

Self-Contained Systems

SA Series

SB Series



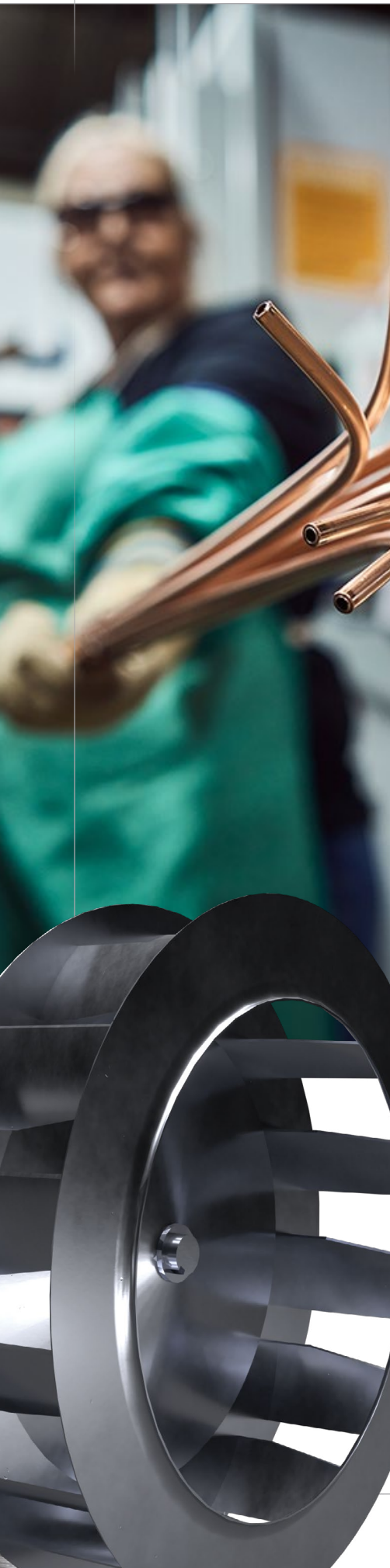


AAON self-contained systems deliver a compact footprint without compromising performance. Because small size should never mean settling for less.

Contained, Not Constrained

AAON self-contained systems are engineered for easy installation, straightforward maintenance, and outstanding energy efficiency. Their flexible design allows for simple relocation or replacement as needs evolve, and they can be configured to suit a wide variety of building layouts.





Engineered for Durability and Serviceability

DURABLE, ENERGY-EFFICIENT EQUIPMENT

AAON self-contained systems offer a high-performance, compact solution built to last. Double-wall construction with closed-cell polyurethane foam insulation and G90 galvanized steel walls delivers an insulation R-Value of 8 or 16 - maximizing rigidity, durability, and thermal performance while minimizing unwanted heat transfer.

ENHANCED AIRFLOW

Makeup air capabilities and low-leakage AAON economizers support up to 100% outside air, ensuring optimal indoor air quality. Available with modulating reheat for precise humidity control in any climate.

STREAMLINED INSTALLATION AND SERVICEABILITY

AAON equipment is designed to minimize downtime and reduce service costs. Color-coded wiring diagrams, heavy-duty access doors and handles, and strategically placed service access points make diagnostics and maintenance fast and efficient. The SB Series is available in sizes that fit through a standard doorway, with an optional forklift-capable base for added installation ease.

FLEXIBLE PRODUCT APPLICATIONS

Every AAON unit is manufactured to the customer's specific requirements. Our semi-custom approach means equipment is built to order, delivering a tailored product design without fully custom pricing. We build products for our customers, not customers for our products. Self-contained systems are available for a wide range of applications, including geothermal and water-source heat pump configurations.

MODULAR DESIGN

SA Series self-contained systems feature a modular design, available in four capacity sizes with a single air intake. These units can also be matched together providing scalable solutions for evolving building needs to increase the capacity with two air intakes.

HIGH EFFICIENCY FANS

SB Series self-contained systems feature supply fans driven by the advanced Hybrid Permanent Magnet Motor, achieving an International Efficiency rating above IE5 - the highest efficiency level available today. These motors excel across all load conditions, particularly at reduced fan speeds, delivering sustained energy savings over the life of the unit.

Industries

EFFICIENT SOLUTIONS FOR EVERY ENVIRONMENT

Education: Schools and universities demand consistent comfort, clean air, and minimal disruption. AAON self-contained systems are engineered for technician-friendly installation and maintenance, ensuring HVAC service never interrupts the learning environment. High-efficiency filtration up to MERV 14 supports healthy indoor air quality for students and staff.

Healthcare: Healthcare facilities require precise temperature and humidity control, rigorous air quality standards, and equipment that performs reliably around the clock. AAON self-contained systems offer modulating reheat for exact humidity management, MERV 14 filtration, and robust construction that supports the demanding uptime requirements of clinics, medical offices, and outpatient facilities.

Hospitality: Guest comfort is the cornerstone of hospitality. AAON self-contained systems deliver quiet, consistent climate control that keeps guests comfortable while keeping operating costs in check. Compact and easy to relocate, they adapt seamlessly to hotel renovations and changing floor plan configurations.

Retail: Retail environments need reliable, cost-effective climate control that enhances the shopping experience. AAON self-contained systems provide energy-efficient operation and easy maintenance, keeping stores comfortable year-round while reducing overhead costs for operators.



Low GWP Refrigerant

AIM ACT COMPLIANT

AAON Self-Contained systems are compliant with the AIM Act of 2020, utilizing low GWP refrigerant R-454B. With a GWP of 466, R-454B offers similar capacity and properties to R-410A, ensuring compliance with upcoming regulations while minimizing product redesign time and cost.



Configurability

SELF-CONTAINED SYSTEMS MODELS — SA/SB SERIES

The SA and SB Series set the industry standard in construction, technology, and efficiency. Variable-capacity scroll compressors, direct-drive backward-curved plenum supply fans, and double-wall rigid polyurethane foam injected cabinet construction delivers unmatched performance.

SA Series: Available in capacities from 23 to 70 tons

SB Series: Available in capacities from 3 to 18 tons

PREMIUM INDOOR AIR QUALITY

Up to MERV 14 pleated air filters are available for superior particle capture, including viruses, while standard AAON backward-curved supply fans handle the additional static pressure with ease. For enhanced energy recovery, AAON AIRE Energy Recovery Wheels are available in total or sensible configurations on the SB Series, improving both energy efficiency and indoor air quality by supporting greater outside air delivery with improved humidity management.

Advantages — Innovative Features for Peak Performance

MAXIMUM COMFORT AND ENERGY SAVINGS

Modulating compressors paired with modulating hot gas reheat minimize temperature swings and deliver precise humidity control for a consistently comfortable environment. By operating at variable capacities matched to real-time demand, these systems achieve the highest levels of energy efficiency throughout the year.

RIGOROUS QUALITY TESTING

Every AAON unit is run-tested before leaving the facility. For additional assurance, the NAIC laboratory offers comprehensive testing options, including customer witness testing, environmental simulation, and sound testing - so you can be confident in your equipment before it reaches the job site.

FREE LOW AMBIENT COOLING

Factory-installed constant or variable-flow waterside economization enables free cooling during low-ambient conditions, reducing compressor runtime and energy consumption. Available on the SA Series.

DEDICATED CUSTOMER SUPPORT

We provide world-class customer and technical support throughout the lifespan of every AAON products, ensuring reliable operation and peace of mind every step of the way.

CONTROL FLEXIBILITY

AAON self-contained systems support both factory-provided controls and third-party control systems. Either way, controls are factory-installed for seamless plug-and-play operation from day one.



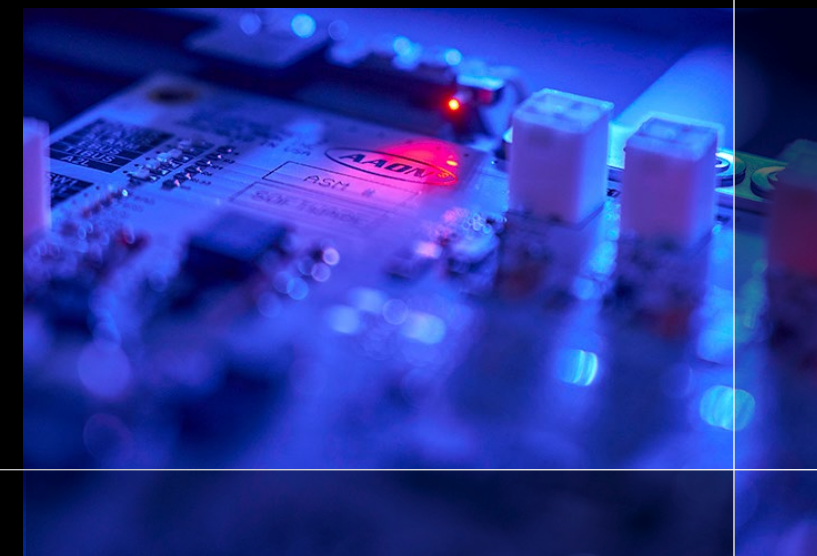
SA SERIES

Capacity 23–70 tons



SB SERIES

Capacity 3–18 tons





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