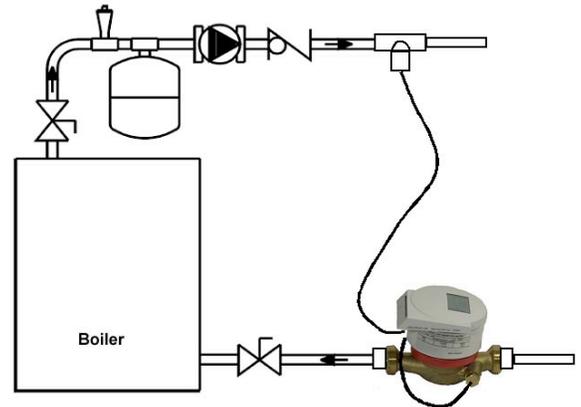


5201 Series Installation & Operations Instructions

General : The 5201 Smart BTU Meter calculates energy (BTU) consumption by multiplying flow volume by the water temperature difference between the supply and return lines. The number displayed on the LCD is the accumulated energy (BTU's) and this value can not be reset. Additional information can be viewed on the LCD by inserting the Service Card (see attached Display Sequence Card).

Information from the BTU Meter can also be accessed with a Chip Card. The Chip Card, which is the size of a credit card, can store information from up to 50 devices. When a Chip Card is inserted, the BTU Meter's identification number and energy values are transferred to the card. This information can then be entered into a computer easily and without error for storage, trend logging and billing purposes.

1. The BTU Meter should be installed on the system return. Insure that the Blue Sensor Probe is inserted into the BTU Meter body and tightened sufficiently. The Red Sensor Probe must be mounted on the system supply using the immersion well provided.
2. Before beginning the installation, verify that the system temperature, pressure and flow rate **do not** exceed the ratings indicated on the BTU Meter.
3. The BTU Meter is designed to operate at a sustained flow of ½ the Maximum Flow Rating (indicated as the Continuous Flow Rating). The BTU Meter **should not** be operated at the Maximum Flow Rating for more than one hour per day as excessive wear and/or failure will result.
4. Flush the pipeline thoroughly after any plumbing changes to eliminate the possibility of foreign materials reaching the BTU Meter.
5. The BTU Meter may be installed in horizontal or vertical pipelines (either up or down flow). The Card Slot should be positioned to face downward. Insure that the BTU Meter is completely full of water at all times.
6. To achieve the rated accuracy, the BTU Meter should be the same diameter as the pipe **and** there should be at least five (5) pipe diameters of straight unobstructed pipe before and after the BTU Meter. (Avoid locating the meter directly before or after 90's, reduced port valves, or other fixtures that cause turbulence)
7. Pay careful attention to the flow direction as indicated by the arrow cast into the BTU Meter body.
8. It is highly recommended that a strainer be installed upstream of the BTU Meter inlet. It is also recommended that a shutoff valve be located before and after the BTU Meter to facilitate service. (see # 6 above)
9. Care should be taken to protect the BTU Meter from water hammer as well as freezing temperatures.



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