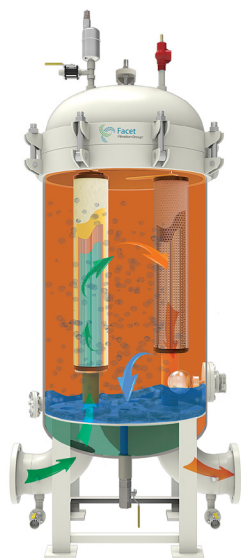
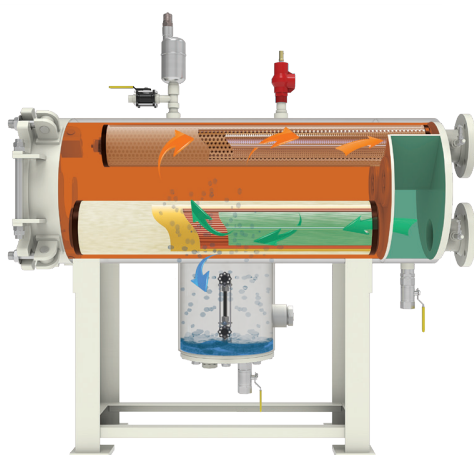


Coalescer Separators General Description



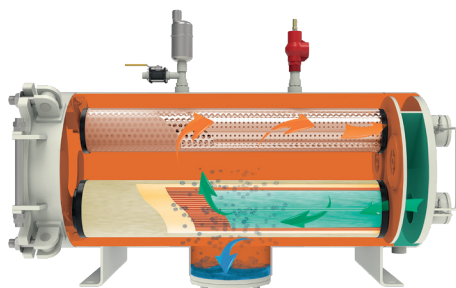
Vertical Two-Stage Coalescer Separator Flow Diagram

Two-stage coalescer separators are the primary defense against fuel contamination by water and dirt. The coalescer separator housings contain both first-stage coalescer and second-stage separator cartridges with no internal moving parts. The product is pumped under pressure to flow through the housing inlet chamber and inside/out through the multi-media coalescer cartridge. This specially developed multi-media cartridge configuration traps and holds minute solid particles to less than one micron, while forcing small water droplets to commingle and grow into heavier, larger drops that fall by gravity to the housing sump area. The cleaned fuel continues to flow outside/in through the second-stage separator cartridges. These separator cartridges strip any remaining water droplets from the fuel allowing only clean, dry fuel to pass.

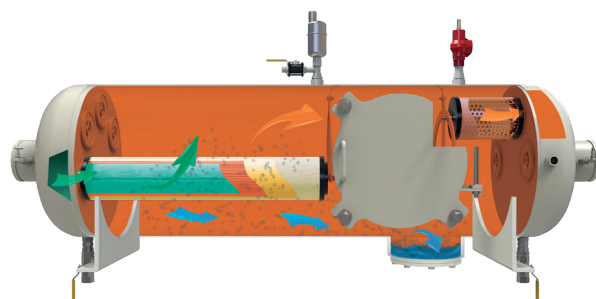


Typical Horizontal End Opening Coalescer Separator Flow Diagram for Fixed Installation

Facet two-stage coalescer separators will continuously remove solids and water contaminants from aviation fuels. Vertical and horizontal housing designs are available with a wide selection of coalescer and separator cartridges to meet specific applications. Housings are designed for easy servicing and low maintenance. All are built to EI 1596 with many standard and optional accessories and connections available to facilitate piping and installation requirements. Facet coalescer separators provide a complete system that meets industry standards and individual levels of effluent purity required by commercial airlines, major oil companies and governments, worldwide.



Typical Horizontal End Opening Coalescer Separator Flow Diagram for Mobile Equipment



Typical Horizontal Side Opening Coalescer Separator Flow Diagram for Mobile Equipment

VCS Series
Vertical Coalescer Separators for
EI 1581, 7th Edition, Category C, Type S



Category C Coalescer Separator housings are for commercial aviation fuel. Type S qualifications can be used at all filtration points in an aviation fueling system. Type S is meant to be used at filtration points where significant levels of water and dirt in the product can be expected. Facet VCS Series Vertical Coalescer Separator housings fully comply with EI 1581, Category C, Type S requirements.

Reliable Performance

Facet coalescer separators are a result of 80 years of continuous research and development to meet the ever demanding performance requirements in the aviation fuel handling industry. This, along with proven field performance, demonstrates Facet's ability to provide quality products that meet current specifications as well as specific customer requirements for installations in refineries, bulk storage terminals, heliports, airports, etc.

Standard Housing Design

- EI 1596 Design & Construction
- Welded carbon steel construction—other materials available on request
- ASME Code, Section VIII construction, stamped and certified
- Design pressure: 150 psi @ 250°F—other design pressures available on request
- Inlet, outlet and drain connections permanently marked
- Choice of rod or screw base coalescer cartridge mounting styles
- Interior: Epoxy coated (EI 1541)
- Exterior: Prime coated
- Swing bolt head closures
- Buna-N o-ring closure seal
- Knife edge cartridge mounting seals
- Headlift furnished on 18" (457 mm) OD and larger
- Spider plate attached to vessel wall
- Sloping cartridge plate to drain connection
- 4" inlet/outlet cleanout/inspection connections (when permitted by design)
- Connections provided for options listed below

Options

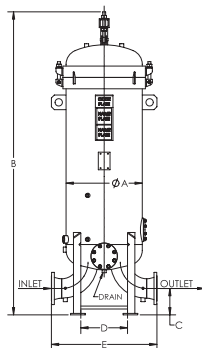
- Automatic air eliminator with check valve*
- Pressure relief valve*
- Differential pressure gauge*
- Pilot control valve
- Pilot tester
- Water slug control valve
- Electrical water-level alarm
- Water drain valves
- Liquid level gauge
- Blind cover for pilot control mounting flange
- Immersion heaters
- Sampling probes
- Working platform and ladder

(* Mandatory for 7th Edition)

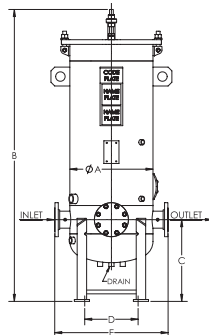
VCS Series

Vertical Coalescer Separators for

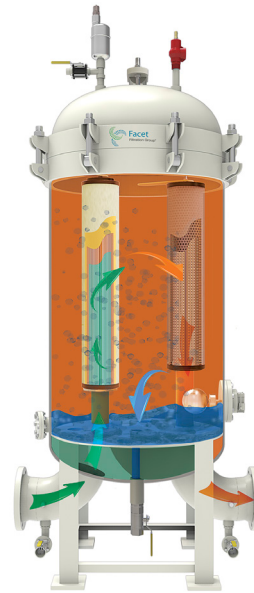
EI 1581, 7th Edition, Category C, Type S



STYLE A



STYLE B



MODEL NUMBER ⁽¹⁾	FLOW RATE		REQUIRED CARTRIDGES				HOUSING LIQUID VOLUME		HOUSING DRY WEIGHT		HOUSING TYPE
	AVIATION FUEL EI 1581, CAT. C, TYPE S		COALESCER		SEPARATOR						
	gpm	lpm	qty	Model	qty	Model	gal	ltr	lbs	kgs	
VCS-222-116	109	413	2	CAA22-5SB	1	SS616FB-5	35	132	525	238	Style B - Flat
VCS-328-218	222	840	3	CAA28-5SB	2	SS618FB-5	65	246	750	340	Style B - Flat
VCS-433-224	333	1261	4	CAA33-5SB	2	SS624FB-5	90	341	900	408	Style B - Flat
VCS-543-243	609	2305	5	CAA43-5SB	2	SS643FB-5	165	625	1200	544	Style A - Dished
VCS-556-340	782	2960	5	CAA56-5SB	3	SS640FB-5	180	681	1225	556	Style A - Dished
VCS-656-344	938	3551	6	CAA56-5SB	3	SS644FB-5	180	681	1250	567	Style A - Dished
VCS-756-440	1095	4145	7	CAA56-5SB	4	SS640FB-5	210	795	1525	692	Style A - Dished
VCS-856-444	1251	4736	8	CAA56-5SB	4	SS644FB-5	250	946	1675	760	Style A - Dished
VCS-1056-544	1564	5920	10	CAA56-5SB	5	SS644FB-5	320	1211	1875	850	Style A - Dished
VCS-1256-644	1877	7105	12	CAA56-5SB	6	SS644FB-5	385	1457	2575	1168	Style A - Dished
VCS-1356-744	2034	7700	13	CAA56-5SB	7	SS644FB-5	465	1760	2600	1179	Style A - Dished
VCS-1656-844	2500	9464	16	CAA56-5SB	8	SS644FB-5	530	2006	3000	1361	Style A - Dished

Other sizes available on request.

* Separators: If preferred, Teflon® separator cartridges can be used. Consult Factory for flow rates.

The separator cartridge model number's prefix would change from SS to ST. Example: SS644FB-5 would change to ST644FB-5

DIMENSIONS

MODEL NUMBER ⁽¹⁾	INLET/ OUTLET DIAMETER		MAIN DRAIN	DIMENSIONS ⁽²⁾									
				A		B		C		D		E	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm
VCS-222-116	2	51	3/4	16	406	66 1/4	1683	20	508	10	254	24	610
VCS-328-218	3	76	3/4	20	508	73 1/2	1867	21	533	12 3/4	324	28	711
VCS-433-224	4	102	3/4	22	559	80 1/2	2045	21 3/4	552	14 1/4	362	30	762
VCS-543-243	6	152	3/4	26	660	103 1/2	2629	9	229	16	406	36	914
VCS-556-340	6	152	3/4	26	660	109 1/2	2781	9	229	16	406	36	914
VCS-656-344	6	152	3/4	26	660	109 1/2	2781	9	229	16	406	36	914
VCS-756-440	8	203	1 1/2	28	711	114 1/4	2902	10	254	17 1/2	445	45	1143
VCS-856-444	8	203	1 1/2	30	762	115	2921	10	254	19 1/2	495	46	1168
VCS-1056-544	8	203	1 1/2	34	864	117 1/2	2985	10	254	22 1/4	565	48	1219
VCS-1256-644	10	254	1 1/2	36	914	123 3/4	3143	11	279	24 1/4	616	55	1397
VCS-1356-744	10	254	1 1/2	38	1016	124 3/4	3169	11	279	26 1/2	673	56	1422
VCS-1656-844	12	305	1 1/2	42	1067	129 3/4	3296	12	305	28	711	66	1676

REFERENCE NOTES:

(1) Model numbers include housing and required cartridges.

(2) Dimensions are approximate and should not be used for installation purposes.

NOTES:

a. All elements are mounted against knife edge seals.

b. Nameplate to be stamped with EI classified data.

c. Inlet chamber to be hydrostatic tested at 115 psi.

d. Coalescer cartridges are offered with a choice of rod or screw base mounting.

The suffix "SB" will be added to the coalescer model number when screw base is required. Example: CAA28-5 = Rod Mount / CAA28-5SB = Screw Base

VCS Series
Vertical Coalescer Separators for
EI 1581, 7th Edition, Category M, Type S



Category M Coalescer Separator housings are for Military JP-8 or JP-5 fuel. Type S qualifications can be used at all filtration points in an aviation fueling system. Type S is meant to be used at filtration points where significant levels of water and dirt in the product can be expected. Facet VCS Series Vertical Coalescer Separator housings fully comply with EI 1581, Category M, Type S requirements.

Reliable Performance

Facet coalescer separators are a result of 80 years of continuous research and development to meet the ever demanding performance requirements in the aviation fuel handling industry. This, along with proven field performance, demonstrates Facet's ability to provide quality products that meet current specifications as well as specific customer requirements for installations in refineries, bulk storage terminals, heliports, airports, etc.

Standard Housing Design

- EI 1596 Design & Construction
- Welded carbon steel construction—other materials available on request
- ASME Code, Section VIII construction, stamped and certified
- Design pressure: 150 psi @ 250°F—other design pressures available on request
- Inlet, outlet and drain connections permanently marked
- Choice of rod or screw base coalescer cartridge mounting styles
- Interior: Epoxy coated (EI 1541)
- Exterior: Prime coated
- Swing bolt head closures
- Buna-N o-ring closure seal
- Knife edge cartridge mounting seals
- Headlift furnished on 18" (457 mm) OD and larger
- Spider plate attached to vessel wall
- Sloping cartridge plate to drain connection
- 4" inlet/outlet cleanout/inspection connections (when permitted by design)
- Connections provided for options listed below

Options

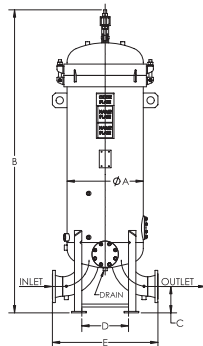
- Automatic air eliminator with check valve*
- Pressure relief valve*
- Differential pressure gauge*
- Pilot control valve
- Pilot tester
- Water slug control valve
- Electrical water-level alarm
- Water drain valves
- Liquid level gauge
- Blind cover for pilot control mounting flange
- Immersion heaters
- Sampling probes
- Working platform and ladder

(* Mandatory for 7th Edition)

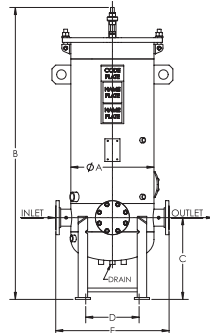
VCS Series

Vertical Coalescer Separators for

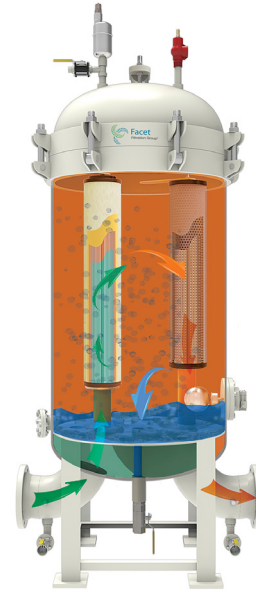
EI 1581, 7th Edition, Category M, Type S



STYLE A



STYLE B



MODEL NUMBER ⁽¹⁾	FLOW RATE		REQUIRED CARTRIDGES				HOUSING LIQUID VOLUME		HOUSING DRY WEIGHT		HOUSING TYPE
	AVIATION FUEL EI 1581 CAT. M, TYPE S		COALESCER		SEPARATOR						
	gpm	lpm	qty	Model	qty	Model	gal	ltr	lbs	kg	
VCS-222-116	85	322	2	CM-22SB-5	1	SM-16FB-5	35	132	525	238	Style B - Flat
VCS-328-218	173	655	3	CM-28SB-5	2	SM-18FB-5	65	246	750	340	Style B - Flat
VCS-433-224	260	984	4	CM-33SB-5	2	SM-24FB-5	90	341	900	408	Style B - Flat
VCS-543-243	474	1794	5	CM-43SB-5	2	SM-43FB-5	165	625	1200	544	Style A - Dished
VCS-556-340	609	2305	5	CM-56SB-5	3	SM-40FB-5	180	681	1225	556	Style A - Dished
VCS-656-344	730	2763	6	CM-56SB-5	3	SM-44FB-5	180	681	1250	567	Style A - Dished
VCS-756-440	852	3225	7	CM-56SB-5	4	SM-40FB-5	210	795	1525	692	Style A - Dished
VCS-856-444	974	3687	8	CM-56SB-5	4	SM-44FB-5	250	946	1675	760	Style A - Dished
VCS-956-540	1096	4149	9	CM-56SB-5	5	SM-40FB-5	285	1079	1800	816	Style A - Dished
VCS-1056-544	1218	4611	10	CM-56SB-5	5	SM-44FB-5	320	1211	1875	850	Style A - Dished
VCS-1256-644	1461	5530	12	CM-56SB-5	6	SM-44FB-5	385	1457	2575	1168	Style A - Dished
VCS-1356-744	1583	5992	13	CM-56SB-5	7	SM-44FB-5	465	1760	2600	1179	Style A - Dished
VCS-1656-844	1944	7359	16	CM-56SB-5	8	SM-44FB-5	530	2006	3000	1361	Style A - Dished

Other sizes available on request.

DIMENSIONS

MODEL NUMBER ⁽¹⁾	INLET/ OUTLET DIAMETER		MAIN DRAIN	DIMENSIONS ⁽²⁾									
				A		B		C		D		E	
	in	mm	in	in	mm	in	mm	in	mm	in	mm	in	mm
VCS-222-116	2	51	3/4	16	406	66 1/4	1683	20	508	10	254	24	610
VCS-328-218	3	76	3/4	20	508	73 1/2	1867	21	533	12 3/4	324	28	711
VCS-433-224	4	102	3/4	22	559	80 1/2	2045	21 3/4	552	14 1/4	362	30	762
VCS-543-243	6	152	3/4	26	660	103 1/2	2629	9	229	16	406	36	914
VCS-556-340	6	152	3/4	26	660	109 1/2	2781	9	229	16	406	36	914
VCS-656-344	6	152	3/4	26	660	109 1/2	2781	9	229	16	406	36	914
VCS-756-440	8	203	1 1/2	28	711	114 1/4	2902	10	254	17 1/2	445	45	1143
VCS-856-444	8	203	1 1/2	30	762	115	2921	10	254	19 1/2	495	46	1168
VCS-956-540	8	203	1 1/2	32	813	115 3/4	2940	10	254	20 3/4	527	46	1168
VCS-1056-544	8	203	1 1/2	34	864	117 1/2	2985	10	254	22 1/4	565	48	1219
VCS-1256-644	10	254	1 1/2	36	914	123 3/4	3143	11	279	24 1/4	616	55	1397
VCS-1356-744	10	254	1 1/2	40	1016	124 3/4	3169	11	279	26 1/2	673	56	1422
VCS-1656-844	12	305	1 1/2	42	1067	129 3/4	3296	12	305	28	711	66	1676

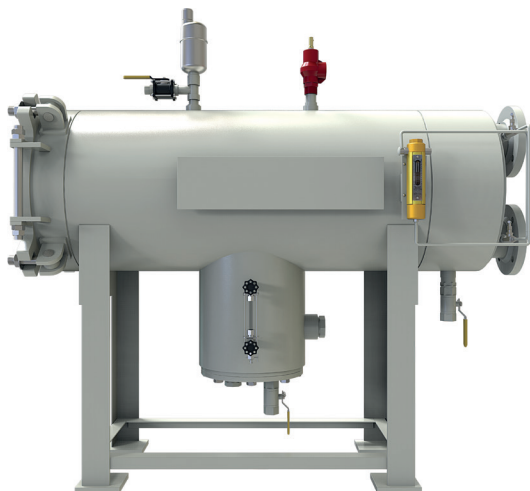
REFERENCE NOTES:

- (1) Model numbers include housing and required cartridges.
 (2) Dimensions are approximate and should not be used for installation purposes.

NOTES:

- a. All elements are mounted against knife edge seals.
 b. Nameplate to be stamped with EI classified data.
 c. Inlet chamber to be hydrostatic tested at 115 psi.
 d. Coalescer cartridges are offered with a choice of rod or screw base mounting.
 The suffix "SB" will be added to the coalescer model number when screw base is required. Example: CM-28-5 = Rod Mount / CM-28-5SB = Screw Base

Horizontal Coalescer Separators for Fixed Installations EI 1581, 7th Edition, Category C, Type S



Category C Coalescer Separator housings are for commercial aviation fuel. Type S qualifications can be used at all filtration points in an aviation fueling system. Type S is meant to be used at filtration points where significant levels of water and dirt in the product can be expected. Facet HCS Series Horizontal Coalescer Separator housings fully comply with EI 1581, Category C, Type S requirements.

Reliable Performance

Facet coalescer separators are a result of 80 years of continuous research and development to meet the ever demanding performance requirements in the aviation fuel handling industry. This, along with proven field performance, demonstrates Facet's ability to provide quality products that meet current specifications as well as specific customer requirements for installations in refineries, bulk storage, terminals, heliports, airports, etc.

Standard Housing Design

- EI 1596 Design & Construction
- Welded carbon steel construction—other materials available on request
- ASME Code, Section VIII construction, stamped and certified
- Design pressure: 150 psi @ 250°F—other design pressures available on request
- Inlet, outlet and drain connections permanently marked
- Interior: Epoxy coated (EI 1541)
- Exterior: Prime coated
- Swing bolt head closures
- Hinged end opening cover
- Flanged inlet and outlet connections
- Buna-N o-ring closure seal
- Choice of rod or screw base coalescer cartridge mounting styles
- 4" inlet/outlet cleanout/inspection connections (when permitted by design)
- Knife edge cartridge mounting seals
- Spider plate attached to vessel wall

Options

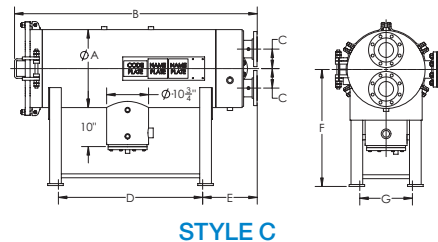
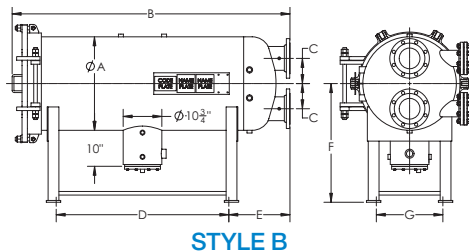
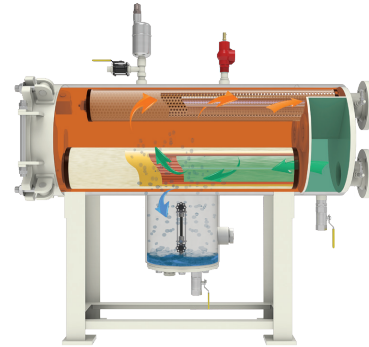
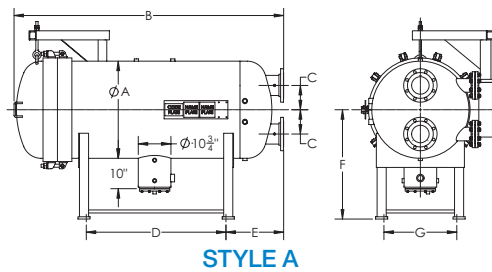
- Automatic air eliminator with check valve*
- Pressure relief valve*
- Differential pressure gauge*
- Pilot control valve
- Pilot tester
- Water slug control valve
- Electrical water-level alarm
- Water drain valves
- Liquid level gauge
- Blind cover for pilot control mounting flange
- Immersion heaters
- Sampling probes

(* Mandatory for 7th Edition)

HCS Series (End Opening)

Horizontal Coalescer Separators for Fixed Installations

EI 1581, 7th Edition, Category C, Type S



MODEL NUMBER ⁽¹⁾	FLOW RATE		REQUIRED CARTRIDGES				HOUSING LIQUID VOLUME		HOUSING DRY WEIGHT		HOUSING TYPE
	AVIATION FUEL EI 1581 CAT. C, TYPE S		COALESCER		SEPARATOR						
	gpm	lpm	qty	Model	qty	Model	gal	ltr	lbs	kg	
HCS-222-1324	105	397	2	CAA22-5SB	1	SS324FA-5	24	91	425	193	Style C - Flat
HCS-322-1424	157	594	3	CAA22-5SB	1	SS424FB-5	29	110	500	227	Style C - Flat
HCS-333-1436	244	924	3	CAA33-5SB	1	SS436FB-5	38	144	550	249	Style C - Flat
HCS-343-133	334	1264	3	CAA43-5SB	1	SS633FB-5	60	227	700	318	Style C - Flat
HCS-443-143	445	1685	4	CAA43-5SB	1	SS643FF-5	72	273	775	352	Style C - Flat
HCS-556-233	686	2597	5	CAA56-5SB	2	SS633FF-5	107	405	950	431	Style B - Dished
HCS-756-248	1000	3785	7	CAA56-5SB	2	SS648FF-5	151	572	1325	601	Style B - Dished
HCS-856-340	1234	4671	8	CAA56-5SB	3	SS640FF-5	270	1022	1700	771	Style A - Dished
HCS-1056-348	1543	5841	10	CAA56-5SB	3	SS648FF-5	350	1325	1975	896	Style A - Dished

Other sizes available on request.

* Separators: If preferred, Teflon® separator cartridges can be used in place of Synthetic.

The separator cartridge model number's prefix would change from SS to ST. Example: SS324FA-5 would change to ST324FA-5

DIMENSIONS

MODEL NUMBER ⁽¹⁾	INLET/OUTLET DIAMETER		DIMENSIONS ⁽²⁾													
			A		B		C		D		E		F		G	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
HCS-222-1324	2	51	14	356	41½	1054	4	102	18	457	13½	343	25	635	9½	241
HCS-322-1424	3	76	16	406	39¾	1010	5	127	16	406	13½	343	28	711	10	254
HCS-333-1436	3	76	16	406	50½	1283	5	127	26	660	14	356	28	711	10	254
HCS-343-133	4	102	18	457	62½	1588	5	127	38	965	14	356	29	737	12	305
HCS-443-143	4	102	20	508	62¼	1581	5	127	37	940	14	356	30	762	13½	343
HCS-556-233	6	152	22	559	76	1930	6	152	49	1245	15	381	31	787	15½	394
HCS-756-248	6	152	26	660	77½	1969	7	178	49	1245	16½	419	33	838	18½	470
HCS-856-340	6	152	32	813	89	2261	8	203	48	1219	18	457	36	914	24	610
HCS-1056-348	8	203	36	914	91	2311	8	203	48	1219	19	483	38	965	27	686

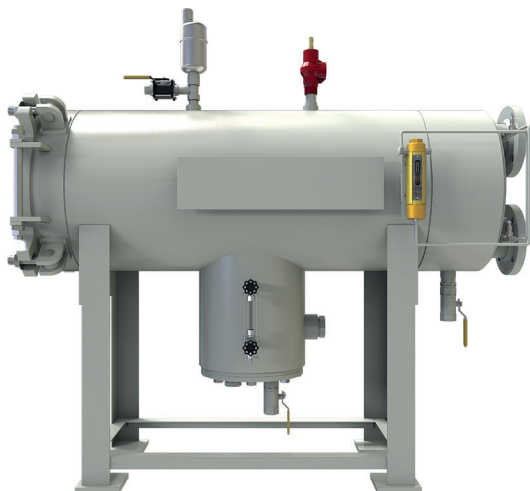
REFERENCE NOTES:

- (1) Model numbers include housing style and required cartridge mounting.
 (2) Dimensions are approximate and should not be used for installation purposes.

NOTES:

- a. All elements are mounted against knife edge seals.
 b. Nameplate to be stamped with EI classified data.
 c. Inlet chamber to be hydrostatic tested at 115 psi (793 kPa).
 d. Coalescer cartridges are offered with a choice of rod or screw base mounting. The suffix "SB" will be added to the coalescer model number when screw base is required.
 Example: CAA33-5 = Rod Mount / CAA33-5SB = Screw Base

Horizontal Coalescer Separators for Fixed Installations EI 1581, 7th Edition, Category M, Type S



Category M Coalescer Separator housings are for Military JP-8 or JP-5 fuel. Type S qualifications can be used at all filtration points in an aviation fueling system. Type S is meant to be used at filtration points where significant levels of water and dirt in the product can be expected. Facet HCS Series Horizontal Coalescer Separator housings fully comply with EI 1581, Category M, Type S requirements.

Reliable Performance

Facet coalescer separators are a result of 80 years of continuous research and development to meet the ever demanding performance requirements in the aviation fuel handling industry. This, along with proven field performance, demonstrates Facet's ability to provide quality products that meet current specifications as well as specific customer requirements for installations in refineries, bulk storage, terminals, heliports, airports, etc.

Standard Housing Design

- EI 1596 Design & Construction
- Welded carbon steel construction—other materials available on request
- ASME Code, Section VIII construction, stamped and certified
- Design pressure: 150 psi @ 250°F—other design pressures available on request
- Inlet, outlet and drain connections permanently marked
- Interior: Epoxy coated (EI 1541)
- Exterior: Prime coated
- Swing bolt head closures
- Hinged end opening cover
- Flanged inlet and outlet connections
- Buna-N o-ring closure seal
- Choice of rod or screw base coalescer cartridge mounting styles
- 4" inlet/outlet cleanout/inspection connections (when permitted by design)
- Knife edge cartridge mounting seals
- Spider plate attached to vessel wall

Options

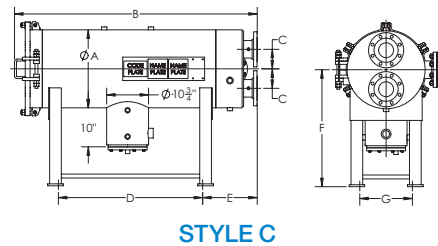
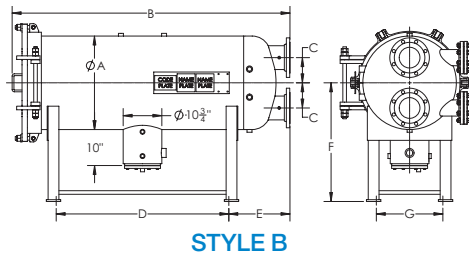
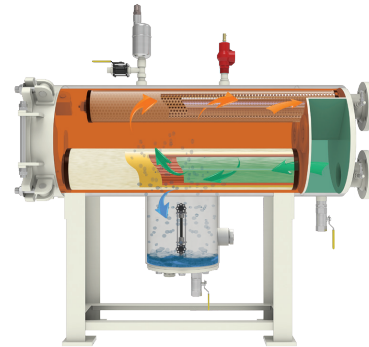
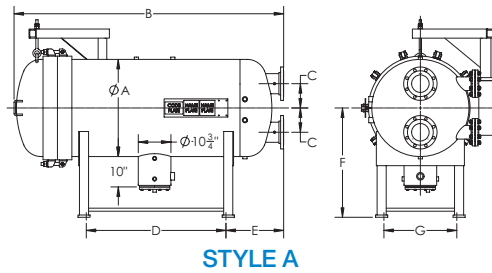
- Automatic air eliminator with check valve*
- Pressure relief valve*
- Differential pressure gauge*
- Pilot control valve
- Pilot tester
- Water slug control valve
- Electrical water-level alarm
- Water drain valves
- Liquid level gauge
- Blind cover for pilot control mounting flange
- Immersion heaters
- Sampling probes

(* Mandatory for 7th Edition)

HCS Series (End Opening)

Horizontal Coalescer Separators for Fixed Installations

EI 1581, 7th Edition, Category M, Type S



MODEL NUMBER ⁽¹⁾	FLOW RATE		REQUIRED CARTRIDGES				HOUSING LIQUID VOLUME		HOUSING DRY WEIGHT		HOUSING TYPE
	AVIATION FUEL EI 1581 CAT. C, TYPE S		COALESCER		SEPARATOR						
	gpm	lpm	qty	Model	qty	Model	gal	ltr	lbs	kg	
HCS-322-1424	157	594	3	CM-22SB-5	1	SM-424FB-5	29	110	500	227	Style C - Flat
HCS-333-1436	243	920	3	CM-33SB-5	1	SM-436FB-5	38	144	550	249	Style C - Flat
HCS-438-138	302	1143	4	CM-38SB-5	1	SM-38FF-5	80	303	850	386	Style C - Flat
HCS-456-229	478	1809	4	CM-56SB-5	2	SM-29FB-5	129	488	1050	476	Style B - Dished
HCS-556-236	605	2290	5	CM-56SB-5	2	SM-36FF-5	151	572	1325	601	Style B - Dished
HCS-756-248	808	3059	7	CM-56SB-5	2	SM-48FF-5	226	856	1600	726	Style A - Dished

Other sizes available on request.

DIMENSIONS

MODEL NUMBER ⁽¹⁾	INLET/OUTLET DIAMETER		DIMENSIONS ⁽²⁾													
			A		B		C		D		E		F		G	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
HCS-322-1424	3	76	16	406	39 ³ / ₄	1010	5	127	16	406	13 ¹ / ₂	343	28	711	10	254
HCS-333-1436	3	76	16	406	50 ¹ / ₂	1283	5	127	26	660	14	356	28	711	10	254
HCS-438-138	3	76	22	559	57 ¹ / ₄	1454	6	152	32	813	14	356	31	787	13 ¹ / ₂	343
HCS-456-229	4	102	24	610	77 ¹ / ₂	1969	6	152	48	1219	15	381	32	813	16 ¹ / ₂	419
HCS-556-236	6	152	26	660	77 ¹ / ₄	1969	7	178	48	1219	17	432	33	838	18 ¹ / ₂	470
HCS-756-248	6	152	32	813	75 ³ / ₄	1924	8	203	33	838	19	483	36	914	24	610

REFERENCE NOTES:

- (1) Model numbers include housing style and required cartridge mounting.
 (2) Dimensions are approximate and should not be used for installation purposes.

NOTES:

- a. All elements are mounted against knife edge seals.
 b. Nameplate to be stamped with EI classified data.
 c. Inlet chamber to be hydrostatic tested at 115 psi (793 kPa).
 d. Coalescer cartridges are offered with a choice of rod or screw base mounting. The suffix "SB" will be added to the coalescer model number when screw base is required. Example: CM-33-5 = Rod Mount / CM-33SB-5 = Screw Base

CA Series Coalescer Cartridges



For Maximum Water Coalescing Efficiency and Solids Holding Capacity

Facet CA Series coalescer cartridges offer the finest performance available. This standard line of high flow coalescer cartridges removes ultra-fine solids and enhances separation of water from jet fuel.

Built for balanced fluid flow-thru and structural strength, each CA Series coalescer cartridge is a single-piece construction of various combined media, precisely arranged in many layers and pleats, wrapped around a treated, perforated metal shell —all encased in an outer sock material. All cartridges are 6" (152 mm) outside diameter, the standard model has an inside diameter of 3½" (89 mm) and available in standard interchangeable nominal lengths from 11¼" (290 mm) to 57¼" (1450 mm).

The CA Series coalescer cartridges are available in two cartridge mounting styles: self-centering rod mount and screw base. The rod mount style has treated metal end caps, while the screw base ends are injection molded, glass-filled nylon. This screw base material offers superior strength and ease of maintenance —uniform threads, no shrinkage, no galling and no gasket to recover.

A permanent affixed Buna-N gasket seals against the V-type knife edge mounting adaptor to provide a positive seal. It will not separate from the cartridge during installation or change out.

Standard Design Features

- Multi-layered media for increased solids holding capacity
- Ultra-fine solids removal
- Maximum water coalescence
- Balanced cartridge flow characteristics
- Recommended maximum operating temperature: 240°F (115°C)
- Withstand in excess of 75 psi differential pressure
- pH range from 5 to 9
- Screw base or open-end configuration

Materials

- All metal components are treated against corrosion
- Screw base ends are injection molded, glass-filled nylon with locked-in gaskets
- Buna-N gaskets —other materials are available on request

CA Series Coalescer Cartridges

DATA

MODEL NUMBER	OUTSIDE DIAMETER		INSIDE DIAMETER		NOMINAL LENGTH		MOUNTING STYLE
	in	mm	in	mm	in	mm	
CA11	6	152	3½	89	11¼	290	Rod
CA14	6	152	3½	89	14½	370	Rod
CA14SB	6	152	3½	89	15	380	Screw Base
CA22	6	152	3½	89	22¼	560	Rod
CA22SB	6	152	3½	89	23	580	Screw Base
CA28	6	152	3½	89	28¾	730	Rod
CA28SB	6	152	3½	89	29	740	Screw Base
CA33	6	152	3½	89	33¼	840	Rod
CA33SB	6	152	3½	89	34	860	Screw Base
CA38	6	152	3½	89	38	960	Rod
CA38SB	6	152	3½	89	39	990	Screw Base
CA43	6	152	3½	89	43¼	1100	Rod
CA43SB	6	152	3½	89	45	1140	Screw Base
CA56	6	152	3½	89	56¼	1430	Rod
CA56SB	6	152	3½	89	57	1450	Screw Base

NOTE: The Facet screw base adaptor part number is 677453A-AM.

CAA Series 5 Coalescer Cartridges Qualified to EI 1581, 7th Edition, Category C



For Maximum Water Coalescing Efficiency and Solids Holding Capacity

Facet CAA Series 6 coalescer cartridges offer the finest performance available. This standard line of high flow coalescer cartridges removes ultra-fine solids and enhances separation of water from jet fuel.

The Facet coalescer separator housings equipped with CAA Series 6 coalescer and companion separator cartridges have been tested and fully qualified to meet the performance requirements to EI 1581, Sixth Edition, Category C (Category C replaces the previous class A, B, and C of API 1581 3rd Edition.)

Built for balanced fluid flow-thru and structural strength, each CAA Series 6 coalescer cartridge is a single-piece construction of various combined media, precisely arranged in many layers and pleats, wrapped around a coated, perforated metal center tube—all encased in an outer sock material. All are 6" OD (152 mm) by 3½" ID (89 mm) and available in standard interchangeable nominal lengths from 11¼" (290 mm) to 57¼" (1450 mm).

The CAA Series 6 coalescer cartridges are available in two cartridge mounting styles: self-centering rod mount and screw base. The rod mount style has treated metal end caps, while the screw base ends are injection molded, glass-filled nylon. This screw base material offers superior strength and ease of maintenance—uniform threads, no shrinkage, no galling and no gasket to recover.

A permanently affixed Buna-N gasket seals against the V-type knife edge mounting adaptor to provide a positive seal. It will not separate from the cartridge during installation or change out.

Standard Design Features

- Qualified to the Sixth Edition of EI 1581, Category C
- Multi-layered media for increased solids holding capacity
- Ultra-fine solids removal
- Maximum water coalescence
- Balanced cartridge flow characteristics
- Recommended maximum operating temperature: 240°F (115°C)
- Withstand in excess of 75 psi differential pressure
- pH range from 5 to 9
- Screw base or open-end configuration

Materials

- All metal components are treated against corrosion
- Screw base ends are injection molded, glass-filled nylon with locked-in gaskets
- Buna-N gaskets —other materials are available on request

CAA Series 5
Coalescer Cartridges
Qualified to EI 1581, 7th Edition, Category C

DATA

MODEL NUMBER	OUTSIDE DIAMETER		INSIDE DIAMETER		NOMINAL LENGTH		MOUNTING STYLE
	in	mm	in	mm	in	mm	
CAA11-5	6	152	3½	89	11¼	290	Rod
CAA14-5	6	152	3½	89	14½	370	Rod
CAA14-5SB	6	152	3½	89	15	380	Screw Base
CAA22-5	6	152	3½	89	22¼	560	Rod
CAA22-5SB	6	152	3½	89	23	580	Screw Base
CAA28-5	6	152	3½	89	28¾	730	Rod
CAA28-5SB	6	152	3½	89	29	740	Screw Base
CAA33-5	6	152	3½	89	33¼	840	Rod
CAA33-5SB	6	152	3½	89	34	860	Screw Base
CAA38-5	6	152	3½	89	38	960	Rod
CAA38-5SB	6	152	3½	89	39	990	Screw Base
CAA43-5	6	152	3½	89	43¼	1100	Rod
CAA43-5SB	6	152	3½	89	45	1140	Screw Base
CAA56-5	6	152	3½	89	56¼	1430	Rod
CAA56-5SB	6	152	3½	89	57	1450	Screw Base

NOTE: The Facet screw base adaptor part number is 677453A-AM.

CB, CC, CR Series Coalescer Cartridges



Description

Facet coalescer cartridges provide efficient and economical filtration and coalescence of fluids in a wide range of applications where EI certification is not required. This broad range of liquid/liquid coalescers provides greater coalescing efficiency and contaminant holding capacity than most conventional coalescers or other separation techniques. As a result, Facet coalescers improve product quality, reduce maintenance costs and help prevent unscheduled shutdowns.

Facet coalescer cartridges are manufactured using proprietary combinations of high performance filter media. Years of research and development in phase separation technology has enabled Facet to develop a very broad range of filter grades to meet the stringent requirements of industrial applications.

Facet coalescer cartridges are available in numerous configurations to replace most conventional coalescing cartridges. In addition, Facet can develop special configurations to meet specific applications requirements.

Benefits

- High Performance filter media provides effective particle removal and coalescence in a wide range of applications
- Proprietary design provides superior performance when compared to conventional coalescing cartridges
- Continuous lengths minimize process downtime, reduce cartridge change-out costs and eliminate filter bypass concerns
- Retention ratings available from 1 to 40 microns
- 90-95% nominal efficiency solids removal ratings. Water removal is 15 ppm
- Electro-tin plated components help prevent rust and corrosion. Coated components are available as standard options
- 75 psid burst strength permits use in demanding applications

CB, CC, CR Series Coalescer Cartridges

PERFORMANCE SPECIFICATION

SERIES	NOMINAL PARTICULATE MICRON								
	1	2	5	10	15	20	25	30	40
CR		•							
CB			•						
CC								•	

MATERIALS

Filter media options:

2 - 25 µm: Combination of Fiberglass and Cellulose Medias with Outer Sock

Gasket Materials:

Standard: Buna-N

Optional: Vegetable Fiber, Neoprene, Viton®, Non-asbestos Replacement

Metal Components:

Standard: Electro-tin Plated Components

Optional: Powder Coated Epoxy

Adhesives:

Thermoset PVC

Urethane (optional)

Epoxy (optional)

FREE WATER REMOVAL SPECIFICATIONS

SERIES	PPM FREE WATER, LESS THAN				
	5	10	15	20	40
CR		•	•	•	•
CB			•	•	•
CC				•	•

FILTER SIZES AND DIMENSIONS

SERIES	OD		ID		LENGTH	
	in	mm	in	mm	in	mm
Cz11	6	152	3 ½	89	11 ¼	286
Cz14	6	152	3 ½	89	14 ½	368
Cz22	6	152	3 ½	89	22 ¼	565
Cz28	6	152	3 ½	89	28 ¾	730
Cz28-SB	6	152	3 ½	89	29	737
Cz33	6	152	3 ½	89	33 ¼	845
Cz33-SB	6	152	3 ½	89	34	864
Cz43	6	152	3 ½	89	43 ¼	1099
Cz43-SB	6	152	3 ½	89	45	1143
Cz56	6	152	3 ½	89	56 ¼	1429
Cz56-SB	6	152	3 ½	89	57	1448

µ = Micron Rating

Z = Series designation

Note: Water removal ratings are based on kerosene type fuel, S.G.O.78 and viscosity of 33 SSU at 70°F and recommended flow rates. Removal efficiencies will vary with S.G. viscosity, temperature, and flow rate. Please call us for exact sizing and removal ratings

TEMPERATURE / COMPATIBILITY GUIDE

SERIES	MAXIMUM TEMPERATURE	pH RANGE	PETROLEUM PRODUCTS	CHEMICALS
CR, CB, CC	240 °F	5 - 9	Excellent	Good

CARTRIDGE ORDERING INFORMATION

SERIES	DIMENSIONS	END CONFIGURATION	MICRON RATING	SPECIAL FEATURES
CB	28	SB	5	
CB, CR, CC	See Filter Sizes and Dimensions Table	SB = Screw Base No symbol = Double Open End	1, 2, 5, 10, 15, 20, 25, 30, 40	No Symbol = Buna-N J = Non-Asbestos Gasket N = Neoprene Gasket K = Tin Steel Components V = Viton Gasket

CM Series 5 Coalescer Cartridges Qualified to EI 1581 7th Edition, Category M



For Maximum Water Coalescing Efficiency and Solids Holding Capacity

Facet CM Series 5 coalescer cartridges offer the finest performance available. This line of high flow coalescer cartridges removes ultra-fine solids and enhances separation of water from jet fuel.

The Facet coalescer separator housings equipped with CM Series 5 coalescer and companion separator cartridges have been tested and fully qualified to EI 1581, 7th Edition, for category "M", in both vertical and horizontal orientations.

Built for balanced fluid flow-thru and structural strength, each CM Series 5 coalescer cartridge is a single piece construction of various combined media, precisely arranged in many layers and pleats, wrapped around a coated, perforated metal center tube- all encased in an outer sock material. All are 6" OD (152 mm) by 3.5" ID (89 mm) and available in standard interchangeable nominal lengths in increments from 11.25" (290 mm) to 57.25" (1450 mm).

The CM Series 5 coalescer cartridges are available in two cartridge mounting styles; self-centering rod mount and screw base. The rod mount style has treated metal end caps, while the screw base ends are injection molded, glass-filled nylon. This screw base material offers superior strength and ease of maintenance- uniform threads, no shrinkage, no galling and no gasket recover.

A permanently affixed Buna gasket seals against the V-type knife edge mounting adaptor to provide a positive seal. It will not separate from the cartridge during installation or change out.

Standard Design Features

- Qualified to the Sixth Edition of EI 1581 for all category M
- Multi-layered media for increased solids holding capacity
- Ultra-fine solids removal
- Maximum water coalescence
- Balanced cartridge flow characteristics
- Recommended maximum operating temperature: 240°F (115°C)
- Withstands excess of 75 psi differential pressure
- pH range from 5 to 9
- Choice of self-centering rod or screw base coalescer cartridge mounting styles

Materials

- All metal components are treated against corrosion
- Screw base ends are injection molded, glass-filled nylon with locked-in gaskets
- Buna-N gaskets —other materials are available on request

CM Series 5
Coalescer Cartridges
Qualified to EI 1581 7th Edition, Category M

DATA

MODEL NUMBER	OUTSIDE DIAMETER		INSIDE DIAMETER		NOMINAL LENGTH		MOUNTING STYLE
	in	mm	in	mm	in	mm	
CM-11-5	6	152	3½	89	11¼	290	Rod
CM-14-5	6	152	3½	89	14½	370	Rod
CM-14SB-5	6	152	3½	89	15	380	Screw Base
CM-22-5	6	152	3½	89	22¼	560	Rod
CM-22SB-5	6	152	3½	89	23	580	Screw Base
CM-28-5	6	152	3½	89	28¾	730	Rod
CM-28SB-5	6	152	3½	89	29	740	Screw Base
CM-33-5	6	152	3½	89	33¼	840	Rod
CM-33SB-5	6	152	3½	89	34	860	Screw Base
CM-38-5	6	152	3½	89	38	960	Rod
CM-38SB-5	6	152	3½	89	39	990	Screw Base
CM-43-5	6	152	3½	89	43¼	1100	Rod
CM-43SB-5	6	152	3½	89	45	1140	Screw Base
CM-56-5	6	152	3½	89	56¼	1430	Rod
CM-56SB-5	6	152	3½	89	57	1450	Screw Base

NOTE: The Facet screw base adaptor part number is 677453A-AM.

CM100 Series Coalescer Cartridges

Qualified to EI 1581 7th Edition, Category M100



For Maximum Water Coalescing Efficiency and Solids Holding Capacity

Facet CM100 Series coalescer cartridges offer the finest performance available. This line of high flow coalescer cartridges removes ultra-fine solids and enhances separation of water from jet fuel.

The Facet coalescer separator housings equipped with CM100 Series coalescer and companion separator cartridges have been tested and fully qualified to EI 1581, 7th Edition, for category "M", in both vertical and horizontal orientations.

Built for balanced fluid flow-thru and structural strength, each CM100 Series coalescer cartridge is a single piece construction of various combined media, precisely arranged in many layers and pleats, wrapped around a coated, perforated metal center tube- all encased in an outer sock material. All are 6" OD (152 mm) by 3.5" ID (89 mm) and available in standard interchangeable nominal lengths in increments from 11.25" (290 mm) to 57.25" (1450 mm).

The CM100 Series 6 coalescer cartridges are available in two cartridge mounting styles; self-centering rod mount and screw base. The rod mount style has treated metal end caps, while the screw base ends are injection molded, glass-filled nylon. This screw base material offers superior strength and ease of maintenance- uniform threads, no shrinkage, no galling and no gasket recover.

A permanently affixed Buna gasket seals against the V-type knife edge mounting adaptor to provide a positive seal. It will not separate from the cartridge during installation or change out.

Standard Design Features

- Qualified to the Sixth Edition of EI 1581 for all category M
- Multi-layered media for increased solids holding capacity
- Ultra-fine solids removal
- Maximum water coalescence
- Balanced cartridge flow characteristics
- Recommended maximum operating temperature: 240°F (115°C)
- Withstands excess of 75 psi differential pressure
- pH range from 5 to 9
- Choice of self-centering rod or screw base coalescer cartridge mounting styles

Materials

- All metal components are treated against corrosion
- Screw base ends are injection molded, glass-filled nylon with locked-in gaskets
- Buna-N gaskets —other materials are available on request

CM100 Series
Coalescer Cartridges
Qualified to EI 1581 7th Edition, Category M100

DATA

MODEL NUMBER	OUTSIDE DIAMETER		INSIDE DIAMETER		NOMINAL LENGTH		MOUNTING STYLE
	in	mm	in	mm	in	mm	
CM11	6	152	3½	89	11¼	290	Rod
CM14	6	152	3½	89	14½	370	Rod
CM14SB	6	152	3½	89	15	380	Screw Base
CM22	6	152	3½	89	22¼	560	Rod
CM22SB	6	152	3½	89	23	580	Screw Base
CM28	6	152	3½	89	28¾	730	Rod
CM28SB	6	152	3½	89	29	740	Screw Base
CM33	6	152	3½	89	33¼	840	Rod
CM33SB	6	152	3½	89	34	860	Screw Base
CM38	6	152	3½	89	38	960	Rod
CM38SB	6	152	3½	89	39	990	Screw Base
CM43	6	152	3½	89	43¼	1100	Rod
CM43SB	6	152	3½	89	45	1140	Screw Base
CM56	6	152	3½	89	56¼	1430	Rod
CM56SB	6	152	3½	89	57	1450	Screw Base

NOTE: The Facet screw base adaptor part number is 677453A-AM.

EB Series Coalescer Cartridges



Facet Model EB coalescer cartridges are for removing oil from water. Using a variety of media, these coalescer cartridges use the principle of mechanical impingement and preferential wetting to break any mechanical emulsion of oil and water. Using this force of gravity, the lighter liquid (oil) rises to the top of the vessel where it can be drawn off and the water flows to the bottom of the vessel and out the outlet connection.

Benefits

- pH range from 5 to 9
- Multi-layered media for solids holding
- Solids removal: 15 micron nominal
- Removes oil down to 5 ppm
- Balanced flow characteristics
- Self-centering rod mount
- Recommended maximum operating temperature: 240°F
- Maximum differential pressure: 75 psi (5.25 kg/cm²)
- Flow direction: Inside to out

Applications

- Bilge & Ballast water
- Ship building and repair yards
- Commercial marine ports

DATA

MODEL NUMBER	OUTSIDE DIAMETER		INSIDE DIAMETER		NOMINAL LENGTH		FLOW RATE		MICRON RATING
	in	mm	in	mm	in	mm	gpm	lpm	
EB-11	6	152	3½	89	14½	360	10	38	50
EB-11CG	6	152	3½	89	11¼	280	10	38	50
EB-11CG2	6	152	3½	89	22½	554	20	76	50
EB-12	6	152	3½	89	14½	360	10	38	1
EB-12-1	6	152	3½	89	14½	360	10	38	5
EB-12CG1	6	152	3½	89	11¼	280	10	38	5
EB-12CG2	6	152	3½	89	22½	554	20	76	5

SS Series Synthetic Separator Cartridges



Facet Model SS synthetic separator cartridges feature a specially developed hydrophobic synthetic media which offers all the permanent features of Teflon® screen, combined with ease of repair and lower cost. Synthetic mesh is wrapped around a treated, perforated metal shell, then adhesive bonded to gasketed metal end caps.

The distinctive Facet center tube design provides balanced flow of product (radially inward) throughout the cartridge. All metal components are treated to resist corrosion.

The synthetic mesh is designed for more effective water repelling characteristics assuring long, troublefree service. Recommended maximum operating temperature is 240°F (115°C). For compatibility in extreme operating conditions, other gasket, adhesive and metal materials are available.

Standard Design Features

- Superior water repelling characteristics over Teflon® and paper
- More resistant to surfactants
- Cleanable and reusable
- Maximum recommended operating temperature: 240°F (115°C)
- pH range from 5 to 9
- Designed for balanced flow through cartridge
- Flow direction: Outside to in

Materials

- Synthetic mesh 50 micron
- Treated metal components for corrosion protection
- Buna-N gaskets —other gasket, adhesive and metal materials are available on request

SS Series

Synthetic Separator Cartridges

DATA

MODEL NUMBER	OUTSIDE DIAMETER		NOMINAL LENGTH		INSIDE DIAMETER SEALING END		INSIDE DIAMETER MOUNTING END	
	in	mm	in	mm	in	mm	in	mm
SS318FA	3	76	18	460	17/32	13	2	51
SS324FA	3	76	24	610	17/32	13	2	51
SS330FA	3	76	30	760	17/32	13	2	51
SS412FC	4 1/8	105	11 1/2	290	1 7/8	48	1 7/8	48
SS422FC	4 1/8	105	22 1/2	570	1 7/8	48	1 7/8	48
SS432FC	4 1/8	105	31 1/2	800	1 7/8	48	1 7/8	48
SS415FB	4 1/2	114	15	380	17/32	13	3 1/2	89
SS417FB	4 1/2	114	17	430	17/32	13	3 1/2	89
SS424FB	4 1/2	114	24	610	17/32	13	3 1/2	89
SS430FB	4 1/2	114	30	760	17/32	13	3 1/2	89
SS436FB	4 1/2	114	36	910	17/32	13	3 1/2	89
SS609FB	6	152	9	230	17/32	13	3 1/2	89
SS609FF	6	152	9	230	3 1/2	89	4 1/2	114
SS611FD	6	152	11 1/4	290	3 1/2	89	3 1/2	89
SS611H	6	152	11 1/4	290	5 1/2	140	5 1/2	140
SS612FB	6	152	12	300	17/32	13	3 1/2	89
SS612FF	6	152	12	300	3 1/2	89	4 1/2	114
SS614FD	6	152	14 1/2	370	3 1/2	89	3 1/2	89
SS614H	6	152	14 1/2	370	5 1/2	140	5 1/2	140
SS616FD	6	152	16 1/4	410	3 1/2	89	3 1/2	89
SS616H	6	152	16 1/4	410	5 1/2	140	5 1/2	140
SS618FB	6	152	18	460	17/32	13	3 1/2	89
SS622FD	6	152	22 1/4	560	3 1/2	89	3 1/2	89
SS622H	6	152	22 1/4	560	5 1/2	140	5 1/2	140
SS624FB	6	152	24	610	17/32	13	3 1/2	89
SS624FE	6	152	24	610	3 1/2	89	4 1/8	105
SS624FF	6	152	24	610	3 1/2	89	4 1/2	114
SS629FD	6	152	28 3/4	730	3 1/2	89	3 1/2	89
SS629H	6	152	28 3/4	730	5 1/2	140	5 1/2	140
SS630FB	6	152	30	760	17/32	13	3 1/2	89
SS630FD	6	152	30	760	3 1/2	89	3 1/2	89
SS630FE	6	152	30	760	3 1/2	89	4 1/8	105
SS630FF	6	152	30	760	3 1/2	89	4 1/2	114
SS633FB	6	152	33 1/4	840	17/32	13	3 1/2	89
SS633FD	6	152	33 1/4	840	3 1/2	89	3 1/2	89
SS633H	6	152	33 1/4	840	5 1/2	140	5 1/2	140
SS636FD	6	152	36	910	3 1/2	89	3 1/2	89
SS636FE	6	152	36	910	3 1/2	89	4 1/8	105
SS636FF	6	152	36	910	3 1/2	89	4 1/2	114
SS640FD	6	152	40	1020	3 1/2	89	3 1/2	89
SS640FE	6	152	40	1020	3 1/2	89	4 1/8	105
SS640FF	6	152	40	1020	3 1/2	89	4 1/2	114
SS644FD	6	152	44	1120	3 1/2	89	3 1/2	89
SS644FE	6	152	44	1120	3 1/2	89	4 1/8	105
SS644FF	6	152	44	1120	3 1/2	89	4 1/2	114
SS648FD	6	152	48	1220	3 1/2	89	3 1/2	89
SS648FF	6	152	48	1220	3 1/2	89	4 1/2	114
SS656FD	6	152	56	1420	3 1/2	89	3 1/2	89
SS656FF	6	152	56	1420	3 1/2	89	4 1/2	114

SS Series 5
Synthetic Separator Cartridges
Qualified to EI 1581 7th Edition, Category C



Standard Design Features

- Cleanable and reusable
- Superior water barrier
- Maximum recommended operating temperature: 240°F (115°C)
- pH range from 5 to 9
- Designed for balanced flow through cartridge
- Flow direction: Outside to in

Materials

- Synthetic mesh
- Treated metal components for corrosion protection
- Buna-N gaskets — other gasket, adhesive and metal materials are available on request

Facet SS Series 5 synthetic separator cartridges feature a specially developed hydrophobic synthetic media which offers all the permanent features of Teflon® coated metal screen, with the ability to handle higher flow rates. Synthetic mesh is wrapped around a treated, perforated metal shell, then adhesive-bonded to gasketed metal end caps.

The distinctive Facet center tube design provides balanced flow of product (radially inward) throughout the cartridge. All metal components are treated to resist corrosion.

Facet filter water separators equipped with coalescer cartridges Facet CAA Series 5 and separator cartridges Facet SS Series 5 have been tested and fully qualified to meet the performance requirements of EI 1581, 7th Edition.

The synthetic mesh is designed for more effective water repelling characteristics assuring long, troublefree service. Recommended maximum operating temperature is 240°F (115°C). For compatibility in extreme operating conditions, other gasket, adhesive and metal materials are available.

SS Series 5
Synthetic Separator Cartridges
Qualified to EI 1581 7th Edition, Category C

DATA

MODEL NUMBER	OUTSIDE DIAMETER		NOMINAL LENGTH		INSIDE DIAMETER SEALING END		INSIDE DIAMETER MOUNTING END	
	in	mm	in	mm	in	mm	in	mm
SS318FA-5	3	76	18	460	17/32	13	2	51
SS324FA-5	3	76	24	610	17/32	13	2	51
SS330FA-5	3	76	30	760	17/32	13	2	51
SS412FC-5	4 1/8	105	11 1/2	290	1 7/8	48	1 7/8	48
SS422FC-5	4 1/8	105	22 1/2	570	1 7/8	48	1 7/8	48
SS432FC-5	4 1/8	105	31 1/2	800	1 7/8	48	1 7/8	48
SS433FD-5	4 1/2	114	33 3/4	845	3 1/2	89	3 1/2	89
SS415FB-5	4 1/2	114	15	380	17/32	13	3 1/2	89
SS417FB-5	4 1/2	114	17	430	17/32	13	3 1/2	89
SS424FB-5	4 1/2	114	24	610	17/32	13	3 1/2	89
SS430FB-5	4 1/2	114	30	760	17/32	13	3 1/2	89
SS436FB-5	4 1/2	114	36	910	17/32	13	3 1/2	89
SS609FB-5	6	152	9	230	17/32	13	3 1/2	89
SS609FF-5	6	152	9	230	3 1/2	89	4 1/2	114
SS611FD-5	6	152	11 1/4	290	3 1/2	89	3 1/2	89
SS611H-5	6	152	11 1/4	290	5 1/2	140	5 1/2	140
SS612FB-5	6	152	12	300	17/32	13	3 1/2	89
SS612FF-5	6	152	12	300	3 1/2	89	4 1/2	114
SS614FD-5	6	152	14 1/2	370	3 1/2	89	3 1/2	89
SS614H-5	6	152	14 1/2	370	5 1/2	140	5 1/2	140
SS616FD-5	6	152	16 1/4	410	3 1/2	89	3 1/2	89
SS616H-5	6	152	16 1/4	410	5 1/2	140	5 1/2	140
SS618FB-5	6	152	18	460	17/32	13	3 1/2	89
SS622FD-5	6	152	22 1/4	560	3 1/2	89	3 1/2	89
SS622H-5	6	152	22 1/4	560	5 1/2	140	5 1/2	140
SS624FB-5	6	152	24	610	17/32	13	3 1/2	89
SS624FE-5	6	152	24	610	3 1/2	89	4 1/8	105
SS624FF-5	6	152	24	610	3 1/2	89	4 1/2	114
SS629FD-5	6	152	28 3/4	730	3 1/2	89	3 1/2	89
SS629H-5	6	152	28 3/4	730	5 1/2	140	5 1/2	140
SS630FB-5	6	152	30	760	17/32	13	3 1/2	89
SS630FD-5	6	152	30	760	3 1/2	89	3 1/2	89
SS630FE-5	6	152	30	760	3 1/2	89	4 1/8	105
SS630FF-5	6	152	30	760	3 1/2	89	4 1/2	114
SS633FB-5	6	152	33 1/4	840	17/32	13	3 1/2	89
SS633FD-5	6	152	33 1/4	840	3 1/2	89	3 1/2	89
SS633H-5	6	152	33 1/4	840	5 1/2	140	5 1/2	140
SS636FD-5	6	152	36	910	3 1/2	89	3 1/2	89
SS636FE-5	6	152	36	910	3 1/2	89	4 1/8	105
SS636FF-5	6	152	36	910	3 1/2	89	4 1/2	114
SS640FD-5	6	152	40	1020	3 1/2	89	3 1/2	89
SS640FE-5	6	152	40	1020	3 1/2	89	4 1/8	105
SS640FF-5	6	152	40	1020	3 1/2	89	4 1/2	114
SS644FD-5	6	152	44	1120	3 1/2	89	3 1/2	89
SS644FE-5	6	152	44	1120	3 1/2	89	4 1/8	105
SS644FF-5	6	152	44	1120	3 1/2	89	4 1/2	114
SS648FD-5	6	152	48	1220	3 1/2	89	3 1/2	89
SS648FF-5	6	152	48	1220	3 1/2	89	4 1/2	114
SS656FD-5	6	152	56	1420	3 1/2	89	3 1/2	89
SS656FF-5	6	152	56	1420	3 1/2	89	4 1/2	114

ST Series Teflon® Separator Cartridges



Standard Design Features

- Cleanable and reusable
- Maximum recommended operating temperature: 240°F (115°C)
- pH range from 5 to 9
- Designed for balanced flow through cartridge
- Flow direction: Outside to in

Materials

- Synthetic mesh 50 micron
- Treated metal components for corrosion protection
- Buna-N gaskets —other gasket, adhesive and metal materials are available on request

Facet manufactures cleanable and reusable separator cartridges of the highest quality in a variety of dimensional configurations. Teflon® coated screen is wrapped around a treated, perforated metal shell, lock seam folded and secured by metal clips, then adhesive bonded to gasketed metal end caps. The distinctive Facet center tube design provides balanced flow of product (radially inward) through the cartridge.

All metal components are treated to resist corrosion. The screen is Teflon® coated for more effective water repelling characteristics assuring long, troublefree service. Recommended maximum operating temperature is 240°F (115°C). For compatibility in extreme operating conditions, other gasket, adhesive and metal materials are available.

ST Series

Teflon® Separator Cartridges

DATA

MODEL NUMBER	OUTSIDE DIAMETER		NOMINAL LENGTH		INSIDE DIAMETER SEALING END		INSIDE DIAMETER MOUNTING END	
	in	mm	in	mm	in	mm	in	mm
ST318FA	3	76	18	460	17/32	13	2	51
ST324FA	3	76	24	610	17/32	13	2	51
ST330FA	3	76	30	760	17/32	13	2	51
ST412FC	4 1/8	105	11 1/2	290	1 7/8	48	1 7/8	48
ST422FC	4 1/8	105	22 1/2	570	1 7/8	48	1 7/8	48
ST432FC	4 1/8	105	31 1/2	800	1 7/8	48	1 7/8	48
ST415FB	4 1/2	114	15	380	17/32	13	3 1/2	89
ST417FB	4 1/2	114	17	430	17/32	13	3 1/2	89
ST424FB	4 1/2	114	24	610	17/32	13	3 1/2	89
ST430FB	4 1/2	114	30	760	17/32	13	3 1/2	89
ST436FB	4 1/2	114	36	910	17/32	13	3 1/2	89
ST609FB	6	152	9	230	17/32	13	3 1/2	89
ST609FF	6	152	9	230	3 1/2	89	4 1/2	114
ST611FD	6	152	11 1/4	290	3 1/2	89	3 1/2	89
ST611H	6	152	11 1/4	290	5 1/2	140	5 1/2	140
ST612FB	6	152	12	300	17/32	13	3 1/2	89
ST612FF	6	152	12	300	3 1/2	89	4 1/2	114
ST614FD	6	152	14 1/2	370	3 1/2	89	3 1/2	89
ST614H	6	152	14 1/2	370	5 1/2	140	5 1/2	140
ST616FD	6	152	16 1/4	410	3 1/2	89	3 1/2	89
ST616H	6	152	16 1/4	410	5 1/2	140	5 1/2	140
ST618FB	6	152	18	460	17/32	13	3 1/2	89
ST622FD	6	152	22 1/4	560	3 1/2	89	3 1/2	89
ST622H	6	152	22 1/4	560	5 1/2	140	5 1/2	140
ST624FB	6	152	24	610	17/32	13	3 1/2	89
ST624FE	6	152	24	610	3 1/2	89	4 1/8	105
ST624FF	6	152	24	610	3 1/2	89	4 1/2	114
ST629FD	6	152	28 3/4	730	3 1/2	89	3 1/2	89
ST629H	6	152	28 3/4	730	5 1/2	140	5 1/2	140
ST630FB	6	152	30	760	17/32	13	3 1/2	89
ST630FD	6	152	30	760	3 1/2	89	3 1/2	89
ST630FE	6	152	30	760	3 1/2	89	4 1/8	105
ST630FF	6	152	30	760	3 1/2	89	4 1/2	114
ST633FB	6	152	33 1/4	840	17/32	13	3 1/2	89
ST633FD	6	152	33 1/4	840	3 1/2	89	3 1/2	89
ST633H	6	152	33 1/4	840	5 1/2	140	5 1/2	140
ST636FD	6	152	36	910	3 1/2	89	3 1/2	89
ST636FE	6	152	36	910	3 1/2	89	4 1/8	105
ST636FF	6	152	36	910	3 1/2	89	4 1/2	114
ST640FD	6	152	40	1020	3 1/2	89	3 1/2	89
ST640FE	6	152	40	1020	3 1/2	89	4 1/8	105
ST640FF	6	152	40	1020	3 1/2	89	4 1/2	114
ST644FD	6	152	44	1120	3 1/2	89	3 1/2	89
ST644FE	6	152	44	1120	3 1/2	89	4 1/8	105
ST644FF	6	152	44	1120	3 1/2	89	4 1/2	114
ST648FD	6	152	48	1220	3 1/2	89	3 1/2	89
ST648FF	6	152	48	1220	3 1/2	89	4 1/2	114
ST656FD	6	152	56	1420	3 1/2	89	3 1/2	89
ST656FF	6	152	56	1420	3 1/2	89	4 1/2	114

ST Series 5
Teflon® Separator Cartridges
Qualified to EI 1581 7th Edition, Category C



Standard Design Features

- Cleanable and reusable
- Maximum recommended operating temperature: 240°F (115°C)
- pH range from 5 to 9
- Designed for balanced flow through cartridge
- Flow direction: Outside to in

Materials

- Synthetic mesh 50 micron
- Treated metal components for corrosion protection
- Buna-N gaskets —other gasket, adhesive and metal materials are available on request

Facet manufactures cleanable and reusable separator cartridges of the highest quality in a variety of dimensional configurations. Teflon® coated screen is wrapped around a treated, perforated metal shell, lock seam folded and secured by metal clips, then adhesive bonded to gasketed metal end caps. The distinctive Facet center tube design provides balanced flow of product (radially inward) through the cartridge.

All metal components are treated to resist corrosion. The screen is Teflon® coated for more effective water repelling characteristics assuring long, troublefree service. Recommended maximum operating temperature is 240°F (115°C). For compatibility in extreme operating conditions, other gasket, adhesive and metal materials are available.

ST Series 5
Teflon® Separator Cartridges
Qualified to EI 1581 7th Edition, Category C

DATA

MODEL NUMBER	OUTSIDE DIAMETER		NOMINAL LENGTH		INSIDE DIAMETER SEALING END		INSIDE DIAMETER MOUNTING END	
	in	mm	in	mm	in	mm	in	mm
ST318FA-5	3	76	18	460	17/32	13	2	51
ST324FA-5	3	76	24	610	17/32	13	2	51
ST330FA-5	3	76	30	760	17/32	13	2	51
ST412FC-5	4 1/8	105	11 1/2	290	1 7/8	48	1 7/8	48
ST422FC-5	4 1/8	105	22 1/2	570	1 7/8	48	1 7/8	48
ST432FC-5	4 1/8	105	31 1/2	800	1 7/8	48	1 7/8	48
ST415FB-5	4 1/2	114	15	380	17/32	13	3 1/2	89
ST417FB-5	4 1/2	114	17	430	17/32	13	3 1/2	89
ST424FB-5	4 1/2	114	24	610	17/32	13	3 1/2	89
ST430FB-5	4 1/2	114	30	760	17/32	13	3 1/2	89
ST436FB-5	4 1/2	114	36	910	17/32	13	3 1/2	89
ST609FB-5	6	152	9	230	17/32	13	3 1/2	89
ST609FF-5	6	152	9	230	3 1/2	89	4 1/2	114
ST611FD-5	6	152	11 1/4	290	3 1/2	89	3 1/2	89
ST611H-5	6	152	11 1/4	290	5 1/2	140	5 1/2	140
ST612FB-5	6	152	12	300	17/32	13	3 1/2	89
ST612FF-5	6	152	12	300	3 1/2	89	4 1/2	114
ST614FD-5	6	152	14 1/2	370	3 1/2	89	3 1/2	89
ST614H-5	6	152	14 1/2	370	5 1/2	140	5 1/2	140
ST616FD-5	6	152	16 1/4	410	3 1/2	89	3 1/2	89
ST616H-5	6	152	16 1/4	410	5 1/2	140	5 1/2	140
ST618FB-5	6	152	18	460	17/32	13	3 1/2	89
ST622FD-5	6	152	22 1/4	560	3 1/2	89	3 1/2	89
ST622H-5	6	152	22 1/4	560	5 1/2	140	5 1/2	140
ST624FB-5	6	152	24	610	17/32	13	3 1/2	89
ST624FE-5	6	152	24	610	3 1/2	89	4 1/8	105
ST624FF-5	6	152	24	610	3 1/2	89	4 1/2	114
ST629FD-5	6	152	28 3/4	730	3 1/2	89	3 1/2	89
ST629H-5	6	152	28 3/4	730	5 1/2	140	5 1/2	140
ST630FB-5	6	152	30	760	17/32	13	3 1/2	89
ST630FD-5	6	152	30	760	3 1/2	89	3 1/2	89
ST630FE-5	6	152	30	760	3 1/2	89	4 1/8	105
ST630FF-5	6	152	30	760	3 1/2	89	4 1/2	114
ST633FB-5	6	152	33 1/4	840	17/32	13	3 1/2	89
ST633FD-5	6	152	33 1/4	840	3 1/2	89	3 1/2	89
ST633H-5	6	152	33 1/4	840	5 1/2	140	5 1/2	140
ST636FD-5	6	152	36	910	3 1/2	89	3 1/2	89
ST636FE-5	6	152	36	910	3 1/2	89	4 1/8	105
ST636FF-5	6	152	36	910	3 1/2	89	4 1/2	114
ST640FD-5	6	152	40	1020	3 1/2	89	3 1/2	89
ST640FE-5	6	152	40	1020	3 1/2	89	4 1/8	105
ST640FF-5	6	152	40	1020	3 1/2	89	4 1/2	114
ST644FD-5	6	152	44	1120	3 1/2	89	3 1/2	89
ST644FE-5	6	152	44	1120	3 1/2	89	4 1/8	105
ST644FF-5	6	152	44	1120	3 1/2	89	4 1/2	114
ST648FD-5	6	152	48	1220	3 1/2	89	3 1/2	89
ST648FF-5	6	152	48	1220	3 1/2	89	4 1/2	114
ST656FD-5	6	152	56	1420	3 1/2	89	3 1/2	89
ST656FF-5	6	152	56	1420	3 1/2	89	4 1/2	114



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