



LC Series



AIR-COOLED CONDENSER CHILLERS



Features:

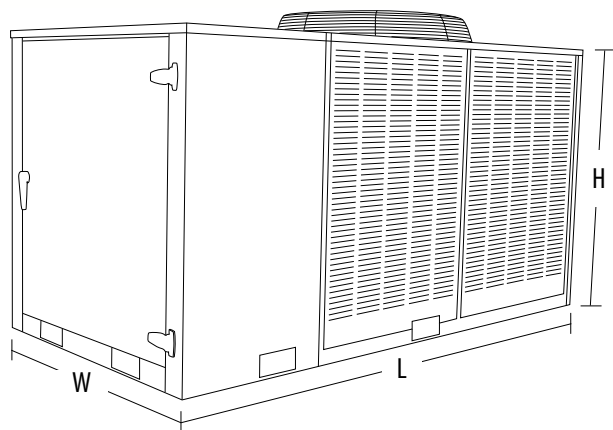
- Air-cooled condenser chillers with capacities from 5-54 Tons
- High efficiency modulating capacity R-410A scroll compressors
- Shell & tube or brazed plate heat exchangers
- Factory engineered and installed pumping packages
- Hinged service access doors with lockable handles
- Labeled components for quick and easy installation
- Labeled controls components with color-coded wiring that matches the unit wiring diagram included in the controls compartment
- Factory installed DDC controller compatible with BACnet®, Modbus®, Johnson N2 and LonTalk®

Application Flexibility
Minimizes Installation Time and Reduces Cost

- *Factory Installed Pumping Packages*
- *Modulating Capacity Scroll Compressors*
- *Easy to Install and Service*
- *Factory Installed Controls*

LC Series Air-Cooled Chillers

The AAON LC Series chiller was 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 modulating capacity scroll compressors. Each LC Series chiller is factory tested to insure proper operation in the field.



Superior Features

- 10-100% modulating 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.
- Controls 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 controls access compartment.
- Scroll compressors with crank case heaters are rubber isolation mounted for quiet operation.
- Shell & tube or brazed plate heat exchangers provide energy efficient cooling.

Premier Options

- Polymer e-coated condenser coils available to extend the life of the coils and protect them in corrosive environments.
- Multiple factory installed pumping packages which save interior building space, without the need for a mechanical room.
- Flooded condenser or fan cycling 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. Coils are designed for a minimum of 10°F of refrigerant sub-cooling.

Heat Exchangers

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



Factory Installed Pumping Package



Factory Installed Pressure Gauges and Shutoff Valves

Factory Installed Pumping Packages

Pumping packages which include a pump, butterfly valves, strainers, ball valves, pressure relief valves and expansion/compression tanks are available. Victaulic piping and fittings are furnished as standard throughout. AAONEcat32™ selection software allows quick and easy selection of proper pumping package components and includes pump performance curves and piping diagram.

Modulating Capacity Scroll Compressors

Available on all LC Series chillers are 10-100% modulating 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 the capacity of the compressor results in a energy usage reduction from the compressor.

LC Model	Nominal (Tons)	Compressors/Circuits	Width	Height	Length
005	4.8	2/2	42	45	55
006	6.0				
007	6.3				
008	8.1				
012	11.6		44	50	86
015	14.2				
019	18.4				
021	20.7				
026	25.5	4/2	78	59	105
027	26.0				
029	28.3			72	
038	37.3				
047	45.9		73	150	
054	52.6				

All dimensions are in inches.

AAON Chillers

AAON LC Series chillers are available from 5-54 Tons and AAON LL Series chillers are available from 35-365 Tons. Both are available with R-410A scroll compressors and factory installed pumping packages. The LL Series (35-365 Tons) is also available with a factory installed boiler package.

LC Series
Air-Cooled Chillers

AAON Environmentally Friendly HVAC Product Family

Customer Commitment – AAON encourages environmentally responsible design by incorporating many energy saving features into our superior heating and cooling products. In addition to energy efficiency, AAON also offers environmentally friendly R-410A refrigerant capability in all our cooling and heat pump equipment. As countries throughout the world phase out CFC and HCFC refrigerants, R-410A is becoming the global standard and AAON is leading the way!



Rooftop Units



Condensing Units



Air-Cooled or Evaporative-Cooled Chiller



Outdoor Air Handling Units



Indoor Air Handling Units



Boiler



Self Contained



Custom Indoor or Outdoor Air Handling Units



Defining Quality. Building Comfort.

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