

# High-Performance Pumps

## Features:

- Made by Infrared Industries
- Same quality, long life, low cost, and reliability you've come to expect from our gas analyzers

## HIGH-PERFORMANCE AND LOW-COST PUMPS

Infrared Industries has designed compact, high-performance diaphragm pumps, available at a competitive price. All of the Infrared Industries pumps are balanced to cut down on vibration, reduce noise, and extend the life of the pump.

The HM Micro and XD Mini Diaphragm Pumps are DC motor-driven and come in both brush and brushless. Their small packaging allows them to be used in applications where a small form factor and weight are essential. They can be used in various vacuum and pressure operations and in low-flow applications.

### HM Micro Diaphragm Pumps

There are two basic versions of the HM Pump: the single-headed HMS Pump and the dual-headed HMD Pump.

#### HMS Micro Diaphragm Single-Head Pump

The HMS Pump is a brushless DC motor-driven, single-head micro pump that handles liquids or gases. Its compact size allows it to be used in systems where size and weight are a factor. It can be used for vacuum, pressure, or alternating vacuum/pressure operations and in low flow applications. It handles a pressure range of 0-24+ PSIG, vacuum range of 0-20 In Hg, and has a maximum unrestricted flow range of 2.5 LPM.



#### HMD Micro Diaphragm Dual-Head Pump

The HMD Pump is a brushless DC motor-driven, dual-head micro pump for handling gases and liquids. One head can be used for low flow and one for high flow. Also, one head can be used for air and

one for liquid. Each head can be configured for vacuum operation, pressure operation, or alternating vacuum and pressure operation. It handles a pressure range of 0-24 PSIG, vacuum range of 0-20 In Hg, and has a maximum unrestricted flow range of 5 LPM.



### XD Mini Diaphragm Pumps

There are two basic versions of the XD Pumps: the single-headed XDS Pump and the dual-headed XDT Pump. These are offered in various configurations to meet your needs.

#### XDS Pump

The XDS Pump is a DC motor-driven, single-head miniature pump that handles liquids or gases. It can be used for vacuum, pressure, or alternating vacuum/pressure operations and in low flow applications. It handles a pressure range of 0-25 PSIG, vacuum range of 0-25 In Hg, and has a maximum unrestricted flow range of 6.0 LPM.



# High-Performance Pumps

## XDT Pump

The XDT Pump is a DC motor-driven, dual-head miniature pump that handles both gases and liquids. Each head can be configured for vacuum operation, pressure operation, or alternating vacuum and pressure operation. It handles a pressure range of 0-28 PSIG, vacuum range of 0-25 In Hg, and has a maximum unrestricted flow range of 11 LPM.



## Explosion-Proof Pump

### IR-1050 Centurion Explosion-Proof Pump

The IR-1050 Centurion Explosion-Proof Pump is UL and CSA listed Class I, Division 1, Group C and D and Class II, Group F and G certified. It includes explosion-proof motors on your choice of a single-head, double-head, or quad-head pump.

The single-head handles a pressure range of 6.1-71 PSIG, the dual-head handles a pressure range of 55-75 PSIG, and the quad-head handles a pressure range of 70-75 PSIG, all depending on how they are configured.

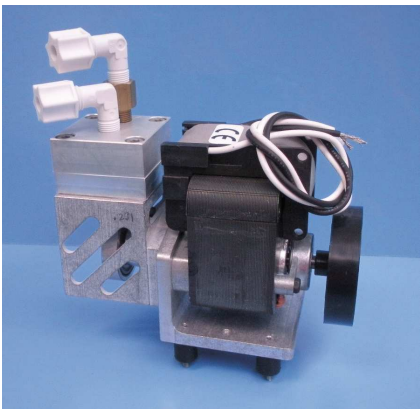
The single-head has a vacuum range of 8.4-25.2 In Hg, the dual-head has a vacuum range of 24-28.4 In Hg, and the quad-head has a vacuum range of 24.8-29.3 In Hg, depending on configuration. The single-head has a maximum flow range of 9.4-30.2 LPM, the dual-head has a maximum flow range of 51.1-73, and the quad-head has a maximum flow range of 100-142.2, depending on configuration.

## Industrial Pump

### CEP-1 Pump

The CEP-1 Pump is a heavy-duty industrial pump designed for applications where extend or continuous operation is required. This pump is of all metal and ball bearing construction featuring a brushless AC motor for long life and a Teflon diaphragm to assure exception chemical compatibility.

This pump handles a maximum pressure range of 23.4 PSIG, a maximum vacuum In HG of 21.4, a maximum flow of 6.8 LPM, a maximum flow of 0.24 CPM, and a maximum BAR of 1.61.



## Summary

Why buy these pumps from Infrared Industries? We have spent years perfecting them for optimal performance and reliability. We make them in-house so we can offer them to you at a low cost and you get the convenience and assurance of buying them from a trusted source.

Our pumps can be customized to your particular needs. Just give us a call and we will work with you to tailor a pump for your requirements.