



Automatic Cleaning Stack Filters (ACSF)

The ACSF is a self-contained fully automated filtration system.

ACSF is able to withstand the corrosive seawater is chemical resistant, and the filter elements come with a 5 years guarantee.

- for liquid/solid separation
- for enhanced oil recovery
- for water flood/injection
- for oil sweep
- immediate filtration efficiency (99%) at the first instant of flow
- system can operate at high temperatures and pressures
- no internal moving parts
- filter discs are hot-sterilizable and resist chemical attack
- no media cartridges to dispose permanent filter media....cost savings
- no hazardous fluid handling by operators is required
- occupies minimal space compared to conventional systems
- weighs less compared to conventional systems
- no chemical flocculants/coagulants are required



Performance specifications Filter Grades:

1, 2, 5, 10, 20, 50, 75, 100, custom

Maximum differential pressure:

0.34 barg (5 psig) @ ambient - clean

1 barg (15 psig) @ ambient - loaded

Operating pressure:

Up to 15 barg (145 psig)

Maximum operating temperature:

204°C (400°F)

Backwash pressure:

5 - 7 barg (72.5 - 101.5 psig)

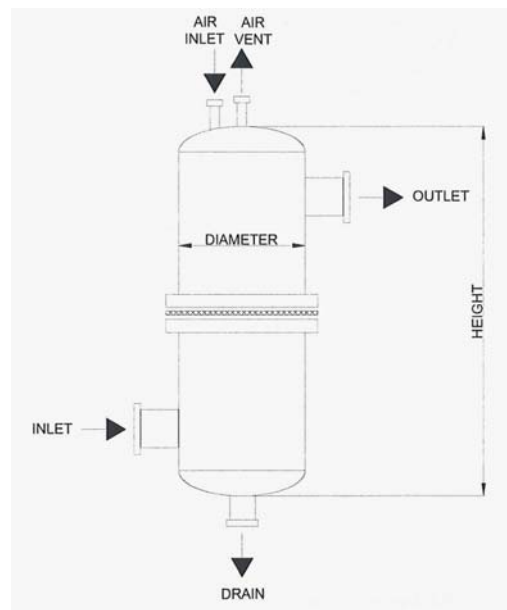
Purity:

ACSF filter elements are free of surfactants, anti-static agents, binders and adhesives.

Product specifications

Materials of construction:

- Filter elements
Polypropylene, Teflon, Diatomaceous earth, Ceramic
- Vessel
Carbon steel, Stainless steel, Duplex, FRP
- Vessel internal coating
Bare, epoxy, glass flakes, chemical coating



Vessel specifications:

ASME U stamp ASME
UM stamp

Vessel internals: Stainless
steel 316, Monel

Typical flow and sizing data

Part No.	Average water flow rate, gpm (m ³ /h)					Average Oil, Chemical, etc. flow rate, gpm (m ³ /h)					Vessel Dimensions		Weight*, lbs (kg)
	2	5	10	20	50	5	10	20	50	100	A	B	
	µm (micron)					µm (micron)					Inches		
ACSF-05	13 (3)	15 (3)	25 (6)	40 (9)	50 (11)	3 (1)	5 (1)	8 (2)	10 (2)	15 (3)	80 (18)	7 (2)	170 (77)
ACSF-10	25 (6)	30 (7)	50 (11)	80 (18)	100 (23)	5 (1)	10 (2)	15 (3)	20 (5)	30 (7)	80 (18)	9 (2)	195 (88)
ACSF-20	50 (11)	60 (14)	100 (23)	160 (36)	200 (45)	10 (2)	20 (5)	30 (7)	40 (9)	60 (14)	82 (19)	14 (3)	230 (104)
ACSF-30	75 (17)	90 (20)	150 (34)	240 (55)	300 (68)	15 (3)	30 (7)	45 (10)	60 (14)	90 (20)	82 (19)	14 (3)	350 (159)
ACSF-40	100 (23)	120 (27)	200 (45)	320 (73)	400 (91)	20 (5)	40 (9)	60 (14)	80 (18)	120 (27)	82 (19)	14 (3)	375 (170)
ACSF-50	125 (28)	150 (34)	250 (57)	400 (91)	500 (114)	25 (6)	50 (11)	75 (17)	100 (23)	150 (34)	85 (19)	20 (5)	490 (222)
ACSF-75	175 (40)	225 (51)	375 (85)	600 (136)	750 (170)	38 (9)	75 (17)	113 (26)	150 (34)	25 (6)	85 (19)	20 (5)	525 (238)
ACSF-100	200 (45)	300 (68)	500 (114)	800 (182)	1000 (227)	50 (11)	100 (23)	150 (34)	200 (45)	300 (68)	85 (19)	24 (5)	650 (295)
ACSF-125	250 (57)	375 (85)	625 (142)	1000 (227)	1250 (284)	63 (14)	125 (28)	188 (43)	250 (57)	375 (85)	85 (19)	24 (5)	790 (358)
ACSF-150	375 (85)	450 (102)	750 (170)	1200 (273)	1500 (341)	75 (17)	150 (34)	225 (51)	300 (68)	450 (102)	90 (20)	30 (7)	850 (386)
ACSF-175	350 (79)	525 (119)	875 (199)	1400 (318)	1750 (397)	88 (20)	175 (40)	263 (60)	350 (79)	525 (119)	90 (20)	32 (7)	890 (404)
ACSF-200	400 (91)	600 (136)	1000 (227)	1600 (363)	2000 (454)	100 (23)	200 (45)	300 (68)	400 (91)	600 (136)	90 (20)	36 (8)	950 (431)
ACSF-250	500 (114)	750 (170)	1250 (284)	2000 (454)	2500 (568)	125 (28)	250 (57)	375 (85)	500 (114)	750 (170)	110 (25)	44 (10)	120 (54)
ACSF-300	600 (136)	900 (204)	1500 (341)	2400 (545)	3000 (681)	150 (34)	300 (68)	450 (102)	600 (136)	900 (204)	110 (25)	46 (10)	1350 (612)
ACSF-350	700 (159)	1050 (238)	1750 (397)	2800 (636)	3500 (795)	175 (40)	350 (79)	525 (119)	700 (159)	1050 (238)	110 (25)	46 (10)	1812 (822)
ACSF-400	800 (182)	1200 (273)	2000 (454)	3200 (727)	4000 (908)	200 (45)	400 (91)	600 (136)	800 (182)	1200 (273)	110 (25)	48 (11)	2760 (1252)
ACSF-450	900 (204)	1350 (307)	2250 (511)	3600 (818)	4500 (1022)	225 (51)	450 (102)	675 (153)	900 (204)	1350 (307)	110 (25)	48 (11)	2880 (1306)
ACSF-500	1000 (227)	1500 (341)	2500 (568)	4000 (908)	5000 (1136)	250 (57)	500 (114)	750 (170)	1000 (227)	1500 (341)	110 (25)	48 (11)	2990 (1356)

* Dry weight of equipment

Part numbers / Ordering information

ACSF-•-□-▲-♦-▼-○-n (eg. ACSF-200-D-CS-E-PP-2-M)

Code •	Code □	Redundancy	Code ♦	Vessel material	Code ♦	Vessel internal coating
Number of candles. Specified by ESCO Process	S	Single	CS	Carbon steel	0	No coating
	D	Duplex	SS	Stainless Steel	E	Epoxy
	T	Triplex	DS	Duplex Steel	F	Glass flakes
	Q	Quad	FG	FRP	C	Chemical coat

Code ▲	Disc material	Code ○	Filter grades	Code Π	Disc trim
PP	Polypropylene	1	1 µm	S	SS316
TF	Teflon	2	2 µm	M	Monel
DE	Diatomaceous earth coating	5	5 µm		
SX	Special coating	10	10 µm		
		20	20 µm		
		30	30 µm		
		50	50 µm		
		75	75 µm		



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