Clean Steam just got safer, Introducing the next revolutionary addition
PUREX: Clean Steam Sample Cooler

The PUREX Steam Sample Cooler focuses on safety, simplicity of operation and portability to provide reliable clean steam samples for the pharmaceutical industry. Some of the key features that make this SSC the industry benchmark include:

- Fully Portable Cart Based Solution
- ASME BPE Compliant
- Automated Operation – Simple & Safe
- Reduced Set-up & Sample Times
- HMI with Intuitive Graphic Driven Operation
- On-Board Cooling Water Tank Allows Sampling in Areas without Cooling Water Connections
- On-Board Condensate/Waste Tank Enhances Safety Avoids Potential Discharge into Room and Long Untidy Hoses
- Integral Compact Sanitary Double Tube Sheet Heat Exchanger
- Self-Sanitization Mode
- Ergonomic Design

Parameter	Value (SI Units)	Value (English Units)
Clean Steam Pressure	3.5 bar	50 psi
Clean Steam Temperature	148°C	298°F
Clean Steam Flow Rate	80 kg/hr	175 lbs/hr
Cooling Water Supply Temperature	25°C (max)	77°F (max)
Residual Cooling Water Tank Temperature	47°C	117°F
Max Operating Pressure – Steam	7 bar	100 psi
Max Operating - Utility	3.5 bar	50 psi
Heat Exchanged	47 kW	160K BTU/hr

The user-friendly HMI allows the operator to set the system for each of the four sampling process steps from a single button. The graphic display shows the system status and provides necessary prompts to the operator.

The SSC can either be connected directly to a Cooling Water Supply/Return line if it is available at the sampling site, or the on-board reservoir can be pre-charged from a nearby water source. The built in pump will circulate the cooling water through the heat exchanger to obtain the steam sample. Each charge will allow a 1 liter steam sample to be obtained.

(1)Cooling Water Fill:

- One button configures system for FILL
- Operator controls fill using the site CW supply valve
- Integral level sensor alerts operator when tank is full

(2)Sanitization:

- One button configures system for SANI
- Operator controls steam supply using the site supply valve
- Pre-programmed SANI duration alerts operator when SANI is complete
- Safety interlocks ensure coolant tank is full prior to SANI

(3)Post Sanitization:

- One button configures system for post-SANI Cooling
- Operator controls steam supply using the site supply valve
- Pre-programmed post-SANI duration alerts operator when complete

(4)Sample:

- One button configures system for SAMPLE
- Operator controls steam supply using site supply valve