

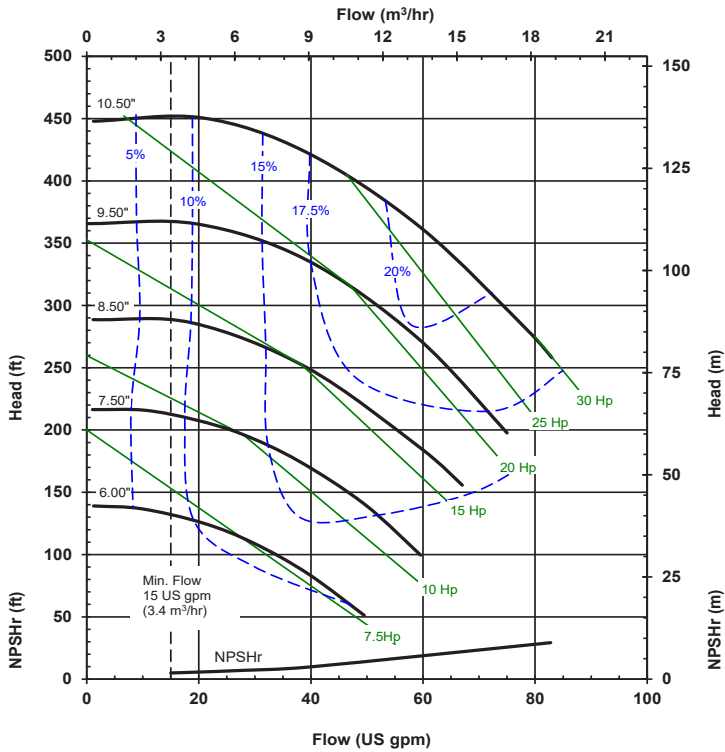


UCR SERIES

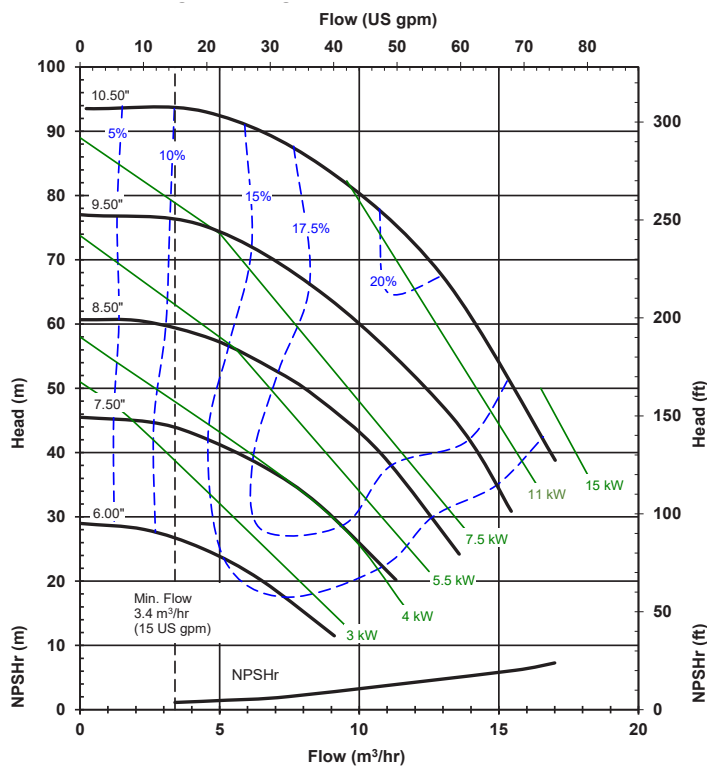
MODEL UCR2110L (2X1X10 - A05)



UCR2110L PERFORMANCE 3500 RPM, 60 Hz



UCR2110L PERFORMANCE 2900 RPM, 50 Hz



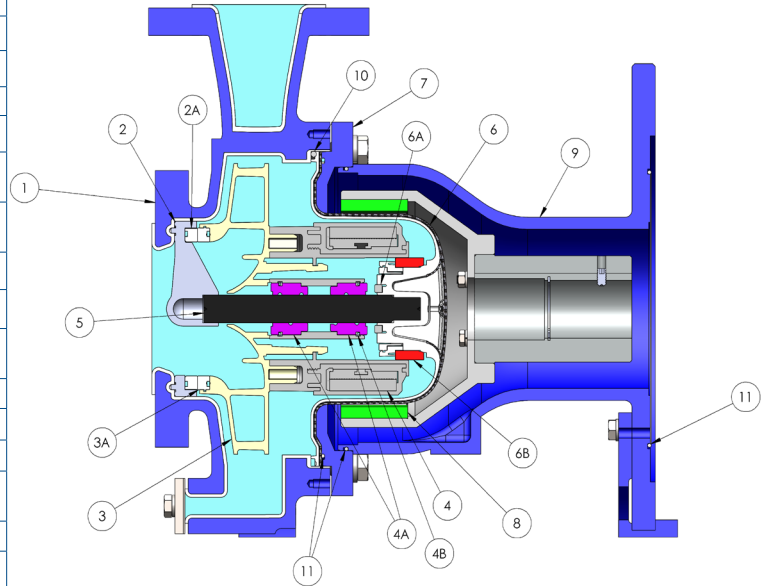
FEATURES

- 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 |



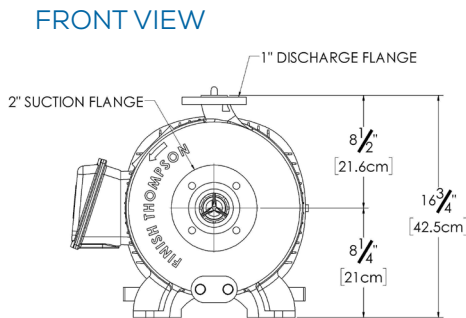
Kalrez® is a registered trademark of DuPont Performance Elastomers
 Simriz® Perfluoroelastomer is a registered trademark of Simriz® division of Freudenberg-NOK.
 Atlas® is a trademark of the Asahi Glass Co., Ltd.

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 ³ /hr | ft. | m | | | | |
| 7.5 - 75 (5.5 - 55) | 6 - 10 1/2 (15.2 - 27) | 2 (5.1) | 1 (2.5) | 83 | 18.9 | 450 | 137 | 300 (21) | 200 | 1.8 | 250 (121) |

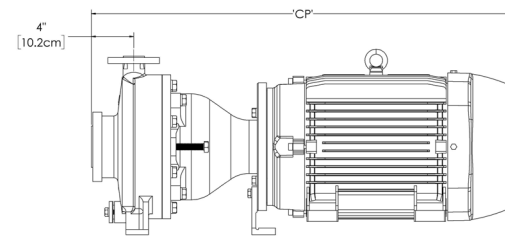
*Except E magnet set: maximum 220° F (104° C)
 Note: Impeller trims available every 1/8" (.32 cm) between the smallest and largest diameters.

DIMENSIONS

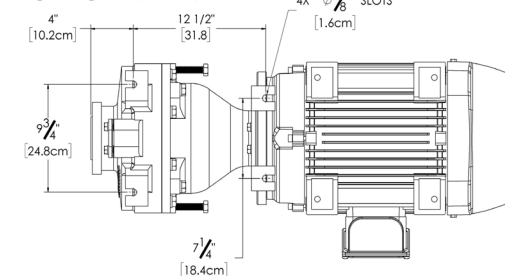


ANSI 150#, 300#, & ISO/DIN PN40 flanges are in compliance with bolting dimensions only.

SIDE VIEW



BOTTOM VIEW



| Motor Frames | CP (approx.) | |
|---------------|--------------|-------|
| | in | cm |
| NEMA | | |
| 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 |
| IEC | | |
| 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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