

**CENTER-LINE SUBMERSIBLE
 REPLACEMENT PARTS GUIDE
 (PC 130)
 TYPE QDSC**

| | | | |
|--------------|------|------------------------------|----------|
| PACO® | | PACO PUMPS Brookshire, TX | |
| CAT#: | | | |
| STOCK#: | | | |
| SER#: | | | |
| GPM: | TDH: | IMP. DIA. | " |
| | | | 34014412 |

While PACO Center-line Submersible Pumps are designed and built to provide maximum life while requiring minimum attention and service, replacement parts may at times be required. VIRTUALLY ALL REQUIRED PARTS ARE AVAILABLE OFF-THE-SHELF IN KIT FORM.

These kits (easily selected from the charts on the following pages) have been designed to insure that any parts needed when replacing any Submersible component are furnished when you need them, with minimum effort.

Here are some guidelines and suggestions:

GENERAL NOTES: The pump and motor nameplates contain all data required in the selection and ordering of the proper replacement parts kit. The PUMP MODEL AND SERIAL NUMBER should be referenced whenever any replacement parts kit is ordered, while the PUMP CONDITIONS (GPM/TDH) and IMPELLER TRIM are REQUIRED data for the ordering of the replacement impellers. **Motor frame size must also be referenced (from motor nameplate). SEE NOTE PAGE 3.**

NOTE: Seal Kits are always recommended as spare parts.

To replace Impeller.

Select the correct Impeller Kit, which contains all gaskets and Impeller Hardware.

To overhaul the Pump.

Select an Impeller Kit, Hardware Kit, and Seal Kit.

To replace Outer Mechanical Seal.

Select the correct Seal Kit.

To replace Lost/Damaged Hardware.

Select the correct Hardware Kit.

ORDERING: After determining and selecting the required Kit(s), or for the selection assistance, contact your local PACO Sales Office, Representative or Distributor.

| Frame 140TY Motors | | | | |
|--------------------|-----------------------|--------------|-----------------|----------------|
| Pump Model No. | Impeller Kit (1) Iron | Hardware Kit | | Outer Seal Kit |
| | | Steel | Stainless Steel | |
| - | - | - | - | - |
| 407001 | K2219 | K2231 | K2231-S | K611 |
| 407021 | K2220 | K2231 | K2231-S | K611 |
| 407023 | K2222 | K2231 | K2231-S | K611 |
| 408021 | K2223 | K2231 | K2231-S | K611 |
| 409501 | - | - | - | - |
| 409521 | - | - | - | - |
| 409523 | - | - | - | - |

| Frame 180TY Motors | | | |
|-----------------------|--------------|-----------------|----------------|
| Impeller Kit (1) Iron | Hardware Kit | | Outer Seal Kit |
| | Steel | Stainless Steel | |
| - | - | - | - |
| - | - | - | - |
| K2221 | K2232 | K2232-S | K612 |
| - | - | - | - |
| K2224 | K2232 | K2232-S | K612 |
| K2225 | K2232 | K2232-S | K612 |
| K2227 | K2232 | K2232-S | K612 |
| K2229 | K2232 | K2232-S | K612 |

| Frame 210TY Motors | | | | |
|--------------------|-----------------------|--------------|-----------------|----------------|
| Pump Model No. | Impeller Kit (1) Iron | Hardware Kit | | Outer Seal Kit |
| | | Steel | Stainless Steel | |
| 409501 | K2226 | K2233 | K2233-S | K613 |
| 409521 | K2228 | K2233 | K2233-S | K613 |
| 409523 | K2230 | K2233 | K2233-S | K613 |

| Pump Model No. | Wear Ring Kit Cast Iron(2) | Wear Ring Kit Stainless Steel(3) |
|----------------|----------------------------|----------------------------------|
| 407001 | K2234 | - |
| 407021 | K2235 | - |
| 407023 | K2236 | - |
| 408021 | K2237 | K2238 |
| 409501 | K2239 | - |
| 409521 | K2240 | K2241 |
| 409523 | K2242 | K2243 |

NOTES:

- (1) Specify Impeller Diameter when ordering.
- (2) CI Wear Ring Kit contains (1) Case Wear Ring.
- (3) SS Wear Ring Kit contains (1) Case Wear Ring and (1) Impeller Wear Ring.

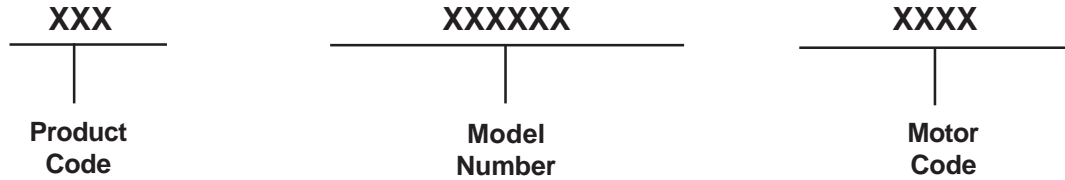
HP-Frame Size*

| Horsepower | RPM | Frame Size |
|------------|------|------------|
| 1* | 1800 | 140TY |
| | 1200 | 140TY |
| 1-1/2* | 1800 | 140TY |
| | 1200 | 140TY |
| 2* | 1800 | 140TY |
| | 1200 | 140TY |
| 3* | 1800 | 140TY |
| | 1200 | 180TY |
| 5 | 1800 | 180TY |
| | 1200 | 180TY |
| 7-1/2 | 1800 | 180TY |
| | 1200 | 210TY |
| 10 | 1800 | 210TY |
| | 1200 | 210TY |
| 15 | 1800 | 210TY |
| | 1200 | 250TY |

| Horsepower | RPM | Frame Size |
|------------|------|------------|
| 20 | 1800 | 210TY |
| | 1200 | 250TY |
| 25 | 1800 | 250TY |
| | 1200 | 250TY |
| 30 | 1800 | 250TY |
| | 1200 | 320TY |
| 40 | 1800 | 250TY |
| | 1200 | 320TY |
| 50 | 1800 | 320TY |
| | 1200 | 320TY |
| 60 | 1800 | 320TY |
| | 1200 | 320TY |
| 75* | 1800 | 320TY |
| | 1200 | 360TY |
| 100* | 1800 | 360TY |
| | 1200 | 360TY |
| 125* | 1800 | 360TY |
| | 1200 | 360TY |

*See Note, page 3.

**EXPLANATION OF PUMP CODING
(REFER TO PUMP NAMEPLATE)**



KIT COMPONENTS

- Impeller Kit:**
Impeller
Impeller Cap Screw
Impeller Washer
Impeller Key
Shim
Spacer
Impeller Nut

- Hardware Kit:**
Cap Screws
Washers
Nuts
Retaining Rings

- Outer Seal Kit:**
Seal Head
Seal Seat

- Wear Rings:**
CI- Case Wear Ring
Set Screw
SS- Case Wear Ring
Impeller Wear Ring
Set Screws

NOTE: Kits may not contain all parts listed. They are individually selected for each pump and its construction.

NOTE: Motor Frame Size will determine construction. Certain small, single phase and large, three phase motors have distinctive construction:

Impeller and Hardware Kits must be selected for the mounting flange size. The Outer Seal must be selected for the frame size.

