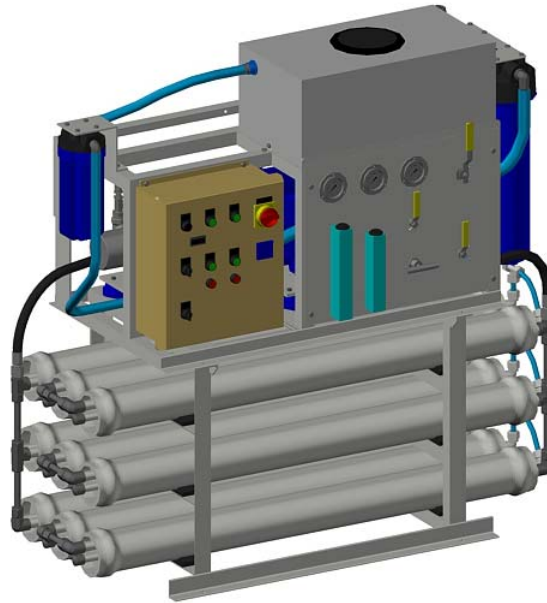


December 2015

**PARTS CATALOG
SEA WATER DESALINATOR
AQUA-SEP SERIES II
MODEL 30 TPD**



Compass
water solutions

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This parts catalog is a reference for all of the following
 Model numbers and Serial numbers manufactured prior
 to the date of this document.

Model Number	Description
ASSD3025230-MCS	AQUA-SEP SERIES II, 30 TPD

Serial Numbers:

33472 *	33495 *	33617
33473 *	33540	33619
33492 *	33548	33621
33493 *	33574	33633 *
33494 *	33580	33634 *

Serial Numbers with * May have custom items not shown or listed in this document.
 For assistance with these additional items contact CWS at "parts@compasswater.com"

COMPONENT PART NUMBERS & DESCRIPTIONS

NOTE: Some items listed are optional and may not be included on your Aqua-Sep system

<u>ITEM</u>	<u>COMPONENT NAME</u>	<u>DESCRIPTION</u>
1.	Control Box (Various)	Houses the electrical controls, wiring and safety switches. Refer to System Manual For Control Box Drawings. (fig #1)
2.	Membrane Housings & Membrane Element	High pressure housing for spiral wound membranes. Reject dissolved solids. Only pure water permeates the membranes. Converts seawater to potable water. Housings MHSA1440 , Element MSHH0441-H (fig #1 & #8)
3.	Cleaning Solution Filter	Removes silt and sediment from cleaning solution. Filter Housing: FCHQ7010 Filter Element: FCAE3010 (fig #1 & #4)
4.	Desalinator Frame	Serves to mount the system and houses the piping and booster pump/motor. (fig #1)
5.	Cleaning Solution Tank	Tank for mixing cleaning solution. (Full Assy. ASCT120110) (Tank Only ASCT100175) (fig #1 & #4)
6.	Operating Pressure Gauge Assy.	Indicates system operating pressure. ASOG120705 (Gauge only GALK0438 , High Press. Switch SWMS0016) (fig #3)
7.	Feed Pressure Gauge Assy.	Indicates the cartridge filter outlet and booster pump inlet pressure. ASFG120705 (Gauge only GALK0406 , Low Press. Switch SWMS0430) (fig #3)
8.	Inlet Pressure Gauge Assy.	Indicates the cartridge filter inlet pressure. ASIG120705 (Gauge Only GALK0406) (fig #3)
9.	Operate/Clean Inlet Valve Assy.	Diverts flow during operating or cleaning mode. ASIV120705 (fig #3)
10.	Operate/Clean Outlet Valve Assy.	Diverts flow during operating or cleaning mode. ASOV120705 (fig #3)
11.	Cleaning Tank Drain Valve Assy.	Used to drain the cleaning solution tank. ASDV120705 (fig #3)
12.	Pressure Control Valve Assy.	Variable orifice back pressure valve. Maintains system feedwater pressure sufficient to permeate the membranes. ASCV120705 (fig #3)

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<u>ITEM</u>	<u>COMPONENT NAME</u>	<u>DESCRIPTION</u>
13.	Flowmeter "Product Water"	Provides instantaneous indication of product water production in gallons per minute and liters per minute. FMTR50750 (fig #3)
14.	Flowmeter "Reject Water"	Provides instantaneous indication of water being rejected in gallons per minute and liters per minute. FMTR50200 (fig #3)
15.	Cartridge Filter Housing	Contains replaceable filter cartridge (1 micron). Filter Housing: FCHQ1520 Filter Element: FCCH0120 (fig #7)
16.	Cartridge Filter Housing	Contains replaceable filter cartridge (5 micron). Filter Housing: FCHQ1520 Filter Element: FCCH0520 (fig #7)
17	Booster Pump / Motor Assy.	Complete Pump/Motor Assy. (fig #5) ASBP300004 (When Ordering, Provide System Voltage)
18.	Electric Motor	10 H.P. motor with 215TC Frame (fig #5) MTRW1310C (When Ordering, Provide System Voltage)
19.	Booster Pump	APP 3.0 (fig #5 & #6) PUDS3000
20.	Pressure Switch	Set at 90 PSI. SWMS0490
21.	Pressure Relief Valve	¼" Stainless Steel Valve Body Valve VRHS0400 Aqua-Sep Set Spring (750-1500 PSI) ASPS0001 (fig #5 & #6)
22.	Motor Mounts	Vibration Dampeners. VBIR0507 (fig #5)
23.	Bell Housing *	Connects Booster Pump to Motor Housing (fig #5)
24.	Flex Coupling *	Couples Motor and Pump (fig #5)
		* Items 23 & 24 are sold as a set PPBH3000
25.	Product Valve Assy.	Controls Direction of flow based on the quality of the Processed Water. (fig #7) 120 VAC – ASPV120705-120 220 VAC – ASPV120705-220
26.	Solenoid Valve (1/2")	120 VAC – VSDB0840 (fig #7) 220 VAC – VSDB0850

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<u>ITEM</u>	<u>COMPONENT NAME</u>	<u>DESCRIPTION</u>
27	TDS Probe	Checks quality of processed water. (fig #7) MPCS1000
28.	Drain Manifold	ASDM120705 (fig #7)
29.	High Pressure Hose Assy. (3/4" x JIC-37°)	These are made to fit. Please indicate "End to End" measurement. Replace "--" in part number with the length in inches. ASHA12 -- (fig #8) [Example: ASHA1275 = 75 inches long]
30.	Misc. Hoses & Tubing Details	Product Tubing (3/8" x 1/4" I.D.) TUVC0406 5/8" Tubing (Vinyl Braid) TUVB1000 1" Tubing (Vinyl Braid) TUVB1600 [Refer to Drawing 123008 For Full Details]

PART NUMBERS & DESCRIPTIONS

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ITEM	PART NUMBER	DESCRIPTION
A.	FCAE3010	Cleaning Filter Element
B.	ASCT100175	Cleaning Tank (Tank Only – No Fittings)
C.	PABS1212 (2x)	Pipe Adapter, 3/4" BSP to NPT
D.	PAKS1200 (2x)	Adapter Gasket, 3/4" SS, BSP
E.	PNXS1200	Pipe Nipple, SS Sch 80, 3/4" x Close
F.	PTXS1200	Pipe Tee, SS #3000, 3/4"
G.	PBXS1204	Pipe Bushing, SS Sch 80, 3/4" x 1/4"
H.	PBTX0804	Pipe Bushing, PVC Sch 80, 1/2" x 1/4"
I.	PNTS0400 (2x)	Pipe Nipple, SS, 1/4" x Close
J.	PEGX0800	Pipe Adapter Elbow, 1/2" Hose x FNPT
K.	FEMS1237	Flare Elbow, 3/4" MNPT x 3/4" - 37° Hose
L.	PNTS1200	Pipe Nipple, SS, 3/4" x Close
M.	PBTS1612	Pipe Bushing, SS 1" x 3/4"
N.	PTTS1600	Pipe Tee, SS, 1"
O.	PEHX1600	Pipe Adapter Elbow, PVC, 1" Hose x MNPT
P.	ITSM0400	Insta-Tube, Straight Male 1/4"
Q.	PBTS1604	Pipe Bushing, SS, 1" x 1/4"
R.	PTTS0400	Pipe Tee, SS, 1/4"
U.	PETS0800	Pipe Elbow, SS, 1/2"
V.	PUTS0800	Pipe Union, SS, 1/2"
W.	PNTS0800 (6x)	Pipe Nipple, SS, 1/2" x Close

* There is no item "S" or "T" in this list

PART NUMBERS & DESCRIPTIONS

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<u>ITEM</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
X.	PAHX0812	Pipe Adapter, 1/2" Hose x 3/4" MNPT
Y.	PTTX1200	Pipe Tee, PVC Sch 80, 3/4"
Z.	PBTX1208	Pipe Bushing, Threaded PVC, 3/4" x 1/2"
AA.	PTTS1200	Pipe Tee, SS, 3/4"
BB.	FTEM0608	Fast & Tite Elbow, 3/8" Tube x 1/2" MNPT
CC.	FTFS1237 (2x)	Flare Tee, 3/4" x 37° Hose
DD.	FCNS1237 (2x)	Flare Nut, 3/4"
EE.	FCSS1237 (2x)	Flare Sleeve, 3/4"
FF.	PQTX0800 (9x)	Pipe Cap, 1/2" Threaded
GG.	FTEF0800 (9x)	Fast & Tite Elbow, 1/2" Tube x FNPT
HH.	CEFS1200 (14x)	Compression Elbow, 3/4" Tube x FNPT
II.	CTBS1200 (2x)	Compression Tee, 3/4"
J J.	TUSS1200	Tubing, 3/4"
KK.	MSDA0400 (18x)	Membrane Saddle 4"
LL.	FTTR0800 (7x)	Fast & Tite Run Tee, 1/2" Tube x MNPT
MM.	FTFM0800	Fast & Tite, 1/2" Tube x MNPT
NN.	PTTX0800	Pipe Tee, Threaded PVC Sch 80, 1/2"
OO.	PNTX0800	Pipe Nipple, PVC Sch 80, 1/2" x Close

CONSUMABLES & REBUILD PARTS

NOTE: Some items listed are optional and may not be included on your Aqua-Sep system

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
PDVK3035	Booster Pump Valve Plate Set, APP 3.0
PDSK3035	Booster Pump Seal Set, APP 3.0
PDSP3000	Booster Pump Swash Plate, APP 3.0
PDPS3035	Booster Pump Piston Set, APP 3.0
PDRS3035	Booster Pump Retainer Set, APP 3.0
ORGN1122	O-Ring, BB Filters
ORGN1120	O-Ring, Cleaning Filter
ASAC1000	Aqua-Sep Membrane Cleaner – Acid 2 lbs. (Mix 2 lbs. with 15 gallons of Water)
ASAL2000	Aqua-Sep Membrane Cleaner – Alkaline 2 lbs. (Mix 1 lb. with 15 gallons of Water)
SBSP0001	Aqua-Sep Preservative, Sodium Bisulfate 50 lbs. pail
FCAE3010	Cleaning Filter
FCCH0120	Filter Element: (1 micron) x 20” Long, BB
FCCH0520	Filter Element: (5 micron) x 20” Long, BB
FCWQ1500	Filter Housing Wrench, BB
VRKD0800	Solenoid Valve Rebuild Kit ½”