

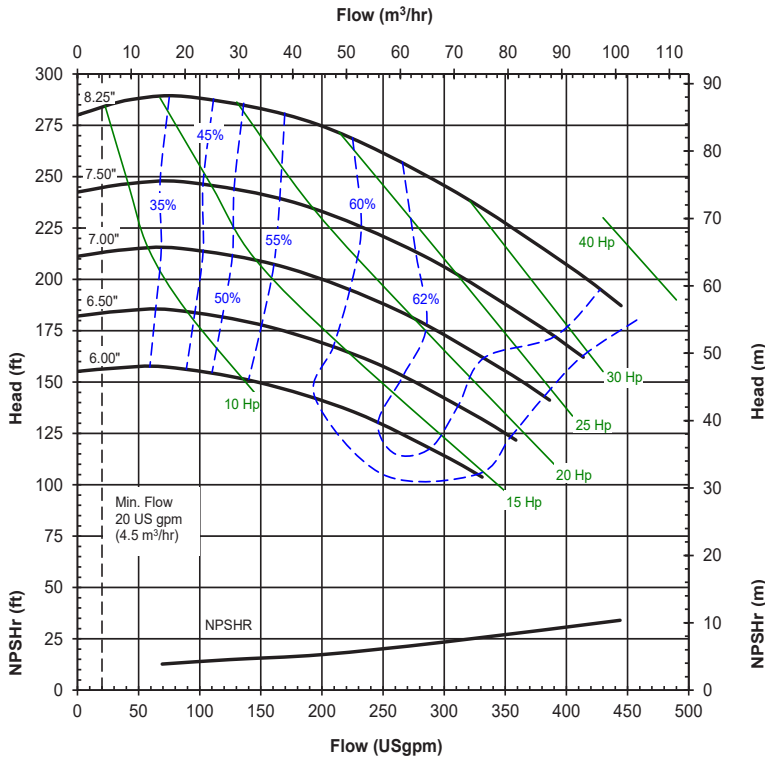


# UCR SERIES

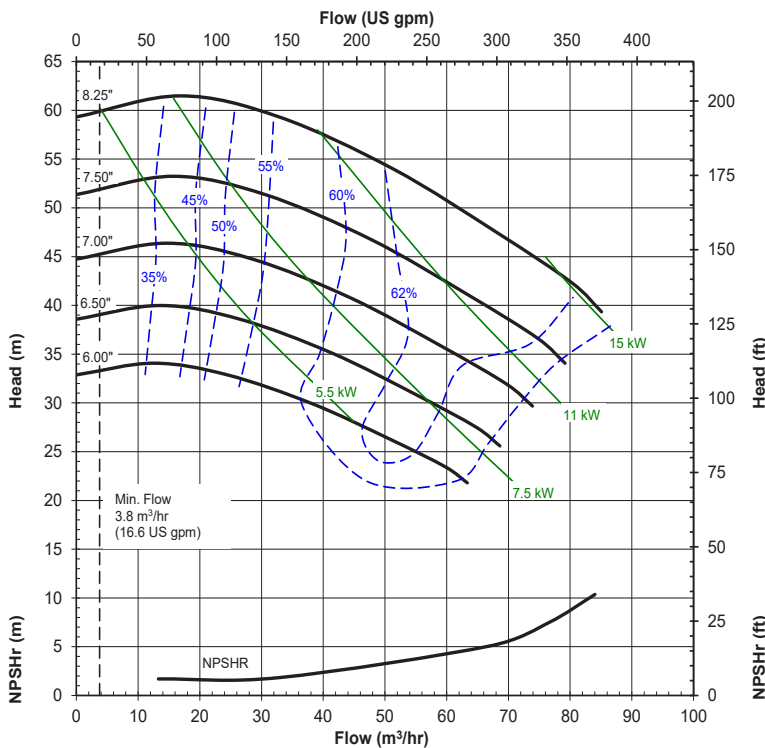
## MODEL UCR3158 (3x1-1/2x8 - A50)



### UCR3158 PERFORMANCE 3500 RPM, 60 Hz



### UCR3158 PERFORMANCE 2900 RPM, 50 Hz



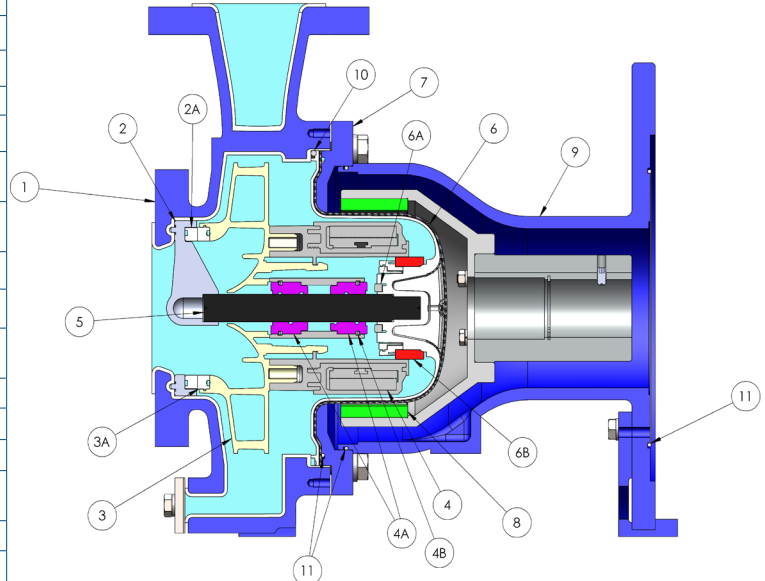
## FEATURES

- Durable, corrosion-resistant ETFE lined ductile iron casing
- Inner drive magnets are encapsulated in pure, unfilled ETFE and are 100% vacuum tested for guaranteed reliability and safety
- Barrier liner is pure unfilled ETFE for maximum protection against chemical permeation with carbon fiber reinforced exterior for exceptional strength
- All critical containment components are pure, unfilled ETFE for the ultimate in corrosion resistance
- Casing meets ANSI/ASME B73.1m & B73.3 for foot and flange location
- Powerful neodymium magnets transmit maximum torque
- Interchangeable single piece impeller and drive magnet is securely interlocked, yet allows independent impeller or drive replacement
- Modified concentric volute design reduces radial thrust load
- Axial thrust is managed with an annular orifice and balance holes
- Dual impeller bushings greatly reduce shaft load
- Suction shaft support with integral straightening vanes
- Easy-set measurement free outer drive
- Space saving vertical installation option with IEC motor
- Back pull-out design
- Exclusive vapor protection protects drive magnet and motor face from corrosive fumes
- Run dry capability with carbon or Dri-Coat (DLC) SiC bushing
- Casing drain standard
- 1/2" NPT motor adapter port with stainless steel plug
- Specific gravity over 1.8
- Accepts standard NEMA 143-365 or IEC 90-225 motor frames
- Maximum power 75hp/55kW
- ANSI 150, ANSI 300 or ISO PN40 flange mountable
- CE Certified, ATEX certified models available



# UCR SERIES

| Item # | Description              | Construction  |
|--------|--------------------------|---|
| 1      | Housing                  | Cast ductile iron, pure ETFE lined  |
| 2      | Shaft support            | Carbon fiber filled ETFE (CF-ETFE)  |
| 2A     | Front thrust ring        | Alpha sintered silicon carbide  |
| 3      | Impeller                 | Carbon fiber filled ETFE (CF-ETFE)  |
| 3A     | Impeller thrust ring     | Fluorosint® or alpha sintered silicon carbide                                   |
| 4      | Inner drive              | Neodymium iron boron magnets encapsulated in pure, unfilled ETFE                |
| 4A     | Bushing                  | Alpha sintered silicon carbide, Dri-Coat silicon carbide, or carbon             |
| 4B     | Bushing retaining ring   | PTFE  |
| 5      | Shaft                    | Alpha sintered silicon carbide  |
| 6      | Barrier                  | Molded pure, unfilled ETFE liner with carbon-fiber reinforced epoxy outer shell |
| 6A     | Barrier thrust ring      | Alpha sintered silicon carbide  |
| 6B     | Sealing ring             | GF molybdenum disulfide-filled PTFE   |
| 7      | Clamp ring               | Powder coated ductile iron  |
| 8      | Outer drive              | Nickel plated neodymium iron boron magnets/ ductile iron                        |
| 9      | Motor adapter            | Powder coated ductile iron  |
| 10     | O-ring                   | FEP-encapsulated FKM, FKM, EPDM, Kalrez®, or Simriz®                            |
| 11     | Vapor Protection O-Rings | Buna N  |



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 Simriz® Perfluoroelastomer is a registered trademark of Simriz® division of Freudenberg-NOK.  
 Allas® is a trademark of the Asahi Glass Co., Ltd.

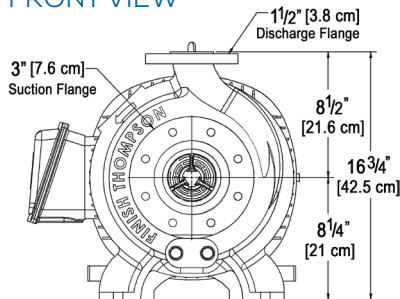
## SPECIFICATIONS

| HP (kW)           | Impeller Diameter     | Suction  | Discharge    | Max. Flow 3500 rpm |                    | Max. Head 3500 rpm |    | Max. Working Pressure psi (Bar) | Max. Viscosity cP | Max. Specific Gravity | Max. Temp.* °F (°C) |
|-------------------|-----------------------|----------|--------------|--------------------|--------------------|--------------------|----|---------------------------------|-------------------|-----------------------|---------------------|
|                   | in (cm)               | in (cm)  | in (cm)      | gpm                | m <sup>3</sup> /hr | ft.                | m  |                                 |                   |                       |                     |
| 1 - 75 (1.5 - 55) | 6 - 8-1/4 (15.2 - 21) | 3 (7.62) | 1-1/2 (3.81) | 447                | 101                | 290                | 88 | 300 (21)                        | 200               | 1.8                   | 250 (121)           |

\*Except E magnet set: maximum 220° F (104° C)  
 Note: Impeller trims available every 1/8" (.32 cm) between the smallest and largest diameters.

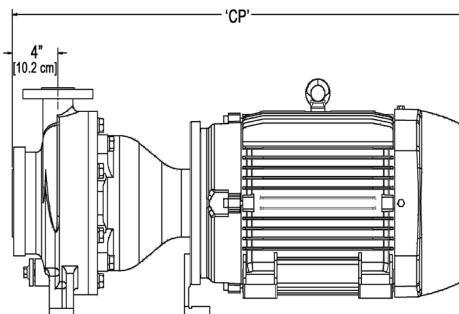
## DIMENSIONS

### FRONT VIEW

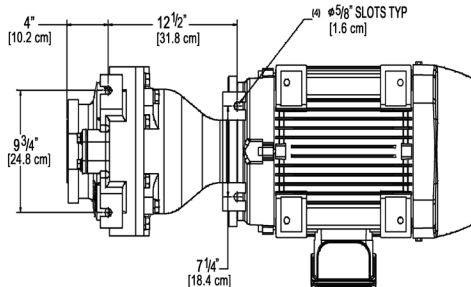


ANSI 150#, 300#, & ISO/DIN PN40 flanges are in compliance with bolting dimensions only.

### SIDE VIEW



### BOTTOM VIEW



| Motor Frames  | CP (approx.) |       |
|---------------|--------------|-------|
|               | in           | cm    |
| <b>NEMA</b>   |              |       |
| 143-145TC     | 27-11/16     | 70.3  |
| 182/184TC     | 29-9/16      | 75.1  |
| 213/215TC     | 32-5/8       | 82.9  |
| 254/256TC     | 37-1/2       | 95.3  |
| 282/284TC/TSC | 39-27/32     | 101.2 |
| 324/326TC/TSC | 44-21/32     | 113.4 |
| 364/365TC/TSC | 46-27/32     | 119.0 |
| <b>IEC</b>    |              |       |
| 90            | 27-15/32     | 69.8  |
| 100/112       | 28-29/32     | 73.4  |
| 132           | 32-9/16      | 82.7  |
| 160           | 38-9/32      | 97.2  |
| 180           | 40-9/16      | 103   |
| 200           | 43-3/32      | 109.5 |
| 225           | 46-21/32     | 118.5 |



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