                   |       |      |       |                                                  |                         |                   |           |
| PKG 184                                                                                      | Strainer for CSP/CCSP 6 in. ANSI flange (1,100 cu. in. capacity) |                   |       |      |       | NSF <sup>2</sup>                                 | 6 in. x 6 in.           | 180               | I         |
| PKG 184C                                                                                     | Same as PKG 184 Except Strainer is Epoxy Coated                  |                   |       |      |       | NSF <sup>2</sup>                                 | 6 in. x 6 in.           | 180               | I         |
| 357262                                                                                       | Flange 4 in. w/ gasket and SS hardware <sup>5</sup>              |                   |       |      |       |                                                  |                         | 20                |           |
| 357263                                                                                       | Flange 6 in. w/ gasket and SS hardware <sup>5</sup>              |                   |       |      |       |                                                  |                         | 23                |           |

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2023.

<sup>1</sup> Amp draw may vary depending on motor manufacturer.

<sup>2</sup> 'NSF(1)' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools And Spas.

<sup>3</sup> 'NSF(2)' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.

<sup>4</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

<sup>5</sup> Thermoplastic PVC socket style.

<sup>6</sup> For 208 volt applications, use 200v model options.



# 5CSP/5CCSP SERIES™

## 50 HERTZ COMMERCIAL SELF-PRIMING PUMP



5CSP/5CCSP Series Commercial Self-Priming Pump  
with PKG 184 Strainer Pot (sold separately)

### Featured Highlights

- Especially designed for commercial and public swimming pools and spas, aquatic facilities, water parks, and fountain applications where high performance and self-priming are required
- Pump has enclosed bronze impeller and standard 6 in. x 4 in. A.N.S.I. flange connections
- The pump strainer (order separately) has capacity of 1,100 cubic inches. Both pump and strainer can be ordered with optional epoxy coated castings to provide additional performance and corrosion resistance

- **Note: 50 hertz pumps cannot be used in North America.**

### Ordering Information

| Product                                                     | Voltage                                                          | Amps <sup>1</sup>   | HP    | SF   | SFHP  | Primary Listings and Certifications <sup>3</sup> | Port Size (ANSI Flange) | Carton Wt. (Lbs.) | Curve Key |
|-------------------------------------------------------------|------------------------------------------------------------------|---------------------|-------|------|-------|--------------------------------------------------|-------------------------|-------------------|-----------|
| SINGLE PHASE CAST IRON WITHOUT STRAINER - 50 HZ             |                                                                  |                     |       |      |       |                                                  |                         |                   |           |
| 5CSPHJ-142                                                  | 220-240                                                          | 35.5-32.5           | 5     | 1.00 | 5     |                                                  | 6 in. x 4 in.           | 270               | A         |
| 5CSPHK-143                                                  | 220-240                                                          | 43.0-39.4           | 7-1/2 | 1.00 | 7-1/2 |                                                  | 6 in. x 4 in.           | 280               | B         |
| THREE PHASE CAST IRON WITHOUT STRAINER - 50 HZ              |                                                                  |                     |       |      |       |                                                  |                         |                   |           |
| 5CSPHJ3-142                                                 | 220-240/380-415                                                  | 13.0/6.9            | 5     | 1.00 | 5     |                                                  | 6 in. x 4 in.           | 260               | A         |
| 5CSPHK3-143                                                 | 220-240/380-415                                                  | 20.7-21.5/12.0/12.4 | 7-1/2 | 1.00 | 7-1/2 |                                                  | 6 in. x 4 in.           | 270               | B         |
| 5CSPHL3-144                                                 | 220-240/380-415                                                  | 27.0-27.5/15.6-15.9 | 10    | 1.00 | 10    |                                                  | 6 in. x 4 in.           | 280               | C         |
| 5CSPHM3-145                                                 | 220-240/380-415                                                  | 38.9-20.6           | 15    | 1.00 | 15    |                                                  | 6 in. x 4 in.           | 300               | D         |
| THREE PHASE EPOXY COATED CAST IRON WITHOUT STRAINER - 50 HZ |                                                                  |                     |       |      |       |                                                  |                         |                   |           |
| 5CCSPHJ3-142                                                | 220-240/380-415                                                  | 13.0/6.9            | 5     | 1.00 | 5     |                                                  | 6 in. x 4 in.           | 260               | A         |
| 5CCSPHK3-143                                                | 220-240/380-415                                                  | 20.7-11.0           | 7-1/2 | 1.00 | 7-1/2 |                                                  | 6 in. x 4 in.           | 270               | B         |
| 5CCSPHL3-144                                                | 220-240/380-415                                                  | 26.9-14.3           | 10    | 1.00 | 10    |                                                  | 6 in. x 4 in.           | 280               | C         |
| 5CCSPHM3-145                                                | 220-240/380-415                                                  | 38.9-20.6           | 15    | 1.00 | 15    |                                                  | 6 in. x 4 in.           | 300               | D         |
| ACCESSORIES FOR 5CSP/5CCSP SERIES                           |                                                                  |                     |       |      |       |                                                  |                         |                   |           |
| PKG 184                                                     | Strainer for CSP/CCSP 6 in. ANSI flange (1,100 cu. in. capacity) |                     |       |      |       | NSF <sup>4</sup>                                 | 6 in. x 6 in.           | 180               | I         |
| PKG 184C                                                    | Same as PKG-184 Except Strainer is Epoxy Coated                  |                     |       |      |       | NSF <sup>4</sup>                                 | 6 in. x 6 in.           | 180               | I         |
| 357262                                                      | Flange 4 in. w/ gasket and SS hardware <sup>2</sup>              |                     |       |      |       |                                                  |                         | 20                |           |
| 357263                                                      | Flange 6 in. w/ gasket and SS hardware <sup>2</sup>              |                     |       |      |       |                                                  |                         | 23                |           |

<sup>1</sup> This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

<sup>2</sup> Amp draw may vary depending on motor manufacturer. Full load amps on motor model plate.

<sup>3</sup> Thermoplastic PVC socket style.

<sup>4</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

<sup>5</sup> 'NSF(2)' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.

#### CALIFORNIA PROPOSITION 65 WARNING

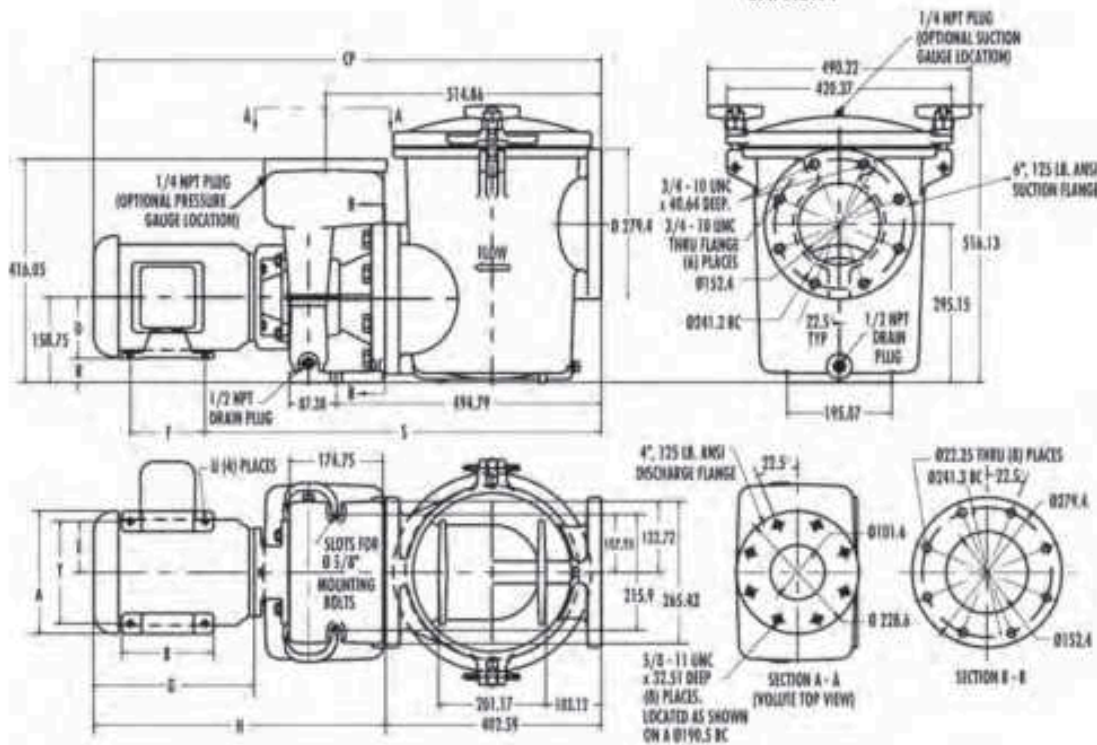
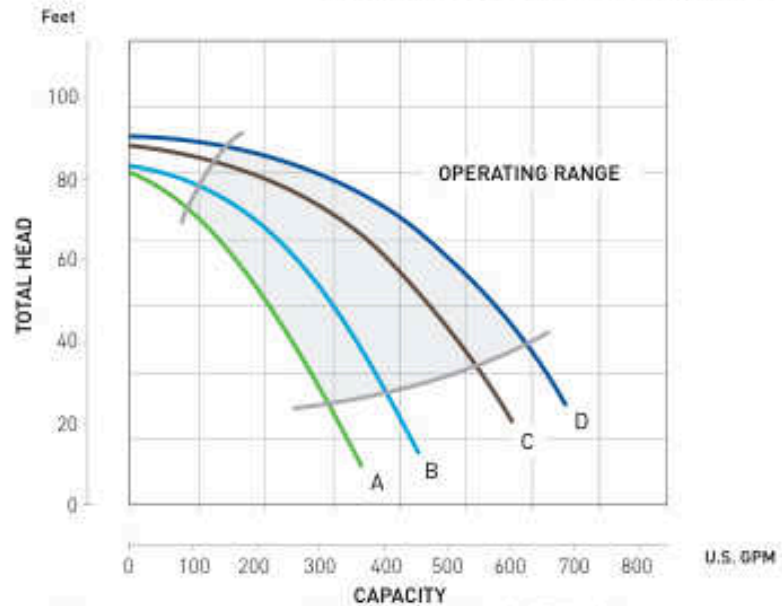
⚠ WARNING: Cancer and Reproductive Harm.  
 ⚠ AVERTISSEMENT: Peut Causer le Cancer  
 et des Dommages au Système Reproducteur.  
 ⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## 5CSP/5CCSP SERIES™

## 50 HERTZ COMMERCIAL SELF-PRIMING PUMP (CONT'D)

## Dimensions and Performance

CALIFORNIA PROPOSITION 65 WARNING  
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| Catalog Number | A      | B      | CP      | D      | E      | F      | R     | S      | T     |
|----------------|--------|--------|---------|--------|--------|--------|-------|--------|-------|
| 5CSPHJ         | 269.75 | 177.8  | 1039.62 | 133.25 | 107.95 | 139.7  | 25.4  | 733.3  | 215.9 |
| 5CSPHK         | 269.75 | 215.9  | 1075.69 | 133.25 | 107.95 | 177.8  | 25.4  | 733.3  | 215.9 |
| 5CSPHJ3        | 228.6  | 171.45 | 988.82  | 133.25 | 95.25  | 139.7  | 44.45 | 734.06 | 190.5 |
| 5CSPHK3        | 269.75 | 177.8  | 1039.62 | 133.25 | 107.95 | 139.7  | 25.4  | 733.3  | 215.9 |
| 5CSPHL3        | 269.75 | 215.9  | 1075.69 | 133.25 | 107.95 | 177.8  | 25.4  | 733.3  | 215.9 |
| 5CSPHM3        | 317.5  | 274.32 | 1185.67 | 158.75 | 127.0  | 209.55 | —     | 793.75 | 254.0 |

All dimensions shown in millimeters.

SEE PAGE 427 FOR REPLACEMENT PARTS

# AURORA® 3800 SERIES AND 410 SERIES

## END SUCTION AND SPLIT CASE PUMPS



3801

### Featured Highlights

- Multiple configurations available
- Models to 100 ft. TDH
- Compatible with Acu Drive™ XS VF Drive
- Cast Iron Stainless Steel Fitted Models
- Flooded Suction applications
- Highly reliable performance
- NSF certified models available
- Various flow capabilities for all applications
- Epoxy Coating option available
- ODP and TEFC motors in Standard and Premium efficiency available
- PS Series In-line Strainers match up to most Aurora pumps.

Pentair now offers the Aurora 3800 Series End Suction and the 410 Series Split Case Pumps for commercial pools, spas, and other water applications. The 3800 and 410 Series are available in horizontal and vertical configurations in horsepower to 150 and flows to 8,000 GPM.

### Ordering Information

| Product | Description | Carton Wt. (Lbs.) |
|---------|-------------|-------------------|
|---------|-------------|-------------------|

Please contact our factory (1-800-831-7133) for applications sizing, pricing, and availability.

| AURORA PUMP ACCESSORIES FLANGE ASSEMBLY KITS |                                                         |    |
|----------------------------------------------|---------------------------------------------------------|----|
| 357259                                       | Flange 2-1/2 in. w/ gasket and SS hardware <sup>1</sup> | 16 |
| 357260                                       | Flange 5 in. w/ gasket and SS hardware <sup>1</sup>     | 22 |
| 357261                                       | Flange 3 in. w/ gasket and SS hardware <sup>1</sup>     | 18 |
| 357262                                       | Flange 4 in. w/ gasket and SS hardware <sup>1</sup>     | 20 |
| 357263                                       | Flange 6 in. w/ gasket and SS hardware <sup>1</sup>     | 23 |

<sup>1</sup> Thermoplastic PVC socket style.

#### CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 427 FOR REPLACEMENT PARTS

# HYDROBOOST® BOOSTER PUMP

## PRESSURE-SIDE CLEANER PUMP

TRADEGRADE



HydroBoost Booster Pump

### Featured Highlights

- Totally Enclosed Fan Cooled (TEFC) Motor to help reduce the chance of motor burnout
- Certified by ENERGY STAR®
- Quick installation
- Reliable operation
- THP: 0.8    WEF: 0.62

The HydroBoost Booster Pump provides high pressure water to your pressure side automatic pool cleaner. This booster pump is NOT self-priming and should not run unless the filter pump is running.

### Ordering Information

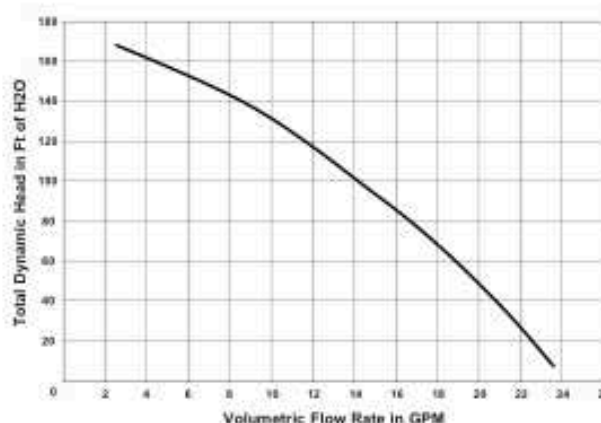
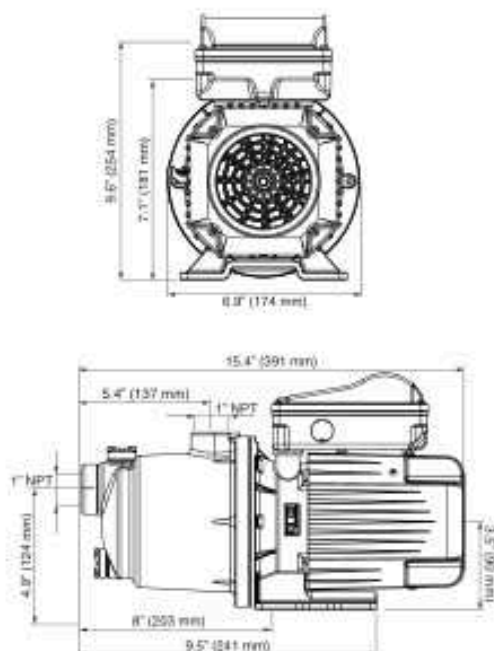
| Product                 | Voltage                                                    | Full Load Amps | THP | WEF  | Primary Listings and Certifications <sup>2</sup> | Port Size (NPT) | Carton Wt. (Lbs.) |
|-------------------------|------------------------------------------------------------|----------------|-----|------|--------------------------------------------------|-----------------|-------------------|
| HYDROBOOST BOOSTER PUMP |                                                            |                |     |      |                                                  |                 |                   |
| 360526                  | 115/230                                                    | 9.0/4.5        | 0.8 | 0.62 | UL <sup>1</sup>                                  | 1"              | 29.18             |
| ACCESSORIES             |                                                            |                |     |      |                                                  |                 |                   |
| 353040                  | Hose Kit (includes 3/4" - 1" Adapters (2); 6 ft. Hose (1)) |                |     |      |                                                  |                 |                   |

<sup>1</sup> "UL" indicates that pump bears a specific UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools And Spas. (Enclosure 3).

<sup>2</sup> Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

• Pumps and replacement motors that are single speed and one (1) Total HP or greater cannot be sold, offered for sale, or installed in a residential pool for filtration use in California, Title 20 CCR sections 1601-1609.

### Dimensions and Performance



#### CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 427 FOR REPLACEMENT PARTS

# PCD-1000 SUBMERSIBLE PUMP

## STAINLESS STEEL SUBMERSIBLE POOL SERVICE PUMP

Submersible Pool Service Pump



### Featured Highlights

- 115V, 60 Hz single phase, permanent split capacitor motor
- Automatic thermal overload protection
- Clog-resistant cast stainless steel impeller
- Accommodates water temperatures ranging from 32 degrees F to 130 degrees F
- Permanently lubricated ball bearings
- Equipped with 15-foot, 18/3 grounding type power cord
- Convenient top-mounted handle
- Rubber feet to reduce scratching
- Optional float switch included

The PCD-1000 submersible, portable, high capacity pump designed for use by the professional in draining pools and spas as well as for general purpose applications, now has improved flow rates, and stainless steel casing, suction strainer, impeller and shaft for greater corrosion resistance and longer service life.

The PCD-1000 can pump water down to 1-3/8 inches in depth. Debris and stones up to 3/4 inch are able to pass through the pump. It also features a 1-1/4 inch discharge port for faster draining. Discharge port adapters are included. Optional float switch included; switch stops pump when low water level reached. Remove float switch for constant run.



Adaptors included:

- 1-1/4 in. Female NPT Elbow
- 1-1/4 in. Male NPT to 1-1/2 in. Female NPT Adaptor



Optional Float Switch Included

CALIFORNIA PROPOSITION 65 WARNING  
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### Ordering Information

| Product                                     | Description              | Voltage | Full Load Amps | HP  | Carton Wt. (Lbs.) |
|---------------------------------------------|--------------------------|---------|----------------|-----|-------------------|
| STAINLESS STEEL SUBMERSIBLE WITH BRASS BASE |                          |         |                |     |                   |
| PCD-1000                                    | Submersible Utility Pump | 115     | 6.4            | 3/4 | 15                |
| ACCESSORIES                                 |                          |         |                |     |                   |
| ZBR46750                                    | Replacement Float Switch |         |                |     |                   |

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

### Dimensions and Performance

| Model    | HP  | Motor Full Load [Amps] | RPM  | Minimum Circuit Req. | Liquid Temperature Range | Switch Setting |               | Pumps Down To    |
|----------|-----|------------------------|------|----------------------|--------------------------|----------------|---------------|------------------|
|          |     |                        |      |                      |                          | On             | Off           |                  |
| PCD-1000 | 3/4 | 6.4                    | 3450 | 15 amps              | 32/130°F<br>0/54°C       | 12"<br>30 cm   | 6"<br>15.2 cm | 1 1/8"<br>3.5 cm |

| Pump Performance TDH/GPM |    |      |      |     |     | Shut Off Head |
|--------------------------|----|------|------|-----|-----|---------------|
| TDH                      | 5' | 10'  | 15'  | 20' | 25' | 28            |
| GPM                      | 55 | 45.5 | 36.5 | 25  | 8.5 | N/A           |

SEE PAGE 427 FOR REPLACEMENT PARTS

# PARTS-PAKS™ AND ACCESSORIES

## POINT-OF-SALE, STOCK ROOM, SERVICE VEHICLE

**OVERHAUL KITS** – Attractive, clamshell packaging contains recommended parts for seal/gasket servicing or complete overhaul of most swimming pool/spa pumps. Reduce the need for large parts inventories, protect parts from damage, and reduce paperwork.



| Pump Model by HP                                                   |         |           |     |       |
|--------------------------------------------------------------------|---------|-----------|-----|-------|
| Product                                                            | PE, P2R | PEA, P2RA | PR  | PRA   |
| <b>SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings</b> |         |           |     |       |
| PP1010                                                             | 1/3     | 1/3, 1/2  |     | 1/2   |
| PP1011                                                             | 1/2     | 3/4       | 1/2 | 3/4   |
| PP1012                                                             |         |           | 3/4 | 1     |
| PP1014                                                             | 3/4     | 1         |     |       |
| PP1016                                                             | 1       | 1-1/2     |     |       |
| PP1017                                                             | 2       | 2-1/2     | 2   | 2-1/2 |
| PP1018                                                             | 1-1/2   | 2         |     |       |
| PP1019                                                             | 3       |           |     |       |

| Pump Model by HP                                                   |            |               |     |
|--------------------------------------------------------------------|------------|---------------|-----|
| Product                                                            | CH, LT, LI | LHA, LTA, L1A | PCD |
| <b>SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings</b> |            |               |     |
| PP1080                                                             | 1/8        |               |     |
| PP1081                                                             | 1/3        | 1/2           |     |
| PP1082                                                             | 1/2        | 3/4           |     |
| PP1682                                                             |            |               | 1/2 |

### Ordering Information

| Pump Model by HP                                                   |          |            |            |
|--------------------------------------------------------------------|----------|------------|------------|
| Product                                                            | P4E, P4R | P4EA, P4RA | MPRA, MPEA |
| <b>SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings</b> |          |            |            |
| PP4010                                                             | 3/4      | 1          |            |
| PP4011                                                             | 1        | 1-1/2      |            |
| PP4012                                                             | 1-1/2    | 2          |            |
| PP4013                                                             | 2        | 2-1/2      |            |
| PP4014                                                             | 3        |            |            |
| PP3010                                                             |          |            | 3/4        |
| PP3011                                                             |          |            | 1          |
| PP3012                                                             |          |            | 1-1/2      |
| PP3013                                                             |          |            | 2          |

#### CALIFORNIA PROPOSITION 65 WARNING

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| Product                                                               | Description                                                                                                | Carton Wt. (Lbs.) |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------|
| <b>SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings</b>    |                                                                                                            |                   |
| PP1075                                                                | LH, LHA, LT, LTA, LI, L1A - All HP                                                                         |                   |
| PP3000                                                                | MPRA, MPEA - All HP                                                                                        |                   |
| PP1000                                                                | PE, PEA, PR, PRA, P2R, P2RA (models with copper insert pre-1998) - All HP                                  |                   |
| PP4000                                                                | P4E, P4EA, P4R, P4RA (models with copper insert pre-1998) - All HP                                         |                   |
| PP1200                                                                | PE, PEA, P2R, P2RA (models without copper insert beginning 1998) - All HP                                  |                   |
| PP4200                                                                | P4E, P4EA, P4R, P4RA (models without copper insert beginning 1998) - All HP                                |                   |
| <b>TRAP LID KITS – Include trap lid and trap lid o-ring</b>           |                                                                                                            |                   |
| PP2075                                                                | PE, PEA, PR, PRA, P2R, P2RA (with 5 in. trap – standard) - ALL HP                                          |                   |
| PP4075                                                                | P4E, P4EA, P4R, P4RA, MPR, MPE (with 6 in. trap – standard) - ALL HP                                       |                   |
| <b>PUMP CONNECTOR UNION HALF (WILL NOT FIT DJ OR TP SERIES PUMPS)</b> |                                                                                                            |                   |
| PKG 188Z                                                              | 2 in. Union x 2 in. Slip, 2 per Pkg.                                                                       | 1                 |
| PKG 189                                                               | 2 in. Union x 2 in. FPT, 2 per Pkg.                                                                        | 1                 |
| 77703-0100                                                            | 2 in. Union x 1-1/2 in. FPT, 2 per Pkg.                                                                    | 1                 |
| 77703-0101                                                            | 2 in. Union x 1-1/2 in. Slip, 2 per Pkg.                                                                   | 1                 |
| <b>PUMP BASE NOISE REDUCER</b>                                        |                                                                                                            |                   |
| 17350-0008                                                            | Rubber Pump Base Pad for MPR, P4R, P4E, TPR, TPE Models                                                    | 1                 |
| <b>SEAL KIT - CHEMICAL/SALT/OZONE RESISTANT EPDM &amp; SS SEALS</b>   |                                                                                                            |                   |
| 356196                                                                | Seal Quick Kit Max-E-Pro / IntelliPro and VS Pumps—Chemical/Salt/Ozone Resistant EPDM & SS                 | 1                 |
| 356197                                                                | Seal Quick Kit SuperFlo / SuperMax and VS Pumps—Chemical/Salt/Ozone Resistant EPDM & SS                    |                   |
| 356198                                                                | Seal Quick Kit WhisperFlo/IntelliFlo and VS Pumps—Chemical/Salt/Ozone Resistant EPDM & SS                  |                   |
| 356199                                                                | Seal Quick Kit Challenger Pumps—Chemical/Salt/Ozone Resistant EPDM & SS                                    |                   |
| 356952                                                                | Seal Quick Kit WhisperFloXF / IntelliFlo XF Pumps Chemical/Salt/Ozone Resistant EPDM & SS                  |                   |
| 356958                                                                | Seal Quick Kit SuperFlo VST / SuperMax VST pumps After June 2019 Chemical/Salt/Ozone Resistant EPDM and SS |                   |

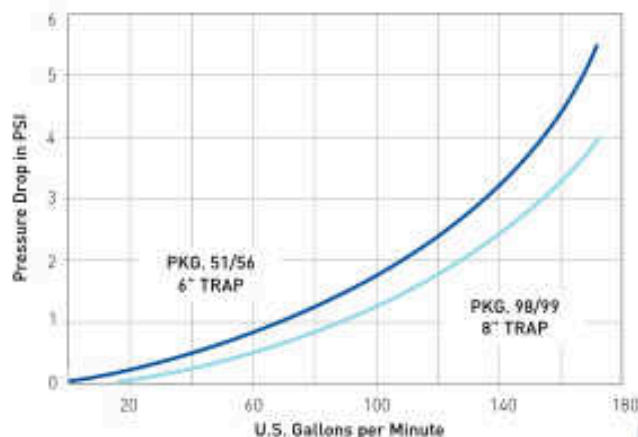
## HAIR AND LINT STRAINER PACKAGES

STA-RITE

## Ordering Information

| Product                         | Description                                                                   | Suction Port Size | Carton Wt. (Lbs.) |
|---------------------------------|-------------------------------------------------------------------------------|-------------------|-------------------|
| HAIR AND LINT STRAINER PACKAGES |                                                                               |                   |                   |
| PKG 115                         | 5 in. Trap with Basket (For Dura-Glas, Max-E-Glas and JWP Pumps)              | 1-1/2 in. NPT     | 5                 |
| PKG 51                          | 6 in. Cast Iron Trap with Basket (For C, CC, and D Series Pumps)              | 2 in. NPT         | 20                |
| PKG 98                          | 8 in. Cast Iron Trap with Basket (For C, CC, and D Series Pumps)              | 3 in. NPT         | 40                |
| PKG 181                         | 6 in. PPO Resin Strainer (For P2R, PE Series, Dura-Glas and Max-E-Glas Pumps) | 2 in. NPT         | 6                 |
| PKG 184                         | CSP Series Hair and Lint Strainer (1100 cu. in. capacity)                     | 6 in. ANSI Flange | 180               |
| PKG 184C                        | CCSP Series Hair and Lint Strainer - Coated (1100 cu. in. capacity)           | 6 in. ANSI Flange | 180               |

## Dimensions and Performance



## CALIFORNIA PROPOSITION 65 WARNING

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PKG 98 - 8 in.

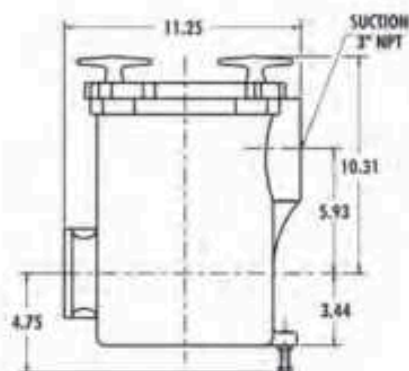


PKG 184 - 8 in.

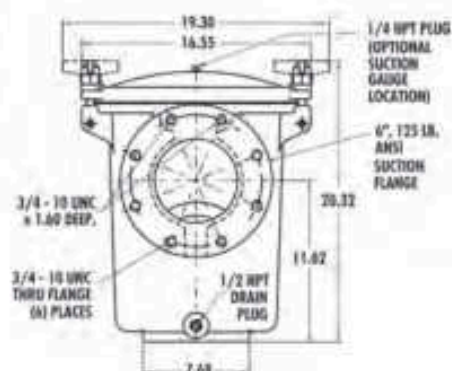


PKG 51 - 5 in. OR 6 in.

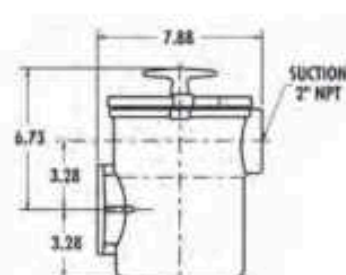
PKG 98 - 8 INCH TRAP



PKG 184/184C



PKG 51 - 6 INCH TRAP



SEE PAGE 427 FOR REPLACEMENT PARTS

# CONVERSION REFERENCE CHARTS

1 U.S. Gallon/Minute = 0.22712470704  
Cubic Meter/Hour

1 U.S. Gallon/Minute = 0.83267418463  
UK Gallon/Minute

1 Foot of Water/Head = 0.30487804878  
Meter of Water/Head

1 Foot of Water/Head = 0.43352750193  
Pound/Square Inch

## Pressure to Head Conversion

| Feet of Water | Meters of Water | PSI   |
|---------------|-----------------|-------|
| 10            | 3.05            | 4.34  |
| 20            | 6.10            | 8.67  |
| 30            | 9.15            | 13.01 |
| 40            | 12.20           | 17.34 |
| 50            | 15.24           | 21.68 |
| 60            | 18.29           | 26.01 |
| 70            | 21.34           | 30.35 |
| 80            | 24.39           | 34.68 |
| 90            | 27.44           | 39.02 |
| 100           | 30.49           | 43.35 |
| 110           | 33.54           | 47.69 |
| 120           | 36.59           | 52.02 |
| 130           | 39.63           | 56.36 |
| 140           | 42.68           | 60.69 |
| 150           | 45.73           | 65.03 |

## Volumetric Flow Rate Conversion

| US Gallons<br>per Minute | Cubic Meters<br>per Hour | British Gallons<br>per Minute |
|--------------------------|--------------------------|-------------------------------|
| 10                       | 2.27                     | 8.33                          |
| 20                       | 4.54                     | 16.65                         |
| 30                       | 6.81                     | 24.98                         |
| 40                       | 9.09                     | 33.31                         |
| 50                       | 11.36                    | 41.64                         |
| 60                       | 13.63                    | 49.96                         |
| 70                       | 15.90                    | 58.29                         |
| 80                       | 18.17                    | 66.62                         |
| 90                       | 20.44                    | 74.94                         |
| 100                      | 22.71                    | 83.27                         |
| 110                      | 24.98                    | 91.60                         |
| 120                      | 27.26                    | 99.92                         |
| 130                      | 29.53                    | 108.25                        |
| 140                      | 31.80                    | 116.58                        |
| 150                      | 34.07                    | 124.91                        |
| 160                      | 36.34                    | 133.23                        |
| 170                      | 38.61                    | 141.56                        |
| 180                      | 40.88                    | 149.89                        |
| 190                      | 43.15                    | 158.21                        |
| 200                      | 45.43                    | 166.54                        |
| 210                      | 47.70                    | 174.87                        |
| 220                      | 49.97                    | 183.19                        |
| 230                      | 52.24                    | 191.52                        |
| 240                      | 54.51                    | 199.85                        |
| 250                      | 56.78                    | 208.18                        |
| 260                      | 59.05                    | 216.50                        |
| 270                      | 61.32                    | 224.83                        |
| 280                      | 63.60                    | 233.16                        |
| 290                      | 65.87                    | 241.48                        |
| 300                      | 68.14                    | 249.81                        |
| 310                      | 70.41                    | 258.14                        |
| 320                      | 72.68                    | 266.46                        |
| 330                      | 74.95                    | 274.79                        |
| 340                      | 77.22                    | 283.12                        |
| 350                      | 79.49                    | 291.45                        |
| 360                      | 81.77                    | 299.77                        |
| 370                      | 84.04                    | 308.10                        |
| 380                      | 86.31                    | 316.43                        |
| 390                      | 88.58                    | 324.75                        |
| 400                      | 90.85                    | 333.08                        |

## NOTES:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.