ALL PRODUCTS BROCHURE
DEDICATION TO CUSTOMER SERVICE

SINCE THE FOUNDING OF AAON IN 1988, WE HAVE MAINTAINED OUR COMMITMENT TO DESIGN, DEVELOP, MANUFACTURE AND DELIVER HEATING AND COOLING PRODUCTS TO PERFORM BEYOND ALL EXPECTATIONS AND DEMONSTRATE THEIR VALUE TO OUR CUSTOMERS. AAON UTILIZES EXTENSIVE PRODUCT KNOWLEDGE AND STATE OF THE ART MANUFACTURING TO CONTINUOUSLY PROVIDE PRACTICAL HVAC PRODUCTS TO THE DYNAMIC MARKETPLACE.

**FUNCTIONALITY** — AAON equipment is designed and manufactured to meet your particular requirements. AAON Sales Representatives can review with you the options available for each particular product type. Selection from the superior features and premier options, along with your choice of controls, will ensure the equipment is tailored exactly to the job specifications.

**ENERGY EFFICIENCY** — All AAON equipment is designed with the highest energy efficiency in mind. Efficiencies are maximized for all temperature conditions rather than only rated conditions. On applicable products, energy efficient designs are utilized like evaporative-cooled condensers and factory installed energy recovery devices.

**FACTORY TESTING** — All products, without exception, are run tested for all functions. All components are checked to ensure they function properly in the finished product. The refrigerant circuit is checked for high-pressure and low-pressure readings versus the ambient conditions to assure proper performance. The heating section is completely checked, including the rate of gas flow on gas heaters. Safety devices are checked by simulation of condenser fan or supply fan failure. Test results are recorded and copies of the results are shipped with the equipment.

**EASE OF INSTALLATION** — Complete factory installation and testing of all selected features and options eliminates the uncertainties and additional cost associated with field installation of add-on components. Our quality check procedure permits quick on-site installation and startup.

**EASE OF MAINTENANCE** — The increasing cost of qualified service technicians dictates the necessity to reduce the time to service all equipment. AAON equipment is designed from concept to completion with minimum service time as a primary factor. As an example, AAON utilizes doors with full height stainless steel hinges and cast aluminum handles in all usual maintenance areas to minimize access time.

From a mechanical viewpoint, AAON designers understand the importance of accessible components to lower maintenance time and control associated cost. Readily accessible compressors and control components allow timely evaluation of service issues without delay. Color-coded wiring diagrams allow fast connection identification and analysis and thus a reduction in down time and cost. Individual components and wires are also labeled for quick circuit evaluation. The result of this AAON standard procedure is low service cost and greater unit run time.
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AAON QUICK SELECTION

Air Flow (cfm)

Nominal Cooling (tons)

Chiller/Pumps
Chiller/Boiler/Pumps
SA
SB
RL
RN
RQ

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON OFFERS AIR HANDLING UNITS IN A VARIETY OF CONFIGURATIONS TO ACCOMMODATE NEW AND REPLACEMENT APPLICATIONS. WHETHER THE NEED BE HEATING, COOLING, DEHUMIDIFICATION, FILTERING, OR VENTILATION, THE AAON AIR HANDLING UNIT PRODUCT LINE INCLUDES THE FLEXIBILITY AND QUALITY TO MEET YOUR REQUIREMENTS.
AAON M3 SERIES MODULAR INDOOR AND OUTDOOR AIR HANDLING UNITS are engineered to handle many difficult applications. Total energy recovery, 100% outside air, and special dehumidification needs are just a few of the applications AAON M3 series easily handles. Through double wall construction and ultra low leak rates, AAON M3 SERIES AIR HANDLING UNITS PROVIDE ECONOMICAL SOLUTIONS FOR COMFORT COOLING AND HEATING.

Applications
- Air handling unit with chilled water or direct expansion coils from 6,400 - 52,000 cfm.
- Heating from hot water, steam, indirect fired gas, direct fired gas and electric elements.
- Split system heat pump with air-source, water-source, or geothermal configurations.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.

Construction
- The M3 Series modular design provides easy installation at the job site. Unit modules may be factory assembled to prevent unnecessary lifting at the job site or shipped separately for job site maneuverability.
- Double wall cabinets utilize thermal breaks and closed-cell polyurethane foam to increase thermal resistance, improve air seals, inhibit microbial growth, reinforce structural integrity, and attenuate radiated sound.
- Rigid polyurethane foam panels, high quality sealing, and double wall doors save operating costs by reducing the unfiltered and unconditioned air leakage to less than 1% system cfm at 8” static pressure.
- Selectable base rail height allows for condensate trapping and eliminates the need for a costly housekeeping pad.
- Double sloped, stainless steel drain pan eliminates standing water that can support microbial growth. A stainless steel drain pan will not corrode and contaminate the air stream.

Fans and Blowers
- Fans and blowers are individually selected to match external static, sound, efficiency, and space design criteria as specified. Blowers are backward curved centrifugal plenum style. Blowers with backward curved blades are generally quieter and more efficient than forward curved blowers.
- Premium efficiency motors, direct drive systems, and variable speed fan control provide high efficiencies and significant operating cost savings.
- Supply fans, exhaust fans, and return fans are incorporated into fan arrays for redundancy, low turndown, and low noise capabilities.
Features and Options

- AAONAIRE® energy recovery is factory installed to reduce the operating expenses associated with supplying outside air to buildings. By reclaiming up to 80% of the exhaust air energy, AAONAIRE energy recovery units maintain comfortable temperatures and humidity during both cooling and heating conditions. AAONAIRE energy recovery wheels are rated to AHRI Standard 1060 and bear the AHRI Certification symbol.

- Pleated, permanent, cartridge, bag, and HEPA filters are available with or without monitoring devices to meet the building’s required indoor air quality.

- UV-C lighting is also available inside the cabinet to meet even the most stringent indoor air quality requirements while increasing system performance and longevity by eliminating mold growth on coils.

- Coils are available with polymer e-coatings, copper fins, and stainless steel casings to minimize corrosion and improve air quality.

- Direct injection, gas-to-steam, dispersion tubes, and electric humidification systems can be factory installed to save installation time and complexity at the job site.

- Modulating hot gas reheat, reclaim coils, and return air bypass can provide the precise humidity control necessary to maintain occupant comfort.

- Cabinets can have custom interior and exterior paint to enhance aesthetics while improving corrosion resistance and indoor air quality.

- Electric and hot water preheat systems can be provided to prevent hydronic coil freezing.

- Cabinet walls are available in stainless steel for superior corrosion resistance or aluminum to decrease unit weight.

- Perforated, galvanized steel sound attenuators can be installed in the air stream to eliminate operational noise.

Controls

- Unit wiring is completely factory provided with color-coded wires. Units are provided with specific, color-coded wiring diagrams. Diagrams are laminated and permanently affixed inside control compartment access door.

- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.

- Factory run test and inspection reports are included in the documentation compartment affixed to the interior of the control compartment access door.

### Specifications

<table>
<thead>
<tr>
<th>M3 Model</th>
<th>Nominal cfm</th>
<th>Width</th>
<th>Height</th>
<th>Length*</th>
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<td>054</td>
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</tr>
<tr>
<td>094</td>
<td>37,600</td>
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<td></td>
</tr>
</tbody>
</table>

*Length will vary depending on options selected.

All dimensions are in inches.

Design cfm may be 30-50% greater or less than nominal cfm.
AAON M2 SERIES MODULAR INDOOR AND OUTDOOR AIR HANDLING UNITS UTILIZE QUALITY CONSTRUCTION TO PROVIDE LOW AIR LEAKAGE, MINIMAL RADIATED NOISE, AND SERVICEABILITY. THE MODULAR CABINET DESIGN ADAPTS TO COMPLEX ENGINEERING CHALLENGES, WHILE REMAINING EASY TO INSTALL AND SERVICE.

Applications
- Air handling unit with chilled water or direct expansion coils from 1,000 - 21,600 cfm.
- Heating from hot water, steam, indirect fired gas, and electric elements.
- Split system heat pump with air-source, water-source, or geothermal configurations.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.

Construction
- The M2 Series modular design provides easy installation at the job site. Unit modules may be factory assembled to prevent unnecessary lifting at the job site or shipped separately for job site maneuverability.
- Double wall cabinets utilize thermal breaks and closed-cell polyurethane foam to increase thermal resistance, improve air seals, inhibit microbial growth, reinforce structural integrity, and attenuate radiated sound.
- Rigid polyurethane foam panels, high quality sealing, and double wall doors save operating costs by reducing the unfiltered and unconditioned air leakage to less than 1% system cfm at 6" static pressure.
- Access into fan, filter, and coil sections is quick and easy through double wall rigid polyurethane foam panels. The panels have chrome plated steel hinges and quarter turn, zinc cast, lockable handles for effortless entry and removable hinge pins for access in compact spaces.
- Selectable base rail height allows for condensate trapping and eliminates the need for a costly housekeeping pad.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Fans and blowers are individually selected to match external static, sound, efficiency, and space design criteria as specified. Blowers are backward curved centrifugal plenum style. Blowers with backward curved blades are generally quieter and more efficient than forward curved blowers.
- Premium efficiency motors, direct drive systems, and variable speed fan control provide the highest available efficiencies and operating cost savings.
- Electronically commutated motor driven backward curved plenum fans are available to provide precise air flow control and reduced power consumption.
- Supply fans, exhaust fans, and return fans are incorporated into fan arrays for redundancy, low turndown, and low noise capabilities.
Features and Options

- AAONAIRE energy recovery is factory installed to reduce the operating expenses associated with supplying outside air to buildings. By reclaiming up to 80% of the exhaust air energy, AAONAIRE energy recovery units maintain comfortable temperatures and humidity during both cooling and heating conditions. AAONAIRE energy recovery wheels are rated to AHRI Standard 1060 and bear the AHRI Certification symbol.
- Pleated, permanent, cartridge, bag, and HEPA filters are available with or without monitoring devices to meet the building’s required indoor air quality.
- UV-C lighting is available inside the cabinet to meet even the most stringent indoor air quality requirements while increasing system performance and longevity by eliminating mold growth on coils.
- Coils are available with polymer e-coatings, copper fins, and stainless steel casings to minimize corrosion and improve air quality.
- Modulating hot gas reheat, reclaim coils, and return air bypass can provide the precise humidity control necessary to maintain occupant comfort.
- Cabinets can have custom interior and exterior paint to enhance aesthetics while improving corrosion resistance and indoor air quality.
- Electric and hot water preheat systems can be provided to prevent hydronic coil freezing.

Controls

- Unit wiring is completely factory provided with color-coded wires. Units are provided with unit specific, color-coded wiring diagrams. Diagrams are laminated and permanently affixed inside control compartment access door.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Factory run test and inspection reports are included in the documentation compartment affixed to the interior of the control compartment access door.

### Table: M2 Model Specifications

<table>
<thead>
<tr>
<th>M2 Model</th>
<th>Nominal cfm</th>
<th>Width</th>
<th>Height</th>
<th>Length*</th>
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<tr>
<td>005</td>
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<td>50</td>
<td>32</td>
<td></td>
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<td>3,200</td>
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<td>011</td>
<td>4,400</td>
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<td>014</td>
<td>5,600</td>
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<td>018</td>
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<td>022</td>
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<td>026</td>
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<tr>
<td>036</td>
<td>14,400</td>
<td>96</td>
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<td></td>
</tr>
</tbody>
</table>

*Length may vary depending on options selected

All dimensions are in inches.
Design cfm may be 30-50% greater or less than nominal cfm.

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON SA SERIES INDOOR AIR HANDLING UNITS LEAD THE INDUSTRY IN CONSTRUCTION AND PERFORMANCE. VERTICAL CONFIGURATION, DIRECT DRIVE BACKWARD CURVED PLENUM SUPPLY FANS, AND DOUBLE WALL RIGID POLYURETHANE FOAM INSULATED CABINET CONSTRUCTION PROVIDE THE SA SERIES WITH UNMATCHED PERFORMANCE.

Applications
- Chilled water or non-compressorized DX air handling unit, from 5,300 - 27,000 cfm.
- Vertical self contained unit with a water-cooled condenser or match with a remote air-cooled condenser, from 23 - 70 tons.
- Air-source, water-source, or geothermal heat pump configurations.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water or steam heating coils allow unit to tie into a boiler system.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with full length stainless steel piano hinges and quarter turn, zinc cast, lockable handles provide improved reliability over single point hinges and plastic or sheet metal handles, and make the unit easily serviceable.
- Modular design with compact footprint makes the SA Series ideal for retrofit applications.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Spring isolated direct drive backward curved plenum fans are more energy efficient, quieter, and require less maintenance than belt driven fans.
- Single or multiple supply air connections can be factory provided from the right, left, back, or top sides of the supply fan plenum.
- VFD controlled supply fans allow precise air flow control and reduced power consumption.

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.

Custom & Cataloged Air Handling Units • www.AAON.com
Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within single compartment isolated from the air stream for ease of service and quiet operation.
- Factory run test report, wiring diagram, and Installation, Operation, and Maintenance manual with startup form are provided in the control compartment of every unit.

Features and Options
- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.

<table>
<thead>
<tr>
<th>SA Model</th>
<th>Intake</th>
<th>Nominal cfm</th>
<th>Width*</th>
<th>Height*</th>
<th>Length</th>
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<td>028</td>
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<tr>
<td>030</td>
<td>Single</td>
<td>9,000</td>
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<td>035</td>
<td>Single</td>
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</tr>
<tr>
<td>045</td>
<td>Double</td>
<td>13,500</td>
<td></td>
<td>110**</td>
<td>79</td>
</tr>
<tr>
<td>050</td>
<td>Double</td>
<td>15,000</td>
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<td>111-135 (in 4 inch increments)</td>
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<tr>
<td>055</td>
<td>Double</td>
<td>16,500</td>
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<tr>
<td>070</td>
<td>Double</td>
<td>21,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Dimensions may vary depending on options selected.
**Double intake units can be split in half for ease of installation. All dimensions are in inches. Design cfm may be 30-50% greater or less than nominal cfm.
AAON H3/V3 SERIES INDOOR AIR HANDLING UNITS are designed and engineered for a wide variety of heating, cooling, dehumidifying, filtering, and ventilating applications. AAON double wall rigid polyurethane foam panel construction and backward curved plenum blower provide a quiet, energy efficient, air handling unit.

Applications
- Air handling unit with chilled water or direct expansion coils from 450 - 10,000 cfm.
- Heating from hot water, steam, and electric elements.
- Split system heat pump configurations.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.

Construction
- The H3 Series indoor air handler is designed with an extremely low horizontal profile for overhead and low clearance installations, while the V3 Series indoor air handler is designed for small closets or mechanical rooms and narrow clearances.
- Double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-6.5. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Rigid polyurethane foam panels, high quality sealing, and double wall doors save operating costs by minimizing the unfiltered and unconditioned air leakage.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream. The drain pan connection is based on the unit’s right or left configuration for installation flexibility.
- Access into fan, filter, and coil sections is quick and easy through double wall rigid polyurethane foam panels. The panels have chrome plated steel hinges and quarter turn, lockable handles for effortless entry and removable hinge pins for access in compact spaces.

Fans and Blowers
- Variable speed fans are utilized in both direct drive and belt driven configurations to create an economical, high efficiency system that reduces initial and operating expenses.
- Fans and blowers are individually selected to match external static, sound, efficiency, and space design criteria. Blowers are backward curved centrifugal plenum style. Blowers with backward curved blades are generally quieter and more efficient than forward curved blowers.
- Electronically commutated motor driven backward curved plenum fans are available to provide precise air flow control and reduced power consumption.

Features and Options
- Backward curved fans are quiet, energy efficient and have high static pressure capabilities.

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
• Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
• Coils are available with polymer e-coatings, copper fins, and stainless steel casings to minimize corrosion and improve air quality.
• Modulating hot gas reheat can provide the precise humidity control necessary to maintain occupant comfort.
• Cabinets can have custom exterior paint to enhance aesthetics while improving corrosion resistance and indoor air quality.
• Hot water preheat systems can be provided to prevent hydronic coil freezing.
• Modulating gas heat is available on the V3 series, for heating supply air control and improved occupant comfort.
• Electric heat systems can include Silicon Controlled Rectifier (SCR) control for reduced power consumption, longer heater life, and improved occupant comfort.
• Steam distributing coils reduce the opportunity for condensation freezing.
• Factory installed mixing boxes with gear driven outside air and return air dampers allow for airside economizer free cooling.

Controls
• Unit wiring is completely factory provided with color-coded wires. Units are provided with unit specific, color-coded wiring diagrams. Diagrams are laminated and permanently affixed inside control compartment access door.
• Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
• Factory run test and inspection reports are included in the documentation compartment affixed to the interior of the control compartment access door.
• VAV and Single Zone VAV configurations to minimize operating costs.

Ease of Installation
• Air handling units are designed to fit through 36 inch wide by 80 inch tall doors for ease of installation and retrofit applications. E cabinet units may be shipped from the factory in a split configuration.

### V3 Series Vertical Air Handling Unit

- Easy service access is provided to coils, fan, filters and heater.

### H3/V3 Model

<table>
<thead>
<tr>
<th>H3/V3 Model</th>
<th>cfm</th>
<th>Width *</th>
<th>Height</th>
<th>Length*</th>
<th>Width</th>
<th>Height*</th>
<th>Length*</th>
</tr>
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<tbody>
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<td>52</td>
<td>32</td>
</tr>
<tr>
<td>C</td>
<td>1,800-4,000</td>
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<td>27</td>
<td></td>
<td>56</td>
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<td>3,000-6,000</td>
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<td></td>
<td></td>
<td>56</td>
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<td>E</td>
<td>5,200-10,000</td>
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<td>34</td>
<td>60</td>
<td>56</td>
<td>92</td>
<td>34</td>
</tr>
</tbody>
</table>

*Dimensions may vary depending on options selected. All dimensions are in inches. Design cfm may be 30-50% greater or less than nominal cfm.
AAON F1 SERIES INDOOR AIR HANDLINGS UNITS can be used for residential or light commercial applications. Durable steel construction, efficient operation, and easy service access are some of the many reasons that homeowners and light commercial customers will enjoy AAON Split Systems.

Applications
- Air handling unit with direct expansion coils from 800 - 2,000 cfm.
- Heating from hot water coils and electric elements.
- Split system heat pump configurations.

Construction
- The F1 Series indoor air handling unit is designed for multi-position applications. The unit may be positioned with a vertical (upflow) or horizontal orientation as required by the installation.
- Rigid galvanized construction and foil faced insulation provide a sturdy and dependable air handling unit that promotes indoor air quality.
- The sloped corrosion resistant drain pan eliminates standing water that can support microbial growth. The drain pan will not corrode and contaminate the air stream. The drain pan connections are positioned in multiple locations for installation flexibility.

Fans and Blowers
- Blowers are individually selected to match external static, sound, efficiency, and space design criteria.
- Variable speed fans are included to create a high efficiency system that reduces initial and operating expenses.

Features and Options
- Units are available with thermal expansion valves to simplify installation and improve reliability.
- The F1 Series air handling unit can improve occupant comfort by precisely controlling humidity through the modulating hot gas reheat system.
- Units are capable of heat pump operation to provide an energy efficient heating system.
- Indoor air quality is maintained through 1 inch filters. Filters can be easily replaced through the unit’s filter access panel.
Controls

- Unit wiring is completely factory provided with color-coded wires. Units are provided with specific unit color-coded wiring diagrams. Diagrams are laminated and permanently affixed inside control compartment access door.
- Factory run test and inspection reports are included with the unit.

### F1 Series

<table>
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*Dimensions may vary depending on options selected.

All dimensions are in inches.

Design cfm may be 30-50% greater or less than nominal cfm.

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON RL SERIES OUTDOOR AIR HANDLING UNITS SET THE STANDARD FOR LARGE COMMERCIAL OUTDOOR AIR HANDLING UNITS IN CUSTOMIZATION, PERFORMANCE, AND SERVICEABILITY. DOUBLE WALL RIGID POLYURETHANE FOAM INSULATED CABINET CONSTRUCTION AND AN ARRAY OF DRAW-THROUGH OR BLOW-THROUGH DIRECT DRIVE BACKWARD CURVED PLENUM FANS ALLOW RL SERIES UNITS TO HAVE QUIET, ENERGY EFFICIENT AIR FLOW WITH HIGH STATIC PRESSURE CAPABILITIES.

Applications
- Chilled water or non-compressorized DX air handling unit, from 6,000 - 60,000 cfm.
- Packaged rooftop unit with an air-cooled, water-cooled, or evaporative-cooled condenser, from 45 - 240 tons.
- Available as an air-source, water-source, or geothermal heat pump.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water, steam, electric and indirect/direct fired gas heating.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with full length stainless steel piano hinges and quarter turn, zinc cast, lockable handles provide improved reliability over single point hinges and plastic or sheet metal handles, and make the unit easily serviceable.
- Aluminum tread plate flooring is included in equipment access areas for improved durability and safety.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Spring isolated direct drive backward curved plenum fans are more energy efficient, quieter, and require less maintenance than belt driven fans.
- Selectable number of draw-through or blow-through direct drive backward curved plenum fans allows design flexibility for quieter applications and applications where unit uptime is critical.
- VFD controlled supply, exhaust, and return fans for precise air flow control, building pressure control, and reduced power consumption.
Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within a walk-in service compartment isolated from the air stream for ease of service and quiet operation. Service compartment can be independently heated.
- Run test report, color-coded wiring diagram, and Installation, Operation and Maintenance manual with startup form are included in control access compartment of every unit.

Features and Options
- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- High efficiency, multiple stage, gas and electric heating are available to meet job requirements.
- Factory installed, sensible or enthalpy, gear driven economizer allows for free cooling.
- Multiple high efficiency filtration options, including pleated, cartridge, or bag type, with up to a MERV 14 efficiency rating.
- Factory installed total and sensible AAONAIRE® energy recovery wheels save cooling and heating dollars. Return fans are available for high return static applications.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.

<table>
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<th>RL Model</th>
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*Dimension may vary depending on options selected.
All dimensions are in inches.
Design cfm may be 30-50% greater or less than nominal cfm.

Spring isolated direct drive backward curved plenum fans are more efficient, have higher static pressure capacities and require less maintenance than belt driven, forward curved fans.

Factory installed AAONAIRE energy recovery wheels save heating and cooling energy.
AAON RN SERIES OUTDOOR AIR HANDLING UNITS ARE ENGINEERED FOR PERFORMANCE, FLEXIBILITY, AND SERVICEABILITY. DOUBLE WALL RIGID POLYURETHANE FOAM INSULATED CABINET CONSTRUCTION AND DIRECT DRIVE BACKWARD CURVED PLENUM FANS ALLOW RN SERIES UNITS TO HAVE QUIET, ENERGY EFFICIENT AIR FLOW WITH HIGH STATIC PRESSURE CAPABILITIES. RN SERIES AIR HANDLING UNITS CAN BE MATCHED WITH AAON CONDENSING UNITS OR AN AAON CHILLER FOR A COMPLETE SYSTEM.

Applications
- Air-cooled condenser or air-source heat pump packaged DX rooftop units, 6-140 tons.
- Water-cooled condenser, water-source heat pump, or geothermal heat pump configurations.
- Chilled water or non-compressorized DX air handling units, 1,100-55,500 cfm.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water, steam, electric, and gas heating.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with full length stainless steel piano hinges and quarter turn lockable handles provide improved reliability over single point hinges and make the unit easily serviceable.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Direct drive backward curved plenum supply fans with rubber isolation mounts are more energy efficient, quieter, and require less maintenance than belt driven fans.
- VFD controlled supply, exhaust, and return fans for precise air flow control, building pressure control, and reduced power consumption.

Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within single compartment isolated from the air stream for ease of service and quiet operation.
- Run test report, color-coded wiring diagram, and Installation, Operation, and Maintenance manual with startup form are included in control access compartment of every unit.

Dimpled Gas Heat Exchanger provides corrosion resistant, energy efficient heating without the use of internal turbulators.
Features and Options

- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Modulating gas heat and SCR electric heat provide energy efficient, consistent supply air temperature heating and improved occupancy comfort.
- Factory installed, sensible or enthalpy, gear driven economizer allows for free cooling.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- Factory installed total and sensible AAONAIRE® energy recovery wheels save cooling and heating dollars.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.
- Seismically certified construction options are available to meet California OSHPD or ASCE 7-05 / ICC-ES AC 156 requirements.

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*Dimensions may vary depending on options selected.
All dimensions are in inches.
Design cfm may be 30-50% greater or less than nominal cfm.
AAON RQ SERIES OUTDOOR AIR HANDLING UNITS are engineered for performance, flexibility, and serviceability. Double wall rigid polyurethane foam insulated cabinet construction and direct drive backward curved plenum fans allow RQ series units to have quiet, energy efficient air flow with high static pressure capabilities. RQ series air handling units can be matched with AAON condensing units or an AAON chiller for a complete system.

Applications
- Air-cooled condenser or air-source heat pump packaged DX rooftop units, 2-6 tons.
- Water-cooled condenser, water-source heat pump, or geothermal heat pump configurations.
- Chilled water or non-compressorized DX air handling units, 400-3,600 cfm.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water, steam, electric, and gas heating.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with full length stainless steel piano hinges and quarter turn lockable handles provide improved reliability over single point hinges and make the unit easily serviceable.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Direct drive backward curved plenum supply fans with rubber isolation mounts are more energy efficient, quieter, and require less maintenance than belt driven fans.
- VFD controlled supply, exhaust, and return fans for precise air flow control, building pressure control, and reduced power consumption.

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*Dimensions may vary depending on options selected.
All dimensions are in inches.
Design cfm may be 30-50% greater or less than nominal cfm.
Controls

- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within single compartment isolated from the airstream for ease of service and quiet operation.
- Run test report, color-coded wiring diagram, and Installation, Operation, and Maintenance manual with startup form are included in control access compartment of every unit.

Features and Options

- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Modulating gas heat and SCR electric heat provide energy efficient, consistent supply air temperature heating and improved occupancy comfort.
- Factory installed, sensible or enthalpy, gear driven economizer allows for free cooling.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- Factory installed total and sensible AAONAIRE® energy recovery wheels save cooling and heating dollars.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.
- Seismically certified construction options are available to meet California OSHPD or ASCE 7-05 / ICC-ES AC 156 requirements.
AAON QUICK SELECTION

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON CONDENSERS AND CONDENSING UNITS

REFLECT THE PROVEN RELIABILITY AND
ENGINEERING EXCELLENCE OF THE PREMIER

CONDENSERS &
CONDENSING UNITS
(Air-Cooled, Evaporative-Cooled & Heat Pumps)

MANUFACTURER OF HEATING, COOLING, AND
DEHUMIDIFICATION PRODUCTS. ALL CONDENSERS
AND CONDENSING UNITS ARE COMPLETELY
FACTORY ASSEMBLED, PIPE, WIRE, AND
RUN TESTED. MANY OPTIONS AVAILABLE
ARE FACTORY INSTALLED TO MINIMIZE FIELD
INSTALLATION TIME AND REDUCE COST.
**Applications**

- Air-cooled or evaporative-cooled condensing unit, from 45 - 230 tons.
- Available as an air-source heat pump.
- Scroll compressors are rubber isolated and housed in enclosed walk-in service compartment for quiet operation and low radiated sound.

**Construction**

- Double wall rigid polyurethane foam panel cabinet construction makes the cabinet more rigid and resistant to damage and provides increased sound dampening.
- Access doors with full length stainless steel piano hinges and quarter turn, zinc cast, lockable handles provide improved reliability over single point hinges and plastic or sheet metal handles, and make the unit easily serviceable.
- Corrosion resistant polyurethane paint exceeds a 2,500 hour salt spray test.

**Controls**

- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Compressors and unit controls are contained within a lighted, walk-in service compartment isolated from the air stream for ease of service and quiet operation.
- Factory run test report, wiring diagram, and Installation, Operation, and Maintenance manual with startup form are provided in the control compartment of every unit.

AAON CL SERIES CONDENSING UNITS set the standard for large commercial condensing units in customization, performance and serviceability. Compressors and controls are located in an isolated walk-in service compartment isolated from the air stream for easy installation and service. Available with an air-cooled condenser or high efficiency evaporative-cooled condenser, CL SERIES UNITS are application flexible.
Features and Options

- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Factory installed AAON evaporative-cooled condenser, with desuperheater air-cooled condenser and variable frequency drive controlled fans, can be 20 - 40% more energy efficient than a comparable air-cooled condenser, can use 22 - 100% less water than a conventional evaporative-cooled condenser, and require 22 - 100% less chemical usage than a conventional evaporative-cooled condenser.
- Interior of evaporative-cooled condenser is constructed of 304 stainless steel and other non-corrosive materials. Desuperheater coils include polymer e-coating for corrosion protection.
- Factory installed, microprocessor controlled, three chemical, water treatment system is standard with an evaporative-cooled condenser saving installation and maintenance time and money.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.

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All dimensions are in inches.

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON CC SERIES CONDENSERS & CONDENSING UNITS REFLECT THE PROVEN RELIABILITY AND ENGINEERING EXCELLENCE OF THE PREMIER MANUFACTURER OF HEATING AND COOLING PRODUCTS. ALL CONDENSING UNITS ARE COMPLETELY FACTORY ASSEMBLED, PIPED, WIRED, AND RUN TESTED. MANY AVAILABLE OPTIONS ARE FACTORY INSTALLED TO MINIMIZE FIELD INSTALLATION TIME AND REDUCE COSTS.

Applications
- Air-cooled or water-cooled condensing unit or remote condenser, from 2 - 63 tons.
- Available as an air-source, water-source or geothermal heat pump.
- Variable capacity (10 - 100%) and two-step scroll compressors for load matching cooling and heat pump heating.

Construction
- Louvered condenser coil guards protect the coils from damage and debris.
- Upright slab coil design improves cleanability and ensures long lasting performance.
- Access doors with chrome plated steel piano hinges and quarter turn, zinc cast, lockable handles provide improved reliability over single point hinges and plastic or sheet metal handles, and make the unit easily serviceable.
- Service doors provide access to the compressors, unit controls, back of the condenser coils, and condenser fans.
- Corrosion resistant polyurethane paint exceeds a 1,000 hour salt spray test.
- Forkliftable base allows for quick installation.

Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Compressors and unit controls are contained within a single compartment isolated from the air stream for ease of service and quiet operation.
- Factory run test report, wiring diagram, and Installation, Operation, and Maintenance manual with startup form are provided in the control compartment of every unit.

Fans and Blowers
- ECM driven condenser fans for head pressure control, reduced power consumption and lower sound levels at off design ambient conditions.

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Features and Options

- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Seismically certified construction options are available to meet California OSHPD or ASCE 7-05 / ICC-ES AC 156 requirements.
- Flooded condenser low ambient option allows cooling operation down to 0°F.

<table>
<thead>
<tr>
<th>CC Model</th>
<th>Compressors/Circuits</th>
<th>Discharge Direction</th>
<th>Width</th>
<th>Height</th>
<th>Length</th>
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All dimensions are in inches.
AAON CB SERIES CONDENSERS & CONDENSING UNITS ARE ENGINEERED TO BE ENERGY EFFICIENT, LONG LASTING, AND EASY TO INSTALL. STANDARD FEATURES INCLUDE VARIABLE SPEED ECM DRIVEN CONDENSER FANS, TWO STEP COMPRESSION, AND A CONTINUOUS FIN CONDENSER COIL WITH LOUVERED COIL GUARD. CB SERIES CONDENSING UNITS CAN BE USED IN RESIDENTIAL AND COMMERCIAL APPLICATIONS, MATCHING WITH AAON AIR HANDLING UNITS.

Applications

- Air-cooled condensing unit or a remote air-cooled condenser, from 2 - 5 tons or 24 - 60 MBH.
- Available as an air-source heat pump.
- Two step scroll compressor, 67% and 100% capacity, includes rubber isolation mounts to minimize vibration.
- Variable capacity scroll compressor (10 - 100%) for load matching cooling and heat pump heating and improved part load efficiency.

Construction

- Wrap-around, single row condenser coil has no additional rows to trap dirt and debris between and is easier to clean than units with multi-row coils.
- Louvered condenser coil guards protect the coil from damage and debris.
- Corrosion resistant polyurethane paint exceeds a 1,000 hour salt spray test.
- Refrigerant circuit contains automatic low pressure and manual reset high pressure safety cut-outs, suction and liquid line Schrader valves, a full system charge of R-410A, and a factory provided liquid line filter drier.

Fans and Blowers

- ECM driven condenser fan provides precise air flow control and reduced power consumption while matching each capacity step of the compressor.

Controls

- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is inside the control compartment.
- Unit controls are contained within single compartment isolated from the air stream for ease of service and quiet operation.
- Factory run test report, wiring diagram, and Installation, Operation, and Maintenance manual with startup form are provided in the control compartment of every unit.
- Optional 24 VAC control circuit transformer to prevent exceeding the capacity of the air handler's control circuit transformer.
Features and Options

- Split system modulating humidity control is available to provide energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- High density foam compressor sound suppression blanket to reduce radiated noise.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Adjustable fan cycling or modulating head pressure control allow operation down to 35°F for applications that require mechanical cooling at lower ambient temperatures.

Variable capacity scroll compressors provide load matching cooling and improve part load efficiency.

<table>
<thead>
<tr>
<th>CB Model</th>
<th>Compressors/Circuits</th>
<th>Discharge Direction</th>
<th>Width</th>
<th>Height</th>
<th>Length</th>
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<tbody>
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</tbody>
</table>

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Don't see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
CHILLERS
(Air-Cooled, Evaporative-Cooled & Heat Pumps)

AAON CHILLERS PROVIDE FEATURES NEVER BEFORE OFFERED IN A PACKAGED CHILLER. ALL CHILLERS ARE AVAILABLE WITH A FACTORY INSTALLED PUMPING PACKAGE. LC SERIES CHILLERS OFFER VARIABLE PRIMARY PUMPING AND VARIABLE CAPACITY COMPRESSORS; LL SERIES CHILLERS ARE AVAILABLE WITH PRIMARY OR PRIMARY/SECONDARY PUMPING AND INCLUDE A LIGHTED, FULL HEIGHT, WALK-IN VESTIBULE TO ALLOW MAXIMUM ACCESSIBILITY FOR SERVICE AND MAINTENANCE.
AAON LL SERIES CHILLERS CONTAIN FEATURES NEVER BEFORE OFFERED IN A PACKAGED CHILLER. ALL MODELS FEATURE A LIGHTED, FULL HEIGHT, TWO-INCH THICK, FOAM INSULATED, DOUBLE WALL CABINET. THE WALK-IN COMPARTMENT CONTAINS ALL THE VITAL OPERATIONAL COMPONENTS AND ALLOWS MAXIMUM ACCESSIBILITY DURING MAINTENANCE AND ROUTINE SERVICE.

Applications

- Air-cooled condenser chillers with capacities from 35 - 345 tons and evaporative-cooled condenser chillers with capacities from 35 - 540 tons, for comfort or process cooling requirements.
- Heat pump and waterside economizer configurations can meet difficult design applications while maintaining high unit efficiencies.
- Operation in low ambient conditions is available through the factory installed variable speed condenser fans or optional low ambient control on the refrigerant system.
- Units are available with factory installed primary or primary/secondary pumping systems with either constant or variable flow configurations.

Construction

- The LL Series chiller has factory assembled and tested components, piping between pumps and the components, and wiring to accept a single-point electrical connection.
- Designed for outdoor operation, the LL Series includes a corrosion resistant paint that exceeds a 2,500 hour salt-spray test.
- Paint can be specified in a variety of colors to enhance the aesthetics of visible units.
- Compressors and controls are accessed through service vestibules that shield components and service personnel from weather and outdoor elements.
- Double wall cabinets utilize thermal breaks and closed-cell polyurethane in its rigid polyurethane foam panels to increase thermal resistance, reinforce structural integrity, and attenuate radiated sound.
- Scroll compressors are installed on structural decks and rubber isolation mounted for quiet and efficient operation.
- Factory installed, microprocessor controlled three-chemical water treatment system has chemical dispensers for evaporative-cooled designs. This water treatment system saves installation time, field engineering, and improves equipment durability.
- Hinged access doors are provided in areas subject to scheduled maintenance. Walk-in doors are constructed with stainless steel piano hinges, perimeter gaskets and zinc cast lockable handles.
- Interior of evaporative-cooled condenser is constructed of 304 stainless steel and other non-corrosive materials.
Pumps
- Pump systems can be factory installed in the LL Series chiller. This saves valuable interior building space by eliminating pumps in the indoor mechanical room.
- All pump packages include a factory installed in-line air separator, strainer, pump, and combination valve (isolation, check, and flow balancing) in the water system.
- LL Series chillers can include dualArm pumps for system for standby and parallel pump systems.

Features and Options
- Variable capacity R-410A scroll compressors, VFD controlled variable speed R-410A scroll compressors, and variable capacity oil-free magnetic bearing R-134a centrifugal compressors are available for load matching cooling capabilities and increased part load efficiency.
- Insulated shell and tube evaporators are factory installed in each unit.
- Service and control walk-in vestibule can be independently heated and/or cooled for comfort while periodic maintenance is performed on the unit.
- Factory installed option boxes increase unit space for field installed components or for increased interior working area.
- Variable speed condenser fans are available to increase unit efficiency at part-load and low ambient conditions, increase operating temperature range, and reduce sound levels.
- Low ambient control on one or all refrigeration circuits are available for mechanical cooling during decreased ambient temperatures.
- Glycol chillers for refrigeration applications.
- Polymer e-coated condenser coils can be specified to extend the life of the coils and protect them in corrosive environments.
- Optional factory installed compressor isolation valves, water system thermometers, and pressure gauges save installation time at the job site.
- Diaphragm expansion/compression tanks can be pre-engineered and factory installed.

Air-Cooled Condenser
- Air-cooled condenser is designed for quiet, energy efficient operation.
- Coils are sloped to prevent fin damage and coils facing outwards are protected by perforated metal screens.
- VFD controlled variable speed condenser fans are available for head pressure control at off-design ambient conditions.
- Flooded condenser low ambient option allows cooling operation down to 0°F.
- Polymer e-coated air-cooled condenser coils are available to extend the life of the coils and protect them in corrosive environments.

Evaporative-Cooled Condenser
- Factory installed evaporative-cooled condenser is available for ambient wet bulb condensing.
- AAON engineered evaporative-cooled condenser, with air-cooled de-superheater and VFD controlled variable speed condenser fans, uses 22-100% less water than a conventional evaporative-cooled condenser, and requires 22-100% less chemical usage than a conventional evaporative-cooled condenser.
- Interior of evaporative-cooled condenser is constructed of 304 stainless steel and other non-corrosive materials.
- De-superheater coils include polymer e-coating for corrosion protection.
- AAON evaporative-cooled condensing saves costs when compared with a water-cooled chiller system because the water treatment system is factory installed and evaporative-cooled condensing does not require field installation of a cooling tower or condenser water pumping.
<table>
<thead>
<tr>
<th>LL Model</th>
<th>Condenser Type</th>
<th>Compressor Type</th>
<th>Boiler Input Capacity (MBH)</th>
<th>Width</th>
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<th>Length*</th>
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</tbody>
</table>

*Length varies depending on options selected.

** Dual ended units are not available with boilers.
Variable Capacity Compressors

- Variable capacity compressors allow the chiller to be able to provide a consistent leaving water temperature at all operating conditions.
- Variable capacity R-410A scroll compressors are available for load matching cooling capabilities and increased part load efficiency.
- VFD controlled variable speed R-410A scroll compressors are available for load matching cooling and improved part load efficiency.
- Variable capacity R-134a centrifugal compressors provide load matching cooling capabilities, with quiet, energy efficient operation.
- During part load operation, reducing compressor capacity saves system operating costs.
- Low turndown capabilities minimize the water loop volume required to maintain a stable setpoint temperature.

Controls

- Microprocessor controls are compatible with BACnet®, Modbus®, Johnson N2™, and LonTalk® protocols.
- Color-coded wiring matches unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Control components are labeled to simplify service and scheduled maintenance.
- Factory run test and inspection reports are included in the documentation compartment affixed to the interior of the control compartment access door.
AAON LC SERIES CHILLERS are engineered for high efficiency and energy savings. All models feature variable capacity compressors and electronically commutated motor driven condenser fans for low load capabilities, high efficiencies during part and full load operation, and precise temperature control with minimal loop volume.

Applications
- Air-cooled chilled water from 5 - 54 tons for comfort or process cooling requirements.
- Compact chiller footprints are ideal for building retrofits, equipment expansion, system redundancy or temporary chilled water applications.
- Heat pump and water economizer configurations can meet difficult design applications while maintaining high unit efficiencies.
- 10 - 100% variable capacity scroll compressors provide low load operation and high efficiencies during part and full loads.
- Units are available with factory installed constant and variable primary pumping systems.

Construction
- The LC Series chiller is factory assembled; before leaving the factory all water, refrigerant and electrical components are run tested for a quick and easy field startup.
- Designed for outdoor operation, the LC Series includes a corrosion resistant paint that exceeds a 1,000 hour salt-spray test.
- Paint can be specified in a variety of colors to enhance the aesthetics of visible units.
- Louvered guards protect condenser coils from weather and shipping accidents.
- Rigid base pan with forklift slots for job site handling.
- Compressors and controls are housed inside a compartment that is protected from weather and outdoor elements.
- Access doors are provided for the compressor and control compartment and for the waterside compartment. Doors are constructed with chrome plated steel hinges and quarter turn, zinc cast, lockable handles.

Pumps
- Constant or variable primary pumps can be factory installed in the LC Series chiller. This saves valuable interior building space by eliminating pumps in the indoor mechanical room.
- All pump packages include a factory installed in-line air separator, strainer, pump, and combination valve (isolation, check, and flow balancing) in the water system.
- LC Series chillers above 15 tons can include dualArm pumps for system redundancy or increased capacity.

Don't see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
Features and Options

- Variable capacity scroll compressors modulate capacity from 10 to 100% for load matching cooling and greater efficiency than on/off compressors. With tighter capacity control, a precise setpoint temperature is maintained while loop volume and storage tank requirements are drastically reduced or eliminated. A reduced loop volume also saves energy during startups.
- Evaporator options include heat traced and insulated shell and tube or brazed plate exchangers.
- Control and compressor compartment is isolated from the water system for easy service and scheduled maintenance.
- All units incorporate electronically commutated motor driven condenser fans to increase unit efficiency at part-load and low ambient conditions, increase operating temperature range, and reduce sound levels.
- Flooded condenser low ambient option on one or all refrigeration circuits allows mechanical cooling down to 0°F.
- Polymer e-coated condenser coils can be specified to extend the life of the coils and protect them in corrosive environments.
- Optional factory installed compressor isolation valves, water system thermometers and pressure gauges reduce maintenance hours.

Controls

- Microprocessor controls are compatible with BACnet®, Modbus, Johnson N2™, and LonTalk® protocols.
- Unit wiring is completely factory installed with specific, color-coded wiring diagrams. Diagrams are laminated and permanently affixed inside control compartment access door.
- Control components are labeled to simplify service and scheduled maintenance.
- Factory run test and inspection reports are included in the documentation compartment affixed to the interior of the control compartment access door.

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<th>LC Model</th>
<th>Modulation</th>
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<th>Length</th>
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</tbody>
</table>

All dimensions are in inches.
Don't see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON OFFERS A QUICK-CONNECT PACKAGED
MECHANICAL ROOM. FACTORY INSTALLED CONTROLS
ARRIVE READY FOR OPERATION. THE INNOVATIVE

OUTDOOR MECHANICAL ROOMS
(Chillers, Boilers & Pumps and Boilers & Pumps)

PACKAGED ChILLER AND BOILER DESIGN IS AVAILABLE
WITH PRE-ENGINEERED SINGLE OR DUAL ARM PUMPING
PACKAGE, OPTIONAL VARIABLE FREQUENCY DRIVES
AND FACTORY INSTALLED EXPANSION/COMPRESSION
TANK. ALL COMPONENTS ARE HOUSED IN A LIGHTED,
FOAM INSULATED, WEATHERPROOF CABINET
WITH FULL HEIGHT SERVICE DOORS.
AAON OUTDOOR MECHANICAL ROOMS COMBINE THE ENERGY SAVINGS OF THE AAON LL SERIES CHILLER, HIGH OUTPUT HEATING CAPACITY OF THE BL SERIES BOILER, AND SPACE SAVING FROM INTEGRATED PUMPING PACKAGES. BY COMBINING THE THREE PRODUCTS INTO THE AAON RIGID POLYURETHANE FOAM CABINET, BUILDINGS RETAIN THE VALUABLE INDOOR SPACE NORMALLY USED FOR THE MECHANICAL ROOM.

Applications
- Air-cooled condenser chillers with capacities from 35 - 345 tons and evaporative-cooled condenser chillers with capacities from 35 - 540 tons, for comfort or process cooling requirements.
- Heat pump and water economizer configurations can meet difficult design applications while maintaining high unit efficiencies.
- Factory installed standard efficiency (88%) and high efficiency (98%) boilers with input capacities from 500 - 6,000 MBH.
- Boiler and pumping package can be included with a chiller system (LL Series) or within a separate packaged outdoor mechanical room (BL Series).
- Units are available with factory installed primary or primary-secondary pumping system with either constant or variable flow configurations.

Construction
- The outdoor mechanical room has factory assembled and tested components, piping between pumps and the components, and wiring to accept a single-point electrical connection.
- Designed for outdoor operation, the outdoor mechanical room includes a corrosion resistant paint that exceeds a 2,500 hour salt-spray test.
- Paint can be specified in a variety of colors to enhance the aesthetics of visible units.
- Double wall cabinets utilize thermal breaks and closed-cell polyurethane in its rigid polyurethane foam panels to increase thermal resistance, reinforce structural integrity, and attenuate radiated sound.
- Scroll compressors are installed on structural decks and rubber isolation mounted for quiet and efficient operation.
- Factory installed, microprocessor controlled three-chemical water treatment system has chemical dispensers for evaporative-cooled designs. This water treatment system saves installation time, field engineering, and improves equipment durability.
- Hinged access doors are provided in areas subject to scheduled maintenance. Walk-in doors are constructed with stainless steel piano hinges, perimeter gaskets and zinc cast lockable handles. Doors operate from a single point and open from the outside or inside of the cabinet.
- Interior of evaporative-cooled condenser is constructed of 304 stainless steel and other non-corrosive materials.
<table>
<thead>
<tr>
<th>LL Model</th>
<th>Condenser Type</th>
<th>Compressor Type</th>
<th>Boiler Input Capacity (MBH)</th>
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<tr>
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<td>142</td>
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*Length varies depending on options selected.

All dimensions are in inches.

** Dual ended units are not available with boilers.
Chiller + Boiler + Pumps = Package Savings

Evaporative-Cooled Condenser
Factory installed evaporative-cooled condenser is available for ambient wet bulb condensing. AAON engineered evaporative-cooled condenser, with air-cooled de-superheater and VFD controlled variable speed condenser fans, uses 22 – 100th of water than a conventional evaporative-cooled condenser, and require 22 – 100th of chemical usage than a conventional evaporative-cooled condenser. Interior of evaporative-cooled condenser is constructed of 304 stainless steel and other non-corrosive materials. De-superheater coils include polymer e-coating for corrosion protection. AAON evaporative-cooled condensing saves costs when compared with a water-cooled chiller system because the water treatment system is factory installed and evaporative-cooled condensing does not require field installation of a cooling tower or condenser water pumping.
Air-Cooled Condenser

Air-cooled condenser is designed for quiet, energy efficient operation. Coils are sloped to prevent fin damage and coils facing outwards are protected by perforated metal screens. VFD controlled variable speed condenser fans are available for head pressure control at off-design ambient conditions. Flooded condenser low ambient option allows cooling operation at 0°F. Polymer e-coated air-cooled condenser coils are available to extend the life of the coils and protect them in corrosive environments.
Pumps
- Constant or variable flow pump systems can be factory installed in the outdoor mechanical room. This saves valuable interior building space by eliminating pumps in the indoor mechanical room.
- All pump packages include a factory installed in-line air separator, strainer, pump, and combination valve (isolation, check, and flow balancing) in the water system.
- Outdoor mechanical rooms can include dualArm pumps for system redundancy.

Features and Options
- Variable capacity R-410A scroll compressors, VFD controlled variable speed R-410A scroll compressors, and variable capacity oil-free magnetic bearing R-134a centrifugal compressors are available for load matching cooling capabilities and increased part load efficiency.
- Insulated shell and tube evaporators are factory installed in each unit.
- Service and control walk-in vestibule can be independently heated and/or cooled for comfort while periodic maintenance is performed on the unit.
- Factory installed option boxes increase unit space for field installed components or for increased interior working area.
- Variable speed condenser fans are available to increase unit efficiency at part-load and low ambient conditions, increase operating temperature range, and reduce sound levels.
- Low ambient control on one or all refrigeration circuits are available for mechanical cooling during decreased ambient temperatures.
- Glycol chillers for refrigeration applications.
- Polymer e-coated condenser coils can be specified to extend the life of the coils and protect them in corrosive environments.
- Optional factory installed compressor isolation valves and water system thermometers and pressure gauges save installation time at the job site.
- Diaphragm expansion/compression tanks can be pre-engineered and factory installed.

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Controls

- Microprocessor controls are compatible with BACnet®, Modbus, Johnson N2™, and LonTalk® protocols.
- Microprocessor controller cycles boilers to maintain the leaving water temperature to within 3°F of setpoint.
- Unit wiring is completely factory provided with color-coded wires. Units are provided with specific, color-coded wiring diagrams. Diagrams are laminated and permanently affixed inside control compartment access door.
- Control components are labeled to simplify service and scheduled maintenance.
- Factory run test and inspection reports are included in the documentation compartment affixed to the interior of the control compartment access door.
- Compressors and controls are accessed through service vestibules that shield components and service personnel from weather and outdoor elements.

Factory Installed Conventional Boilers

- Factory installed natural gas and propane boilers, with input capacities from 500-6,000 MBH, save interior mechanical room space and provide energy efficient heat.
- One to four boilers, in 500, 750, 1,000 and 1,500 MBH input capacities, are available within a single LL Series outdoor mechanical room for extra capacity or redundancy.
- Both 20°F ΔT and 40°F ΔT boilers are available for application flexibility.
- Boiler heating modulation, from 10 to 100%, is achieved using a VFD to control combustion air and an air-fuel ratio modulating gas valve.
- Boilers are designed to operate at 88% thermal efficiency with NOx ratings less than 9.9 ppm.
- The boiler’s design includes the very best of existing copper tube and copper-finned boiler technology.
- The combustion chamber is completely enclosed in a stainless steel compartment.
- For additional reliability, the boiler’s electrical spark-to-pilot ignition utilizes a UV scanner to prove pilot before main gas valves open.

Factory Installed Condensing Boilers

- Factory installed natural gas condensing boilers, with input capacities from 500-6,000 MBH, save interior mechanical room space and provide energy efficient heat.
- One to four boilers, in 500, 750, 1,000 and 1,500 MBH input capacities, are available within a single LL Series outdoor mechanical room for extra capacity or redundancy.
- Both 20°F ΔT and 40°F ΔT boilers are available for application flexibility.
- The condensing boilers operate with up to a 98% thermal efficiency, a fully modulating burner and a low NOx rating.
- The boiler heat exchanger is constructed of stainless steel and the burner includes direct-spark ignition.
- Boilers also include factory provided controls with a built-in cascading sequencer to optimizer operation.
Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON SELF CONTAINED UNITS ARE DESIGNED TO BE ENERGY EFFICIENT WHILE ALSO HAVING ONE OF THE SMALLEST FOOTPRINTS IN THE INDUSTRY. A NARROW DESIGN ALLOWS THE UNITS TO FIT THROUGH STANDARD DOOR AND ELEVATOR OPENINGS. THIS DESIGN MAKES AAON SELF CONTAINED UNITS IDEAL FOR RETROFIT APPLICATIONS OR ANY INSTALLATION WHERE SPACE IS LIMITED.
AAON SA SERIES MODULAR SELF CONTAINED UNITS LEAD THE INDUSTRY IN SELF CONTAINED UNIT TECHNOLOGY AND PERFORMANCE. VERTICAL CONFIGURATION, VARIABLE CAPACITY SCROLL COMPRESSORS, DIRECT DRIVE BACKWARD CURVED PLENUM SUPPLY FANS, DOUBLE WALL RIGID POLYURETHANE FOAM INSULATED CABINET CONSTRUCTION, AND OPTIONAL HEAT PUMP CONFIGURATION PROVIDE THE SA SERIES WITH UNMATCHED PERFORMANCE.

Applications
- Vertical self contained unit with a water-cooled condenser or to match with a remote air-cooled condenser, from 23 - 70 tons.
- Variable capacity R-410A scroll compressors (10 - 100%) provide load matching cooling and improved part load efficiency.
- Air-source, water-source, or geothermal heat pump configurations.
- Chilled water or non-compressorized DX air handling unit, from 5,300 - 27,000 cfm.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water or steam heating coils allow unit to tie into a boiler system.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Modular design with compact footprint makes the SA Series ideal for retrofit applications.
- Access doors with full length stainless steel piano hinges and quarter turn, zinc cast, lockable handles provide improved reliability over single point hinges and plastic or sheet metal handles, and make the unit easily serviceable.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Spring isolated direct drive backward curved plenum fans are more energy efficient, quieter, and require less maintenance than belt driven fans.
- Single or multiple supply air connections can be factory provided from the right, left, back, or top sides of the supply fan plenum.
- VFD controlled supply fans allow precise air flow control and reduced power consumption.
**Controls**

- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within single compartment isolated from the air stream for ease of service and quiet operation.
- Factory run test report, wiring diagram, and Installation, Operation, and Maintenance manual with startup form are provided in the control compartment of every unit.

**Features and Options**

- Factory installed constant or variable flow waterside economizer allows for free cooling at low ambient conditions.
- Multiple methods of humidity control including: high capacity cooling coils and modulating humidity control which provides energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.

### Table: SA Series Intake Nominal cfm

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<th>Intake</th>
<th>Nominal cfm</th>
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<th>Height*</th>
<th>Length</th>
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<td>Double</td>
<td>110**</td>
<td>111-135 (in 4 inch increments)</td>
<td>79</td>
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*Dimensions may vary depending on options selected.

**Double intake units can be split in half for ease of installation.

All dimensions are in inches.

Design cfm may be 30-50% greater or less than nominal cfm.
AAON SB SERIES SELF CONTAINED UNITS ARE ENGINEERED FOR HIGH PERFORMANCE AND ENERGY EFFICIENT FULL AND PART LOAD OPERATION. VARIABLE CAPACITY SCROLL COMPRESSORS, VARIABLE SPEED DIRECT DRIVE BACKWARD CURVED PLENUM SUPPLY FANS, DOUBLE WALL RIGID POLYURETHANE FOAM INSULATED CABINET CONSTRUCTION, AND HEAT PUMP CONFIGURATION PROVIDE THE SB SERIES WITH UNMATCHED PERFORMANCE.

Applications
- Water-source and geothermal heat pump vertical self contained unit, from 3-18 tons.
- Split configuration with refrigerant-to-water heat exchanger and compressor compartment shipped separate from the air tunnel section for retrofit or space limited applications.
- Remote air-cooled condenser and air-source heat pump configurations.
- 10–100% variable capacity R-410A scroll compressors provide load matching cooling and heat pump heating and improved part load efficiency.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- Factory installed high performance electric, hot water, or steam heating.

Construction
- Double wall rigid polyurethane foam injected panel cabinet construction has a higher thermal resistance, or R-value, compared with fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. Construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with chrome plated steel hinges and quarter turn, lockable handles make the unit easily serviceable.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.
- Foam insulated coaxial refrigerant-to-water heat exchanger provides energy efficient heat transfer.

---

Coaxial Refrigerant-to-Water Heat Exchanger provides energy efficient heat transfer.

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</table>

*Dimension may vary depending on options selected
All dimensions are in inches
Design cfm may be 30-50% greater or less than nominal cfm.
**C and D cabinet units can be shipped in a split configuration for ease of installation.
Fans and Blowers
- Direct drive backward curved plenum fans are more energy efficient, quieter, and require less maintenance than belt driven fans.
- Electronically commutated motor driven backward curved plenum fans are available to provide precise air flow control and reduced power consumption.

Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within a compartment isolated from the air stream for ease of service and quiet operation.
- Factory run test report, wiring diagram, and Installation, Operation, and Maintenance manual with startup form are provided in the control compartment of every unit.
- VAV and Single Zone VAV configurations to minimize operating costs.

Ease of Installation
- Self contained units are designed to fit through 36 inch wide by 80 inch tall doors for ease of installation and retrofit applications. C and D cabinet units may be shipped from the factory in a split configuration.
- The SB Series cabinet design provides easy installation at the job site. The air tunnel and compressorized section can be factory assembled to prevent unnecessary work at the job site or they can be shipped separate in two sections.

Features and Options
- Modulating humidity control provides energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- SCR (Silicon Controlled Rectifier) electric heat control for reduced power consumption, longer heater life and improved occupant comfort.
- Polymer e-coated coils, copper finned coils, and stainless steel coil casings are available to extend the life of the coils and protect them in corrosive environments.
- Interior and exterior corrosion protection is available to protect the cabinet in corrosive environments.
- Factory installed mixing boxes with gear driven outside air and return air dampers allow for airside economizer free cooling.
- Factory installed constant or variable flow waterside economizer allows for free cooling at low ambient conditions.

Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
Don’t see the specific product you need? AAON can meet your requirements with Custom Equipment designed specifically for your exact application and job specifications. Visit www.aaon.com or call 918.583.2266 to locate a representative near you.
AAON ROOFTOP UNITS ARE ENGINEERED AND MANUFACTURED TO FUNCTION IN ACCORDANCE WITH YOUR PARTICULAR HEATING, COOLING AND DEHUMIDIFICATION REQUIREMENTS. USING THE HIGHEST QUALITY COMPONENTS AND INNOVATIVE DESIGNS, AAON ROOFTOP UNITS ARE BUILT FOR A LONG LIFE. CONSIDERING THE INCREASING COSTS OF MAINTENANCE AND SERVICE PERSONNEL, AAON EQUIPMENT IS DESIGNED FOR EASY ACCESS TO MINIMIZE THE TIME SPENT ON START UP AND ROUTINE MAINTENANCE.
AAON RL SERIES ROOFTOP UNITS set the standard for large commercial packaged rooftop units in customization, performance, and serviceability. Double wall rigid polyurethane foam insulated cabinet construction and an array of draw-through or blow-through direct drive backward curved plenum fans allow RL series units to have quiet, energy efficient air flow with high static pressure capabilities.

Applications
- Air-cooled, water-cooled, or evaporative-cooled condenser packaged DX rooftop unit, from 45 - 240 tons.
- Air-source, water-source, or geothermal heat pump configurations.
- Chilled water or non-compressorized DX air handling unit, from 6,000 - 60,000 cfm.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water, steam, electric and indirect/direct gas fired heating.
- Magnetic bearing R-134a centrifugal compressor option provides load matching cooling capabilities, with quiet energy efficient operation, and the oil free design is highly reliable.
- Variable speed R-410A scroll compressors for load matching cooling and improved part load efficiency.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with full length stainless steel piano hinges and quarter turn, zinc cast, lockable handles provide improved reliability over single point hinges and plastic or sheet metal handles, and make the unit easily serviceable.
- Aluminum tread plate flooring is included in equipment access areas for improved durability and safety.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Fans and Blowers
- Spring isolated direct drive backward curved plenum fans are more energy efficient, quieter, and require less maintenance than belt driven fans.
- Selectable number of draw-through or blow-through direct drive backward curved plenum fans allows design flexibility for quieter applications and applications where unit uptime is critical.
- VFD controlled supply, exhaust, and return fans for precise air flow control, building pressure control, and reduced power consumption.
- Axial flow and plenum style return blowers are available to meet a variety of state applications.
Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls are contained within a walk-in service compartment isolated from the air stream for ease of service and quiet operation. Service compartment can be independently heated.
- Run test report, color-coded wiring diagram, and Installation, Operation and Maintenance manual with startup form is included in control access compartment of every unit.

Features and Options
- Magnetic bearing R-134a centrifugal compressor option provides load matching cooling capabilities, with quiet energy efficient operation, and the oil free design is highly reliable.
- Variable speed R-410A scroll compressors for load matching cooling and improved part load efficiency. Multiple methods of humidity control including: High Capacity Cooling Coils, Return Air Bypass, and Modulating Humidity Control which provides energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Factory installed AAON evaporative-cooled condenser, with air-cooled de-superheater and variable frequency drive controlled fans, can be 20 - 40% more energy efficient than a comparable air-cooled condenser, can use 22 - 100% less water than a conventional evaporative-cooled condenser, and require 22 - 100% less chemical usage than a conventional evaporative-cooled condenser.
- Interior of evaporative-cooled condenser is constructed of 304 stainless steel and other non-corrosive materials. De-superheater coils include polymer e-coating for corrosion protection.

- Factory installed, microprocessor controlled, three chemical, water treatment system is standard with an evaporative-cooled condenser saving installation and maintenance time and money.
- Factory installed shell and tube water-cooled condensers include removable and cleanable basket filters and can be factory piped to require only a single water connection at the unit.
- High efficiency, multiple stage, gas and electric heating are available to meet job requirements.
- Factory installed, sensible or enthalpy, gear driven economizer allows for free cooling.
- Multiple high efficiency filtration options, including pleated, cartridge, or bag type, with up to a MERV 14 efficiency rating.
- Factory installed total and sensible AAONAIRE® energy recovery wheels save cooling and heating dollars. Return fans are available for high return static applications.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.
Patented de-superheater design reduces water consumption and chemical treatment

Three tank water treatment system

Standard double sloped stainless steel drain pan

Rigid polyurethane foam panel construction provides greater thermal efficiency and improved indoor air quality

Sloped condenser coils with outer coil protection

Factory provided replaceable core filter drier

Draw-through design

Gear driven economizer

75 ton
Evaporative-Cooled Condenser Rooftop Unit

Blow-through design

AAONAIRE Energy Recovery Wheel

Outside air intake

Power exhaust fan

75 ton
Air-Cooled Condenser Rooftop Unit

Outside air intake

Power return fan

High efficiency filters

Stainless steel heat exchanger with patented dimple design
### 135 ton Water-Cooled Condenser Rooftop Unit

- **SCR Controlled Electric Heat**
- **VFD controlled direct drive fan assembly**
- **AAONAIRES® energy recovery wheel**
- **Walk-in service vestibule**
- **Standard double sloped stainless steel drain pan**
- **Power return blower**
- **Power exhaust fan**
- **Outside air intake**

### RL Model Specifications

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<thead>
<tr>
<th>RL Model</th>
<th>Nominal cfm</th>
<th>Width</th>
<th>Height</th>
<th>Length*</th>
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</table>

*Dimension may vary depending on options selected. All dimensions are in inches. Design cfm may be 30-50% greater or less than nominal cfm.

- Factory installed AAONAIRES® energy recovery wheel saves heating and cooling energy.
AAON RN SERIES ROOFTOP UNITS CONTINUE TO LEAD THE Packaged RoofTop equipment industry in performance and serviceability. Double wall rigid polyurethane foam insulated cabinet construction and direct drive backward curved plenum fans allow RN SERIES units to have quiet, energy efficient air flow with high static pressure capabilities. RN SERIES units also feature lockable hinged doors which provide service access to all sections of the unit.

Applications
- Air-cooled condenser or air-source heat pump packaged DX rooftop units, 6-140 tons.
- Water-cooled condenser, water-source heat pump, or geothermal heat pump configurations.
- Chilled water or non-compressorized DX air handling units, 1,100-55,500 cfm.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water, steam, electric, and gas heating.
- Variable capacity and variable speed R-410A scroll compressors for load matching cooling and improved part load efficiency.

Construction
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.

- Access doors with full length stainless steel piano hinges and quarter turn lockable handles provide improved reliability over single point hinges and make the unit easily serviceable.
- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.

Don’t see the specific product you need?
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Fans and Blowers
- Direct drive backward curved plenum supply fans with rubber isolation mounts are more energy efficient, quieter, and require less maintenance than belt driven fans.
- VFD controlled supply, exhaust, and return fans for precise air flow control, building pressure control, and reduced power consumption.

Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls and compressors are contained within compartment isolated from the air stream for ease of service and quiet operation.
- Run test report, color-coded wiring diagram, and Installation, Operation and Maintenance manual with startup form is included in control access compartment of every unit.

Dimpled heat exchanger provides energy efficient heat transfer and has no internal turbulator, which can corrode over time.
Features and Options

- Variable capacity and variable speed R-410A scroll compressors for load matching cooling and improved part load efficiency.
- Multiple methods of humidity control including: High Capacity Cooling Coils, Return Air Bypass, Mixed Air Bypass, and Modulating Humidity Control which provides energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Modulating gas heat and SCR electric heat provide energy efficient, consistent supply air temperature heating and improved occupancy comfort.
- Factory installed, sensible or enthalpy, gear driven economizer allows for free cooling.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- Factory installed total and sensible AAONAIRE® energy recovery wheels save cooling and heating dollars.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.
- VFD controlled or ECM driven condenser fans for head pressure control, reduced power consumption and lower sound levels at off design ambient conditions.
## RN Model

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*Dimensions may vary depending on options selected.

All dimensions are in inches.

Design cfm may be 30-50% greater or less than nominal cfm.

### Microchannel Condenser Coils

- Microchannel condenser coils are more efficient, lighter, and use less refrigerant than traditional fin and tube condenser coils.

### 55, 65 and 75-140 ton RN Series Air-Cooled Condenser Packaged Rooftop Unit with Microchannel Condenser Coils
**Applications**
- Air-cooled condenser or air-source heat pump packaged DX rooftop units, 2-6 tons.
- Water-source heat pump or geothermal heat pump configurations.
- Chilled water or non-compressorized DX air handling units, 400-3,600 cfm.
- Makeup air capability, up to 100% outside air, to meet ventilation requirements.
- High performance hot water, steam, electric, and gas heating.
- Variable capacity and two step R-410A scroll compressors for load matching cooling and improved part load efficiency.

**Construction**
- Two-inch double wall rigid polyurethane foam panel cabinet construction has a thermal resistance of R-13 or greater, which exceeds the R-value of a cabinet with four-inch thick fiberglass construction. Panels include a thermal break, with no metal contact from inside to outside, to prevent heat transfer through the panel and prevent condensation on the outside of the cabinet. The inner wall protects the insulation from moisture damage, prevents microbial growth, and is easy to clean. This type of construction also makes the cabinet more rigid and resistant to damage, provides increased sound dampening, and reduces air leakage and infiltration.
- Access doors with full length stainless steel piano hinges and quarter turn lockable handles provide improved reliability over single point hinges and make the unit easily serviceable.

- Corrosion resistant exterior polyurethane paint exceeds a 2,500 hour salt spray test.
- Double sloped stainless steel drain pans eliminate standing water which can support microbial growth and stainless steel construction prevents corrosion that could lead to water leaks and contaminants in the air stream.
- Microchannel condenser coils are more efficient, lighter, and use less refrigerant than traditional fin and tube condenser coils.
Fans and Blowers
- Direct drive backward curved plenum supply fans with rubber isolation mounts are more energy efficient, quieter, and require less maintenance than belt driven fans.
- VFD controlled supply, exhaust, and return fans for precise airflow control, building pressure control, and reduced power consumption.

Controls
- Labeled electrical components and color-coded wiring match the unit specific color-coded wiring diagram which is laminated and permanently affixed inside the control compartment.
- Factory provided or customer provided controller can be selected to meet existing or new building control architecture.
- Unit controls and compressors are contained within compartment isolated from the air stream for ease of service and quiet operation.
- Run test report, color-coded wiring diagram, and Installation, Operation and Maintenance manual with startup form is included in control access compartment of every unit.

Features and Options
- Variable capacity and two step R-410A scroll compressors for load matching cooling and improved part load efficiency.
- Multiple methods of humidity control including: High Capacity Cooling Coils, Return Air Bypass, Mixed Air Bypass, and Modulating Humidity Control which provides energy efficient dehumidification, even with low sensible heat loads, without the temperature swings common with on/off reheat systems.
- Modulating gas heat and SCR electric heat provide energy efficient, consistent supply air temperature heating and improved occupancy comfort.
- Factory installed, sensible or enthalpy, gear driven economizer allows for free cooling.
- Multiple high efficiency filtration options, with up to a MERV 14 efficiency rating.
- Factory installed total and sensible AAONAIRE® energy recovery wheels save cooling and heating dollars.
- Polymer e-coated coils are available to extend the life of the coils and protect them in corrosive environments.
- Interior corrosion protection option protects interior components of the unit in corrosive environments.
- ECM driven condenser fans for head pressure control, reduced power consumption and lower sound levels at off design ambient conditions.

Features
- Microchannel condenser coils are more efficient, lighter, and use less refrigerant than traditional fin and tube condenser coils.

<table>
<thead>
<tr>
<th>RQ Model</th>
<th>Nominal cfm</th>
<th>Width</th>
<th>Height*</th>
<th>Length*</th>
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*Dimensions may vary depending on options selected. All dimensions are in inches. Design cfm may be 30-50% greater or less than nominal cfm.
AAON GEOTHERMAL AND WATER-SOURCE HEAT PUMPS ARE ENGINEERED TO PROVIDE ENERGY EFFICIENT COOLING AND HEATING WHILE BEING EASY TO INSTALL AND MAINTAIN. TO PROVIDE THE HIGHEST EFFICIENCIES, AAON GEOTHERMAL AND WATER-SOURCE HEAT PUMPS INCLUDE BRAZED PLATE, SHELL AND TUBE, AND COAXIAL HEAT EXCHANGERS, DIRECT DRIVE BACKWARD CURVED PLENUM FANS, DOUBLE WALL RIGID POLYURETHANE FOAM PANEL CONSTRUCTION, AND VARIABLE CAPACITY AND VARIABLE SPEED SCROLL COMPRESSORS.
AAON GEOTHERMAL AND WATER-SOURCE HEAT PUMPS use the constant temperature of the earth as the exchange medium instead of the outside air temperature. A few feet below the earth’s surface the ground remains at a relatively constant temperature. Depending on latitude, ground temperatures range from 45°F to 75°F. This ground temperature is warmer than the air above it during the winter and cooler than the air in the summer. The geothermal heat pump takes advantage of this constant temperature by exchanging heat with the earth through a ground heat exchanger.

AAON air conditioning and air handling units are designed with heat pump capabilities. AAON heat pumps include double wall rigid polyurethane foam panel construction, direct drive backward curved plenum fans, economizers, energy recovery, and electric, gas, steam, and hot water auxiliary heating.

Rooftop Units
- RL Series is available as a geothermal or water-source heat pump from 45 - 230 tons
- RN Series is available as a geothermal or water-source heat pump from 6-140 tons
- RQ Series is available as a geothermal or water-source heat pump from 2 - 6 tons

Self Contained Units
- SA Series is available as a geothermal or water-source heat pump from 23 - 70 tons
- SB Series is available as a geothermal or water-source heat pump from 3-18 tons
- M2 Series is available as a geothermal or water-source heat pump from 5 - 70 tons

Split Systems
- CC Series condensing units can be matched with M3, M2, SA, H3/V3 and F1 Series indoor air handling units and M3, M2, RL, RN, and RQ Series outdoor air handling units as a geothermal or water-source heat pump from 2 - 63 tons
- SB Series can be factory split and matched with H3 or V3 Series indoor air handling units from 3-18 tons.

AAON Geothermal and Water-Source Heat Pump Advantages

High Efficiency - Constant Heat Transfer Temperatures, Direct Drive Backward Curved Plenum Fans, Double Wall Rigid Polyurethane Foam Panel Construction with a R-value of 13 or greater, 10 - 100% Variable Capacity Scroll Compressors, Variable Speed Scroll Compressors

Flexibility - Factory Installed Energy Recovery Wheels, High Efficiency Filtration, Modulating Humidity Control, Makeup Air Capability, R-410A Scroll Compressors, Economizers, VFD Controlled Supply, Return and Exhaust Fans, Factory Installed Control Options

Serviceability - Hinged Access Doors, Access to All Sections of the Unit, Color-Coded Wiring

Solutions - Replacement or New Construction, LEED Points, Power Company Rebates, Tax Incentives
AAON AIR-SOURCE HEAT PUMPS PROVIDE ENERGY EFFICIENT COOLING AND HEATING WITH THE SAME CUSTOMIZATION AVAILABLE ON AAON AIR CONDITIONING

AIR-SOURCE HEAT PUMPS (Rooftop Units & Split Systems)

UNITs. STANDARD FEATURES OF AAON AIR-SOURCE HEAT PUMPS INCLUDE DIRECT DRIVE BACKWARD CURVED PLENUM FANS AND DOUBLE WALL RIGID POLYURETHANE FOAM PANEL CONSTRUCTION, WITH VARIABLE CAPACITY R-410A SCROLL COMPRESSORS AND ELECTRIC, GAS, STEAM, AND HOT WATER AUXILIARY HEATING AVAILABLE AS OPTIONS.
AAON AIR-SOURCE HEAT PUMPS CAN PROVIDE ENERGY EFFICIENT COOLING AND HEATING USING THE UNIT’S REFRIGERATION CIRCUIT. REVERSING THE FLOW OF THE UNIT’S REFRIGERATION CIRCUITS ALLOWS THE INDOOR COIL TO BE USED AS A HEATING COIL. THIS IS A MORE EFFICIENT METHOD OF HEATING THAN ELECTRIC RESISTANCE HEATING BECAUSE A HEAT PUMP CAN REJECT MORE HEAT TO THE SPACE PER THE AMOUNT OF ENERGY USED. THUS, THE OPERATING COSTS OF HEAT PUMP HEATING ARE ALWAYS LESS THAN THE OPERATING COSTS OF ELECTRIC RESISTANCE HEATING. HEAT PUMP HEATING IS ALSO A MORE EFFICIENT METHOD OF HEATING THAN GAS HEATING AND, DEPENDING ON THE COST OF ELECTRICITY AND NATURAL GAS OR PROPANE, HEAT PUMP HEATING CAN HAVE LESS OPERATING COSTS THAN GAS HEATING.

All of the standard features and premier options available on AAON air conditioning and air handling units are available on AAON heat pumps, including double wall rigid polyurethane foam panel construction, AAONAIRe energy recovery wheels, and electric, gas, steam, and hot water auxiliary heating.

Rooftop Units
- RL Series is available as an air-source heat pump from 45 - 230 tons
- RN Series is available as an air-source heat pump from 6 - 140 tons
- RQ Series is available as an air-source heat pump from 2 - 6 tons

Split Systems
CL Series condensing units can be matched with M3, M2, and SA Series indoor air handling units and M3, M2, RL, and RN Series outdoor air handling units as an air-source heat pump from 45 - 230 tons

CC Series condensing units can be matched with M3, M2, SA, H3/V3, and F1 Series indoor air handling units and M3, M2, RL, RN, and RQ Series outdoor air handling units as an air-source heat pump from 2 - 63 tons

CC Series remote air-cooled condensers can be matched with SA Series indoor self contained units as an air-source heat pump from 23 - 70 tons

CB Series condensing units can be matched with H3/V3 and F1 Series indoor air handling units and RQ Series outdoor air handling units as an air-source heat pump from 2 - 5 tons.

AAON Air-Source Heat Pump Advantages
High Efficiency - Direct Drive Backward Curved Plenum Fans, Double Wall Rigid Polyurethane Foam Panel Construction with a R-value of 13 or greater, 10 - 100% Variable Capacity Scroll Compressors, Variable Speed Scroll Compressors

Flexibility - Factory Installed Energy Recovery Wheels, High Efficiency Filtration, Modulating Humidity Control, Makeup Air Capability, R-410A Scroll Compressors, Economizers, VFD Controlled Supply, Return, and Exhaust Fans, Factory Installed Controls Options

Serviceability - Hinged Access Doors, Access to All Sections of the Unit, Color-Coded Wiring

Solutions - Replacement or New Construction, LEED Points, Power Company Rebates, Tax Incentives
INDOOR SWIMMING POOLS POSE UNIQUE CHALLENGES TO THEIR ENVIRONMENT. THESE CHALLENGES INCLUDE BUILDING STRUCTURE CORROSION, POOL WATER EVAPORATION, WIDE VARIATIONS IN OCCUPANCY, CHEMICAL LEVELS, HIGH OPERATING COSTS AND MORE. AONDRY PRECISION DEHUMIDIFICATION UNITS DYNAMICALLY VARY CAPACITY TO PROVIDE PRECISE TEMPERATURE AND HUMIDITY CONTROL. THIS TIGHT CONTROL CREATES A COMFORTABLE INDOOR POOL ENVIRONMENT AND OFFERS OPERATING COST SAVINGS.
AAONDRY NATATORIUM AND POOL ROOM DEHUMIDIFIERS PRECISELY CONTROL TEMPERATURE AND HUMIDITY. CONTROLLING THE TEMPERATURE AND HUMIDITY OF A NATATORIUM OR POOL ROOM CAN BE DIFFICULT BECAUSE BOTH SWIMMERS AND SPECTATORS MUST BE KEPT COMFORTABLE, EVEN WITH WIDE VARIATIONS IN OCCUPANCY AND ACTIVITY, AND SPACE CONDITIONS MUST ALSO MINIMIZE POOL WATER EVAPORATION TO LOWER OPERATING COSTS. AAONDRY UNITS ARE ESSENTIAL IN CREATING A COMFORTABLE INDOOR POOL ENVIRONMENT. THE UNIQUE DESIGN IS AVAILABLE WITH AN ENERGY RECOVERY WHEEL TO CAPTURE AND REUSE ENERGY, RESULTING IN OPTIMAL ENVIRONMENTAL CONTROL, HIGH ENERGY EFFICIENCY AND LOW OPERATING COSTS.

AAON offers complete packaged dehumidification systems from 12 lbw/hr to 953 lbw/hr (2 - 230 tons).

Rooftop Units
- RL Series is available as a natatorium dehumidifier from 197 lbw/hr - 953 lbw/hr (45 - 230 tons)
- RN Series is available as a natatorium or pool room dehumidifier from 40 lbw/hr - 590 lbw/hr (6 - 140 tons)
- RQ Series is available as a natatorium or pool room dehumidifier from 12 lbw/hr - 40 lbw/hr (2 - 6 tons)

Self Contained Units
- SA Series is available as a natatorium or pool room dehumidifier from 98 lbw/hr - 305 lbw/hr (23 - 70 tons)
- SB Series is available as a natatorium or pool room dehumidifier from 13 lbw/hr - 78 lbw/hr (3 - 18 tons)

Split Systems
CL Series condensing units can be matched with M3, M2, and SA Series indoor air handling units and M3, M2, RL, and RN Series outdoor air handling units as a natatorium dehumidifier from 197 - 953 lbw/hr (45 - 230 tons)

CC Series condensing units can be matched with M3, M2, SA, and H3/V3 Series indoor air handling units and M3, M2, RL, RN, and RQ Series outdoor air handling units as a natatorium or pool room dehumidifier from 12 - 275 lbw/hr (2 - 63 tons)

CC Series remote air-cooled condensers can be matched with SA Series indoor self contained units as a natatorium or pool room dehumidifier from 98 - 305 lbw/hr (23 - 70 tons)

CB Series condensing units can be matched with H3/V3 Series indoor air handling units and RQ Series outdoor air handling units as a natatorium or pool room dehumidifier from 12 - 39 lbw/hr (2 - 5 tons)

Corrosion Resistant - Double Wall Construction, Exterior and Interior Corrosion Protection, TEFC motors, Stainless Steel Gas Heat Exchangers, Polymer E-Coated Coils, Stainless Steel Drain Pans

AAON Natatorium or Pool Room Dehumidifier Advantages
**High Efficiency** - Direct Drive Backward Curved Plenum Fans, Double Wall Rigid Polyurethane Foam Panel Construction with a R-value of 13 or greater, 10 - 100% Variable Capacity Scroll Compressors, Variable Speed Scroll Compressors

**Flexibility** - Factory Installed Total and Sensible Energy Recovery Wheels, High Efficiency Filtration, Modulating Humidity Control, Makeup Air Capability, R-410A Scroll Compressors, Economizers, VFD Controlled Supply, Return and Exhaust Fans, Factory Installed Control Options

**Serviceability** - Hinged Access Doors, Access to All Sections of the Unit, Color-Coded Wiring

**Solutions** - Replacement or New Construction, Small, Medium, and Large Indoor Swimming Pools, Exercise and Fitness Club Pools, Therapeutic Pools, Spas and Hot Tubs, Hotel and Motel Pools, Public and Institutional Pools, Indoor Aquatic Centers, Indoor Water Parks
AAON can provide the exact level of control that is needed for any application. Multiple control configurations are available from a simple terminal block for a field installed controller to factory installed controls which can be integrated into a building automation system.
THE **WATTMASTER ORION CONTROL SYSTEMS VCM-X CONTROLLER** WAS DEVELOPED TO PROVIDE A POWERFUL YET SIMPLE CONTROL SOLUTION FOR AAON EQUIPMENT. THE VCM-X ALLOWS USERS TO TAKE FULL ADVANTAGE OF AAON EXCLUSIVE FEATURES WITHOUT THE ADDITIONAL COST OR COMPLEXITY OF DESIGNING A UNIQUE CONTROL STRATEGY FOR EACH JOB.

**VCM-X Advantages**

- Controllers can operate as a stand alone system, interconnected together, or networked together.
- Only simple field configuration is needed to start up equipment. Controller requires no additional programming because all control applications and operational features are factory embedded.
- Operator interface options include handheld Modular Service Tool, wall mounted System Manager, wall mounted Touch Screen System Manager, or PC with free Prism II configuration software.
- Protocol Adaptability™ is available for interfacing to LonWorks®, BACnet®, or Johnson Controls N2™ control systems.
- Remote connectivity via dial-up or internet connections.
- Control capabilities include among many others: Variable air volume, constant volume, makeup air, advanced dehumidification strategies, heat pump heating, variable air volume heat pump cooling and heating, building pressure control, indoor air quality control (CO₂), modulating DX cooling, and makeup air/constant volume.

**FREE!!!** Prism II software offers a Windows based graphical interface for user interaction with for the building’s HVAC system. It provides enhanced, easy to understand status screens for each type of WattMaster system installed. Prism II software has provisions for custom screens which allow floor plans, equipment photos or user defined summary screens to be implemented by the user to meet their own individual needs. All controlling setpoints, trend logs and alarm conditions are accessed in the Prism II environment. Prism II can be configured for a direct on-site installation, a remote modem connection, or a TCP/IP internet connection to several installations.

The VCM-X Controller is designed with 7 analog inputs, 2 analog outputs, and 5 relay outputs. The VCM-X Controller can be configured for control of VAV Units (with or without VAV/Zone Controllers), Constant Volume Units, and Makeup Air Units. Most common HVAC unit control applications can be configured using only the VCM-X Controller. If the application requires more inputs and/ or outputs, optional expansion modules are available to provide for additional analog, binary, or digital inputs and outputs as required.
THE AAON JENESYS CONTROLLER, POWERED BY NIAGARA™ FRAMEWORK™, IS AN INTERNET BASED STAND ALONE CONTROLLER DEVELOPED FOR NETWORK APPLICATIONS. THE CONTROLLER IS IP ADDRESSABLE, CAN RESIDE ON A TCP/IP NETWORK AND CAN HAVE ALL UNIT AND SYSTEM FUNCTIONS CONTROLLED WITH AN INTERNET BROWSER IN REAL-TIME; INCLUDING SETPOINT ADJUSTMENT, SCHEDULING, ALARMING, TRENDING, LOGGING, AND DIAGNOSTICS. CONTACT AAON APPLICATIONS DEPARTMENT FOR MORE INFORMATION.

AAON JENESys Controller Advantages
- Controller can be directly integrated into LonWorks®, BACnet®, Modbus®, and other widely-used building automation systems. No external devices are needed for integration.
- Connections included on controller include two RJ-45 Ethernet ports, one RS-232 port and one RS-485 port.
- XML security functions cover platform, administration and user access.
- Scalability of the control provides solutions from the smallest to largest AAON equipment and incorporates a future-proof strategy that evolves as building automation strategies change. Up to one 34 I/O point and two 16 I/O point expansion modules are available to manage additional features and options. Individual sensor options and unit control options are also scalable with extra sensors available to be added to any control package.
- Control capabilities include among others: Variable air volume, constant volume, makeup air, advanced dehumidification strategies, heat pump heating, building pressure control, indoor air quality control (CO₂), modulating DX cooling, and even custom control solutions.

THE AAON MINI CONTROLLER IS A SIMPLE CONTROLS OPTION FOR ENERGY SAVING APPLICATIONS. IT IS MOUNTED IN THE SPACE SIMILAR TO A CONVENTIONAL THERMOSTAT. A LEAD/SINGLE VARIABLE CAPACITY SCROLL COMPRESSOR (WITH UP TO TWO TOTAL COMPRESSOR STAGES), AIR CONDITIONER OR HEAT PUMP CONFIGURATION, ECM DRIVEN/ VFD CONTROLLED VARIABLE SPEED SUPPLY FAN, SENSIBLE OR ENTHALPY CONTROLLED ECONOMIZER AND MODULATING GAS/SCR ELECTRIC HEATING ARE CONTROLLABLE WITH THE AAON MINI CONTROLLER.

AAON Mini Controller
- Modulating hot gas reheat is available with a space temperature sensor and space relative humidity sensor version of the controller.
- Push button override, alarms and trend logging are available directly from the controller.
- The controller can be used for constant volume air conditioner and heat pump applications or single zone VAV air conditioner and heat pump applications.
- Weekday, weekend, entire week or daily scheduling is available with the AAON Mini Controller. Twelve days of holiday scheduling are also available.
- The AAON Mini Controller can be directly connected to a BACnet® MSTP network through an EIA-485 connection. The MAC Address, Baud Rate and Max Master are configurable.
- The AAON Mini Controller includes password protected User, Operator and Administrator profiles for configuration, scheduling and setpoint adjustment levels of control.
THE MICRO CONTROL SYSTEMS (MCS) MAGNUM CONTROLLER IS FACTORY INSTALLED ON ALL CHILLER EQUIPMENT. THE CONTROLLER AUTOMATICALLY CYCLES COMPRESSORS TO MAINTAIN LEAVING WATER SET POINT TEMPERATURE OVER A WIDE VARIETY OF OPERATING CONDITIONS. THE LARGE LCD DISPLAY PROVIDES LOCAL SYSTEM INFORMATION FOR SCHEDULED SERVICE AND MAINTENANCE. CONNECTIONS ON THE MCS CONTROLLER ALLOW BUILDING MANAGEMENT SYSTEMS INTERACTIVE COMMUNICATION OR MONITORING OF THE UNIT.

MCS Magnum Controller Advantages
- Controller can be directly monitored by Modbus® protocol with up to 115,200 baud through the RS-485 Comm Port.
- Controller can be directly monitored by BACnet® and Modbus® IP through a 10 Mbps Ethernet.
- Controller can be communicated via LonTalk®, BACnet® MSTP or N2™ protocols through a factory installed external adapter.
- Interactive communication with the controller can be done through MCS protocol through either the RS-485 Comm Port or Ethernet connection.
- Standard sensors monitor entering water temperature, leaving water temperature, and evaporator flow. Sensors also monitor each refrigerant circuit’s suction temperature and pressure.
- Optional diagnostic sensors provide each refrigerant circuit’s discharge temperature and pressure. Optional diagnostic sensors also monitor each compressor’s current.
- Optional 56K modem allows remote communication to the unit from MCS, AAON, or the customer to assist with service, diagnosis, and program updates.

TERMINAL BLOCK OR CUSTOMER INSTALLED CONTROLS IS A LOW VOLTAGE TERMINAL BLOCK WITH LABELED CONNECTIONS PROVIDED FOR FIELD CONNECTION TO A THERMOSTAT OR A FIELD PROVIDED AND INSTALLED CONTROL SYSTEM. FACTORY INSTALLED ISOLATION RELAYS CAN BE PROVIDED TO PREVENT A VOLTAGE DROP IN THE CONTROL CIRCUIT.

FACTORY INSTALLED CUSTOMER PROVIDED CONTROLS IS A FEATURE AVAILABLE FROM AAON THAT ALLOWS YOU TO SPECIFY THE TYPE AND MANUFACTURER OF THE CONTROLLER TO BE USED IN YOUR AAON EQUIPMENT. THE AAON SALES REPRESENTATIVE AND AAON APPLICATIONS PERSONNEL WILL REVIEW YOUR SPECIFIC CONTROL REQUIREMENTS TO VERIFY THAT THE CONTROLLER SELECTED IS CAPABLE OF PROVIDING ALL INPUTS AND OUTPUTS REQUIRED TO OPERATE AAON EQUIPMENT. BY UNDERSTANDING THE APPLICATION AND THE CONTROLLER SELECTED FOR USE, THE AAON ENGINEERING DEPARTMENT CAN VERIFY IF THE CONTROLLER IS ABLE TO PHYSICALLY FIT IN THE CONTROL CABINET ALONG WITH THE OTHER REQUIRED FACTORY INSTALLED COMPONENTS. AAON WILL THEN INTEGRATE THIS CONTROLLER INTO THE EQUIPMENT AND CREATE A CUSTOM WIRING DIAGRAM SPECIFICALLY FOR YOUR UNIT.

THIS OPTION ALLOWS COMPLETE FLEXIBILITY IN CONTROLS USED ON THE JOB AND PREVENTS JOBS FROM BEING LOCKED INTO PROPRIETARY CONTROLLERS OR MANUFACTURER SPECIFIC CONTROL STRATEGIES. FACTORY INSTALLED CUSTOMER PROVIDED CONTROLS SAVES TIME AND MONEY AT THE JOB SITE BY ALLOWING AAON EXPERT TECHNICIANS WHO HAVE KNOWLEDGE OF AAON EQUIPMENT TO INSTALL AND WIRE THE CONTROLS AT THE FACTORY.
SINCE ITS INCEPTION AAON HAS PROVIDED DESIGNS OF THE HIGHEST QUALITY AND PERFORMANCE THAT LEAD THE HVAC INDUSTRY. OUR OBJECTIVE REMAINS THE SAME! PERFORMANCE ORIENTED PRODUCTS THAT PERFORM BEYOND EXPECTATIONS AND PROVIDE LIFE-CYCLE DEPENDABILITY AT A REASONABLE FIRST COST.


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