

CLA Aircraft Cockpit Heaters

- Light weight aluminum and thermoplastic construction
- 12v, 1.8 amp (two 70,000 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.
- High efficiency aluminum shroud.
- Double mounting flange.
- Accepts 3/8" H9800 or 5/8" H15000 heater hose. (*not for air-cooled engines*)

Model CLAH9800A
9,800 BTU
11 1/4" w x 7" h x 2 1/4" d
Hose barbs accept 3/8" hose
Only 2.6 lbs.

Model CLAH15000C (right)
15,000 BTU
11" 1/4" w x 7 1/4" h x 3 1/8" d *
Incl. 90 degree brass 5/8" hose fittings
Only 3.6 lbs.

* H15000 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.)



CLA Cockpit Heater Installation

Hose Barbs & Heater Hose:

H15000 Heaters are supplied 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. H9800 Heaters come with pre-installed hose barb fittings for 3/8" ID heater hose. Heater hose 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 cores have wide dispersion air channels. Air is pushed by the two fans through the core. An aluminum shroud contains and directs the air. Heater effectiveness can be further increased by removing cockpit drafts and increasing coolant temperature (by restricting airflow through the engine radiator housing.) An in-line thermostat in the 1" radiator hose could also be installed after the "T" in the coolant flow from the engine.

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". Both heaters have two 1/4" mounting holes on each flange.