

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

Number SA02049AK

This Certificate issued to Airglas, Inc.  
3500 O'Malley Rd.  
Anchorage, AK 99507

certifies that the change in the type design for the following product with the limitations and conditions thereof as specified herein meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product Type Certificate Number:

\* See attached FAA Approved Model List

Make:

(AML) No SA02049AK for list of approved airplane models and applicable airworthiness regulations

Model:

Description of Type Design Change: Fabrication and installation of Airglas Engineering Co., Inc. cargo pod kit models LC18 or LC18H or cargo pod/belly tank kit and auxiliary fuel transfer system models LTC18 or LTC18WB in accordance with Airglas, Inc. Master Drawing List LTC18/LC18, Rev. C, dated June 20, 2011, or later FAA approved revision.

Limitations and Conditions:

- 1) Airplanes incorporating this design change must be operated in the Normal Category only.
- 2) Landplanes and skiplanes incorporating this design change must be equipped with wheel/tire or ski installations which position the main landing gear axle centerlines at least 9 3/8 inches above the ground or bottoms of the skis.
- 3) Piper PA-18A "150" and PA-18AS "150" airplanes incorporating this design change must have cabin floorboards and rear seat installation modified to PA-18 "150" or PA-18S "150" configuration, in accordance with FAA approved data.
- 4) Compatibility of this design change with previously approved modifications must be determined by the installer.

(Limitations and Conditions continued on page 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 05, 1995

Date reissued: June 30, 2000; August 20, 2008

Date of issuance: April 19, 1996

Date amended: September 24, 1998;  
August 20, 2008; August 8, 2011



By direction of the Administrator

*August A. Asay*  
(Signature)  
August A. Asay

Manager, Anchorage Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

SA02049AK

*Limitations and Conditions:* (Continued)

- 5) This installation requires an FAA approved Airplane Flight Manual Supplement (AFMS). See attached FAA Approved Model List No. SA02049AK to determine the required AFMS for the specific Aircraft Make/Model and Configuration.
- 6) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.
- 7) For Instructions for Continued Airworthiness, refer to Airglas, Inc. Installation, Maintenance and Instructions for Continued Airworthiness, LC18/LTC18-105, Revision A, dated June 20, 2011, or later FAA approved revision.

-----END-----

**SAMPLE**

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

|  |  |  |  |                         |                  |
|--|--|--|--|-------------------------|------------------|
| <b>Airglas, Inc.</b>                                     |  | <b>FAA Approved Model List (AML)</b><br>No. SA02049AK  |  | <b>Revision History</b> |                  |
| <b>3500 O'Malley Rd.<br/>Anchorage, Alaska<br/>99507</b> |  | <i>Description of type design change:</i><br><b>Configuration 1: Installation of Airglas, Inc. Model LTC18 Cargo pod/belly tank kit and auxiliary fuel transfer system.</b><br><b>Configuration 2: Installation of Airglas, Inc. Model LC18 Cargo pod kit.</b> |  | <b>Rev. Level</b>       | <b>Rev. Date</b> |
|  |  |  |  | None                    | 08/18/2008       |
|  |  |  |  | A                       | 08/08/2011       |
|  |  |  |  | B                       | 10/28/2011       |
|  |  |  |  |                         |                  |
|  |  |  |  |                         |                  |

| Make / Model   | TCDS     | Certification Basis | Configuration 1: LTC18/LTC18-1214<br>AFMS | Configuration 2: LC18/LC18H/LC18-1214<br>AFMS |
|--|----------|---------------------|---|---|
| Piper: PA-18<br>"150", PA-18A<br>"150"                               | 1A2      | CAR3                | AE9S-4FM                                  | AE01-1FM                                      |
| Piper: PA-18S<br>"150", PA-18AS<br>"150"                             | 1A2      | CAR3                | AE9S-4FM                                  | AE01-1FM                                      |
| Cub Crafters:<br>CC18-180, CC18-180A                                 | A00006SE | 14 CFR part 23      | AE9S-4FM                                  | AE01-1FM                                      |
| FS 2003 Corp.<br>(Piper) PA-12                                       | A-780    | CAR3                | AE11-1FM Landplane                        | AE01-1FM                                      |
| FS 2003 Corp.<br>(Piper) PA-12S                                      | A-780    | CAR3                | AE11-1FM Seaplane                         | AE01-1FM                                      |
| FS 2002 Corp.<br>(Piper) PA-14                                       | A-797    | CAR3                | AE11-1FM Landplane                        | AE01-1FM                                      |
| Super 18 LLC:<br>S-18-180  | A00003AK | 14 CFR part 23      | Not Approved                              | AE01-1FM                                      |
| Sky International<br>Inc.: A-1, A-1A,<br>A-1B, A-1C-180,<br>A-1C-200 | A22NM    | 14 CFR part 23      | Not Approved                              | AE01-1FM                                      |

FAA Approved:   
 Manager, Anchorage Aircraft Certification Office  
 Federal Aviation Administration

Date: **OCT 28 2011**