This design minimizes dead volume and maximizes heat transfer with a much expanded heat dissipation area, thus effectively removing condensate from the sample and improving the system response time. Compared with the alternative of using drop out pots, coalescing filters or bypass membrane filters, the combination of Demister II and Liquid Rejection Probe does not waste gas in bypass flow, does not require regular maintenance and does not require the disposal of potentially hazardous condensate. It has a faster response time due to the considerable reduction in dead volume and it is also much easier to install and service should it become necessary.

Demister II

The Demister II provides a significant improvement over the original AMI demister. As well as acting to remove mists from a sample, it now also effectively condenses vapors so as to make sure that condensation does not occur further down the sample system, particularly within the Liquid Rejection Probe (which can cause premature failure of the probe membrane as it loads up with condensate).

The Demister consists of a schedule 80 steel pipe with a number of fins welded onto it for effective heat dissipation. Pressed into it is a machined metal rod that both forces the entire sample to come to equilibrium with the demister temperature, and also keeps the temperature gradient along the demister to a minimum. Condensable vapors turn into liquids which can run back into the source.

Demister Specifications

- Pressure rating: 1500psig max at 190°F
- Connections: ½” MPT
- Material: carbon steel seamless pipe
- With carbon steel fins
- Painted gloss white.
- Dimensions: 12” long, fins 3” diameter.