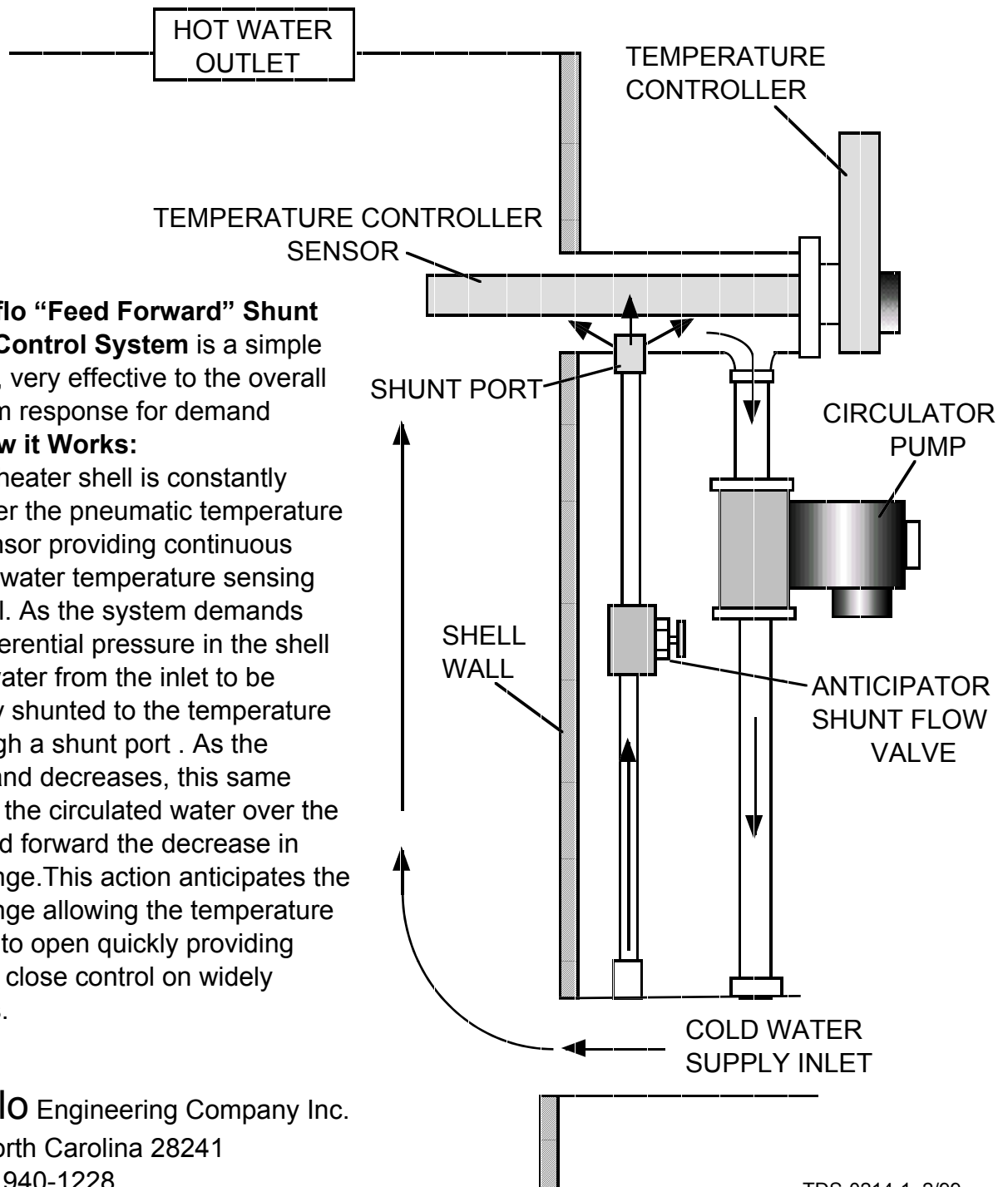


## TECHNICAL DATA

### TH-750 V FEED FORWARD ANTICIPATOR SYSTEM

The Thermaflo "Feed Forward" Shunt Anticipator Control System is a simple principle; but, very effective to the overall heater system response for demand changes. **How it Works:** Water in the heater shell is constantly circulated over the pneumatic temperature controller sensor providing continuous feed forward water temperature sensing from the shell. As the system demands hot water, differential pressure in the shell allows cold water from the inlet to be proportionally shunted to the temperature sensor through a shunt port. As the system demand decreases, this same action allows the circulated water over the sensor to feed forward the decrease in demand change. This action anticipates the demand change allowing the temperature control valve to open quickly providing exceptionally close control on widely varying loads.



## Thermaflo TH-750 and 500 Series Water Heater Pressure Gradient Shutdown System

The Thermaflo Engineering TH-750 and 500 Series Steam Fired or HTHW Water Fired Domestic Water Heaters can be fitted with the TYPE 604EM2 Pressure Gradient Safety Shutdown System. These systems are designed to shutdown the steam supply control valve and actuate the pressure alarm when the steam pressure reaches a point of pressure either in the tubes (TH-750 Series) or in the shell (500 Series Only) 10 psig below the water pressure. This prevents the steam from reaching a point where it can be transferred into the domestic water side of the heater. The TYPE 604EM2 utilizes a differential pressure switch assembly that senses the steam side shell or tube pressure and the domestic water pressure within the heater. A 10 psig set point is preset from the factory. At point the water pressure falls to within 10 psig of the controlled steam pressure the gradient system is actuated.

Hookup Fig. PG-75-1

TH-750 SERIES HEATER  
 SHOWN

