



DAVIS › STANDARD®

Where your ideas take shape.

PELLETIZING



TEMPERED SLURRY WATER RECIRCULATION SYSTEMS

OVERVIEW

The system delivers pellet quench water to a pelletizer, receives water by gravity from a pellet dryer, conditions it and returns it to the pelletizer. The system allows closed loop temperature conditioning of the water prior to the pelletizer start-up.

FEATURES

- **Surge Tank:** The surge tank acts as the system reservoir and provides an approximate 2 minute residence time for water tempering. Provision for pellet spin dryer mounting atop.
- **Pump:** The centrifugal pump draws water from the reservoir and pumps it through the system. Duplex pump arrangement is available.
- **Filtration:** The water is strained of contaminants utilizing a tray, single or duplex strainers.
- **Heating:** Electric, steam, or oil heating of the water is available for start up.
- **Cooling:** A water to water plate and frame or shell and tube cooler maintains the system temperature.
- **Piping:** Water make up and bypass piping are provided. System materials of construction options are available.
- **Controls:** A temperature controller, temperature and pressure indicators, switches and other instrumentation allow effective operation of the system. Components are wired to a junction box. The system is designed for the specific electrical area classification.

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NOMINAL TYPICAL SYSTEM FLOW RATES

50 GPM	11 M ³ /hr
100 GPM	22 M ³ /hr
150 GPM	33 M ³ /hr
200 GPM	44 M ³ /hr
300 GPM	66 M ³ /hr
400 GPM	88 M ³ /hr
500 GPM	110 M ³ /hr
600 GPM	132 M ³ /hr
1000 GPM	220 M ³ /hr
1200 GPM	264 M ³ /hr
1600 GPM	352 M ³ /hr

Larger or Customized Systems Available.

NOMINAL SURGE TANK CAPACITY

100 Gallons	0.38 M ³
200 Gallons	0.076 M ³
300 Gallons	1.14 M ³
400 Gallons	1.52 M ³
600 Gallons	2.28 M ³
800 Gallons	3.04 M ³
1000 Gallons	3.80 M ³
1200 Gallons	4.56 M ³
2000 Gallons	7.60 M ³
2400 Gallons	9.12 M ³
3200 Gallons	12.16 M ³

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