



CTI 8500

Technical Specifications

| Specification | Description |
|--|---|
| Weight | 340 lbs (154 kg) approximate |
| Weight (shipping) | 445 lbs (202 kg) approximate |
| Power consumption | 5 kw, nominal operating power, 5.75 kW maximum Nominal power factor 0.8: 7.6 kVA max. |
| 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. 2723 (for Model G001). For Model 8500 Model G002, Part No. 2433 Gas-supply connector: 1/2-inch self-sealing coupling Gas-return connector: 1/2-inch self-sealing coupling Remote control receptacle (24 VAC): compressor remote current: 2.7A inductive, coldhead remote current: 0.15A mates with P5 connector P/N MS3106A-14, 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) Nominal inlet pressure, maximum 100 psig |