

# THERMAL MANAGEMENT

## DISRUPTING THE THERMAL MANAGEMENT MARKET WITH OUR CONFORMAL HEAT EXCHANGER

### WHY UNISON - ONE OPTIMIZED SOLUTION

We at Unison, a GE wholly owned subsidiary, are working on innovative technology which offers thermal management solutions with broad installation flexibility.

Our conformal surface heat exchanger utilizes integrated fins to improve performance over brazed designs for air cooled oil cooling. Unison's alloys with higher heat transfer coefficients and robust design allows for a lower weight solution, and limited weld joints and no brazing provides high resistance to pressure pulsation and pump ripple. In addition, the surface mount design greatly reduces air flow constriction, when compared with traditional radiator-type coolers. Our thermal management products have increased reliability as there are limited weld points thus eliminating multiple brazed interfaces.

#### Benefits over Traditional

##### Designs:

- Reduced weight
- More fuel savings
- Increased reliability



### QUICK FACTS

- Unison is the leading global supplier of complex electrical & mechanical systems and components for gas turbine engines
- Every 2 seconds, an aircraft with Unison technology takes off
- Unison is a global company, employing more than 2,000 team members
- Unison has 5 major manufacturing locations as well as engineering centers and FAA-certified repair stations globally



# APPLICATIONS & PLATFORMS

## STRONG PEDIGREE ACROSS BUSINESS AND GENERAL AVIATION AND COMMERCIAL PLATFORMS

With thousands of surface coolers in service and more than 20 million flight hours, Unison has a strong presence across business, general aviation and commercial platforms with multiple fin types.

### VARIATION OF FIN TYPES

Unison's custom fin applications allow for tailored cooler and fin design to meet every customers' need relative to heat transfer, pressure drop, and packaging requirements.



## MULTIPLE PLATFORMS

### BUSINESS JET

PASSPORT 20 – BOMBARDIER GLOBAL 7000/8000

### NARROW BODIED AIRCRAFT

LEAP1B – B737MAX

### WIDE BODIED AIRCRAFT

GENX1B – B787

GE9X – B777X



© 2020 Unison — All rights reserved.

Unison reserves the rights to make changes in age certifications and features shown herein, of discontinuing the product description at any time without notice of obligation. Contact your Unison representative for the most current information. Unison is a trademark of GE and Unison Industries, a division of GE Aviation.

### WHY UNISON?

As a global leader in aviation performance solutions, we have the products and experience to solve your toughest aviation problems.

To learn more our team is ready to help! Contact us for additional information:



Contact.Us@UnisonIndustries.com



Visit us at [www.UnisonIndustries.com](http://www.UnisonIndustries.com)



Call your Unison sales representative

