

OIL COOLERS – OIL SEPARATORS



X-SERIES OIL COOLERS BY AIRFLOW SYSTEM

The first aircraft oil cooler design in 50 years. Computer modeling and flight testing have been used to develop coolers that deliver significantly lower oil temps with no increase in oil cooler size or oil pressure drop. Designed as a direct replacement for popular oil coolers used in experimental aircraft, the X- SERIES oil coolers are built to Airflow Systems specifications and certified aircraft oil cooler standards. Flight testing on the popular RV series of aircraft has shown oil temperature drops of 10 -15 degrees F for coolers of the same size in the same location. Not FAA approved.

| Model | Size | Engine Application | Notes | Part No. | Price |
|-------|---------|---|--|----------|----------|
| 2002X | 7 Rows | Continental O-200, Lycoming O-235, Lycoming O-320, Lycoming O-360, Lycoming IO-360, Corvair, Subaru, VW | Max 180 HP. No piston squirters or cold air induction | 08-06153 | \$614.00 |
| 2004X | 10 Rows | Continental O-200, Lycoming O-235, Lycoming O-320, Lycoming O-360, Lycoming IO-360, Corvair, Subaru, VW | Max 180 HP. No piston squirters or cold air induction | 08-13963 | \$617.00 |
| 2006X | 13 Rows | Lycoming O-360K, Lycoming IO-360, Lycoming IO-540 | Go up one size for piston squirters, cold air induction, aerobatic and/or float plane applications | 08-06154 | \$893.00 |
| 2007X | 15 Rows | Lycoming O-360K, Lycoming IO-360, Lycoming IO-540 | Go up one size for piston squirters, cold air induction, aerobatic and/or float plane applications | 08-13964 | \$844.00 |
| 2008X | 17 Rows | Lycoming O-360K, Lycoming IO-360, Lycoming IO-540 | Go up one size for piston squirters, cold air induction, aerobatic and/or float plane applications | 08-06155 | \$861.00 |

AIRFLOW SYSTEMS OIL COOLER DUCTS

Super lightweight and strong hand laid fiberglass ducts designed using Computational Fluid Dynamics (CFD) software and flight testing to provide the best air pressure distribution over the face of the oil cooler. Mounting hardware and installation instructions provided. The new versions will have a gray "in mold" primer coating on them. The advantage to the customer is that there are no pin holes in the fiberglass and the almost-ready-to-paint finish.

Oil Cooler Application: 13 ROW, 20006A, 2006X, 10611R, 08-00644 P/N 08-07472 **\$198.00**



AIRFLOW SYSTEMS ASOCD-45-13BV OIL COOLER DUCT BUTTERFLY VALVE

Airflow System 4 inch butterfly valve for modulating airflow to oil coolers installed on 45 degree duct. It's Welded in metal shaft bushings, not plastic. The CNC machined lever arm with pinch bolt allows for various positions on shaft. Has proper swiveling cable attachment with set screw. May be mounted in multiple orientations. It is anodized for corrosion resistance and appearance P/N 08-17116 **\$214.95**



AIRFLOW SYSTEMS ASOCD-45-13 OIL COOLER DUCT

Airflow System 45 degree metal duct for 13 row oil coolers. Has a 4" diameter hose connector. May be mounted in multiple orientations. Is also anodized for corrosion resistance and appearance. P/N 08-17115 **\$181.75**



AIRFLOW SYSTEMS ASOCD-4-BV BUTTERFLY VALVE

Airflow System 4 inch butterfly valve for modulating airflow to oil coolers. Welded in metal shaft bushings, not plastic. CNC machined lever arm with pinch bolt allows for various arm positions on shaft. Proper swiveling cable attachment with set screw. Mounting ears allow easy attachment to rear baffles or air box (holes on 4.95 diameter centers). Anodized for corrosion resistance and appearance P/N 08-17117 **\$167.75**



AIRFLOW SYSTEMS OIL COOLER INSTALLATION KITS

Airflow Systems oil cooler brackets and mounting hardware kits offer the homebuilder a quick and easy solution for firewall mounted oil cooler installations. A variety of mounting angles cover most applications at a cost that is often little more than the cost of material for a builder made bracket. The generous radiuses resist cracking. Delivered without holes but including an oil cooler mounting hole template the brackets may be tailored to individual installations.

| Description | Part No | Price |
|---|----------|----------|
| Asik-01 Oil Cooler Installation Kit Bolts & Spacers | 08-13968 | \$117.75 |
| Asik-02 Oil Cooler Install Kit 45° Bracket | 08-13969 | \$113.75 |
| Asik-03 Oil Cooler Install Kit 90° Bracket | 08-13970 | \$109.85 |



OIL SEPARATOR INSTALL KITS

Included are three feet of high quality silicone hose, four quality hose clamps, one steel braid -4 AN Teflon oil return hose, one -4 AN X 1/8" NPT 90 Deg. Fitting and one 1/8" X 3/8" NPT reducer bushing that fits the oil return in the accessory case on most Lycoming engines. Also included is a new accessory case breather fitting that is more IO-540 friendly when installing on the six cyl engines. Full installation and maintenance instructions will be included as well.

| Description | Part No | Price |
|------------------------|----------|---------|
| 4 Cylinder Install Kit | 05-12370 | \$67.75 |
| 6 Cylinder Install Kit | 05-12482 | \$81.75 |



E-Z COOL FLAP

This revolutionary product, the "EZ Cool Flap" is a long awaited solution to this sometimes challenging task of climbing out without high CHTs. This revolutionary, retrofit electric cow flap product will definitely help calm the fears of many RV owners and builders of these great aircraft. Our effort turned out to be far greater in monetary and time investment than we initially planned but, all good things take time. After a considerable investment in design, engineering and testing many different configurations, learning and improving along the way. We now offer our product as the most logical, simple and easily installed device to address these temperature concerns. This product is constructed of the finest aircraft alloys and workmanship available and is far superior to any and all other solutions available at any price. This product only weighs a few ounces, is extremely easy to use, and offers unparalleled protection for your aircraft engine.....P/N 05-12374 **\$399.00**



CRANKCASE VACUUM KIT

Included are the 321 stainless steel saddle mount fitting, mounting clamps, vacuum valve assembly and a complete safety by-pass with a .25 psi internal pop-off valve. This will put the finishing touch on your oil separator installation or breather system. Your engine will virtually stop all leaks and seeping when in service, due to the vacuum inside. This system stops any possibility of freezing up the breather tube in cold climates, as no moisture laden air is present in the engine and none can be inhaled through the overboard draft tube. The rarefied air and low pressure in the crankcase has a very dramatic effect on windage and oil in suspension, thus freeing up a little power and adding some efficiency. This will also greatly lower the boiling point of any moisture that finds its way into the engine. Any oil temperature over 160 degrees will get rid of all the moisture in turn the acids. Any lowering of pressure on the underside of the pistons is exactly the same as adding cylinder pressure on top. This results in a very noticeable power increase (on the average 180 HP engine, 3 to 5 HP). We hear this over and over with reports of higher static RPM, better climb and acceleration, lower fuel burn etc. The belly of your airplane will stay immaculately clean as anything that exits the separator or breather line will be consumed in the exhaust stream.....P/N 05-12429 **\$129.00**



MAGNETIC SUPER PLUG

This is the most powerful plug available and was designed specifically for GA aircraft use. This is about the least expensive thing you can add to your aircraft that will extend engine life and prevent damage to your engine. The plug end is very high quality with a special rolled thread to prevent leaks, is cad plated to prevent corrosion and drilled for safety wire. The rolled thread size is 1/2" npt and this fits all Lycoming, Continental, Franklin and many other aircraft engines. The extremely powerful high temperature, Alnico magnet is pressed and locked into the plug permanently and will outlast your engine. This powerful device extends into the oil and removes all ferrous material that is suspended in and circulating with your oil causing wear.....P/N 05-12373 **\$22.50**



THE A.S.A. OIL SEPARATORS

"THE ASA OIL SEPARATOR" is a solution to the oil consumption and collection of oil on the belly of your aircraft. The breathers kick out oil mist that collects on the belly that in turn grabs all the dust and dirt. For years we have been making this type of product used in automotive racing engines so the leap to a light weight aircraft unit was a small one. After many hours on the dynamometer many changes and hours of flight testing the effort was well worth it. "ASA Oil Separator" that in our tests out performs most of the competition at a fraction of the price.

| Description | Part No | Price |
|----------------------------|----------|----------|
| 4 Cylinder Polished Mirror | 05-12369 | \$199.00 |
| 4 Cylinder White Powder | 05-12472 | \$211.95 |
| 6 Cylinder Polished Mirror | 05-12473 | \$222.95 |
| 6 Cylinder White Powder | 05-12474 | \$222.95 |

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