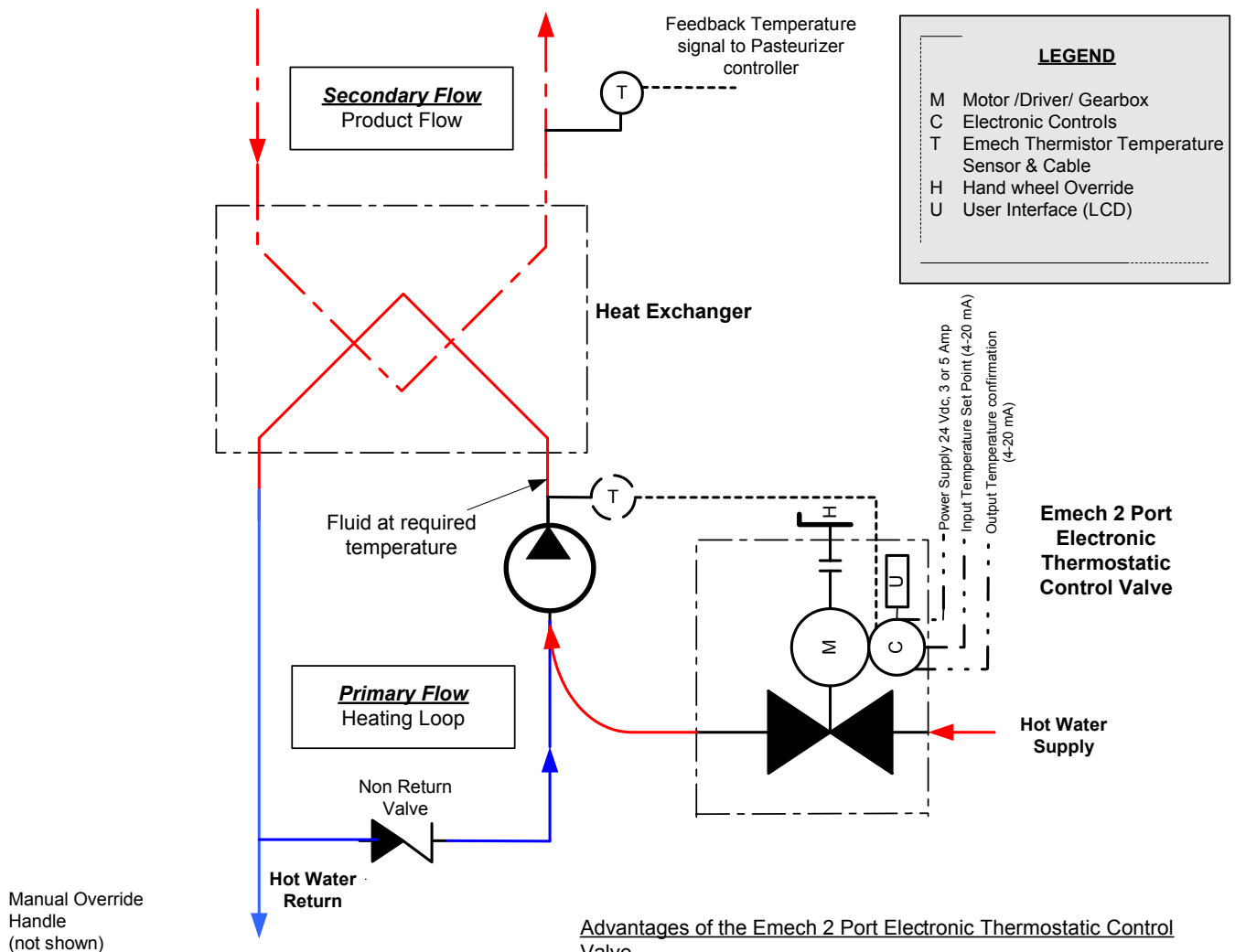


# APPLICATION NOTE 9:

Model F2 2-Port Valve, and G1 Electronic Actuator.

# Emech Thermostatic Application Pasteurizer Controller



LEGEND	
M	Motor /Driver/ Gearbox
C	Electronic Controls
T	Emech Thermistor Temperature Sensor & Cable
H	Hand wheel Override
U	User Interface (LCD)

Manual Override Handle (not shown)



F2 Valve and G1 Actuator

### Advantages of the Emech 2 Port Electronic Thermostatic Control Valve

1. In this circuit type, the F2 controls the heat exchanger INLET temperature. The SET POINT to the G1 controller is usually a mA signal from a Cascade style control loop in the plant pasteurizer controller.
2. The Temperature Sensor 'T', is located at the point of mixing usually just after the circulation pump.
3. The Emech controller can be set with 'aggressive gains'. The result is OPTIMIZED control.
4. The Emech Controller is a fully integrated unit. Only a power supply and an optional 4-20mA set point signal is required.
5. The Emech solution includes full P.I.D. control gain configuration. An RS232 connection enables the actuator to be tuned to suit the installation.
6. The Emech valve uses ceramic 'hard-seal' disc technology for long life sealing integrity, and low torque operation.

Disclaimer:  
This diagram is for general discussion purposes only. It is NOT intended as a design document. The actual operation and equipment selection is the responsibility of the plant owner.  
The information is solely intended to provide a general understanding of the subject matter and to assist Emech's customers and potential customers to assess whether they require further information.  
Emech does not guarantee or warrant the accuracy, completeness or currency of any information provided.

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