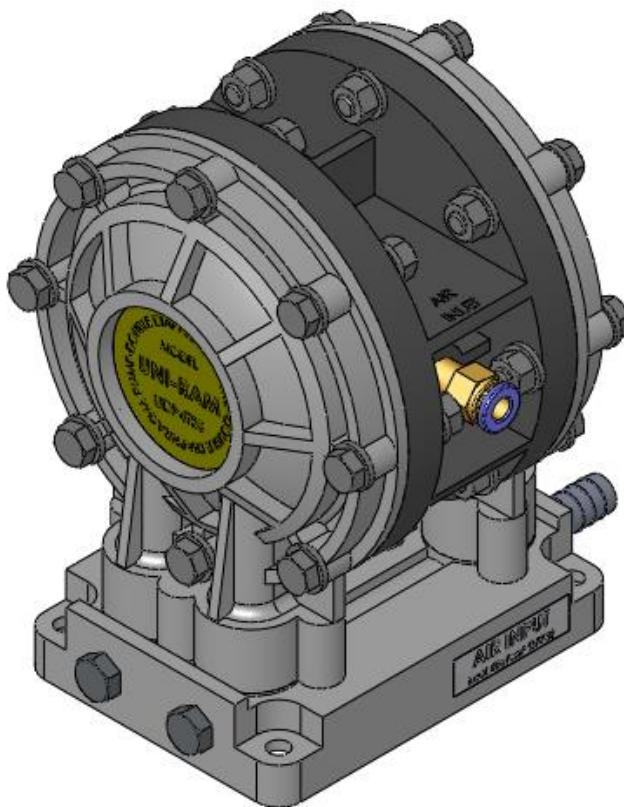


# Uni-ram Dual Diaphragm Pump

## UDP Series

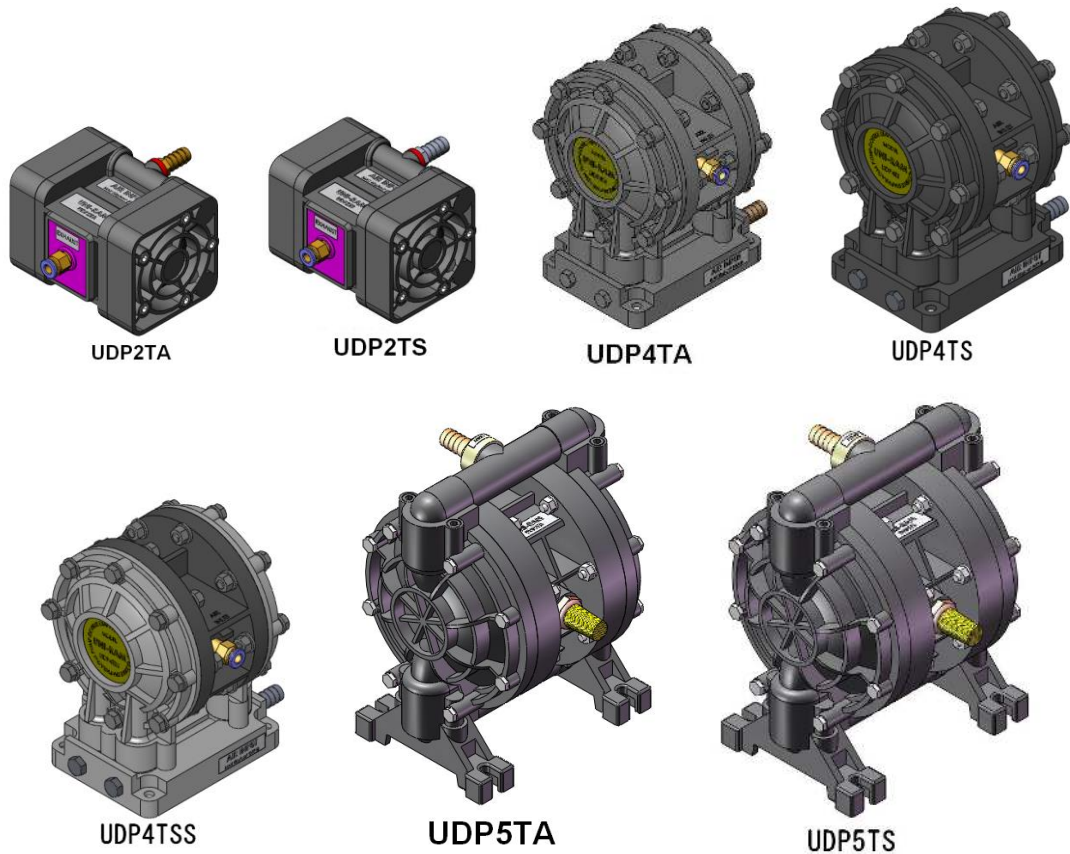


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**CAUTION: TO AVOID THE DAMAGE TO THE PUMP, DO NOT SUPPLY AIR PRESSURE HIGHER THAN 100PSI (7 Kg/cm<sup>2</sup>)**

These pumps have been developed as a compact yet powerful air operated pump for industrial and commercial applications.

| Technical Specification      |                              |  |                    |                                    |                 |                    |                                |                    |
|------------------------------|------------------------------|--|--------------------|------------------------------------|-----------------|--------------------|--------------------------------|--------------------|
| Series                       |                              | UDP2   |                    | UDP4                               |                 |                    | UDP5                           |                    |
| Model                        |                              | UDP2TA                                       | UDP2TS             | UDP4TA                             | UDP4TS          | UDP4TSS            | UDP5TA                         | UDP5TS             |
| Compatibility                |                              | most of common solvents and aqueous solvents |                    |                                    |                 |                    |                                |                    |
| Construction                 |                              | Dual PTFE diaphragm pump                     |                    |                                    |                 |                    |                                |                    |
| Diaphragm size               |                              | 2"   |                    | 4"                                 |                 |                    | 5"                             |                    |
| Construct<br>ion<br>material | Centre<br>Body               | POM or PPS                                   |                    |                                    |                 |                    |                                |                    |
|                              | Housing<br>and Base<br>Plate | POM or PPS                                   |                    | POM or PPS                         |                 | Stainless<br>Steel | POM or PPS                     |                    |
|                              | Valve Ball                   | PTFE   | Stainless<br>Steel | PTFE                               | Stainless Steel |                    | PTFE                           | Stainless<br>Steel |
| Operating Pressure           |                              | 2.8-6 Kg/cm² (40-87psi)                      |                    |                                    |                 |                    |                                |                    |
| Maximum air pressure         |                              | 7 Kg/cm² (100 psi)                           |                    |                                    |                 |                    |                                |                    |
| Air consumption              |                              | 26.9L/Min (0.95 CFM)                         |                    | 56.6L/Min (2 CFM)                  |                 |                    | 212L/Min (7.5 CFM)             |                    |
| Output (per minute)          |                              | 5.7L (1.5Gal)                                |                    | 12L (3.2Gal)                       |                 |                    | 45L(11.9Gal)                   |                    |
| Priming Vacuum<br>@75psi     |                              | 24kPa (7" Hg)                                |                    |                                    |                 |                    |                                |                    |
| Suction Vacuum<br>@75psi     |                              | 91kPa (27" Hg)                               |                    |                                    |                 |                    |                                |                    |
| Exhaust                      |                              | 1/4" OD Tube                                 |                    |                                    |                 |                    | Silencer                       |                    |
| Liquid Inlet:                |                              | 3/8" Hose Barb                               |                    |                                    |                 |                    | 1/2" Hose Barb                 |                    |
| Liquid Outlet:               |                              | 3/8" Hose Barb                               |                    |                                    |                 |                    | 1/2" Hose Barb                 |                    |
| Overall size (LxWxH)         |                              | 4"x 5" x 3"<br>(10cmx13cmx8cm)               |                    | 5.5" x5"x 6.5"<br>(14cmx13cmx17cm) |                 |                    | 7"x6.5"x9"<br>(18cmx17cmx23cm) |                    |
| Weight                       |                              | 0.6kg (1.3 lbs)                              |                    | 1.3kg (2.75lbs)                    |                 | 2.5kg<br>(5.6lbs)  | 2.6kg (5.7lbs)                 |                    |
| Mounting                     |                              | 4 Mounting Holes in Base Plate               |                    |                                    |                 |                    |                                |                    |



**Caution:** For liquid containing small solid particles, use TS version only and mount the pump with diaphragm in horizontal position.

Note: Use of properly lubricated air will minimize wear of moving parts and prolong service life. Pressure Regulator must be installed in line to prevent over pressure of air supply.

### **Service**

Pump may stop working when excessive amount of water, oil, or other liquid is introduced into the pump by air supply. In most such cases, the pump may be reactivated by the following procedures. Using air Blow Gun, blow air of about 70 psi (5kg/cm<sup>2</sup>) into Air Inlet Hose Barb and the end of Exhaust Silence Tube alternatively to blow out the water, oil, etc. as much as possible. If the pump does not start, the pump must be repaired or replaced.

### **Warranty**

Uni-Ram Corporation warrants this product for twenty four (24) months from purchase date to be free from defects in materials and workmanship. Uni-Ram Corporation will replace, free of charge, to the original purchaser, any defective product or its component part returned to Uni-ram for inspection.