



**LC** Series



## AIR-COOLED CONDENSER CHILLERS



### Features:

- Air-cooled condenser chillers with capacities from 5-54 Tons
- Load matching 10-100% variable capacity R-410A scroll compressors
- Shell and tube or brazed plate heat exchangers
- Factory engineered and installed pumping packages
- Hinged service access doors with lockable handles
- Labeled controls components with color-coded wiring that matches the unit wiring diagram included in the control compartment
- Factory installed DDC controller compatible with BACnet®, Modbus®, Johnson N2™ and LonTalk®
- Variable speed condenser fans on all units

Application Flexibility  
Minimizes Installation Time and Reduces Cost

◦ *Factory Installed Pumping Packages*

◦ *Variable Capacity Scroll Compressors*

◦ *Easy to Install and Service*

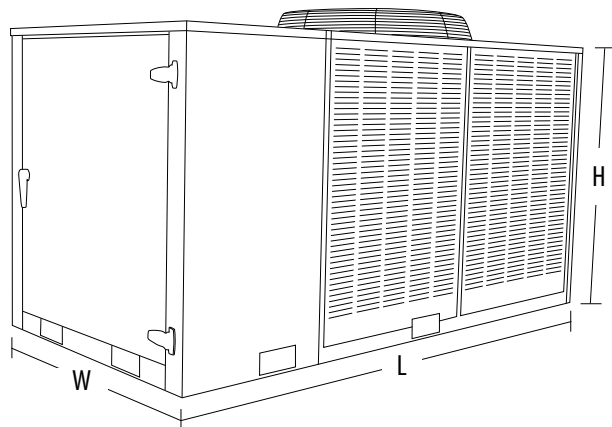
◦ *Factory Installed Controls*

# LC Series Air-Cooled Chillers

*AAON LC Series chillers are designed for performance and serviceability. The chiller can be provided with factory engineered and installed pumping packages, eliminating the need for a mechanical room. For improved part load efficiency and consistent leaving water temperature LC Series chillers include variable capacity scroll compressors. Each LC Series chiller is factory tested to insure proper operation in the field.*

## Superior Features

- 10-100% variable capacity R-410A scroll compressors allow for load matching cooling.
- Access doors with stainless steel hinges and quarter turn, zinc cast, lockable handles provide reliability and make the unit easily serviceable.
- Control and compressor service compartment is isolated from the air stream for easy service and maintenance.
- Rigid base pan design with forklift slots for at the job site handling.
- Corrosion resistant paint exceeds a 1,000 hour salt spray test - twice the industry standard of 500 hours.
- Louvered condenser coil guards protect the coils.
- Completely factory assembled, piped and wired.
- Refrigerant circuits are provided with liquid line filter dryers and suction and liquid line service valves.
- Run test report, color-coded wiring diagram and Installation, Operation and Maintenance manual with startup form are provided in the control compartment.
- Scroll compressors with crank case heaters are rubber isolation mounted for quiet operation.
- Shell and tube or brazed plate heat exchangers provide energy efficient cooling.
- Variable speed condenser fans create a wider ambient temperature operating range, increase part load efficiency, and minimize radiated sound.



## Premier Options

- Polymer e-coated condenser coils are available to extend the life of the coils and protect them in corrosive environments.
- Multiple factory installed pumping packages which save interior mechanical room building space.
- Flooded condenser and variable speed condenser fan head pressure control allows cooling at low ambient temperatures.
- Glycol chillers for refrigeration applications.
- 5 year non-prorated compressor warranty.

## Air-Cooled Condensers

Coils are constructed of copper tubing mechanically bonded to aluminum fins. Flat coil design allows the coils to be easily cleaned because they do not include bends, which can trap dirt and debris and can reduce the efficiency of the unit. In addition, the condenser coils are protected by louvered coil guards.

## Heat Exchangers

Factory installed and insulated shell and tube heat exchangers and factory installed and insulated brazed plated heat exchangers are available with LC Series chillers.



Factory Installed Pumping Package

## Factory Installed Pumping Packages

Pumping packages which include a pump, butterfly valves, strainers, ball valves, combination valve, and inlet air purge are available. Victaulic piping and fittings are provided in all LC Series chillers. AAONEcat32™ selection software allows quick and easy selection of proper pumping package components and includes pump performance curves and piping diagram.



Control and compressor service compartment reduces installation and service time.

## Variable Capacity Scroll Compressors

All LC Series chillers include 10-100% variable capacity scroll compressors. With these compressors an LC Series chiller can provide consistent leaving water temperature at full and part load. During part load operation, reducing compressor capacity save system operating costs. The low turndown capacity also minimizes the loop volume required to maintain a stable setpoint temperature.

LC Model	Modulation	Compressors/ Circuits	Width	Height	Length	
005	10-100%	2/2	42	45	55	
006						
007						
008			44	50	86	
012						
015						
019						
021			4/2	78	59	105
026						
027						
029	72	150				
038						
047						
054						
	5-100%			73		

All dimensions are in inches.

**LC** Series  
Air-Cooled Chillers

# AAON Environmentally Friendly HVAC Product Family

**Custom & Cataloged  
Air Handling Units** ■ .....  
(800-200,000+ cfm)

**Condensers & Condensing Units** ■ .....  
(2-230 tons)

**Chillers (Air-Cooled, Evaporative-  
Cooled, Heat Pumps)** ■ .....  
(5-365 tons)

**Rooftop Units** ■ .....  
(2-230 tons)

**Outdoor Equipment Rooms** ■ .....  
(Chillers, Boilers & Pumps)

**Self Contained Units** ■ .....  
(2-70 tons)

**Residential Units** ■ .....  
(2-5 tons)

**Geothermal & WSHP Units** ■ .....  
(2-230 tons)

**Air-Source Heat Pumps** ■ .....  
(2-230 tons)

## Heating and Cooling *for...*

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**Convenience Stores**  
**Health Clubs**  
**Healthcare Facilities**  
**Homes**  
**Lodgings**  
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**Office Buildings**  
**Restaurants**  
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