

# POOL AND SPA OEM PUMP/MOTOR REPLACEMENT GUIDE

## Square Flange and G-Flange Motors

Motors and pumps need to be properly matched to one another to provide consistent, predictable performance. When selecting your Emerson® replacement motor you will need to know six important pieces of information:

- 1) Pump Mounting (ie. Square Flange, G-Flange, etc.)
- 2) horsepower
- 3) Service Factor
- 4) Voltage
- 5) Frequency
- 6) Phase

Most of this information can be attained from the motor nameplate. Always be sure that the total of horsepower times service factor of your new Emerson® motor is equal to or greater than the total of horsepower times service factor of the original motor.

$$\text{Total Output HP} = (\text{horsepower}) \times (\text{service factor})$$

| Motor OEM     | Brand Name              | Category | Motor OEM               | Brand Name                      | Category |
|---------------|-------------------------|----------|-------------------------|---------------------------------|----------|
| American      | American-Lagler         | J        | Jetool-Bros.            | Magnum™ (Magnum Force™)         | J        |
| American      | Ultra-Flow (Power Pump) | S        | Letco                   | Legend™                         | P        |
| Apex Flo      | Ultra-Flow              | C        | Pentair (American)      | Ultra-Flow™                     | S        |
| Apex Flo      | Domination              | J        | Pentair/Pac Fab         | Challenger™                     | S        |
| Ascal         | 2000 Series             | J        | Pentair/Pac Fab         | Hydra-Pump™                     | C        |
| Baker Hydrex  | Hydrex                  | J        | Pentair/Pumps           | Permaflex™                      | S        |
| Hayward       | Super Pump™             | J        | Pentair/Pumps/Hydrotech |                                 | J        |
| Hayward       | Super Pump™ II          | J        | Polaris                 | Vac-Saver™ (PB4 Booster Pump)   | P        |
| Hayward       | Max Flo™                | J        | Freeman/Springwater     |                                 | C        |
| Hayward       | Northstar               | N        | Speed Pumps             | Model 90/98/102/103/105/107/109 | J        |
| Hayward       | Strider™                | T        | Sta-Rite                | Dura-Glar™/Max-Glar™            | S        |
| ITT Mailbox   | Argonaut                | J        | Sta-Rite                | Dura-Glar™ II/Max-Glar™ II      | S        |
| Jacuzzi Bros. | Bronze                  | C        | Waterway                | SW56                            | S        |
| Jacuzzi Bros. | Cypress™                | S        | West Industries         |                                 | C        |
| Jacuzzi Bros. | Plastic                 | J        | WMA                     |                                 | J        |

### CATEGORY "C" NEMA G-FLANGE KEYED SHAFT

| HP  | Service Factor | Voltage | Standard Efficiency<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame |
|-----|----------------|---------|-----------------------------------|----------------------------------------------|
| 1/2 | 1.60           | 230/115 | EB120                             | EB656                                        |
| 3/4 | 1.50           | 230/115 | EB121                             | EB634                                        |
| 1   | 1.40           | 230/115 | EB122                             | EB653                                        |
| 1.5 | 1.30           | 230/115 | EB123                             | EB795                                        |
| 2   | 1.20           | 230     | EB124                             | EB808                                        |
| 3   | 1.15           | 208-230 |                                   | EB817                                        |

### CATEGORY "N" HAYWARD NORTHSTAR G-FLANGE THREADED SHAFT

| HP  | Service Factor | Voltage     | Standard Efficiency<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame |
|-----|----------------|-------------|-----------------------------------|----------------------------------------------|
| 3/4 | 1.85           | 208-230/115 |                                   | ESN1072                                      |
| 1   | 1.40           | 208-230/115 |                                   | ESN1102                                      |
| 1   | 1.85           | 208-230/115 |                                   | ESN1102                                      |
| 1.5 | 1.25           | 208-230/115 |                                   | ESN1152                                      |
| 1.5 | 1.60           | 208-230/115 |                                   | ESN1152                                      |
| 2   | 1.20           | 208-230/115 |                                   | ESN1202                                      |
| 2   | 1.35           | 208-230     |                                   | ESN1202                                      |
| 3   | 1.20           | 208-230     |                                   | ESN1302                                      |
| 3   | 1.60           | 208-230     |                                   | ESN1302                                      |

### CATEGORY "T" HAYWARD FRISTAR REPLACEMENTS - SQUARE FLANGE

| HP  | Service Factor | Voltage     | Standard Efficiency<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame |
|-----|----------------|-------------|-----------------------------------|----------------------------------------------|
| 1/2 | 1.88           | 208-230/115 |                                   | ET3205                                       |
| 3/4 | 1.85           | 208-230/115 |                                   | ET3207                                       |
| 3/4 | 1.25           | 230/115     | EB852                             |                                              |
| 1   | 1.85           | 208-230/115 |                                   | ET3210                                       |
| 1   | 1.25           | 230/115     | EB853                             |                                              |
| 1.5 | 1.60           | 208-230/115 |                                   | ET3215                                       |
| 1.5 | 1.10           | 230/115     | EB854                             |                                              |
| 2   | 1.35           | 208-230     |                                   | ET3220                                       |
| 2   | 1.10           | 230/115     | EB859                             |                                              |
| 2.5 | 1.04           | 230         | EB840                             |                                              |
| 3   | 1.30           | 208-230     |                                   | ET3230                                       |
| 3   | 1.15           | 208-230     | EB844                             |                                              |

### CATEGORY "J" NEMA G-FLANGE THREADED SHAFT

| HP  | Service Factor | Voltage | Standard Efficiency<br>6.5" Frame | Standard Efficiency<br>5.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>5.5" Frame |
|-----|----------------|---------|-----------------------------------|-----------------------------------|----------------------------------------------|----------------------------------------------|
| 1/2 | 1.60           | 230/115 | EB126                             | EST1052                           | EB657                                        | ECT1052                                      |
| 3/4 | 1.00           | 230/115 | EB227                             | EST1072                           |                                              | ECT1072                                      |
|     | 1.50           | 230/115 | EB127                             | EST1072                           | EB638                                        | ECT1072                                      |
| 1   | 1.00           | 230/115 | EB228                             | EST1102                           |                                              | ECT1102                                      |
|     | 1.40           | 230/115 | EB128                             | EST1102                           | EB654                                        | ECT1102                                      |
| 1.5 | 1.00           | 230/115 | EB229                             | EST1152                           |                                              |                                              |
|     | 1.30           | 230/115 | EB129                             | EST1152                           | EB796                                        |                                              |
| 2   | 1.00           | 230/115 | EB230                             | EST1202                           |                                              |                                              |
|     | 1.20           | 230     | EB130                             | EST1202                           | EB809                                        |                                              |
| 2.5 | 1.00           | 230     | EB231                             | EST1252                           |                                              |                                              |
| 3   | 1.15           | 208-230 |                                   |                                   | EB818                                        |                                              |
| 5   | 1.00           | 208-230 |                                   |                                   | EB819                                        |                                              |

### CATEGORY "S" SQUARE FLANGE

| HP  | Service Factor | Voltage | Standard Efficiency<br>6.5" Frame | Standard Efficiency<br>5.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>5.5" Frame |
|-----|----------------|---------|-----------------------------------|-----------------------------------|----------------------------------------------|----------------------------------------------|
| 1/2 | 1.30           | 230/115 | EB856                             | ESQ1052                           |                                              |                                              |
|     | 1.50           | 230/115 | EB846                             | ESQ1052                           | EB845                                        | EQC1052                                      |
| 3/4 | 1.27           | 230/115 | EB852                             | ESQ1072                           |                                              | EQC1072                                      |
|     | 1.65           | 230/115 | EB847                             | ESQ1072                           | EB841                                        | EQC1072                                      |
| 1   | 1.25           | 230/115 | EB853                             | ESQ1102                           |                                              | EQC1102                                      |
|     | 1.65           | 230/115 | EB848                             | ESQ1102                           | EB841                                        | EQC1102                                      |
| 1.5 | 1.10           | 230/115 | EB854                             | ESQ1152                           |                                              | EQC1152                                      |
|     | 1.50           | 230/115 | EB858                             | ESQ1152                           | EB842                                        |                                              |
| 2   | 1.10           | 230/115 | EB859                             | ESQ1202                           |                                              |                                              |
|     | 1.30           | 230     | EB748                             | ESQ1202                           | EB843                                        |                                              |
| 2.5 | 1.04           | 230     | EB840                             | ESQ1252                           |                                              |                                              |
| 3   | 1.15           | 208-230 | EB844                             |                                   | EB844                                        |                                              |
| 5   | 1.00           | 208-230 |                                   |                                   | EB850                                        |                                              |

### CATEGORY "P" POOL CLEANERS

| HP  | Service Factor | Voltage     | Brand   | Emerson S6™<br>6.5" Frame |
|-----|----------------|-------------|---------|---------------------------|
| 3/4 | 1.50           | 230/115     | Polaris | EB825                     |
|     | 1.50           | 208-230/115 | Polaris | EB826                     |
|     | 1.50           | 230/115     | Letco   | EB868                     |

# Emerson Motor Cross Reference Guide

**Ying-Ying Zheng**



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