



CTI 8510, low voltage

Technical Specifications

Specification	Description
Weight	340 lbs (154 kg) approximate
Weight (shipping)	445 lbs (202 kg) approximate
Power consumption	5 kw, nominal operating power, 6.75 kw maximum
Compressor input-power cable (customer-supplied)	Recommended type SO-4 conductor, 600V, neoprene jacket and 10-gauge wire. Install per Figure B.1, electrical schematic diagram, ensuring compliance with all national, state and local standards.
Helium pressure	Static: 195-205 psig (1345-1415 kPa) at 70 to 80°F (21 to 27°C) Return: Normal operation: 75-85 psig (517-590 kPa) at operating temperature.
Ambient operating temperature range	50 to 100°F (10 to 38°C)
Interface	Cold head power receptacles (3): Mates with plugs on cold head power cables. Compressor input-power receptacle: Mates with Hubbel twist lock plug No. 27723 Gas-supply connector: 1/2-inch self-sealing coupling Gas-return connector: 1/2-inch self-sealing coupling Remote control receptacle: 24 VAC 150ma: Mates with P4 connector P/N MS3106A-2, supplied by CTI-CRYOGENICS.
Adsorber service schedule	Replace every three years.
Cooling water requirements	70°F water supply, 2.5 gpm, 14 psid (pressure drop: water inlet to water outlet). The pressure value does not consider discharge back-pressure conditions. Maximum/minimum water requirements Maximum outlet temperature 100°F (38°C) Minimum inlet temperature 40°F (4°C) Maximum inlet pressure 100 psig

This compressor has been designed to operate with water having a pH value of 6.0 to 8.0 and a calcium carbonate concentration of less than 75 parts per million (typical municipal drinking water quality). For applications of lower pH or greater hardness, water conditioning may be necessary.