

# ReaXus HF Class

## High-Flow Dual Piston Pumps



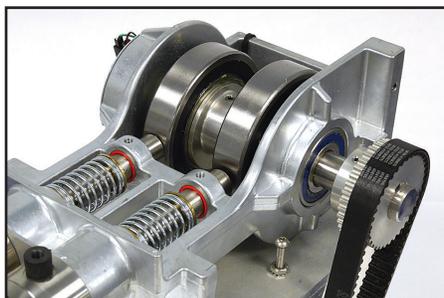
### High Performance for Your Application

The HF Series pumps are specifically designed to meet the requirements of Preparative Liquid Chromatography (HPLC) and high pressure Process/Metering applications. Standard fluid path materials are Stainless Steel, with optional Titanium and Hastelloy also available. Other optional features include jacketed pump heads for temperature-controlled applications.

*Specifically designed to meet the requirements of Preparative Liquid Chromatography (HPLC) and high pressure Process/Metering applications.*

### Heavy Duty Design

The HF Series pumps are dual-headed piston pumps with servo motors, belt drives, and reliable eccentric cams. Features include an LCD keypad with advanced HMI/PLC interface, and RS-232 for complete control



*Rugged Construction with Belt Drive and Eccentric Cams.*

and status monitoring. Prime-Purge Valve, Outlet Filter, and Pressure Transducer are also included.

### Wide, Accurate Flow & Pressure Range

These pumps deliver very precise flow rates up to 300 mL/min, with pressures up to 10,000 psi.

### Easy Maintenance

All Scientific Systems, Inc. pumps are known for fast, easy maintenance. Check valves, pistons, and seals are readily accessible, and Automatic Piston Wash is standard. These features contribute to reduced downtime and operating expenses.

# REAXUS

### FLOW RATE

300 mL/min

### PRESSURE

Up To 10,000 psi

### FLUID PATH

Stainless Steel, Titanium, or Hastelloy

### CONTROL

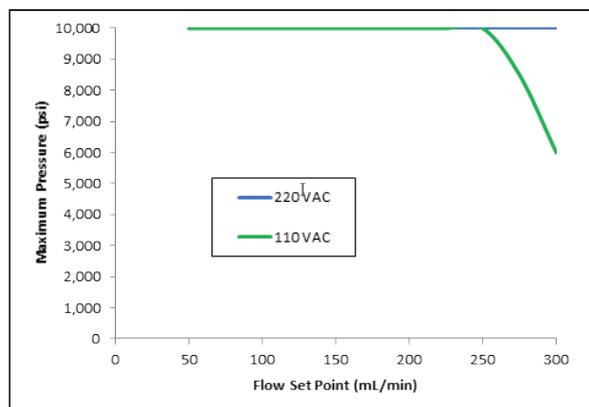
HMI/PLC Interface, RS-232

## HF Class Specifications

<b>Flow Rate Range</b>	0.1 – 300.0 mL/min
<b>Flow Rate Increment</b>	0.1 mL/min
<b>Flow Rate Accuracy*</b>	±5% (5.0 – 300.0 mL/min; 80:20 Water/IPA; 1,000 psi)
<b>Flow Reproducibility</b>	0.5% RSD (5.0 – 300.0 mL/min; 80:20 Water/IPA; 1,000 psi)
<b>Maximum Delivery Pressure</b>	<b>220 VAC supply:</b> 10,000 psi <b>110 VAC supply:</b> 10,000 psi (up to 250mL/min—see chart below for pressure rating curve)
<b>Pressure Accuracy</b>	±50 psi
<b>Pulsation</b>	≤5.0% @ 150 mL/min and 80:20 Water/IPA; 3,000 psi
<b>Piston Displacement</b>	452 µL
<b>Piston Wash</b>	Self-flushing pump heads – continuous wash without auxiliary pump
<b>Wetted Materials</b>	316 Stainless Steel, Alumina, Zirconia, UHMWPE, PTFE, PEEK
<b>Dimensions (H x W x D)</b>	8.9" x 13.9" x 22.1" (22.6 x 35.3 x 56.1 cm)
<b>Weight</b>	50.0 lbs (22.7 kg)
<b>Power</b>	100 – 240 VAC (±10%), 50 – 60 Hz, 700 W
<b>Front Panel</b>	LCD display to monitor flow rate, pressure, and indicate parameters and alarms. Numerical keypad, Run/Stop, and Menu Navigation.
<b>Communication</b>	RS-232 (serial communications), Run/Stop TTL
<b>Viscosity**</b>	0.5 – 10.8 cP
<b>Liquid Temperature</b>	0 – 82 °C
<b>Environment</b>	Indoor use only (Pollution degree 2)
<b>Altitude</b>	Up to 2000 m (6500 ft)
<b>Ambient Temperature</b>	10 – 30 °C
<b>Humidity</b>	20 – 90% relative humidity

\*Flow Rate is dependent on solvent selection and operating pressure.

\*\*Range of fluid viscosities where published flow accuracy is maintained.



HF Series pumps have an open voltage input of 90–260 Volts AC. The chart above shows the capabilities at 110 Volts and 220 Volts.

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Teledyne ISCO is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.



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