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Document No: AE12-1FM  
Date December 12, 2017  
Revision: (-)

**DOCUMENT AE12-1FM**

FAA-APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT  
FOR  
AIRPLANES EQUIPPED WITH  
AIRGLAS **LC18XL** CARGO POD

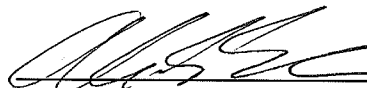
Registration Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Approved Model List Supplemental Type Certificate SA02494AK. This supplement must be attached to the Approved Airplane Flight Manual and must be carried in the airplane when the Airglas **LC18XL** cargo pod is installed in accordance with STC SA02494AK.

The information contained in this document supplements or supersedes the listed model aircraft manuals and applicable appendices only in those areas listed. For limitations, procedures, and performance information not contained in this supplement, consult the basic Airplane Flight Manual.

FAA Approved:



Date: **DEC 12 2017**

For: **Manager, Northwest Flight Test Section, AIR-715**  
**Federal Aviation Administration**  
**Seattle, WA**

LOG OF REVISIONS

<b>REV No.</b>	<b>Description of Changes</b>	<b>Date</b>	<b>FAA Approved</b>
(-)	Original Document	12/12/2017	(See Cover)

## SECTION I. General

This airplane is equipped with an Airglas, Inc., LC18XL cargo pod. The cargo compartment can hold up to 175 lbs. The LC18XL pod is belly-mounted to the fuselage aft of the main landing gear using stainless steel clamps, brackets, and straps. The pod reduces the landplane effective ground clearance with this installation. Ground operations should be conducted with this reduction accounted for. The actual minimum ground clearance of the pod will vary with tire size, inflation pressure, airplane loading, gear design, and ground roughness. **Use Caution when selecting a landing site as ground clearance is reduced.**

### WARNING

The cargo pod is not designed to resist the effects of detonating explosives, bullets discharged from loaded firearms, or other high-energy impacts. Exercise extreme caution when selecting items to be carried in the cargo compartment.

## SECTION II. Limitations

1. The Never Exceed Speed ( $V_{ne}$ ) with the pod installed is 138 mph IAS (red radial line on airspeed indicator).
2. The maximum weight that can be carried in the cargo compartment of the pod is limited to 175 lbs. The maximum weight in the compartment aft of the side door opening is limited to 95 lbs. Flight not permitted with door open.
3. Only normal category operations approved with Airglas pod installed, spins are prohibited.
4. Placards : The following placards are added:

DO NOT EXCEED **138 MPH IAS**  
WITH AIRGLAS POD INSTALLED

Place Airspeed Restriction Placard on instrument panel immediately adjacent to Airspeed Indicator and **in full view of pilot.**

175 LBS. MAXIMUM BAGGAGE  
BAGGAGE LOCATED AFT OF THE SIDE DOOR OPENING  
IS LIMITED TO 95 LBS.  
WARNING-  
FLIGHT NOT PERMITTED WITH DOOR OPEN

located on the door of the cargo pod

## SECTION II. Limitations (Continued)

**ONLY NORMAL CATEGORY OPERATIONS APPROVED  
WITH AIRGLAS POD INSTALLED  
SPINS ARE PROHIBITED**

Place Operations Placard on instrument panel **in full view of pilot.**

5. Instrument Markings:

The airspeed indicator is marked as follows:  
The red radial line is located at 138 mph.

**SECTION III. Emergency Procedures**

1. NO CHANGE

**SECTION IV. Normal Procedures**

1. PREFLIGHT INSPECTION
  - a. (Right Side) Attaching Hardware/Straps -- Secure
  - b. (Left Side) Attaching Hardware/Straps -- Secure
  - c. Pod cargo secured to prevent load shifting.
  - d. Pod Cargo Door -- Hinge secure and door closed and latched.
2. LANDING
  - a. The landing site should be free of large rocks or other obstacles.

**SECTION V. Performance Information**

1. CLIMB Climb performance is unaffected by this modification.
2. CRUISE Cruise performance is unchanged by this modification.

**SECTION VI. Weight and Balance/Equipment List**

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The equipment added to this airplane by this modification consists of the LC18XL. Because the weight of the pod varies slightly from one production article to another, the empty weight of a complete installation may vary slightly. See the airplane's current weight and balance report for exact weight and balance information. The empty CG of the cargo pod is located at 41.5 inches aft of the pod forward lip, but the arm of the cargo carried in the compartment may be variable forward or aft of that point depending on the weights and locations of the individual items carried. The actual arm of the pod's cargo must be determined when computing the airplane's weight and balance for each flight during which cargo is to be carried. The pilot must calculate the load arm from the datum by measuring or other suitable means.

## **SECTION VII. Handling, Servicing and Maintenance**

All handling procedures for this modification are standard. The LC18 series cargo pod should be installed, serviced, maintained, and inspected for continued airworthiness in accordance with the LC18XL-105 Installation, Maintenance and ICA dated October 30, 2017 or later FAA-approved revision.

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