

Modine Manufacturing Company



Modine Overview

A global leader in thermal management technology and solutions

- Founded in 1916 in Racine, WI
- FY'13 revenues of \$1.4 billion
- Specializes in thermal management systems and components
- Creates highly engineered heating and cooling technology and solutions
- Provides products for multiple markets
 - Original Equipment heat exchangers
 - Light, medium and heavy-duty vehicles
 - Off-highway and industrial equipment
 - HVAC and Refrigeration Coils
 - Heating, ventilation and air conditioning equipment
- Employs approximately 6,600 people at 30 facilities in 16 countries



Modine's 96 Year History

1916 - 1929

Modine is founded by A.B. Modine in 1916



A.B. Modine invents the unit heater by combining an automotive radiator, a fan and steam pipes



The Spirex radiator is patented and Modine's influence in the transportation industry grows

Ford makes the Turbotube radiator standard on all Model Ts. Modine becomes a publicly held company

1930 - 1949

Modine moves to current site in Racine, WI

Vehicular wind tunnel built in 1941



Modine begins manufacturing aftercoolers for the P-51 Mustang fighter plane



1950 - 1969

Company introduces "Airditioner" a/c unit for residential and non-residential applications

Began producing all-aluminum, brazed a/c coils for cars and trucks

Heating division introduces a line of electric unit heaters

Modine begins manufacturing rooftop a/c and unit ventilators

Buena Vista, VA, home of the Atherion, manufacturing plant opens



1970 - 1989

Weatherproof duct furnaces are introduced

Modine introduces the PF™ (parallel flow) condenser



West Kingston, RI, plant acquired and production begins on unitary products



1990 - present

Modine acquires Langerer & Reich and forms Modine Europe

New multi-million dollar Tech Center opens in Racine, WI

Modine acquires Airedale, an international leader in a/c products



The Effinity^{®3}™ launches, the most efficient gas-fired unit heater in North America



Modine introduces the Atherion™



Modine acquires assets of Geofinity Manufacturing, and introduces Modine Geothermal



Commercial Products Group Vision

We will be recognized as the **most trusted brand** in HVAC – providing integrated thermal solutions, differentiated through innovation

- Recognized as the **experts** in our industry
 - Excellent products and support
 - Great business partner
 - Easy to do business with

RAISE YOUR COMFORT LEVEL.



Commercial Products Group

Integrated Thermal Solutions differentiated through Innovation

Commercial Heating



Geothermal Heat Pumps



Commercial Ventilation



RAISE YOUR COMFORT LEVEL.

MODINE
APPLIED THERMAL INNOVATION™

Data Center Cooling



Airedale
APPLIED THERMAL INNOVATION

K-12 School Cooling



Training



Modine University

Est. 2013



- **Classes to cover all of Modine's HVAC products:**
 - Packaged Ventilation
 - Applied Products
 - School Systems
 - Unit Heaters
 - Geothermal
- **Partnership with Gateway Technical College**
 - One of the first geothermal technical college training in U.S.
 - "Seminar" training at Modine
 - "Hands-on" training at Gateway

Attendees are trained to understand the ENTIRE process, not just equipment



Training



Modine University

Est. 2013



Product Development and Validation

- 105,000+ ft² Technology Center
 - Ability to replicate climactic conditions anywhere on earth
 - ETL Satellite Certification
 - AHRI 340/360
 - AHRI 390
 - CSA C746-06
 - ANSI/AHRI/ASHRAE ISO 13256-1
 - ANSI/AHRI/ASHRAE ISO 13256-2
 - ANSI Z83.8 / CSA 2.6
 - ANSI Z21.47 / CSA 2.3
 - ANSI Z83.20 / CSA 2.34
 - HVAC products are tested in all labs
 - Chemical & Metallurgical Lab
 - Refrigeration Lab
 - 2 Wind Tunnels
 - 3 Climactic Chambers
 - Heating Lab
 - Specialized HVAC Lab
 - Semi Anechoic Sound Chamber

