

Exergy-Purex Point of Use System Key Design Features

- **Capacity:** [Market Leading Dispense Capacities and Variable Flowrates/Temps](#)
[0.5 GPM to 50 GPM \(115 - 11300 LPH\)](#)
- **Dispense Times:** From approximately 30 Seconds of user demand to under 45 seconds
- **Dispense Features:** Exergy POU Systems are fully customizable, typical options are;
 - Variable dispense flow rates
 - Variable dispense temperatures
 - Dump to drain during cooling mode
 - WFI Sampling
 - Downstream Purge
- **Communication/Control:** Exergy POU System Communication/Control Options include:
 - Fully Automatic Stand-Alone or Manual through HMI
 - WFI Health Status Input
 - Remote Start/Stop Operation
 - POU to POU Communication
 - Clients specified automation hardware
 - Custom programming for unique operational sequences
 - [Integration with other equipment skids including;](#)
 - [Direct Feed to Chromatography Skids](#)
[\(Variable flow/Temp on PCS command\)](#)
- **Heat Exchangers:** Exergy Sanitary double tube sheet shell and tube
- **POU Cabinet:** SS 304 construction with matt finish and door lock
- **Electrical Enclosure:** Segregated enclosure, CE and UL options
- **Certifications:** CE Certified, ASME BPE Compliant C of C.
- **Documents and Testing:** [Full Turn-Over Doc Package. Full Performance Tests, FAT, SAT.](#)



STEC-05	STCC-05 VT	STCC
115 to 1100 LPH	115 to 1200 LPH	115 - 11300 LPH
Manual Operation	Automatic or Manual thru HMI	Automatic or Manual thru HMI
Basic Sink/Limited Modifications	Fixed Flow/Variable Temp Open Process Equipment	Variable Flow/Temp Connected Process Equipment Fully Customisable

Exergy-Purex Point-of Use Design Department Delivers;

- **Integrated Process, Automation, and Software Design.**
 - Each Custom Design is driven by client specified performance and communication parameters.
- **Integrated System Hardware and Software Specification and Selection**
 - Component selection – each component selected for integration/communication to ensure specified design functionality.
- **Consolidated Component Engineering for WFI Loop Points of Use.**
 - Consolidated engineering reduces design hours/individual component specification.
 - Reduces instrumentation packages/valve count/tag lists-specifications/ Purchase Orders
 - Ensures single system functionality, over multi-component functionality.

- **Guaranteed Performance**

Every system is performance tested as







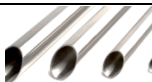

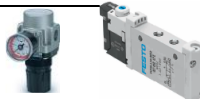
- **Global Installed Base (Partial Reference List)**



Exergy-Purex Point-of Use Component and Build Quality

Exergy-Purex POU Cooling systems are designed and manufactured using system components that are among the highest quality globally recognised component manufacturers in the industry.

System Components

Cabinet	Custom 304 SS Single/Double door cabinet. <ul style="list-style-type: none"> • NEMA 4 Equivalent • UL-508A Certified Wiring & Control Panel 	
Heat Exchangers	Exergy Sanitary Shell & Tube Heat Exchanger.	
PLC-HMI	Allen Bradley Micro820 PLC & PanelView 5.5" HMI	
Process Valves	ITT/GEMU Aseptic Diaphragm Valves	
Chilled Water Valve	Burkert actuated on/off or PID Control valve(s)	
Temperature Sensor	E&H / Andersen Negele Temperature Sensors and Thermowells	
Process Tubing	Dockweiler 316L Tube and Fittings	
Insulation	T-Tubes® Low-Profile Clean-Room Grade Insulation Armaflex/Zotefoam Insulation	
Pneumatics	SMC/Festo Pneumatics	

Purex Manufacturing Facility

- The Purex manufacturing facility in Mumbai has manufactured over 500 POU Cooling Systems in service worldwide – see reference list above.
- Exergy-Purex have facilitated on-site supplier quality audits by major global pharmaceutical companies, including customer witnessed FAT's conducted at the facility.
- Customer witnessed FAT events are welcomed and also provide a means for demonstrating the full capabilities of the Purex manufacturing team and the facility itself.
- Every custom system is ASME BPE compliant and subject to rigorous Factory Acceptance Test (FAT) prior to customer delivery.