### HEAT EXCHANGERS FOR MILITARY APPLICATIONS





COILS / INDUSTRIAL HEAT EXCHANGERS / NUCLEAR PRODUCTS

### **Overview**

#### Certifications



ASME U & UM Stamp



NAVSEA Tech Pub 278, Welding



AWS Certified Brazers



ASNT Inspection Level I, II, III

#### **Segments & Applications**

#### Segments

Aircraft Vessels & Systems Land Based Vessels & Systems / Ground Vehicles Marine Vessels & Systems Supply Chain & Logistics

#### Applications

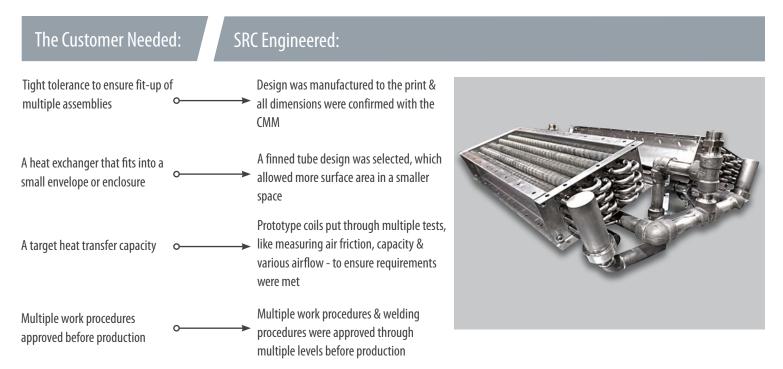
Compartment Coolers Electronics Cooling Environmental Control Units Equipment Storage & Dehumidification Food Storage Heat Recovery Modular & Fixed Refrigeration Systems Transformer Cooling

#### **Support Capabilities**

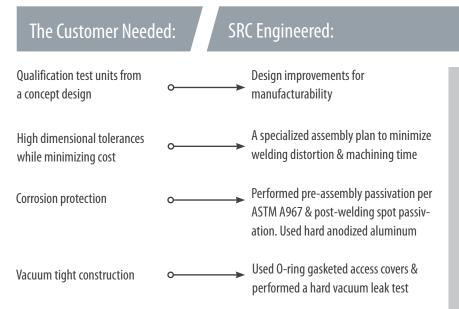
Controlled Access / NOFORN Document Control Wind Tunnel Test Lab

## **Case Studies**

### **Cooling Coil for Marine Vessel**



#### **Water Coil for Marine Vessel**

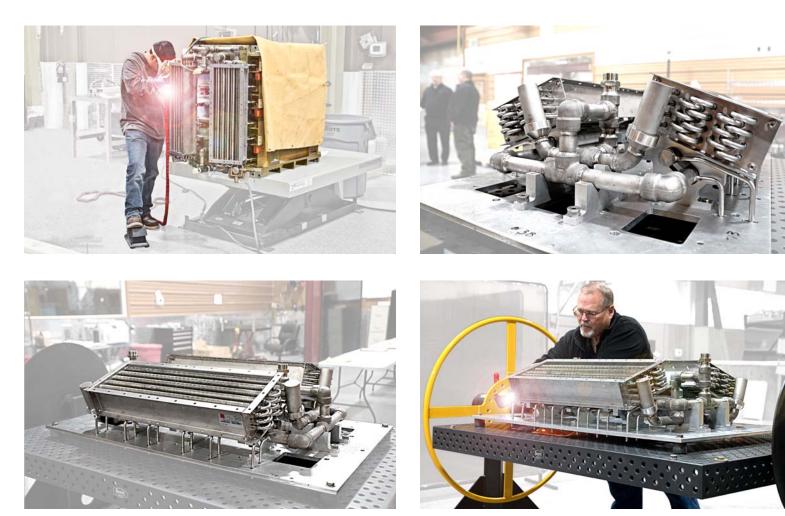




# Manufacturing Capabilities

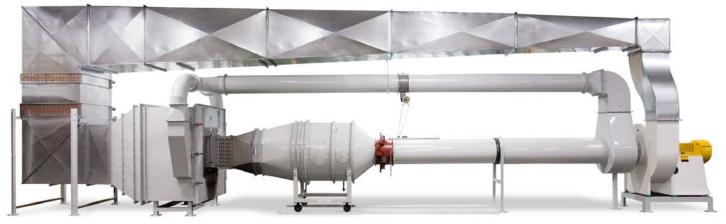
#### **Designated Manufacturing Space with Controlled Access**

5,000 square feet of manufacturing space in our Phoenix, AZ facility provides an environmentally controlled room for the manufacturing of NAVSEA certified products.



### **Test Lab Wind Tunnel**

Located in Super Radiator Coils Virginia facility is the state-of-the-art wind tunnel test lab. This facility is capable of handling a wide range of airflows, temperatures and fluids providing engineers with a comprehensive understanding of heat exchanger performance.



Wind Tunnel shown Pre-Insulation



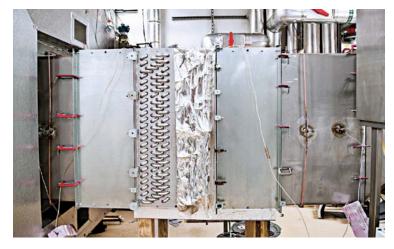
Wind Tunnel with Insulation



Airflow from 100 - 8,500 cubic feet per minute (0.05 - 4.00 m3/s)



Humidity from 20%-95%



Wind Tunnel with Test Coil



Air temperature from 23°-140°F (-5° C – 60° C) Entering Water temperatures up to 180°F (82°C) Entering Glycol temperatures range from 20°F to 200°F (-6°C – 93°C)



Separate fluid testing loops for: Water, Glycol, Oil, Steam, Refrigerants, and Other Fluids

#### **Condensers / Evaporators / Fluid**

| Tube Diameter | Tube or Fin<br>Material | Aluminum | Copper | Cupro-Nickel<br>90/10 & 70/30 | Carbon Steel | Stainless Steel<br>304 & 316 |
|---------------|-------------------------|----------|--------|-------------------------------|--------------|------------------------------|
| 5mm           | Tube                    |          | •      |                               |              |                              |
|               | Fin                     |          |        |                               |              |                              |
| 5/16"         | Tube                    |          |        |                               |              |                              |
|               | Fin                     |          |        |                               |              |                              |
| 3/8"          | Tube                    |          |        |                               |              |                              |
|               | Fin                     |          | •      |                               |              |                              |
| 1/2"          | Tube                    |          | •      | •                             | •            |                              |
|               | Fin                     | •        | •      |                               | •            |                              |
| 5/8"          | Tube                    | •        |        | •                             | •            |                              |
|               | Fin                     |          |        |                               | •            |                              |
| 7/8"          | Tube                    | •        | •      | •                             | •            | •                            |
|               | Fin                     | •        | •      |                               | •            | •                            |
| 1"            | Tube                    |          | •      |                               | •            |                              |
|               | Fin                     | •        | •      |                               | •            |                              |

#### Steam / Steam Distributing

| Tube Diameter | Tube or Fin<br>Material | Aluminum | Copper | Cupro-Nickel<br>90/10 & 70/30 | Carbon Steel | Stainless Steel<br>304 & 316 |
|---------------|-------------------------|----------|--------|-------------------------------|--------------|------------------------------|
| 5/8"          | Tube                    |          | •      |                               | •            |                              |
|               | Fin                     | •        | •      |                               | •            |                              |
| 7/8"          | Tube                    |          | •      |                               | •            |                              |
|               | Fin                     |          | •      |                               | •            |                              |
| 1"            | Tube                    |          | •      |                               | •            |                              |
|               | Fin                     |          |        |                               | •            |                              |

## **SRC Facilities**



Chaska, MN





Richmond, VA

All SRC facilities are ISO 9001:2015 certified



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