

# Hydronic Series Liquid-to-Liquid Heat Exchanger



For Industrial, Commercial and Residential Applications



The Heat Exchanger Application Specialists

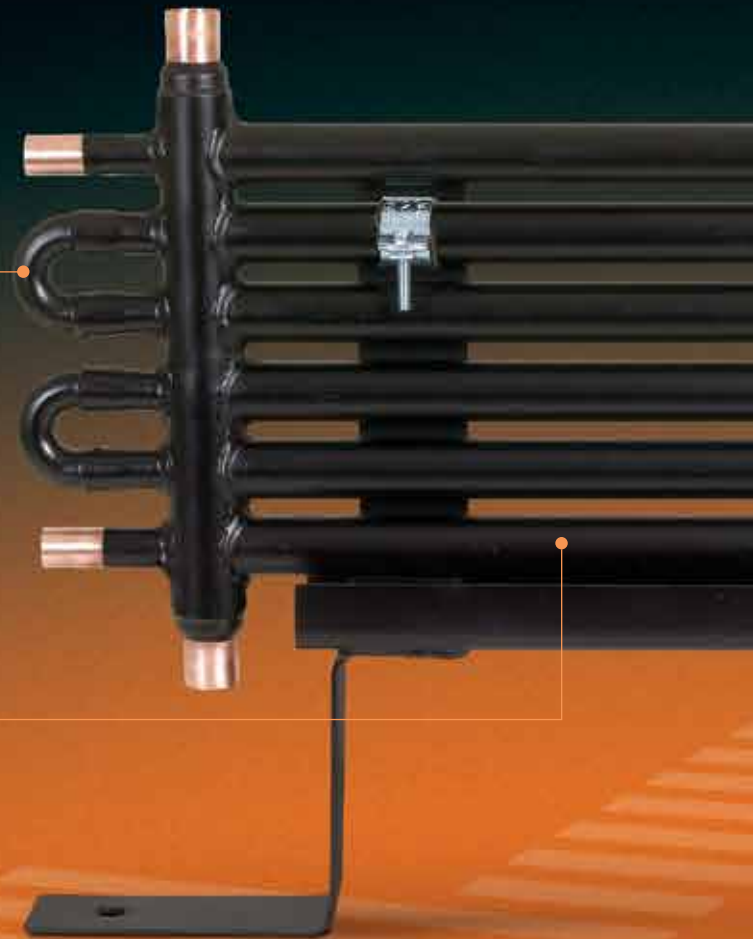


# Doucette Hydronic Series Liquid-to-Liquid Heat Exchanger

- Compatible material for easy installation
- Clog-resistant and mechanically cleanable
- High-performance counterflow design
- Vented double-wall construction prevents cross contamination
- Compact, rigid design is ready to install

The Hydronic Series is a liquid-to-liquid heat exchanger designed for highly efficient heat transfer covering a wide variety of liquid types. The heavy duty design makes it ideal for demanding commercial, industrial and residential applications where high performance and low maintenance are important.

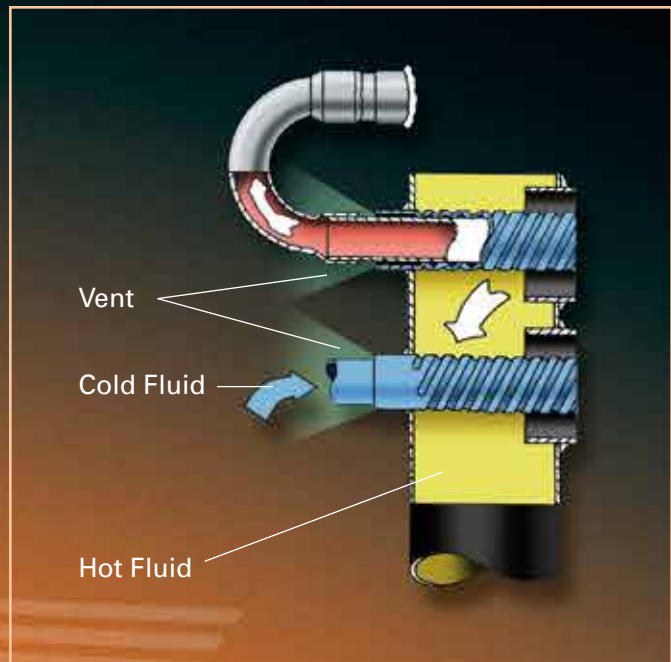
Heat transfer coefficients are greater than conventional shell and tube or plate exchangers because of the enhanced heat exchange surface and counter-flow design. Unlike plate heat exchangers, the Hydronic Series is not sensitive to debris clogging because of its large fluid circuits and is mechanically cleanable on the tube side circuit.



Available in all-copper construction, the Hydronic Series provides desirable material compatibility for fast and easy installation. The series is also available in 90-10 cupronickel and stainless steel for highly corrosive applications. The Hydronic Series is available in sizes from 50,000 Btu's through 1,000,000 Btu's and Doucette Industries will custom design models for specific applications.

## Vented Double-Wall for Safety

The Hydronic Series heat exchangers are available with patented vented double-wall copper construction for an added measure of safety and reliability. The double-wall system prevents contamination of the potable water from the other non-potable liquid circuit. Each tube is manufactured so that a vent path is created between the outer and inner tube. A failure in either tube wall will vent to the atmosphere, preventing cross-contamination of either fluid circuit. This fail-safe design meets all national, state, local and provincial health and plumbing codes requiring double separation and cross connection safety requirements.



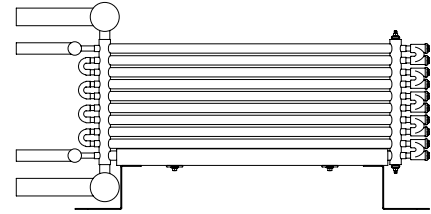
### Applications

- Snow Melt
- Freeze Protection
- Domestic Hot Water
- Industrial Processes
- District Heating Facility
- Solar Energy
- Cogeneration

# Hydronic Series

## Liquid-to-Liquid Heat Exchanger

**Boiler Water to Under-Floor Warming/Snow Melt  
Single-Wall Mechanically Cleanable Tube in Tube**



Model Number	Duty(Btuh)	Length	Width	Height	Hotside Connection	Coldside Connection	Weight
CTD 4M2/1P-4CC(F)HP	100,000	40	6	19	1.125	1.375	48
CTD 6M2/1P-4CC(F)HP	150,000	40	9	19	1.375	1.625	72
CTD 8M2/1P-4CC(F)HP	200,000	40	12	19	1.625	1.625	96
CTD 10M2/1P-4CC(F)HP	250,000	42	15	19	1.625	2.125	120
CTD 12M2/1P-4CC(F)HP	300,000	42	18	19	1.625	2.125	144
CTD 16M2/1P-4CC(F)HP	400,000	42	24	19	1.625	2.125	192
CTD 20M2/1P-4CC(F)HP	500,000	43	30	19	2.125	2.625	240
CTD 24M2/1P-4CC(F)HP	600,000	44	36	19	2.625	3.125	288
CTD 36M2/1P-4CC(F)HP	900,000	44	54	19	2.625	3.125	432

**Specification:** Hotside: Boiler Water entering at 180F, leaving at 160F. Delta P under 1psig  
Coldside: 50% Glycol entering at 50F, leaving at 60F. Delta P under 2 psig  
Design Pressure: 300psig both circuits

**Boiler Water to Domestic Water  
Vented Double-Wall Mechanically Cleanable Tube in Tube**

Model Number	Duty(Btuh)	Length	Width	Height	Hotside Connection	Coldside Connection	Weight
CUY 10M5/1P-10SCC(F)HP	200,000	51	6	31	1.375	1.125	150
CUY 15M5/1P-10SCC(F)HP	300,000	51	9	31	1.625	1.125	225
CUY 20M5/1P-10SCC(F)HP	400,000	51	12	31	1.625	1.375	300
CUY 25M5/1P-10SCC(F)HP	500,000	51	15	31	2.125	1.375	375
CUY 30M5/1P-10SCC(F)HP	600,000	52	18	31	2.125	1.625	450
CUY 35M5/1P-10SCC(F)HP	700,000	52	21	31	2.125	1.625	525
CUY 40M5/1P-10SCC(F)HP	800,000	52	24	31	2.625	2.125	600
CUY 45M5/1P-10SCC(F)HP	900,000	52	27	31	2.625	2.125	675
CUY 50M5/1P-10SCC(F)HP	1,000,000	52	30	31	2.625	2.125	750

**Specification:** Hotside: Boiler Water entering at 180F, leaving at 160F. Delta P under 2psig  
Coldside: Domestic Water entering at 100F, leaving at 140F. Delta P 4 psig  
Design Pressure: 300psig both circuits

*Smaller duty heat exchangers are available in both single and double-wall design. Contact the factory for further information.*

Doucette Industries is the Heat Exchanger Application Specialists with more than 50 years combined experience in HVAC, refrigeration, hydronic and custom heat transfer products. Our heat exchangers are built on proven technology and we have thousands of systems installed worldwide. Products include desuperheaters, CO2 vaporizers, suction line heat exchangers, coaxial coils, shell and tube heat exchangers, counter-flow condensers and brazed plate heat exchangers.



20 Leigh Drive York, Pennsylvania 17406-8474

**Toll Free: (800) 445-7511**

Phone: (717) 845-8746

Fax: (717) 845-2864

**www.doucetteindustries.com**

e-mail: johnL@doucetteindustries.com

