

AERO-Classics Oil Coolers

FAA-PMA Approved

- Direct replacements for most oil coolers
- Ideal for many certified and experimental aircraft
- FAA 8130-3 tags included with each oil cooler

Outstanding Performance

During comparative performance tests, AERO-Classics 7 and 9 plate oil coolers outclassed competitive models, offering better overall cooling and lower weight.

Direct Replacements for Stewart Warner Oil Coolers

- HE Series High Efficiency Coolers
- FAA-PMA direct replacement for Stewart Warner (Meggitt) oil coolers
- Match or outperform the original
- Save \$\$\$

Don't be fooled by Stewart Warner oil coolers from many aviation suppliers. If it didn't come directly from the aircraft manufacturer or if they don't say "FAA-PMA", then it is not FAA approved (even though they may have the same part number and manufacturer).

Highest Quality, Best Value

- Corrosion Protection per MIL-C-5541, Class 1A
- Optimized internal oil flow design
- Low cost
- In-stock for fast delivery
- Pressure tested to 400 psig
- Light-weight
- Two year warranty



P/N 654117



P/N 652079



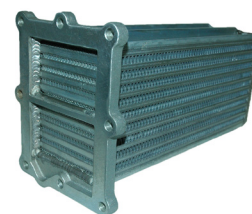
P/N 649964



Front Mount, 12 Bolt Non Congealing Oil Cooler
P/N 8000319



Rear Mount Oil Cooler
P/N 8000464



Front Mount, 8 Bolt Oil Cooler
P/N 8000934

Manufacturer Installation Tips:

Mounting Flanges

Be sure to mount the cooler using all four mounting flanges. This will evenly distribute stress that can cause cracking.

Threads and Hoses

- On pipe (tapered) threads, Anti-seize lubricant should always be used to prevent thread galling. Steel fittings are an additional added measure that can prevent thread galling.
- Avoid damage to the oil cooler during operation. Hoses connecting to the oil cooler should be installed, supported, and tied down to avoid vibration and pulling stresses onto the oil cooler. Hoses must be fastened to the same structure as the cooler. If the cooler is mounted to the airframe structure, the hoses must be supported by the airframe structure. If the cooler is attached to the engine structure, the hoses must be supported by the engine structure. Do not allow engine movement stresses into the cooler through the hoses.
- A back-up wrench should always be used when installing fittings into any oil cooler to prevent damage to the oil cooler.
- Please note (if applicable) the threads on this part have been inspected by the manufacturer before shipment and found to be in conformity. Galling of threads is not considered a warrantable claim.

P/N	Description	FAA Approved Replacement	Eligible Continental Engine Models	Gaskets (not included with oil cooler)
Front-Mount, 8 Bolt Oil Coolers				
8000925		Continental 627392, Niagara 20585A	O-470-A,B,E,G,J,K,L,M,P,R,S,U IO-470- C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V	654117 649964 (plate)
8000934		Continental 646880, Niagara 20591A	IO-360-A,AB,C,CB,D,DB,G,GB,H,HB,HB9,J,JB,K,KB,ES TSIO-360-A,AB,B,C,CB,D,DB,E,F,GB,H,JB,KB,LB,MB L/TSIO-360-E,EB,F,FB,GB,H,HB,JB,KB,LB,MB,RB	654117, 649964 (plate)
Front-Mount, 12 Bolt Congealing Oil Coolers				
8000683	Non-7th Stud	Continental 626189, Niagara 20573A	O-470-B,J,K,L,M,R,IO-470-D,F,L,M,S IO-520-A,D,E,F,J,K,L, L/TSIO-520-AE, O-550-D	654553 649964 (plate)
8000687	7th Stud	Continental 652671, Niagara 20440A	IO-520-A,D,E,F,J,K,L, L/TSIO-520-AE, IO-550-D	654555, 649964 (plate)
Front-Mount, 12 Bolt Non Congealing Oil Coolers				
8000545	10" Universal 7th Stud	Continental 639171, Niagara 20795A Continental 654595, Niagara 20617A	O-470-R,S,U, IO-520-A,D,E,F,J,K,L TSIO-520-C,G,H,M,P,R,T,AF,CE, IO550-D,E,F,L	654554 652079 (plate)
8000319	11" Universal 7th Stud	Continental 639151, Niagara 20446A	O-470-F,K,L,R, IO-470-L, IO-520-A,D,E,F,J,K,L	654560, 652079 (plate)
8000319	11 7th Stud	Continental 654593, Niagara 20618A	IO-470-L, IO-520-A,D,E,F,J,K,L	654554, 652079 (plate)
8000531	11.5" Universal 7th Stud	Continental 639152, Niagara 20623A	O-470-M, IO-470-D,U,V, IO-520-A,D,E,F,J,K,L	654560, 652079 (plate)
8000127	11.5" 7th Stud	Continental 652759, Niagara 20448A	IO-520-A,D,E,F,J,K,L	654554, 652079 (plate)
Rear-Mount Oil Coolers				
8000440	Valve P/N 639305 small	Continental 654580, Niagara 10279A	TSIO-520-BE,E,J,L,N,VB,WB,EB,JB,LB,NB, 550-E, IO-550-B,C,G	G-KT-1
8000464	Valve P/N 639305 small	Continental 646685, Niagara 10196A	GTSIO-520-C,D,F,H,K,L,M,N	G-KT-2
8000953	Valve P/N 649369 large	Continental 654585, Niagara 10281A	IO-550-G,N,P,R, IO-F550-G,N,P,R, TSIO-550-G	G-KT-3
8000960	Valve P/N 639305 small	Continental 654572, Niagara 10278A	IO-520-B,BA,BB,C,CB,M,MB, TSIO-520-B,D,K,UB, IO-550-A,B,C	G-KT-1
8001213	Valve P/N 649369 large	Continental 655090, Niagara 10280A	IO-550-B,C, IOF-550-B,C, TSIO-520-B	G-KT-5

Continued on next page

AERO-Classics Oil Coolers continued from previous page
Remote Mount Oil Coolers (typically used with Lycoming engines)



Bar and Plate
P/N 8000356



7 row drawn cup
P/N 8000075



HE Series
P/N 8001646



HE Series
P/N 8001599

Important: To confirm FAA approved eligibility, verify that your current (or originally) installed oil cooler P/N is listed in the "FAA Approved Replacement for" column for your aircraft model.

Aircraft Model	FAA Approved Replacement for P/N	Description	P/N
AEROSTAR			
601, 601P, 602P, 700P	Niagara 20015A, 20044A, Harrison 8541336	bar and plate	8000357
American Champion Aircraft Corp.			
7ECA, 7GCAA, 7GCBC	American Champion Aircraft 8526250	7 row drawn cup	8000075
Beechcraft			
19, C23, A24R, C24R	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
19A, B19, A23, A23A, A24, A24R, B23, C23	Beech 169-910002-23, 169-380001-1, Stewart Warner 8406R	HE Series	8001602
A23-24	Beech 169-910002-23, 169-380001-1, Stewart Warner 8406R	HE Series	8001602
	Beech 169-380033, Stewart Warner 8432S		8001694
Brittan-Norman (Pilatus)			
BN-2	BN 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2A	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
	BN 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27	BN 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2B	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN-2T-4R	BN 354501026, Stewart Warner 8406R	HE Series	8001602
Cessna			
150, 152, A152	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
162	Cessna and Stewart Warner 10578R	HE Series	8001535
170	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
172	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
	Cessna and Stewart Warner 8406R	HE Series	8001733
175, 177	Niagara 20002A, Harrison 8526250 and AP07AU06-03	7 row drawn cup	8000075
177RG	Cessna and Stewart Warner 8406R	HE Series	8001733
172N	Cessna and Stewart Warner 10599R	HE Series	8001599
172R,S	Cessna and Stewart Warner 10877R	HE Series	8001588
182	Cessna and Stewart Warner 10610R	HE Series	8001646
R182, TR182	Cessna and Stewart Warner 10614R	HE Series	8001643
	Cessna and Stewart Warner 10610R		8001646
T182, TR182, T182T	Cessna and Stewart Warner 10891A	HE Series	8001718
210-5 (205), 210-5A (205A)	Cessna and Stewart Warner 10634R	HE Series	8001652
206, 206H, P206, P206A,B,C,D,E, U206, U206A,B,C,D,E,F,G	Cessna and Stewart Warner 10880A	HE Series	8001713
T206H, TP206A,B,C,D,E, TU206A,B,C,D,E,F,G	Cessna and Stewart Warner 10865B	HE Series	8001701
210, 210A thru 210R, P210N,R, T210F thru T210R	Cessna and Stewart Warner 10634R	HE Series	8001652
Commander, Twin Commander Aircraft LLC			
114, 114A, 500S	Commander 630146-509, Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353
Cub Crafters Inc.			
CC18-180, CC18-180A	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
Grumman			
AA-5 (Tiger)	5505002-2, Stewart Warner 10568R	HE Series	8001640
AA-5A Series (Cheetah)	5505002-1, Stewart Warner 10578R	HE Series	8001535
Maule			
M-5-180, M-5-180C, M-5-235C, M-6-180, M8-235, MX7-160, MX7-160C, MX7-180, MX7-180A, MX7-180AC, MX7-180B, MX7-180C, MXT7-160, MXT7-180, MXT7-180A,	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
M5-235, M6-235, M7-235A, M8-235, MX7-235, MT7-235, M7-235B, M7-235C, MT7-260, M7-260, M7-260C	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
	Niagara 20006A, Harrison 8534108 and AP13AU06-01	13 row drawn cup	8000215

Continued on next page



AERO-Classics Oil Coolers continued from previous page
Remote Mount Oil Coolers (typically used with Lycoming engines)

Firewall Forward

Eligibility continued from previous page

Aircraft Model	FAA Approved Replacement for P/N	Description	P/N
Mooney			
MC20A, MC20B	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
M20C, M20D	Niagara 20002A, Harrison 8526250, AP07AU06-03 Mooney 620036, Stewart Warner 8406R	7 row drawn cup HE Series	8000075 8001602
M20E, M20F	Mooney 620016, 620052, Stewart Warner 8432R Mooney 6200160501, Stewart Warner 8432S	HE Series	8001689 8001694
M20G	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
M20J	Mooney 620016, 620052, Stewart Warner 8432R	HE Series	8001689
Piper			
PA-18,18A	Harrison 8521940	bar and plate	8000328
2 PA-18, -18A, -18S, -18 "105" Special, -18 "125"(Army L-21A), -18S "125", -18AS "125", -18 "135" (Army L-21B),-18A "135", -18S "135", -18AS "135", -18 "150", -18A "150", -18S "150P", -18AS "150", -19 (Army L-18C), -19S	Niagara 20003A, Harrison 8529245 and AP09AU06-01	9 row drawn cup	8000074
PA22-135,150,160	Harrison 8521940	bar and plate	8000328
PA-23, S/N 23-163 and up	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-23	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-23-160	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA23-235,250	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-23-250	Piper 32330-07, S/W Meggit 10631S	HE Series	8001956
PA-24	18622-00, Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
PA-24-260 S/N 24-4783, 24-4804 and up	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-25	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
PA-25-235	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-28-140,150,151,160,161,180,181	Niagara 20002A, Harrison 8526250 and AP07AU06-03 Niagra 20006A, Harrison 8534108, AP13AU06-01	7 row drawn cup 13 row drawn cup	8000075 8000215
PA-28R-200,201,201T	Piper 67848-00, Niagara 20017A, Harrison 8537820	13 row, drawn cup with cutout	8000661
PA-28-235	Niagara 20006A, Harrison 8534108, AP13AU06-01	13 row drawn cup	8000215
PA-28-236	Niagara 20003A, Harrison 8529245 and P09AU06-01	9 row drawn cup	8000074
PA-30	18622-00, Niagara 20002A, Harrison 8526250, AP07AU06-03 Niagara 20006A, Harrison 8534108, AP13AU06-01	7 row drawn cup 13 row drawn cup	8000075 8000215
PA-31	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-31-310,325,350	Niagara 20010A, Harrison 8535311	bar and plate	8000356
PA-32-260	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-32-300	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074
PA-32R-300	Piper 556-391, Harrison 8543897	bar and plate	8001201
PA-32RT-300,300T, PA-32R-301,301T	Niagara 20010A, Harrison 8535311	bar and plate	8000356
PA-34-200	Piper 67848-00, Niagara 20017A, Harrison 8537820	13 row, drawn cup with cutout	8000661
PA-39	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
Robinson Helicopter			
R22	Niagara 20008A	17 row drawn cup	8000216
R44, R44II	Robinson and Stewart Warner 10886A	HE Series	8001723
Sikorsky Aircraft			
269C	Meggitt and Stewart Warner 10655A		8002517
Sky International (PITTS)			
S-2B	Niagara 20006A, Harrison 8534108, AP13AU06-01 Niagara 20009A, Harrison 8533718, 8537798	13 row drawn cup 18 row drawn cup	8000215 8000353
Socata			
TB9, TB10	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
TB20, TB200	Niagara 20006A, Harrison 8534108, AP13AU06-01 Niagara 20009A, Harrison 8533718, 8537798	13 row drawn cup 18 row drawn cup	8000215 8000353

Continued on next page

AERO-Classics Oil Coolers continued from previous page
Remote Mount Oil Coolers (typically used with Lycoming engines)

Eligibility continued from previous page

Taylorcraft 2000, LLC			
F22B, F22C, F22R	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
Univair (Stinson)			
108, 108-1, 108-2, 108-3	Niagara 20002A, Harrison 8526250, AP07AU06-03	7 row drawn cup	8000075
Vulcan Air S.p.a.			
P.68C	Vulcan S.p.a. NOR.373-1	13 row drawn cup	8000215

Notes

- 1 McFarlane engineering is unable to confirm this eligibility entry. P/N 8000215 is for larger (300HP+) engines.
- 2 When modified with IAW Cub Crafters Inc. STC # SA00718SE or SA92NW.

Cross Reference	
Beechcraft P/N	AERO-Classics P/N
169-380001-1	8001602
169-380033	8001694
169-910002-23	8001602
Britten-Norman (Pilatus) P/N	AERO-Classics P/N
354501026	8001602
Continental P/N	AERO-Classics P/N
626189	8000683
627392	8000925
639151	8000319
639171	8000545
646685	8000464
646880	8000934
652671	8000687
652759	8000127
654572	8000960
654580	8000440
654585	8000953
654593	8000307
654595	8000545
655090	8001213
693152	8000531
Harrison P/N	AERO-Classics P/N
8521940	8000328
8526250	8000075
8529245	8000074
8530016	8000343
8533718	8000353
8534108	8000215
8535311	8000356
8537798	8000343
8537820	8000661
8541336	8000357
8543897	8001201
Mooney P/N	AERO-Classics P/N
620016	8001689
620036	8001602
620052	8001689
6200160501	8001694
Niagra P/N	AERO-Classics P/N
10196A	8000464
10278A	8000960
10279A	8000440
10280A	8001213
10281A	8000953
20002A	8000075
20003A	8000074
20006A	8000215
20008A	8000216

Continued in next column

Cross Reference	
Continued from previous column	
Niagra P/N	AERO-Classics P/N
20009A	8000353
20010A	8000356
20015A	8000357
20017A	8000661
20044A	8000357
20104A	8000343
20440A	8000687
20446A	8000319
20448A	8000127
20573A	8000683
20585A	8000925
20591A	8000934
20617A	8000545
20618A	8000307
20623A	8000531
20710A	8001080
20795A	8000545
Piper P/N	AERO-Classics P/N
18622-00	8000075
556-391	8001201
67848-00	8000661
85472-012	8001080
Stewart Warner	AERO-Classics P/N
8406R	8001733
8406R	8001602
8432R	8001689
8432S	8001694
10568R	8001640
10578R	8001535
10599R	8001599
10610R	8001646
10614R	8001643
10634R	8001652
10865B	8001701
10877A	8001588
10880A	8001713
10886A	8001723
10891A	8001718
Twin Commander P/N	AERO-Classics P/N
630146-509	8000353
True Flight Holding LLC P/N	AERO-Classics P/N
5505002-1	8001535
5505002-2	8001640

Verify aircraft make and model to ensure direct replacement eligibility. An IPC will confirm the part number that came equipped with the aircraft.

Save 3.7 lbs with the aluminum Oil Coolers for PA18 and PA22 Series!

Stewart Warner Oil Coolers

Factory new oil coolers manufactured by Stewart Warner are ideal for many experimental applications. They are identical to Stewart Warner oil coolers used on many certified aircraft but are not FAA-PMA approved. Form 337 field approvals are required for installation on certified aircraft.

Available part numbers: 10611R, 10611S, 10631S, 10655A, 8001602, 8001733 and 8446S.

