



OVERVIEW OF 3 PHASE GAS COALESCING



3 PHASE GAS COALESCING FILTERS

SERIES 343, 383, 393
Patent No. 7,332,010

TM Filtration's three-phase coalescing filter vessels are used where high loadings, and highly saturated gasses are at their worst.

TM Filtration's pleated GFC coalescing element ensures maximum removal of liquid and particulate, while minimizing frequent and expensive element change outs by utilizing our standard patented high capacity element. It also reduces your future costs of spare elements, as our elements may be ultrasonically cleaned.

The three-phase separator/filter combines the functionality of a vane or mesh separator, with the high efficiency, high capacity GFC coalescing filter; thus removing the need for separate vessels, and their additional cost.

APPLICATIONS:

- Turbine protection
- Gas compressor oil & water removal
- Meter protection
- Liquid removal prior to compressed gas storage
- Heat exchanger protection
- Air compressor protection
- Vacuum pump protection (when a knock out pot is not enough)

DESIGN INFORMATION:

- Gas radial velocity impacting on the surface area of the coalescing element ≤ 0.5 ft / sec
- Clean pressure drop inlet to outlet ≤ 1 psid Vessels are available in full ANSI class ratings
- All vessels are designed per ASME code Section VIII Div. 1 (Latest addendum)
- ASME "U" Stamp available upon request



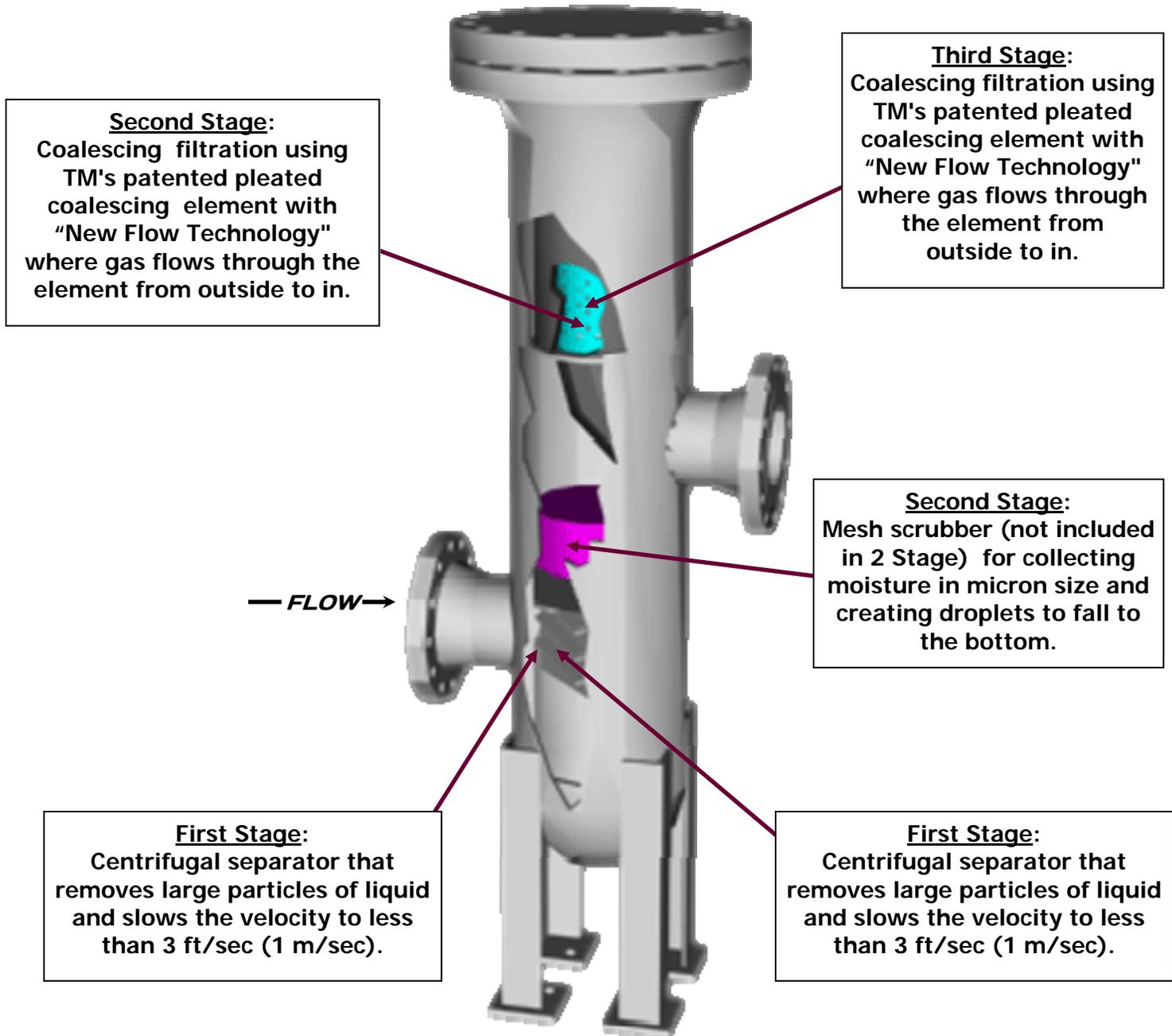
Notes: Body material, connections, available options, and dimensions are completely customizable. Dimensions and options availability are subject to change without notice. Please consult the TM Sales Department or your local sales representative for certified drawings, or additional information.

2 STAGE (PHASE) GAS FILTRATION



PATENT NO. 7,332,010

3 STAGE (PHASE) GAS FILTRATION



CREATING A 300 SERIES CLEANABLE GAS COALESCING PART NUMBER



PATENT NO. 7,332,010

300 SERIES PART NUMBER BREAKDOWN

3

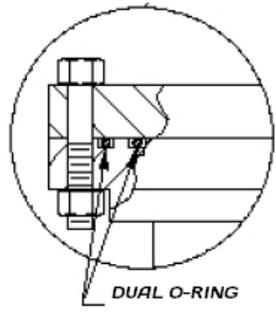
STAGES OF FILTRATION
 2 = Two Stage Filtration
 3 = Three Stage Filtration

DESIGN OPTIONS
 BLANK = Standard Unit
 E = E-line (Econo-line)
 ER = E-line with reservoir
 H = Horizontal Design



E SHOWN H SHOWN ER SHOWN

COVER STYLE
 4 = Double O-ring cover
 8 = Posi-Sealoc II® quick release cover
 9 = Bolted cover



DUAL O-RING



4 SHOWN 9 SHOWN



8 SHOWN

Examples

383 3 Stage Coalescing Filter with a Posi-Sealoc II® quick release cover

392ER Economy line, 2 Stage Coalescing Filter with a bolted cover and reservoir

342 2 Stage Coalescing Filter with Double O-ring cover

Note: It is possible to assemble codes that have not previously been designed. Please contact the sales department if you cannot find your model code in this catalog.