

CLEANSTREAM 550 - H1500

Wide Range Temperature Control for R+D Chemical Baths



Cleanstream 550-H1500 Patented Liquid-to-Liquid Thermoelectric Heat Exchanger

Equivalent to 1250 Watt chiller or 1500 Watt heater for

- Low power direct heating and cooling for 2-40 liters semiconductor chemical baths

Designed to fit inside most wet bench designs, the Cleanstream 550-H1500 maintains temperature control at an ultra-precise ± 0.05 °C from 10-90 °C, and can do so at 10X the response time while consuming 80% less power than Freon-based chillers in near ambient applications.

Cleanstream offers a triple moisture seal for low temperature operation and PFA Teflon® surfaces on process side for ultra-high purity or corrosive fluids. And it uses ISO 14001 enabling thermoelectric technology, so no moving parts, no noise, no vibration, and no maintenance — with an MTBF greater than 80,000 hours.

A complete Cleanstream 550-H1500 package is available including:

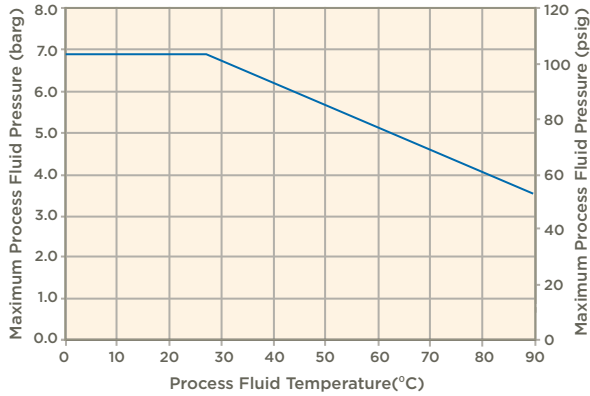
- Cleanstream 550-H1500
- Switchback 6600 CE bipolar power supply or power supply/ temperature control unit with Yokogawa UT 55A controller
- Two 4:1 PTFE fittings
- One power cable with over-temp interlock

For complete information: sscooling.com/cleanstream1500

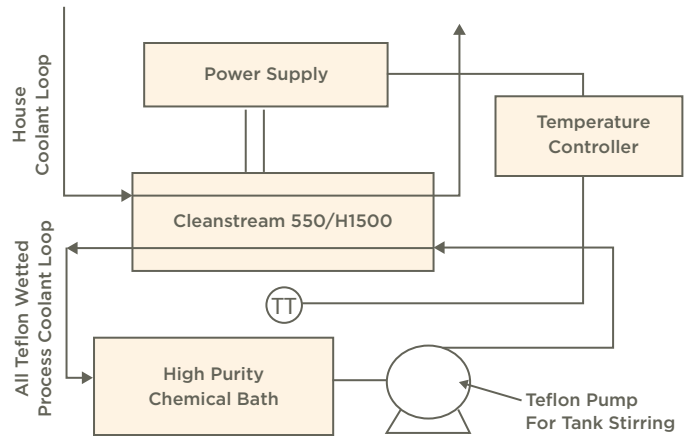
The Right Temperature Without Fail

Solid State Cooling Systems

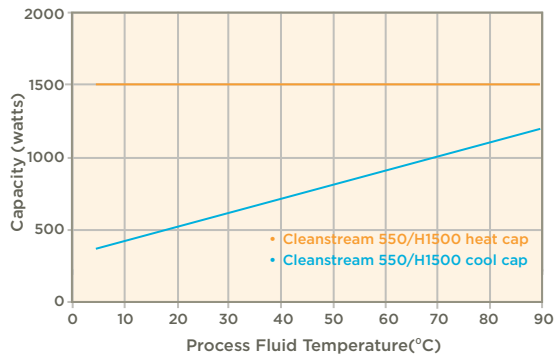
CLEANSTREAM PROCESS FLUID PRESSURE RATING (ALL MODELS)



CLEANSTREAM POSITIONING SCHEMATIC



CLEANSTREAM 550/H1500 COOLING AND HEATING CAPACITY



SPECIFICATIONS

Operating Range	10 to +90 °C
Cooling Capacity	550 watts at 25 °C
Heating Capacity	1500 watts
House Fluid	Filtered treated industrial water
Process Fluid	Up to 50% HF solution, SC1 and SC2 solution, organic solvents, other PFA Teflon-compatible fluids
Flow Rate	0.5-2 or 4-10 gpm (2-8 lpm or 15-38 lpm) in process plates, 4-8 gpm (15-30 lpm) in house plate
Maximum Pressure	100 psig on house. Process fluid pressure depends upon temperature (see graph)
Teflon Fitting Choices	3/4" or 1" Flaretek, or Teflon tube stub
Size (L x W x H)	16 x 9.75 x 3.1" (41 x 25 x 8 cm)
Weight	38 lbs. (17 kg)
Power Requirements	200-240 VAC, 3Ø, 6A to Switchback 6600 CE set at: 0-144 VDC, 0-12 Amps
Material	House cooling water flows through 6063 aluminum T6 hardened with Nickel-coated interior or optional Teflon-impregnated anodized aluminum; process fluid flows through HDPFA Teflon tubing only



www.technosaurus.co.jp

TECHNOSAURUS 株式会社

□東京 〒162-0805 東京都新宿区矢来町 113 番地 TEL(03)3235-0661(代) / FAX(03)3235-0669
□大阪 〒532-0005 大阪市淀川区三国本町2丁目12番4号 TEL(06)6396-0501(代) / FAX(06)6396-0508