CLA Aircraft Cockpit Heaters

- **Light weight aluminum and thermoplastic construction**
- **12v, 1.6 amp (two 49,000 hour, ball bearing fans)**
- **Airflow 260 cfm (130 cfm using one fan for reduced heating)**
- **Stacked-plate design 30% more efficient than tube & fin designs.**
- **Double mounting flange.**
- **With 90 degree brass hose fittings.**
- **Accepts 5/8" heater hose. (not for air-cooled engines)**

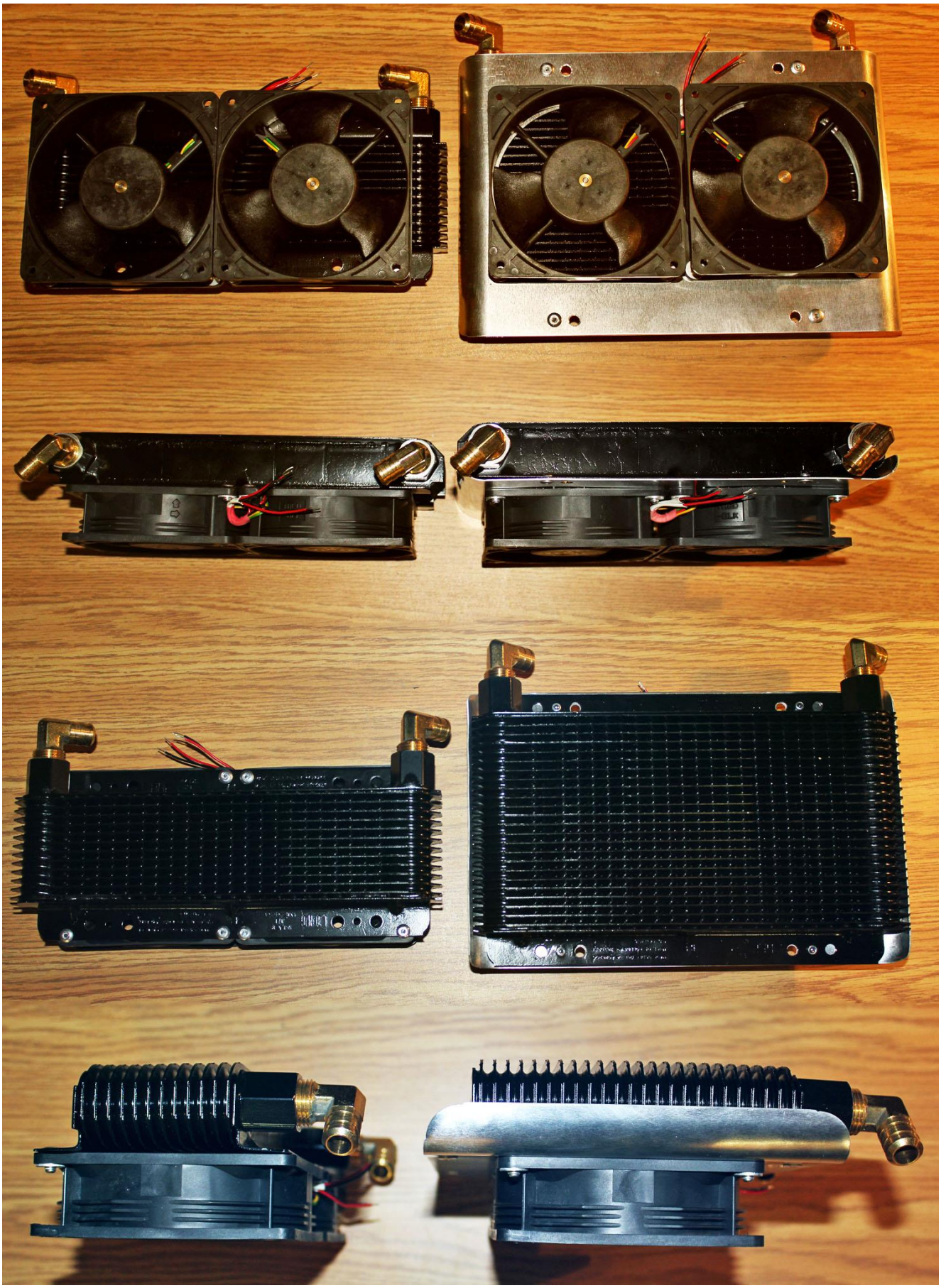
Model CLAH7500E (top left)
7,500 BTU
11"w x 4 ¾" h x 3 1/8"d *
Only 3 lbs.

Model CLAH15000B (bottom right)
15,000 BTU
11"w x 7 ¼" h x 3 1/8"d *
High efficiency aluminum shroud
Only 3.6 lbs.

* Fittings add approximately 1.0" to 1.5" to the over all height (depending on the fitting.)

More BTU's ☆ Greater airflow ☆ Lighter ☆ Smaller ☆ Better value!
(As compared to conventional 12v truck/bus heaters.)

(**Product Support**: Canadian Light Amphibians Bus: 705 481-1817 Cell: 705 279-5243 SeaReyCanada@gmail.com)



CLA Cockpit Heater Installation

Hose Barbs & Heater Hose:

Heaters come with 1/2"MPT x 5/8" 90 degree brass hose barb fittings. These fittings should be sealed using Permatex 80632 Thread Sealant with Teflon. If straight (brass, or aluminum) fittings are used they should be similarly sealed. Heater hose with 5/8" ID is installed in parallel to the engine cooling system using "T" fittings in the 1" lines to and from the engine radiator. There is very little heat transfer with the fans off. Therefore, it is not necessary to provide an in-line shutoff valve.

Heat Distribution Considerations:

The aluminum heater core has 90 degree divergent air channels. Air is pushed by the two fans through the core. The **CLAH7500E** fan mounting is not sealed on the edges permitting air to flow between the side fins. The result is that heat is diffused across a wide area. The installer may direct more air forward by sealing the side fins using high temperature RTV sealant. The **CLAH15000B** has an aluminum shroud that directs the air forward. Heater effectiveness can be increased by removing cockpit drafts and increasing coolant temperature (by restricting airflow through the radiator housing.)

Electrical:

If desired, each fan can be switched separately to vary the heat output. Black wires go to ground and red to 12v.

Power can be provided using 22 gauge wire protected with a 3 amp circuit breaker, fuse or PTC.

Mounting:

The heater must be oriented so that air cannot be trapped inside the heater core. For this reason it is recommended that both hose connections (or at least the return hose) be positioned "up". The larger **CLAH15000B** has two 1/4" mounting holes on each flange.

The smaller **CLAH7500E** has several mounting holes on each flange accessible between the fan blades. A standard AN-4 bolt head should provide adequate clearance for fan rotation. (The fans blow air through the heater from the back.)

(**Product Support**: Canadian Light Amphibians Bus: 705 481-1817 Cell: 705 279-5243 SeaReyCanada@gmail.com)