

4-IN-1 HYDRAULIC SEPARATORS



5495 SEP4™

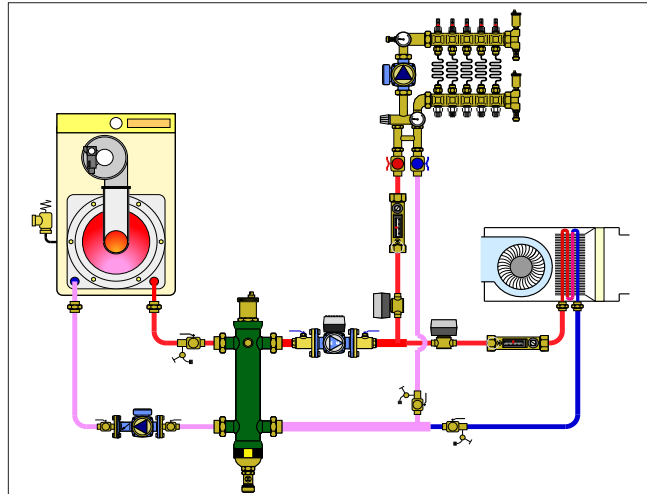
Combination 1. hydraulic, 2. air, 3. dirt and 4. magnetic separation.

Epoxy resin coated steel body.
HDPE internal coalescing element, removable for cleaning.
Includes mounting bracket.
Thermowell tap: 1/2" straight female.
Max. working pressure: 150 psi.
Working temperature range: 32 – 212 °F.

Code	Description	Lbs	USD
549596A	1" sweat union	15	749.00
549506A	1" NPT female union	15	779.00
549566A	1" press union	15	819.00
549597A	1 1/4" sweat union	19	914.00
549507A	1 1/4" NPT female union	19	944.00
549567A	1 1/4" press union	19	1,038.00
549598A	1 1/2" sweat union	27	1,193.00
549508A	1 1/2" NPT female union	27	1,235.00
549568A	1 1/2" press union	27	1,348.00
549599A	2" sweat union	29	1,368.00
549509A	2" NPT female union	29	1,402.00
549569A	2" press union	29	1,574.00
549506US*	1" no tailpieces	13	638.00
549507US*	1 1/4" no tailpieces	16	745.00
549508US*	1 1/2" no tailpieces	23	878.00
549509US*	2" no tailpieces	24	1,064.00

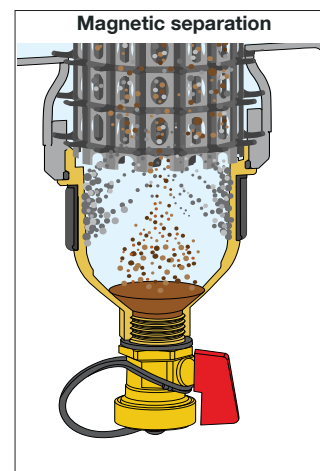
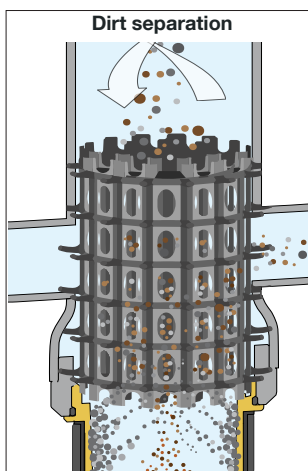
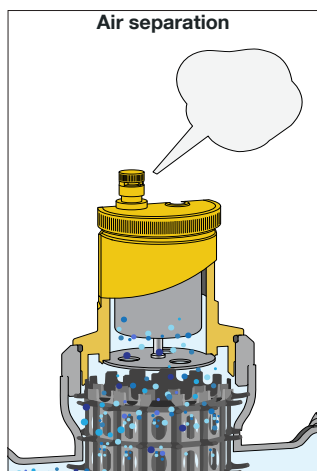
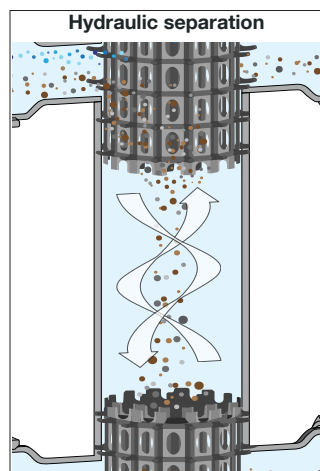
*See Separator fittings in Section 13.

The SEP4™ 4-in-1 combination separator incorporates four important functions for hydronic systems: hydraulic separation, air separation, dirt separation and ferrous impurity separation. The unique geometry and design of the separator causes the connected primary and secondary circuits to be hydraulically de-coupled to prevent pump conflict from occurring. An internal screen element facilitates the coalescing and capture of micro-bubbles to facilitate high performance automatic removal, while concurrently causing the capture of non-ferrous debris particles down to 5 micron size. A powerful magnetic field induced by rare-earth neodymium magnets facilitates the capture of ferrous impurities such as iron oxide down to microscopic size thus delivering 2 1/2 times the ferrous impurity removal performance of standard air and dirt separators.



	FLOW RATE			
Size	1"	1 1/4"	1 1/2"	2"
GPM	11	18	26	37
Gallons	0.5	0.7	1.3	3.5

Construction details for 5495 SEP4™



4-IN-1 HYDRAULIC SEPARATORS



NA549 SEP 4™

Combination 1. hydraulic, 2. air, 3. dirt and 4. magnetic separation

Epoxy resin coated steel body.
Stainless steel internal coalescing mesh.
Pre-formed insulation on 2" — 4" sizes.
One neodymium magnet assembly.
Complete with:
automatic air vent (code 501502A).
air vent shut-off valve (code NA39589).
1" drain valve NA39753 (2" — 4" sizes)
1¼" drain valve NA39588 (5" — 6" sizes).
ANSI 150 flange connections.
Max. working pressure: 150 psi.
Vessel temperature range: 32 — 220 °F.
Working temp. w/o insulation: 32 — 270 °F.
Particle separation capacity: to 5 µm (0.2 mil).

Code	Description	Lbs	USD
549552A	2" ANSI flange	76	5,852.00
549562A	2½" ANSI flange	82	6,237.00
549582A	3" ANSI flange	112	7,805.00
549510A	4" ANSI flange	120	8,741.00

Code	Description	Lbs	USD
NA549052AM	2" ANSI flange ASME & CRN	76	6,812.00
NA549062AM	2½" ANSI flange ASME & CRN	82	7,315.00
NA549082AM	3" ANSI flange ASME & CRN	112	9,053.00
NA549102AM	4" ANSI flange ASME & CRN	120	9,546.00
NA549120AM*	5" ANSI flange ASME & CRN	220	13,750.00
NA549150AM*	6" ANSI flange ASME & CRN	235	16,587.00

*Without insulation

NA prefix indicates ASME U-stamp tagged and registered with the National Board of Boiler and Pressure Vessel Inspectors; CRN registered.



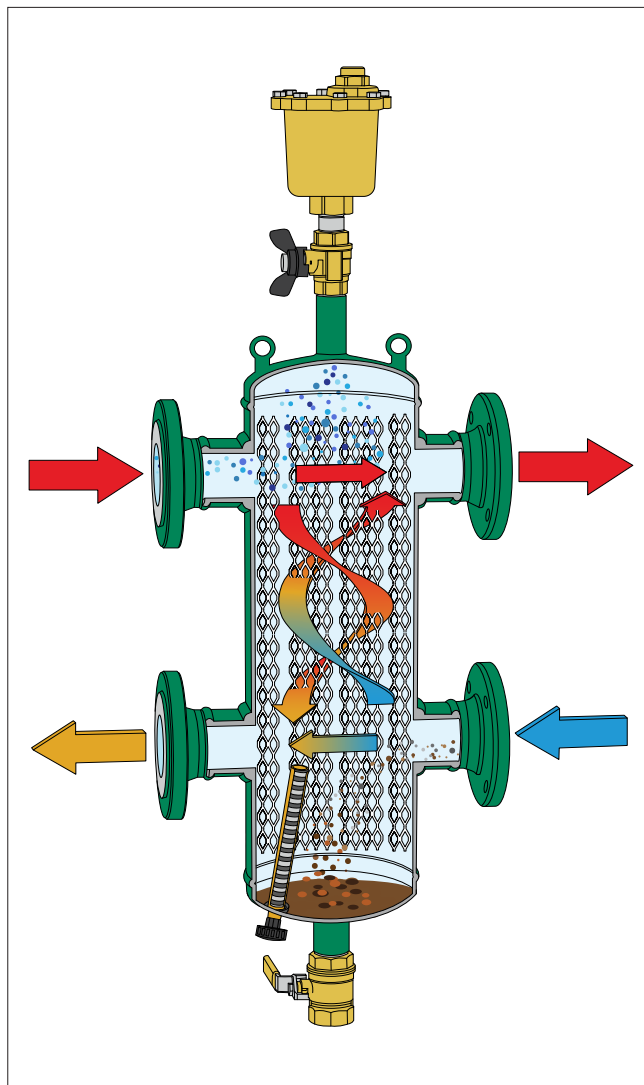
NA549 SEP 4™ ASME

Combination 1. hydraulic, 2. air, 3. dirt and 4. magnetic separation

Three neodymium magnet assemblies.
Complete with:
automatic air vent (code 501502A).
air vent shut-off valve (code NA39589).
drain valve (code NA59600).
ANSI 150 flange connections.
Thermometer pockets (NPT):
½" inlet/outlet flanges, ¾" front center
Max. working pressure: 150 psi.
Vessel temperature range: 32 — 270 °F.
Particle separation capacity: to 5 µm (0.2 mil).
CRN registered through 12". Consult factory for 14".

Code	Description	Lbs	USD
NA549200AM	8" ANSI flange ASME & CRN	530	28,709.00
NA549250AM	10" ANSI flange ASME & CRN	740	38,897.00
NA549300AM	12" ANSI flange ASME & CRN	1,110	51,187.00
NA549350AM	14" ANSI flange ASME	1,550	60,346.00

Construction details for NA549 SEP4™



In the SEP4™ hydraulic separators ferrous impurities are captured by a concentrated magnetic field created by a stack of neodymium magnetic rods, rare-earth magnets positioned inside a brass dry-well which is below the flow stream. Non-magnetic dirt particles are separated by colliding with an internal element in the flow stream and settling to the bottom. The deep collection chamber keeps the dirt from re-entering the flow stream. The dirt and ferrous impurities are flushed out even while the system is still running, by removing the magnets and opening the purge valve.

FLOW RATE										
Size	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
GPM	60	80	124	247	300	484	792	1330	1850	2500
Gallons	4.0	4.0	8.0	8.0	23	23	95	175	255	450