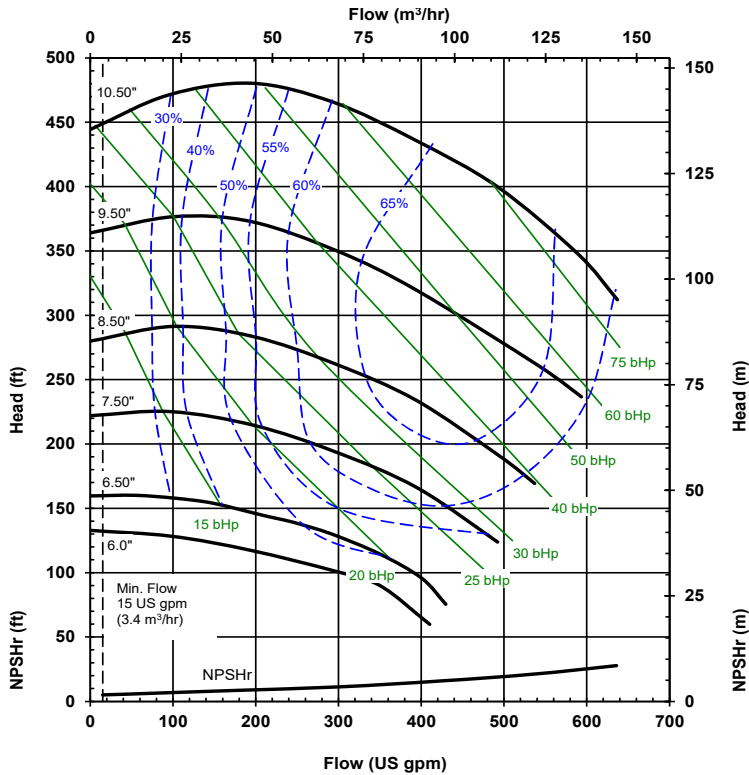




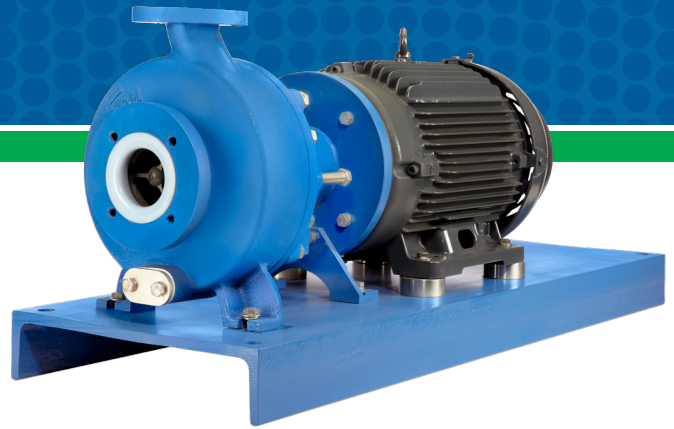
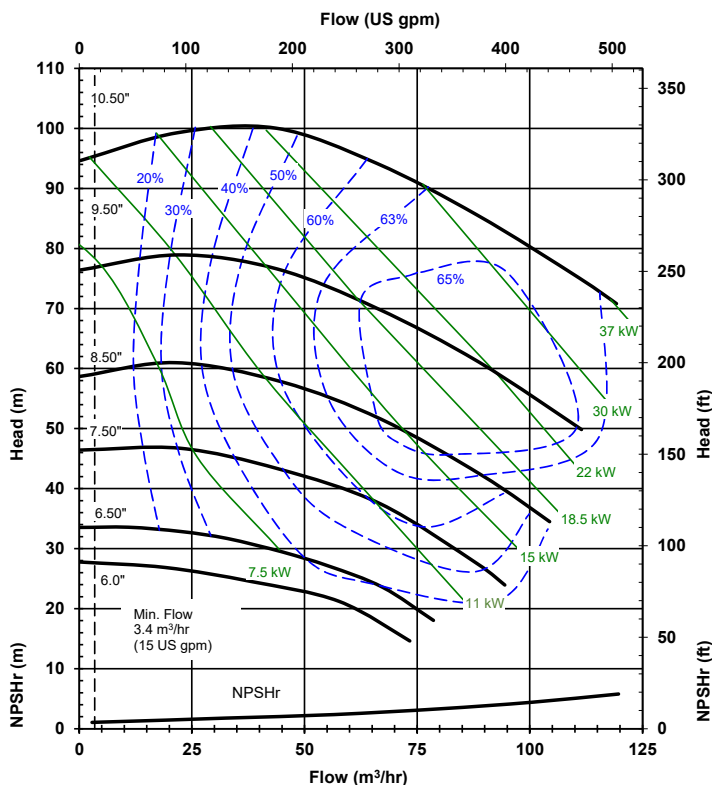
# UC SERIES

## MODEL UC3210 (A60 - 3X2X10)

### UC3210 PERFORMANCE 3500 RPM, 60 Hz



### UC3210 PERFORMANCE 2900 RPM, 50 Hz



### FEATURES

- Durable, corrosion-resistant Tefzel® lined ductile iron casing
- Casing meets ANSI B73.1m & 73.3 for foot and flange location
- Powerful neodymium magnets for dependable, leak-free operation
- Modified concentric volute reduces radial thrust load
- Rear sealing ring to balance axial thrust
- Dual bushings provide optimum alignment
- Suction shaft support with integral straightening vanes
- Replaceable 2-piece impeller and drive hub
- Run dry capability with carbon or Dri-Coat SiC bushing
- Easy-set measurement free outer drive
- Exclusive vapor protection package to protect outer magnetic drive and motor face from corrosive fumes
- Back pull-out design
- Casing drain standard
- Specific gravity over 1.8
- Accepts standard NEMA 143-405 or IEC 90-280 motor frames
- ANSI or ISO flange mountable
- ATEX certified models available



### TYPICAL APPLICATIONS

- Paper Mills
- Water treatment
- Plating & metal finishing
- Chemical manufacturing, blending, distribution
- Fume scrubbers
- Pharmaceuticals
- Truck loading/unloading
- Metals manufacturing
- Electronics

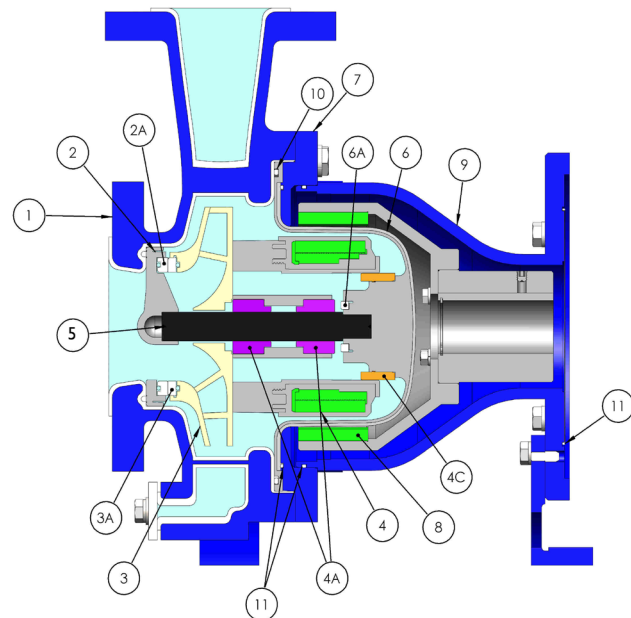
### TYPICAL CHEMICALS

- Sodium hydroxide
- Sulfuric acid
- Hydrochloric acid
- Sodium hypochlorite
- Plating solutions
- Corrosive blends
- Solvents
- Wastewater

\*Tefzel® Fluoropolymer Resin is a registered trademark of DuPont

# UC SERIES

| Item No. | Description              | Construction                                                        |
|----------|--------------------------|---------------------------------------------------------------------|
| 1        | Casing                   | Cast ductile iron, DuPont Tefzel® (ETFE) lined                      |
| 2        | Shaft support            | Carbon fiber filled ETFE                                            |
| 2A       | Front thrust ring        | Alpha sintered silicon carbide                                      |
| 3        | Impeller                 | Carbon fiber filled ETFE                                            |
| 3A       | Impeller thrust washer   | Alpha sintered silicon carbide                                      |
| 4        | Inner drive              | Neodymium iron boron magnets encapsulated in ETFE                   |
| 4A       | Bushing                  | Alpha sintered silicon carbide, Dri-Coat silicon carbide, or carbon |
| 4C       | Rear sealing ring        | GF molybdenum disulfide-filled PTFE                                 |
| 5        | Shaft                    | Alpha sintered silicon carbide                                      |
| 6        | Barrier                  | Molded CF ETFE liner with Aramid Reinforced Epoxy external shell    |
| 6A       | Barrier thrust ring      | Alpha sintered silicon carbide                                      |
| 7        | Clamp ring               | Painted ductile iron                                                |
| 8        | Outer drive magnet       | Nickel-plated neodymium iron boron magnets/painted ductile iron     |
| 9        | Motor adapter            | Ductile iron                                                        |
| 10       | O-ring                   | FKM, EPDM, FEP/FKM, Kalrez®, Simriz®, or Aflas®                     |
| 11       | Vapor protection o-rings | Buna                                                                |



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

## SPECIFICATIONS

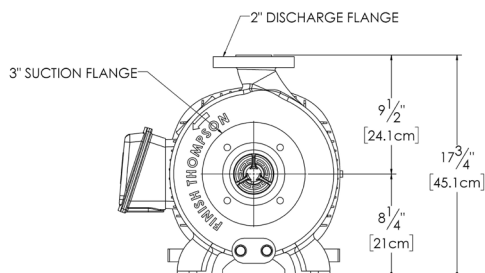
| HP (kW)             | Impeller Diameter      | Suction  | Discharge | Max. Flow<br>3500 rpm |       | Max. Head<br>3500 rpm |     | Max.<br>Working<br>Pressure<br>psi (Bar) | Max.<br>Viscosity<br>cP | Max.<br>Specific<br>Gravity | Max. Temp.*<br>°F (°C) |
|---------------------|------------------------|----------|-----------|-----------------------|-------|-----------------------|-----|------------------------------------------|-------------------------|-----------------------------|------------------------|
|                     | in (cm)                | in (cm)  | in (cm)   | gpm                   | m³/hr | ft.                   | m   |                                          |                         |                             |                        |
| 10 - 100 (7.5 - 75) | 6 - 10 1/2 (15.2 - 27) | 3 (7.62) | 2 (5.01)  | 640                   | 145   | 480                   | 146 | 300 (20.7)                               | 200                     | 1.8                         | 250 (121)              |

\*Except E magnet set: maximum 220° F (104° C)

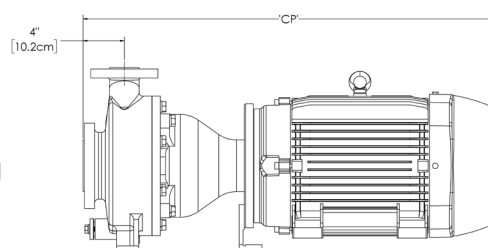
Note: Impeller trims available every 1/8" (.32 cm) between the smallest and largest diameters.

## DIMENSIONS

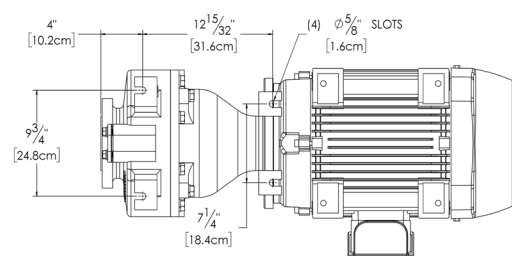
### FRONT VIEW



### SIDE VIEW



### BOTTOM VIEW



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

| NEMA<br>Motor Frames | CP (approx.) |       |
|----------------------|--------------|-------|
|                      | in           | cm    |
| 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 |
| 404/405TSC           | 50-5/16      | 127.8 |

| IEC<br>Motor Frames | CP (approx.) |       |
|---------------------|--------------|-------|
|                     | in           | cm    |
| 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 |
| 250                 | 52-17/32     | 133.4 |
| 280                 | 56-3/4       | 144.1 |



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