

## F-70 HELIUM COMPRESSOR



The Freedom® series compressors from SHI Cryogenics Group provide refined oil and gas management to a wide range of SHI products. This next generation of water-cooled technology utilizes a scroll compressor capsule, built exclusively for helium service, and offers a unique 30,000-hour service interval. For ease of operation, storage and service, the new design incorporates all of the system display and utility connections on the front panel.

The F-70 compressor, available in both high and low voltage models, operates select 4K and 10K cryocoolers as well as the complete line of Marathon® CP cryopumps.

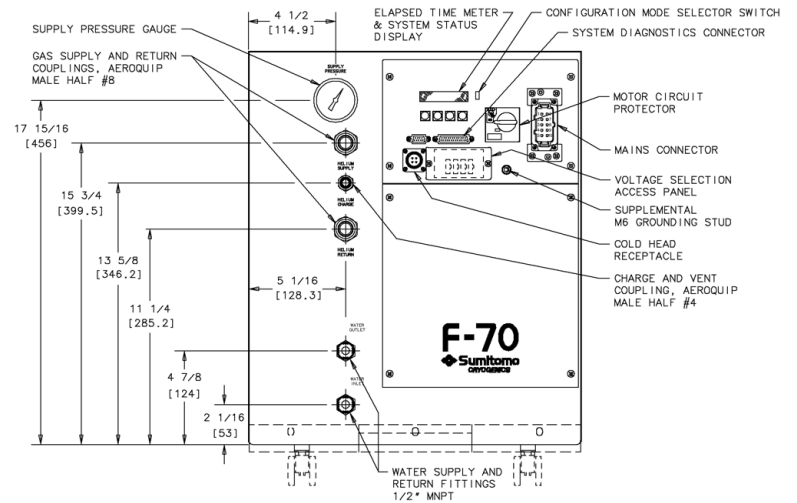
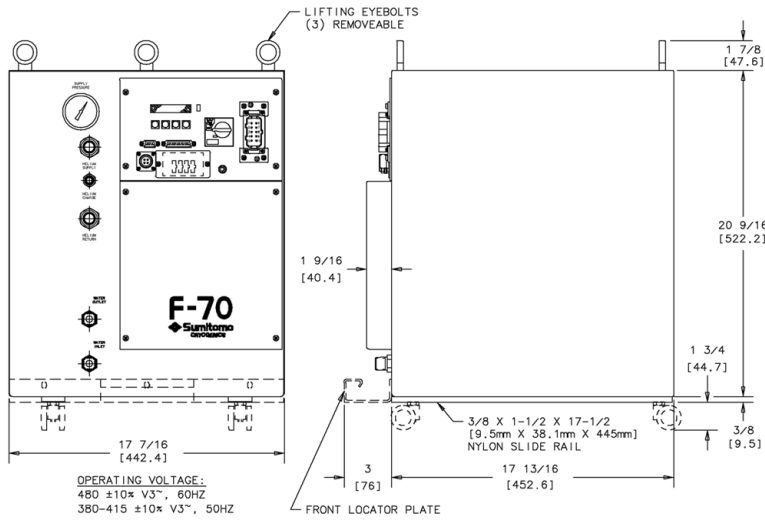
For customers wishing to upgrade their old systems, the F-70 is backward compatible with the HC-10 compressor capsule.

### Features

- LCD panel displays elapsed run time, system status and diagnostic information
- Automatic restart after power interruptions
- Advanced oil management system
- Universal diagnostic control interface
- UL and CE approved

### Specifications

<b>Electrical Specifications:</b>	200 V3~ (±10%), 50/60 Hz [Low voltage] 480 V3~ (±10%), 60 Hz or 380-415 V3~ (±10%), 50 Hz [High voltage]
<b>Power Consumption:</b>	Cryopumps and GM Cryocoolers 6.6 to 6.9 kW, 50 Hz or 7.5 to 7.8 kW, 60 Hz Pulse Tubes 6.7 to 7.2 kW, 50 Hz or 8.0 to 8.5 kW, 60Hz
<b>Ambient Temperature:</b>	4° C to 40° C (40° F to 104° F)
<b>Cooling Water Inlet Temperature:</b>	5° C to 25° C (41° F to 77° F)
<b>Cooling Water Flow Rate:</b>	Cryopumps and GM Cryocoolers — 6 to 9 L/min (1.6 to 2.4 gpm) minimum Pulse Tubes — 6.8 to 9 L/min (1.8 to 2.4 gpm) minimum
<b>Dimensions (HxWxD):</b>	532 mm x 443 mm x 493 mm 20.9" x 17.4" x 19.4"
<b>Weight:</b>	100 kg (220 lbs.)



F-70H Compressor Shown

## For Information in: Asia

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