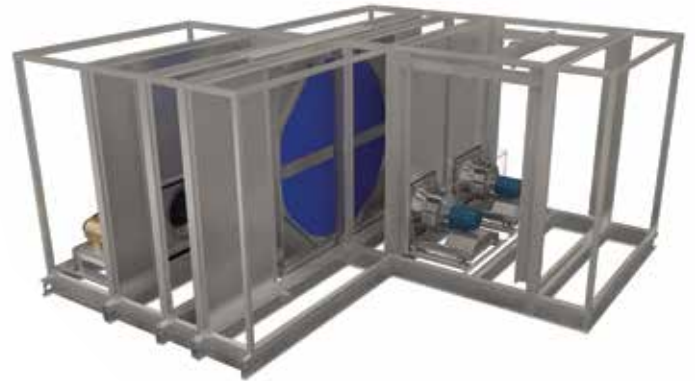




Custom air handlers



900 - 129,000 cfm

For demanding high static and low-leakage applications



Daikin Applied custom air handlers offer a wide selection of features and flexible design options that enable specifying engineers to build the ideal air handler to fit demanding, new or existing building space requirements. Building owners and facility managers of high static, low leakage applications like healthcare, cleanroom, lab facilities, as well as education and government buildings, look to Daikin Applied to provide custom air handler solutions for indoor environments where occupant comfort and indoor air quality can't be compromised.

Custom air handler benefits

- Optional class 6 leakage of up to +/- 8" internal static pressure
- Variable geometry
- Unlimited configurations
- Energy recovery options
- Extended sizing
- Fan/fan array options
- Certified/pre-approved seismic compliance

Focused on a sustainable future

Daikin Applied is committed to sustainable practices as part of our corporate culture. We believe it is the right thing to do for our customers, our community, the environment and ourselves. As a global leader in HVAC technology, Daikin Applied has a unique opportunity to make a difference in sustainable initiatives and to continue to lead the industry in environmental solutions.



Flexibility to design...

Build the ideal air handler

Cabinet construction

Choose from a variety of build options to suit any application, including those in OSHPOD & IBC construction. Daikin Applied offers options for stainless steel or aluminum liner construction, varying steel gauge thicknesses, and galvanized or pre-painted steel cabinet finishes. For high static, low leakage applications, we incorporate high pressure panels, doors, handles, and seals that provide ASHRAE 111 Class 6 leakage (0.27 cfm per ft² at +/-8" cabinet pressure).



Stacked configuration

Advanced filter options

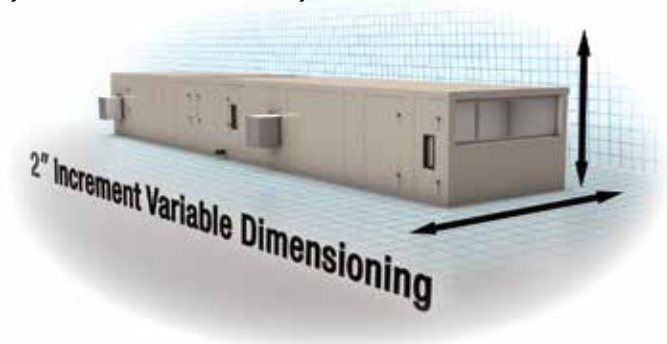
Low pressure filters - featuring 2" and 4" angular or flat, cartridge, or bag.

Gas phase filters - gas media or blended media to address specific gaseous contaminants or provide broad spectrum filtration.

HEPA filters - remove 99.97% of all particles greater than 0.3 micrometer from the air path.

2" Variable dimensioning

For demanding applications that require an optimized footprint, our unique, patented 2" variable dimensioning feature provides tremendous component width/height sizing flexibility and allows you to configure the optimal air handling system for your job's environment and objective.



Stacked, side-by-side... unlimited configurations

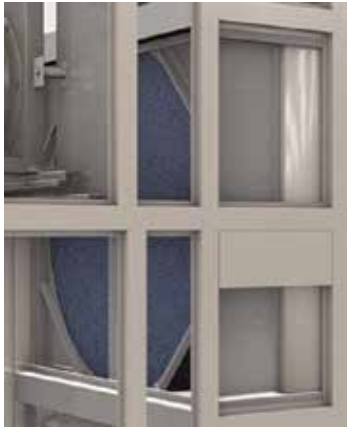
For strict, space-limiting applications, Daikin's custom air handlers offer unlimited configuration options and footprint flexibility to meet your most complex needs. Limited to room height restrictions? A side-by-side configuration option allows you to build out instead of up. For width limiting rooms, choose a stacked configuration option that allows you to build up instead of out.



Side-by-side configuration

Access & service vestibules

Maintenance friendly access and service vestibules can be customized with aluminum diamond treadplate floors for added corrosion resistance and increased traction and support in slippery conditions.



Tempered round windows

Factory-installed tempered Plexiglas windows structurally create the strongest and tightest seal available and are ideal for custom units in high static/low leakage applications.

Inward swinging doors/inside door handles

For air handling applications where positive pressure sections are required, Daikin offers inward swinging doors, as well as inside door handles for easy serviceability.

Energy recovery wheel

Energy recovery wheels (an AHRI 1060 certified component) are an excellent addition to our custom units and offer a cost-effective and efficient method of containing energy costs while meeting ASHRAE 62.1 ventilation requirements. They recover both heat and moisture energy, are factory-installed and tested, and are available in 100% outdoor air or economizer configurations.



Splice Collar

Maneuverable modular sections

Modular designed sections

Our custom modular design allows sections to easily pass through narrow halls and doorways to a mechanical room where they are then quickly joined together using our unique, patented splice collar design. This lowers installation costs by avoiding in-space construction and is ideal for retrofit applications.



Dual fan

UV lights/anti-microbial protection liner options

As logical, cost effective additions for care facilities where ambient conditions routinely involve high humidity levels, the protection liner and UV lights improve IAQ by diminishing surface mold, bacteria and associated toxins that otherwise can contaminate interior walls, coils, drain pans, and air streams.



Roller cam door handles

Custom high filtration units operate at extreme pressures. To help minimize air leakage, we incorporate strengthened door handles with roller cams that ensure door seals remain air tight.



Robust cabinet construction

Double wall, R-13 foam-injected panels with welded gasketed frame channels provide ASHRAE 111 Class 6 leakage for demanding filtration applications like healthcare or cleanroom facilities.

Direct drive, belt drive, fan array options

Custom air handler fan selections provide options for maximizing footprint design and can incorporate sound attenuating walls for low decibel operation for sound sensitive areas. Choose from single/dual belt-drive or direct drive fans, or for the ultimate in fan redundancy and easy maintenance, select from our fan array options.



Fan array

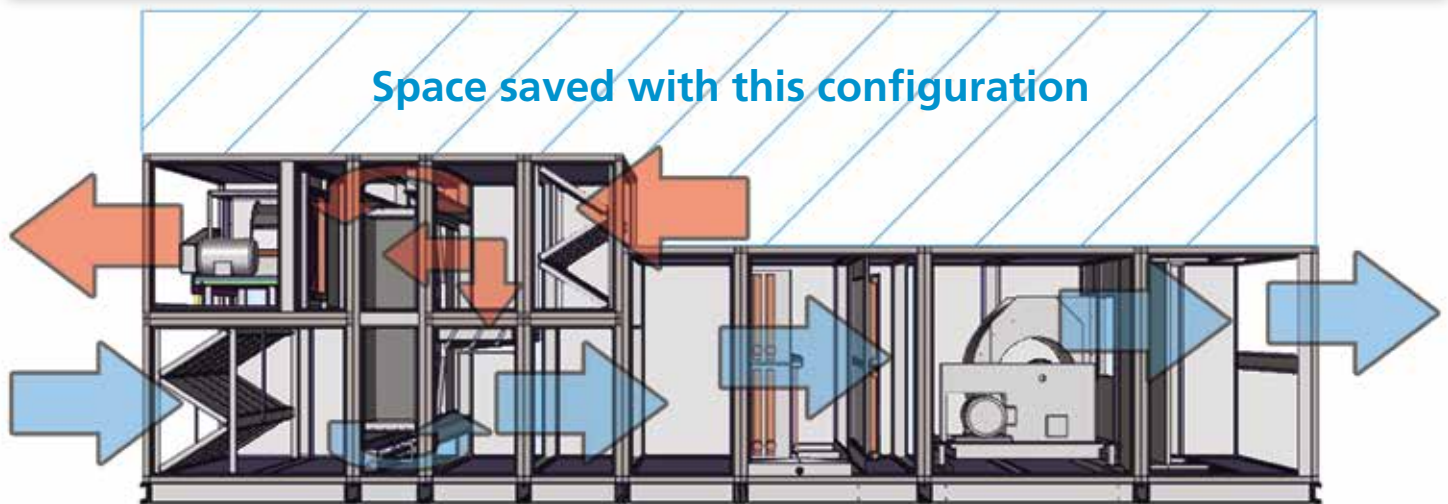


Extensive coil selections

A variety of cooling, heating, steam, and evaporator coils with extended coil connections and gasketed air seals are available to provide energy savings, high-efficiencies, and maximum heating/cooling transfer. Choose from aluminum, copper, or electro-coating construction and take advantage of our wide range of tube/fin thicknesses and circuiting for obtaining the ultimate in high-quality performance.

Custom built for optimum footprint, performance, and reliability

Design complex solutions with pre-engineered components



Mixed cabinetry configuration with energy recovery wheel

Choose from unlimited configuration possibilities

- Horizontal w/economizer
- Stacked
- Energy recovery wheel (ERW)
- Side-by-side ERW
- Dual ERW
- Fixed plate heat exchanger
- Heat recovery wheel
- Multizone
- Dual path exhaust ERW
- Redundant fans
- Short economizer with exhaust air dampers
- Side return air
- Dual duct with final filters
- Dual direct drive fans
- Dual wheel with UV, 3 fan, 2 exhaust air paths
- Side-by-side with mismatched air paths
- Stacked energy recovery with mismatched cabinet heights
- Dual air path with ERW
- ERW, fixed plate with fan array
- Triple stacked
- Humidifier and evaporative cooling
- Split outside air dampers
- Bypass damper on cooling coil
- Sidecar ERW
- AND MORE!

For more information about Daikin commercial, semi-custom, and custom air handlers, contact your local Daikin Applied sales office or visit www.DaikinApplied.com to find an office near you.