

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

*Number* SA2628WE

*This certificate issued to* Alpha Aviation, Inc.  
1500 E Main St  
Owatonna, MN 55060

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*  
(See Type Certificate Data Sheet No. A-787 for complete certification basis)

*Original Product - Type Certificate Number :* A-787  
*Make :* Univair Aircraft Corporation  
*Model :* 415-D  
Normal Category Landplane Only

*Description of Type Design Change:*

Installation of Continental 0-200-A engine, McCauley 1A101-DCM 6948 propeller, electric fuel transfer pump and associated changes in accordance with Towns Aviation Service, Inc. Installation Instructions Number TAS 415 dated June 27, 1973, or later FAA approved revisions.

*Limitations and Conditions:*

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. Towns Aviation Service, Inc. Airplane Flight Manual Supplement dated February 25, 1974, or later FAA approved revision is required.
3. A copy of this certificate or later FAA approved revision must be maintained as part of the permanent records for the modified aircraft.
4. 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.

(See continuation sheet 3 of 4)

*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 01, 1972

*Date of issuance :* January 22, 1973

*Date reissued :* October 14, 1983; April 08, 1988;  
March 19, 2003; January 30, 2007;  
June 26, 2009; June 10, 2016

*Date amended :* February 25, 1974



*By direction of the Administrator*

**Original signed by:**  
**Gregory J. Michalik**

(Signature)

Karol Mordasiewicz  
Manager, Airframe & Administrative Branch  
Chicago 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)

*Number*

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

*Number* SA2628WE

Date Reissued: June 10, 2016

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2628WE

The conditions and limitations of Aircraft Specification No. A-787 apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA2628WE, prescribes conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this Addendum shall be maintained as part of the modified aircraft permanent records.

I – Model Univair 415-D (Landplane Only, Normal Category), as modified by STC SA2628WE

Engine:	Continental 0-200-A
*Engine Limits:	For all operations: 2750 RPM (100 HP)
Fuel:	80/87 Minimum Grade Aviation Gasoline
Propeller:	McCauley 1A101/DCM 6948 Diameter: 69 inches Maximum 69 inches Minimum Static RPM 2450 Maximum 2350 Minimum
*Powerplant Instrument Markings:	Tachometer: 2750 RPM (Red Line) 2200-2750 RPM (Green Arc) Oil Temperature: 240°F (Red Line) 100°F – 240°F (Green Arc) Oil Pressure 10 psi. (Red Line) 60 psi. (Red Line) 30-60 psi. (Green Arc) 10-30 psi. (Yellow Arc)
C.G. Range:	(+26.8) to (+30.4)
Oil Capacity:	6 quarts (-14.0)
Certification Basis:	Same as specified by Aircraft Specification No. A-787.
Required Equipment:	In addition to the equipment applicable and required by Aircraft Specification No. A-787, the equipment specified by Towns Aviation Service, Inc. Installation Instructions dated June 27, 1973, Revision A, dated February 25, 1974, or later FAA approved revisions, must be installed when the aircraft is modified by incorporation of this STC.  Towns Aviation Service, Inc. FAA Approved AFM Supplement dated February 25, 1974, or later FAA approved revisions, is required.

Note 1. Current Weight and Balance Report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in the aircraft.

*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  
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**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA2628WE

Date Reissued: June 26, 2009

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2628WE

Note 2. The following information must be provided to the pilot in the form of placards:

- a. On the instrument panel at the fuel transfer pump switch and at the appropriate switch position:

“FUEL TRANSFER PUMP”  
“ON” – “OFF”  
“TURN ON TO KEEP NOSE TANK FULL”

- b. At the fuel transfer pump warning light:

“FUEL TRANSFER PUMP WARNING.  
TURN FUEL TRANSFER PUMP OFF WHEN LIGHT IS ON”

- c. On the instrument panel in full view of the pilot:

“DO NOT TURN ALTERNATOR OFF IN FLIGHT EXCEPT IN AN EMERGENCY”

- d. At the alternator circuit breaker:

“ALTERNATOR – 50 AMPS”

- e. At the oil tank filler cap:

“OIL CAPACITY 6 QUARTS”  
“USE CONTINENTAL SPECIFICATION MHS – 24 OIL ONLY”

- f. At the fuel transfer pump fuse:

“FUEL TRANSFER PUMP – 10A”

\*In addition to the placards specified above, the operating limitations indicated by an asterisk on this STC Addendum must also be displayed by permanent markings.

...END...