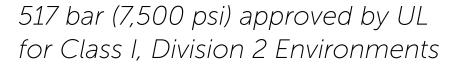
# 260HL<sub>f</sub>

Hazardous Location Syringe Pump

The Teledyne ISCO HLf-Series pumps give you the same accurate, predictable flow and pressure control as our standard D-Series, while conforming to safety standards for use in UL Class I, Division 2, Groups A B C & D, T4 environments. The hazardous location rating is achieved through internal design modifications including the use of brushless DC motors. This approach eliminates the need for purge boxes or other additional safety devices.



Wetted materials are compatible with most aqueous and organic liquids, corrosive solutions, heated fluids, liquefied gases, viscous fluids, or slurries and pastes.

The HLf controller has a keypad and LCD, as well as builtin and optional interfaces for computer control and other devices. Programming is easy and flexible, with instant access to menu screens even when the pump is running. This allows you to change operating parameters on the fly.

### **Chemical Compatibility**

Wetted materials have been tested for compatibility with the following fluids.

- ethane
- butane
- diesel fuel
- isopropanol
- benzene
- ethylene
- butadiene
- jet fuel
- acetone
- ethylbenzene

- propane
- hexane
- ammonia
- acetonitrile
- propylene
- gasoline
- methanol
- heptane
- isobutylene
- methane

- Metering and dispensing in experiments and pilot plants where explosive conditions may occur
- Precision fluid addition in research and manufacturing processes
- Chemical/Reactant feed in chemical process development, catalyst evaluation, plastic formulation
- Accurate metering of liquefied gases

# Controller Features:

- Operating Modes
  - Constant flow or pressure with up to four pumps
  - Continuous flow or pressure with dual pump
  - Flow or pressure programming with a single pump
  - Dispense mode
- External Interface
  - RS232/485 serial interface
  - Analog voltage inputs
  - Digital inputs and output
  - Ethernet/USB



Teledyne LABS





## 260HLf Specifications

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Pump Module:	260HL <sub>f</sub>
Capacity:	266 mL
Flow Range (mL/min):	1.0 µL-107 mL/min*
Flow Accuracy:	+ 0.5% of setpoint, (Maximum 0.5 µL/min seal leakage)
Displacement Resolution:	6.65 nl/stop
Pressure Range:	10-7,500 psi (0.7-517 bar)
Standard Pressure Accuracy:	0.5% FS, typical at constant temperature
Optional Pressure Accuracy:	0.1% FS, typical at constant temperature
Wetted Materials (Standard):	Nitronic 50, Graphite filled PTFE, TFE, Hastelloy C-276, Inert Polymers, Gold, Titanium
Plumbing Ports:	1/8" Valco
Operating Temperature:	5-40 °C Ambient
Power Required:	100 Vac, 117 Vac, 234 Vac, 50/60 Hz (specify)
Dimensions (H x W x D)	39.8 x 10.7 x 18.4 in (101 x 27 x 47 cm)
Weight:	Pump unit—72.3 lb (32.8 kg) Controller— 6.5 lb (3.0 kg)
Standards Conformity:	UL 61010-1, ANSI/ISA 12.12.01-2012, CSA C22.2 No. 1010 and No. 213-M1987

<sup>\*</sup> Maximum flow rate is dependent upon operating pressure. (See manual for additional information.)

# 260HLf Options & Accessories

- Temperature control jacket (i.e. cylinder cooling for filling with liquefied gas)
- Drivers for LabVIEW—National Instruments
- 4-20 mA inputs and outputs for flow rate and pressure control

# **Ordering Information**

260HLf Pump Module, Nitronic	68-1260-015
HLf Series Controller, Basic	68-1260-013
HLf Series Controller with 4-20mA (only)	68-1260-011
Continuous Flow Air Valves, Nitronic	60-1247-141
Single Air Valve, Nitronic	60-1247-156
Manual Refill Kit	68-1247-077
Manual Outlet Kit	68-1247-078
260HL <sub>f</sub> High Temperature Package	60-5364-418
High Accuracy Package	60-5364-486
Temperature Control Jacket	68-1247-047





03/24