



For recirculation circuits it is necessary to consider the effects of/at:

1. start up/finish conditions
2. of sudden loss of water, power or steam supplies
3. no draw-off from the loop for extended periods (air bleed & vacuum breaker maybe required)
4. the volume of the re-circulating water

Key	
1	Emech F5+G1 Temperature Controller, Steam Water Mixer.
2	Emech Temperature Selector Switch
3	Non Return Valve
4	Manual Valve
5	Solenoid Operated Spring to Close (STC) steam isolation valve (fast acting on 'close' only)
6	Flow Switch (INSTALL AT LEAST 2M FROM VALVE, AND BEFORE DRAW OFF POINTS. HAVE AT LEAST 1M OF STRAIGHT PIPE BEFORE FLOW SWITCH)
7	Thermal Switch (INSTALL CLOSE TO VALVE, approximately 0.3 to 1m)
8	Optional Emergency Shut-down Switch (ESD)
9	Hand-wash stations
10	Optional circulation pump
<p>— Water pipe - - Steam pipe - - - - 24Vdc power cable - - - - - Signal cable</p>	

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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 SDAN0015_Rev0_Steam-Water_Mixer_Handwash.vsd
Drawn By/ Date: JRB, 4 May 2006
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Project Title:
For:

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