

PS-08 have been discontinued.



Compact and light weight thanks to direct connection to the motor.

|                              |
|------------------------------|
| Attainable vacuum (Pa)       |
| 9.3/6.7 x 10 <sup>-2</sup>   |
| Exhaust speed (50 Hz, L/min) |
| 20 to 200                    |

- Safe for continued operation with the integrated thermal protector.
- Two-step exhaust system to attain high level vacuum. (Model PD)
- Easy to transport. Also ideal for embedding into a unit.
- Equipped with an oil stop valve. (PD53/139/204)
- Large oil level gauge allows easy check of dirt. (PD53/PD139/204)
- Supports multi voltages of 100 to 120V and 200 to 240V. (PD139/204)
- Magnet coupling for no oil leakage from shaft seal and realized longer lifetime. Integrated check valve below the inlet port for backflow prevention. (PQ30/100)

#### ■ Specifications

| Product code                              | 242289   | 242284  | 242290   | 242222  | 242292   | 242293   |
|---|--|---|--|---|--|--|
| Model                                     | PS-23  | PQ-30   | PD-53  | PQ-100  | PD-139   | PD-204   |
| Effective exhaust speed (50/60 Hz)(l/min) | 20/24  | 30/36   | 50/60  | 100/120                                       | 135/162  | 200/240  |
| Attainable vacuum (Pa)                    | 9.3  | 6.7×10 <sup>-2</sup>                              |  |   |  |  |
| Motor                                     | Single phase, 100V, 100W, 4P<br>Split phase starting | Single phase, 100-120V, 100W, 2P<br>Capacitor run | Single phase, 100V, 200W, 4P<br>Split phase starting | Single phase, 100V, 300W, 2P<br>Capacitor run | Single phase, 400W, 4P<br>Multiple-range motor | Single phase, 550W, 4P<br>Multiple-range motor |
| Total load current                        | 3.7/3.0  | 1.85/1.89   | 5.6/4.8  | 5.5/6.3                                       | 6.8/5.8 (100V)                                 | 8.2/7.9 (100V)                                 |
| Oil amount (mL)                           | 230  | 370   | 650  | 1,000   |  | 1,100  |
| Oil type                                  | SMR-100  | R-2   | SMR-100  | R-2   | SMR-100  |  |
| Mass (kg)                                 | 8.5  | 9.3   | 13.9   | 22  | 29   | 31   |
| Suction pipe diameter (mm)                | O.D.18×I.D.14  | O.D.15 x I.D. 11                                  | O.D.18×I.D.14  | O.D.27×I.D.20                                 |  |  |
| Operating atmospheric temp. range (deg.C) | 7 to 40  |   |  |   |  |  |
| Max. size (mm)                            | 156(W) x 288(L) x 199.5(H)                           | 120(W) x 288.5(L) x 163(H)                        | 165.5(W) x 395(L) x 246.5(H)                         | 150(W) x 413.5(L) x 234/5(H)                  | 170(W) x 488(L) x 263(H)                       | 170(W) x 516(L) x 263(H)                       |

## ■ Optional items

| Description                              | Model No.        | Product Code | Pump Model No.                |
|--|------------------|--------------|-------------------------------|
| Oil Mist Trap for Low level vacuum       | OMT-200A         | 242040       | PD-139/204                    |
| Oil Mist Trap for Low level vacuum       | OMT-100A         | 242059       | PQ-100                        |
| Oil Mist Trap for Low level vacuum       | OMT-050A         | 242058       | PS-23, PQ-30, PD-53           |
| Inline Trap                              | OMI-100          | 242374       | PQ-100                        |
| Inline Trap                              | OMI-200          | 242375       | PD-139/204                    |
| Forline Trap                             | OFI-050C         | 200000       | PD-53,PX-52,PQ-30             |
| Forline Trap                             | OFI-050V         | 200000       | PD-53,PX-52,PQ-30             |
| Forline Trap                             | OFI-200C         | 200000       | PQ-100, PD139/204, PX-137/202 |
| Forline Trap                             | OFI-200V         | 200000       | PQ-100, PD139/204, PX-137/202 |
| SUS flexible hose with NW25 flange 1.5mL | Connection parts | 212136       | -                             |
| Clamp NW20/25                            | Connection parts | 212137       | -                             |
| Center ring NW20/25                      | Connection parts | 212138       | -                             |
| NW25 rubber tube adapter                 | Connection parts | 212139       | -                             |
| Rubber tube adapter with NW25 SUS flange | Connection parts | 212140       | -                             |
| Reducer Brass 30/18mm dia.               | A                | 242185       | -                             |
| Reducer Brass 18/12mm dia.               | B                | 242186       | -                             |
| Reducer SUS 18/30mm dia.                 | C                | 221496       | -                             |
| Reducer SUS 18-12mm dia.                 | D                | 221497       | -                             |
| Vacuum hose, rubber tube 2m, I.D. 9mm.   | Connection parts | 281013       | -                             |
| Vacuum hose, rubber tube 2m, I.D. 15mm.  | Connection parts | 281014       | -                             |
| Vacuum hose, rubber tube 2m, I.D. 25mm.  | Connection parts | 281015       | -                             |
| Oil Mist Separator (Corrosion-proof)     | OMC-200          | 242377       | PX137/202                     |
| Oil Mist Separator (Corrosion-proof)     | OMC-050          | 242376       | PX52                          |

### Oil Mist Trap (For Outlet)



Trap the oil mist of exhaust air during the operation and return it to the pumps oil reservoir.

### Inline Trap



Pipe connection-type oil-mist trap. When the pipe is connected, the suction gas can be discharged into the exhaust duct.

### Foreline Trap (For Inlet)



Prevent counter flow of oil diffusion into the vacuum hose (OFI-050C, 200C) and prevent particles into the vacuum pump. (OFI-050V, 200V)

### Oil Mist Separator (For Outlet)



Corrosion-proof type. The main housing of this product is made of stainless steel and uses a filter element made of glass wool.