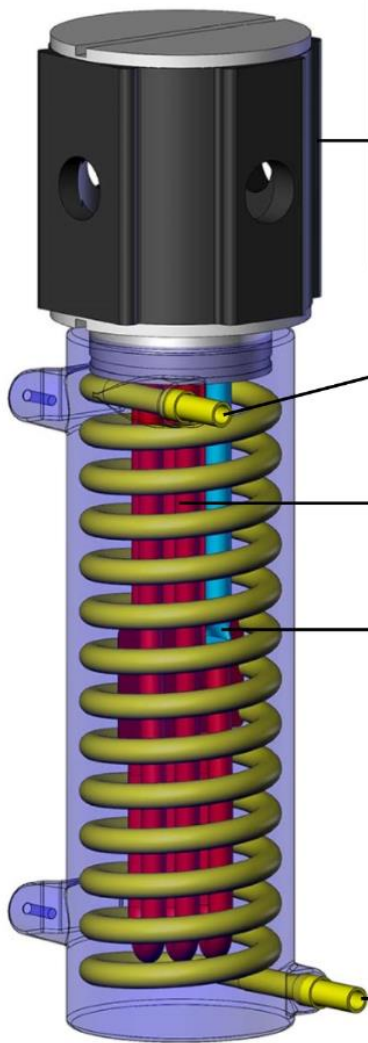




SENSEMASTER LTD

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Unit 1 Severn Bridge Ind Est.
Caldicot, Monmouthshire. NP26 5PW

Sensing, Heating & Anti-static Solutions



Electrical Enclosure:
Several options available, including certified moisture-resistant and explosion-proof versions.
Enclosures are available with 'standard' or 'standoff' mounts; standoffs have increased separation from the heater body, to withstand higher operating temps.

Seamless 316 Stainless Steel Flow-Tube:
Compatible with high-pressure applications.

Heating Elements:
Cast into the aluminum heater body, delivering low-loss heat transfer to flow-tubes & media.
Max Power: 6 kW

Thermocouple in Deep Thermowell:
Sensor is deep in heater body, to provide accurate reading of operating temperature.

Safely heat flammable gases & liquids.
(natural gas, aerospace, cryogenic uses)
Media is isolated in this flow-tube, never touching the heating elements.
This design also prevents contamination.
(food, medical, semiconductor applications)

Please liaise with Sensemater technical mail@sensemater.co.uk 01291 422022 for further assistance

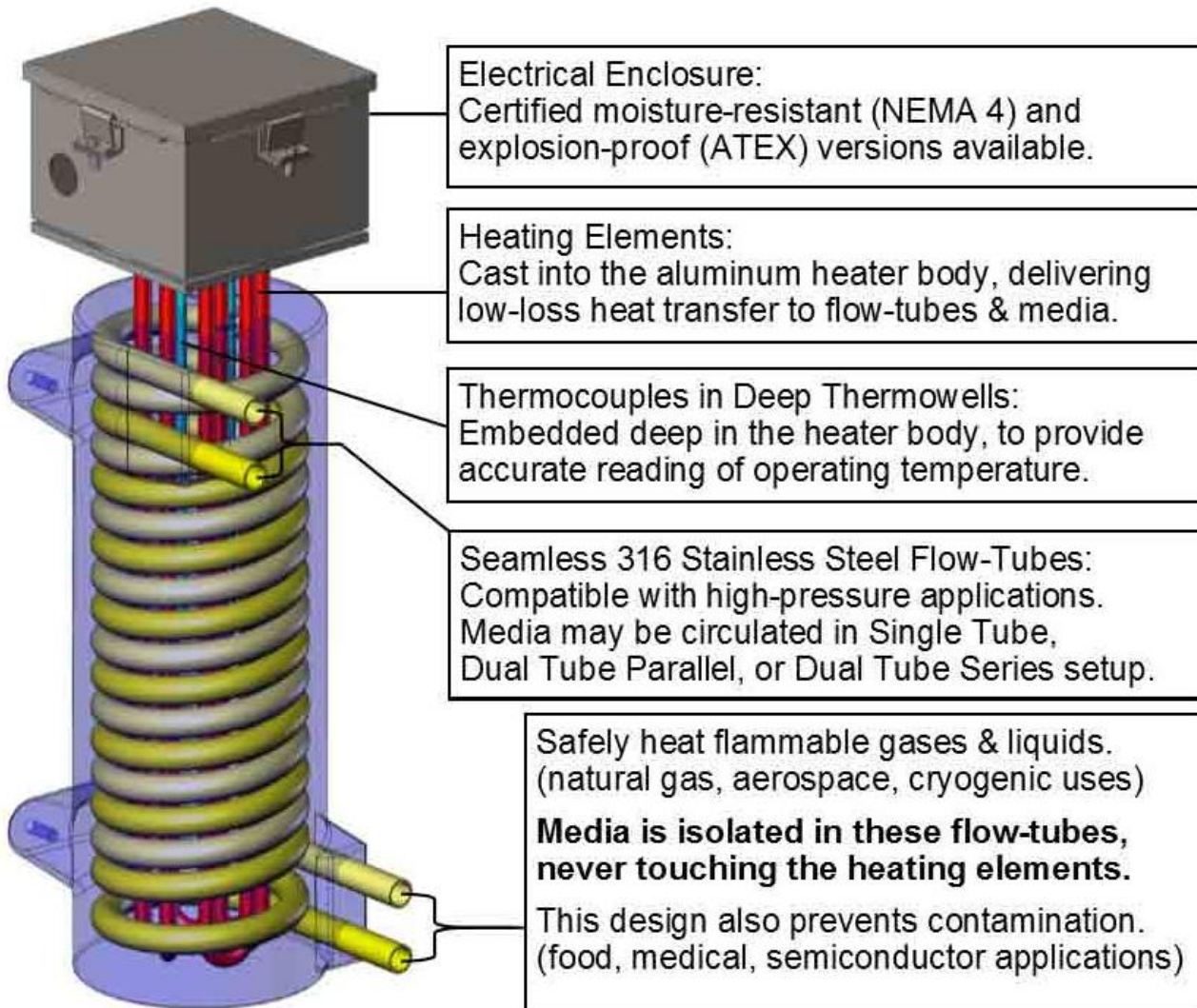
Further product information can be found on our website link <https://sensemater.co.uk/cast-x-2/>



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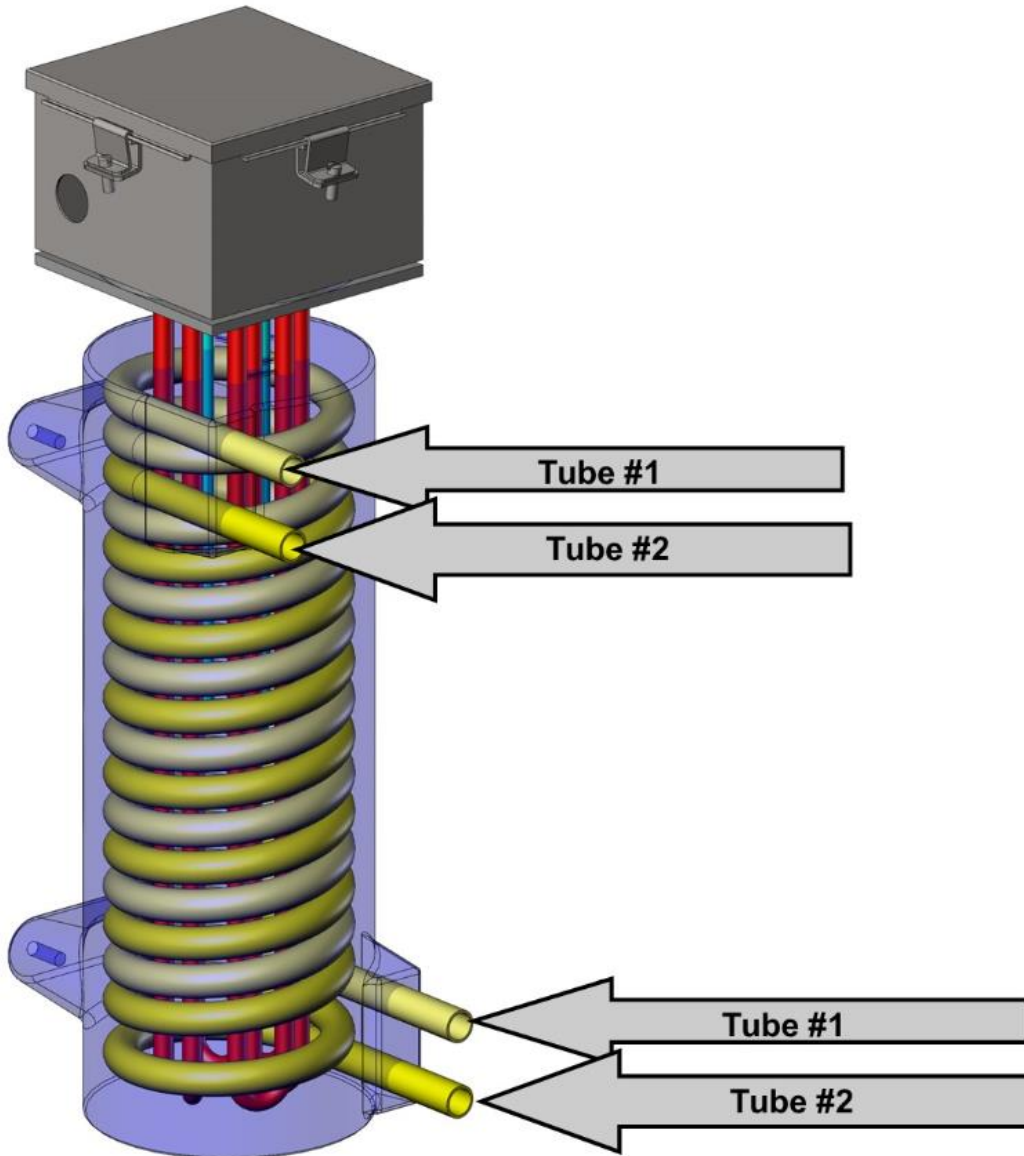
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Tel 01291 422022

Email: mail@sensemater.co.uk

Web: www.sensemater.co.uk

Director: Stephen Davies

VAT Reg No 412781955

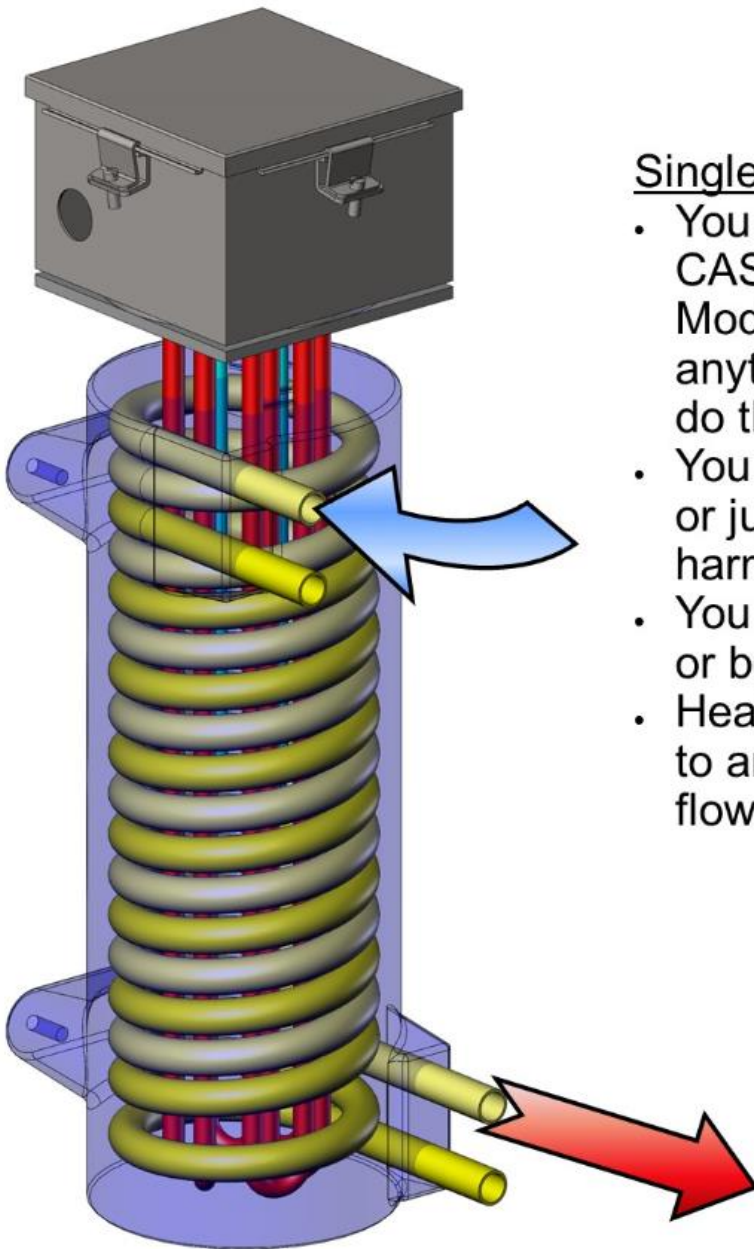
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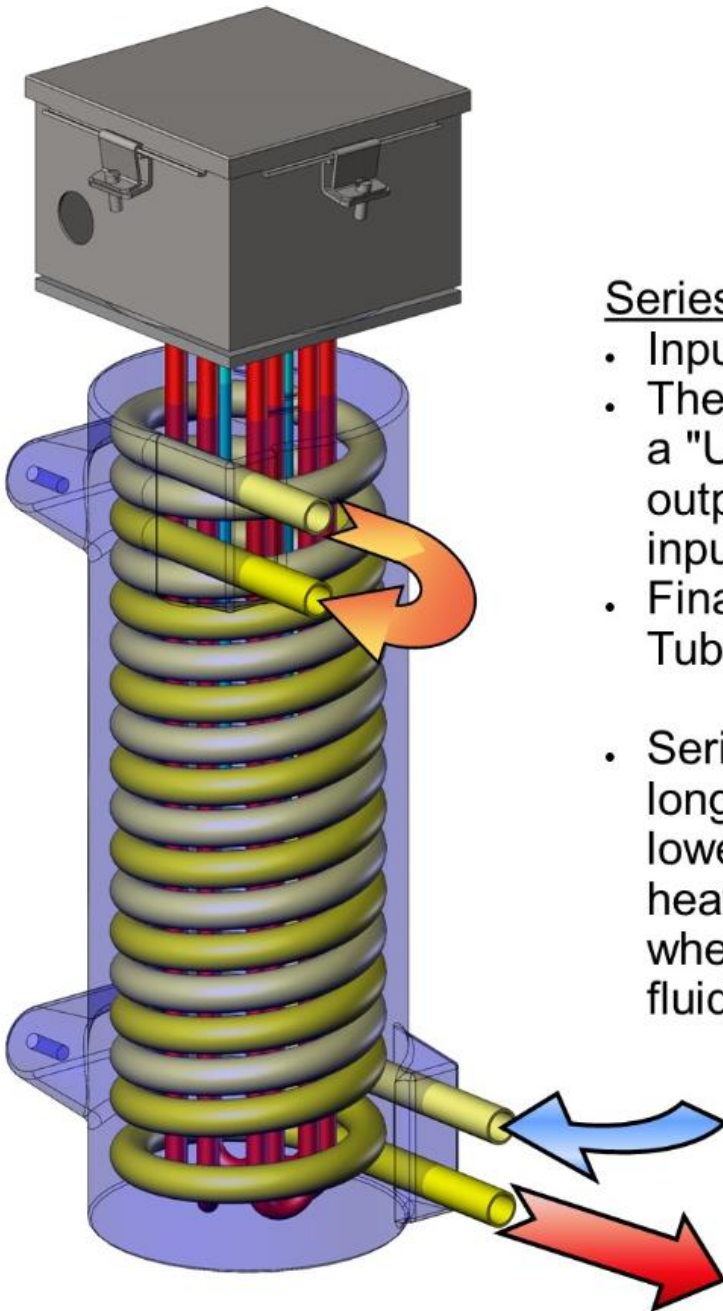


Single Tube, Single Pass

- You can run a Dual Tube CAST-X in Single Tube Mode....this does not hurt anything....most customers do this.
- You can cap the empty tube or just leave it open. No harm will come.
- You can input from the top or bottom.
- Heater will "self drain" due to angle of helical wound flow-tubes.

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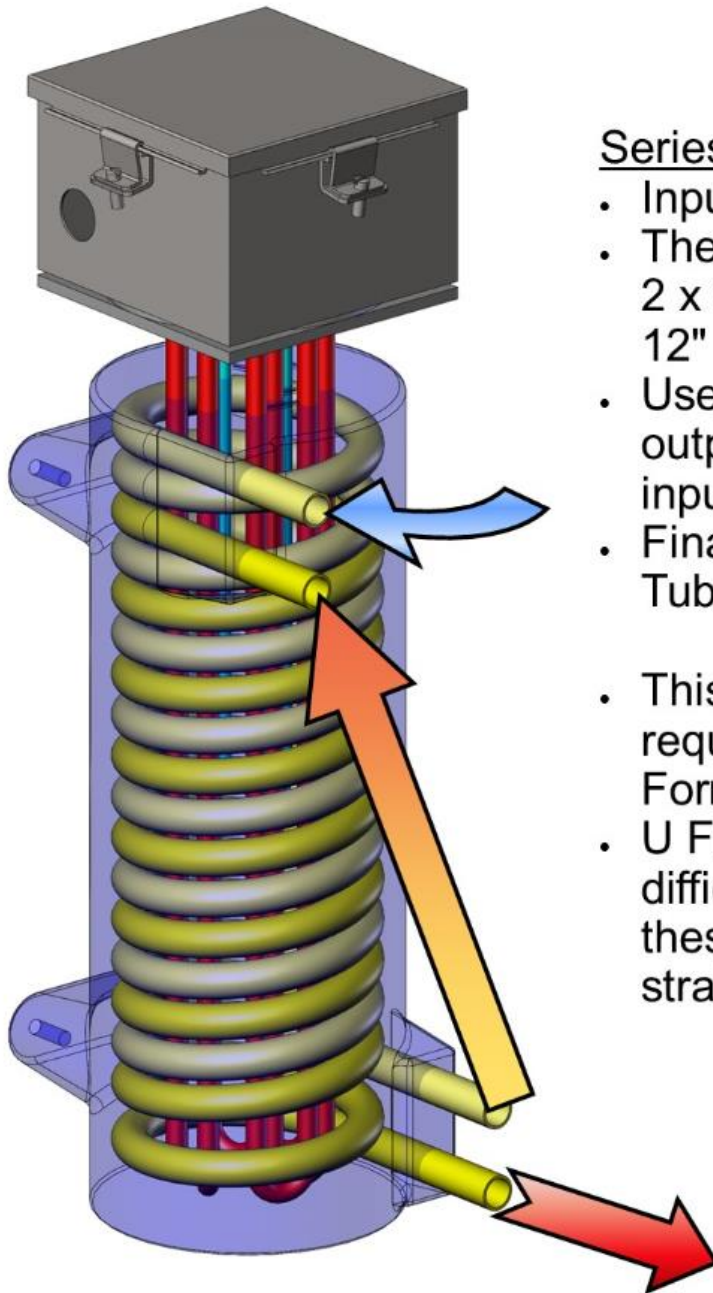
Series Flow Format 1

- Input Tube #1 (blue)
- The orange arrow is a "U" fitting connecting output of Tube 1 with input of Tube 2
- Final hot fluid exits out Tube #2 at bottom.

- Series flow can allow for longer dwell times, and lower set points for heater temp. (important when heating oils or fluids that burn or cake)

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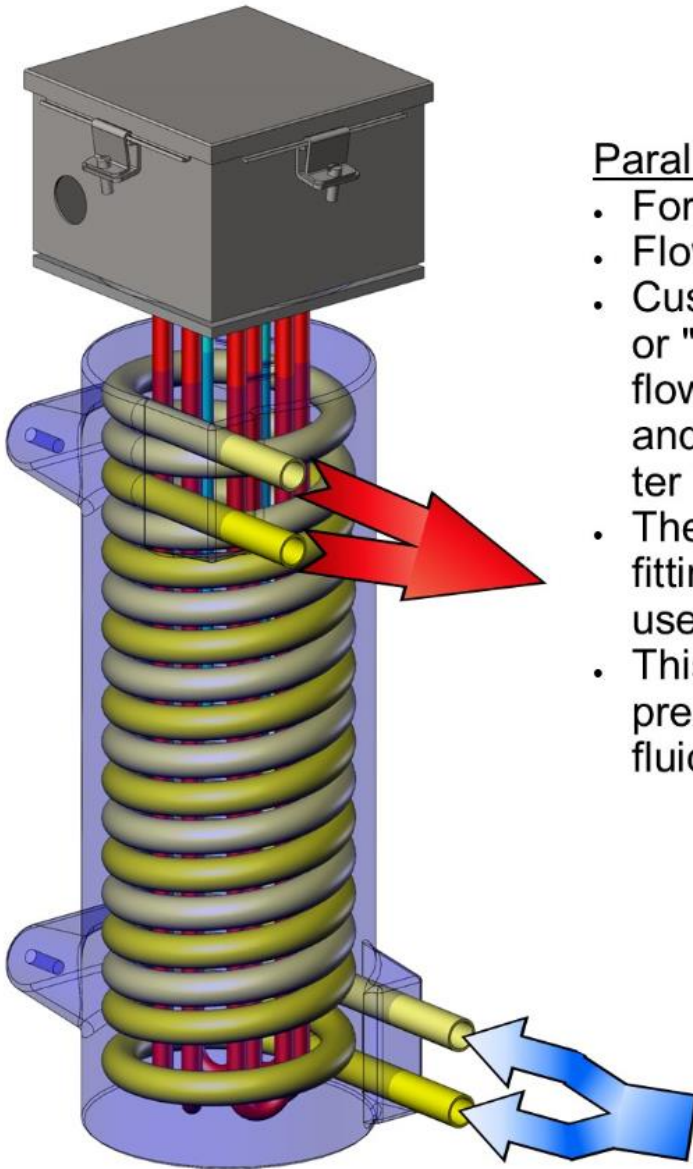
Series Flow Format 2

- Input Tube #1 on top
- The orange arrow is 2 x 90° Elbows and a 12" Long straight piece.
- Use this to connect the output of Tube #1 to the input of Tube #2.
- Final hot fluid exits out Tube #2 at bottom.

- This format does not require a "U Fitting" as Format #1 does
- U Fitting is likely more difficult to source than these 2 Elbows + straight piece

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Further product information can be found on our website link <https://sensemaster.co.uk/cast-x-2/>



Parallel Flow

- For high flow applications
- Flow is split
- Customer uses "Y" splitters or "T" type fittings to split the flow across the 2 flow-tubes, and bring it back together after heating.
- There are several different fitting options and methods used to "split the flow"
- This format can help reduce pressure drop, especially if fluid flow is high

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