



PERRY EQUIPMENT CORPORATION  
AN ISO 9001 COMPANY

## SERIES 77 GAS FILTER / COALESCER

### INSTALLATION INSTRUCTIONS

1. Check the filter-coalescer cut-away picture in order to get acquainted with the flow pattern of gas through the first and second stage.
2. Connect the filter-coalescer by the usual piping methods, observing proper inlet and outlet as marked illustration and equipment drawings. Pipe all connections on first and second stages independently. Gauge Glass, Liquid Level Controls, and Drains should never be manifolded between first and second stages

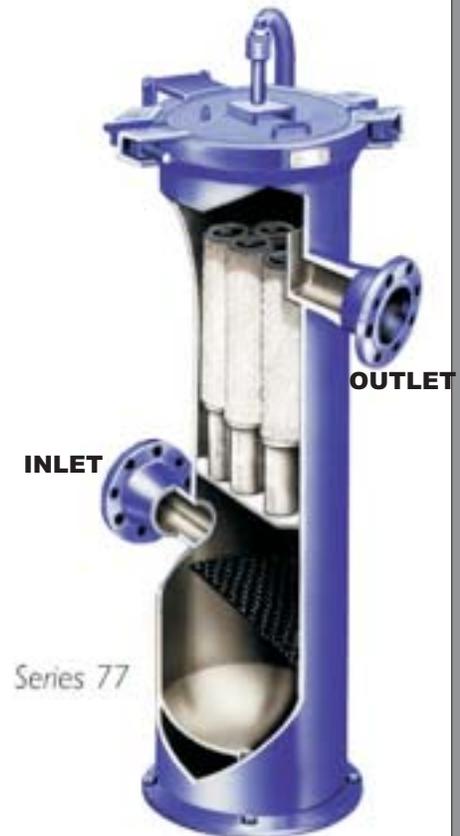
Do not operate without first removing the top head to make sure the element hold-down nuts are tight.

3. Pressurize to minimal pressure to inspect for leaks.
4. If no leaks are found, check to be sure that all pressure gauge connections, drain connections, etc. are ready for operation.
5. Put the filter-coalescer on stream by slowly opening the inlet valve until line pressure is reached, then slowly open the outlet.
6. Check the pressure drop across the filter-coalescer to determine the initial pressure drop (using either pressure gauges or manometer).

Initial pressure drop will be low, one (1) PSI or less, until the elements are wetted. After elements are wetted, pressure loss will normally be two (2) PSI or less.

### OPERATING INSTRUCTIONS

1. In normal service, element change-out should be a scheduled maintenance job approximately every two years. However, if excessive solids are present, change out will be more frequent.
2. If the filter-coalescer has begun to show a pressure build-up across the first stage of approximately 8- 10 PSI, it is suggested that you take the unit out of service and open the head to inspect the elements.
3. Replace dirty or damaged elements with PECO replacement Elements.



### CHANGING ELEMENTS

1. Replace new elements in same manner as the element was originally installed.
2. When removing the elements, make certain that the bottom element gasket has not been left on the carrier. These gaskets are an integral part of the element, and may occasionally stick tight enough to the seal plate to pull free of the elements when removing the element.
3. In installing elements make certain that the element hold-downs are properly seated after tightening. This will insure proper sealing of the element and prevents by-pass of gas.
4. After replacing elements, put filter-coalescer back in stream.
5. Order replaceable head gaskets and elements by Series Model and Serial Numbers shown on filter-coalescer nameplate.

IF ANY DIFFICULTIES ARE EXPERIENCED WITH THE PECO FILTER-COALESCER,  
CONSULT THE FACTORY OR YOUR LOCAL REPRESENTATIVE.

**ENGINEERED FILTRATION TECHNOLOGIES**