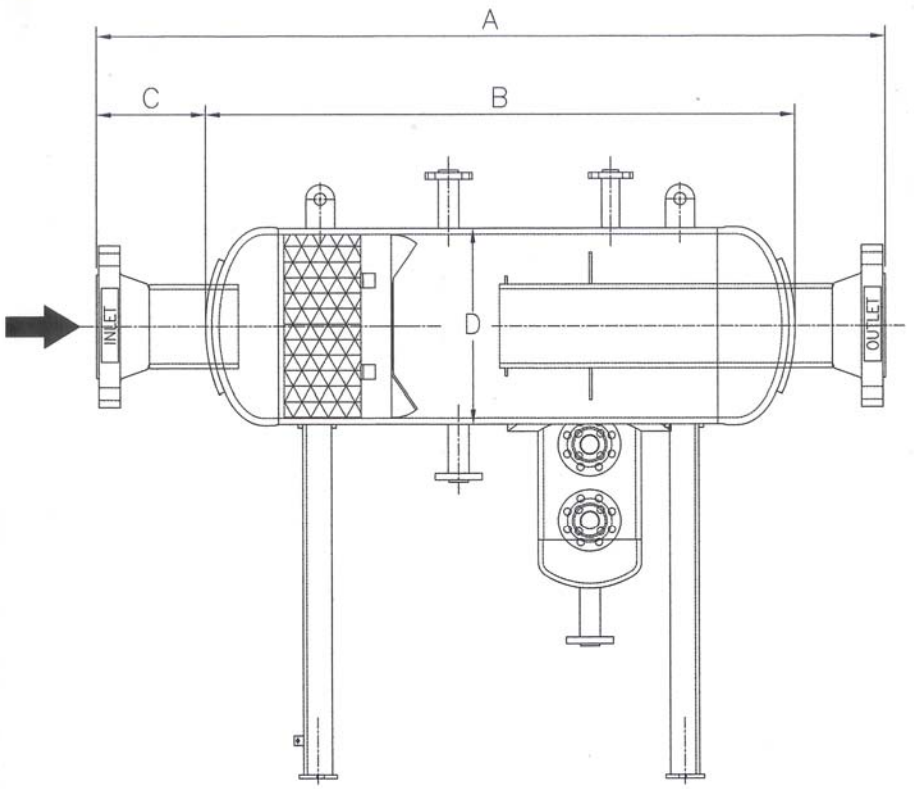
TYPE 31LS-CLC IEFSA COALESCER/SEPARATOR

DESIGN PRESSURE 150-1,500 PSI AT 450°F



DIMENSIONS

Size	A Inches	B Inches	C Inches	D Inches	Drain NPT	Wt. # (Est.)
2 1/2"	34	28	3	6-5/8	1	125
3"	36	30	3	8-5/8	1-1/2	180
4"	42	34	4	10-3/4	1-1/2	280
5"	46	38	4	12-3/4	1-1/2	390
6"	48	40	4	14	1-1/2	510
8"	58	48	5	16	2	665
10"	64	54	5	20	2	1060
12"	72	62	5	24	2-1/2	1415
14"	78	68	5	30	2-1/2	1830
16"	86	76	5	40	3	2130

Dimensions for largar sizes, higher design pressures and temperaturas upon request.

OPERATION

The IEFSA coalescer/separator operates in two stages. In stage one, the coalescer stage, entrained liquid droplets enter a wire mesh pad and the droplets grow in size (coalescer) as they travel through the mesh pad. Droplets that were 4 microns and larger entering the mesh pad exit stage one and enter stage two as droplets 10 microns and larger. In stage two, the separtion stage, curved stationary blades put the gas stream n to a controlled centrifugal flow. This action forces the entrained liquids and solids to the outer wall resulting in gas/liquid separation. The separated droplets and particles collect at the bottom tramp of the vessel and drain out. Our exclusive “VCP” system guarantees no re-entrainment, assuring a dry gas stream at separator outlet.

VESSEL DESIGN

IEFSA buits the standard 31LS-CLC coalescer/separator in carbon steel with type 304 (L) or 316 stainless steel internal separating elements. All IEFSA vessels meet ASME Code, Section VIII, Division I. ASME “UM” or “U” stamp is available. Vessel body can desing flanges to provide access to the coalescing section of the vessel so that the coalescing pad can be removed for inspection, cleaning, or replacement.

APPLICATION

The IEFSA Coalescer/Separator, when properly installed and drained, removes 99% of all liquid and solid entrainment where droplet size exceeds four microns. The separation efficiency of the type 31LS-CLC far exceeds that of any other centrifugal, clyclone, tuyrene, or vane type separator that is ineffective below 8 microns. For separator sizing and determining actual pressure drop, refer to your Technical Assesor.