EXCEL AIR SYSTEMS

SEALED ROOM

Total environmental control within a sealed environment.

SPOT COOLING

Versatile unit configurations allow for specific area cooling.

MOBILE PLUG & PLAY

The system can be setup in minutes using quick connect fittings.

EXCEL AIR SYSTEMS

We design, manufacture and support next generation environmental control units. Our units are capable of controlling temperature, humidity and air filtration. All of our units come with the ability to connect via Plug and Play fittings, allowing anyone to complete the installation or a Pro Series model, where a certified mechanic is required. We offer several additional products such as Fabric Ducting solutions, UV Air Purification and Data Analytics

+ OVER 12 YEARS IN BUSINESS

+ 3000+ UNITS BUILT

+ 1 SOLUTION FOR: TEMPERATURE, HUMIDITY + AIR QUALITY

controls to make any environment more reliable and efficient. Excel Air Systems believes innovation comes from taking complex ideas and finding ways to make them simple.

CRAFTSMANSHIP

Every product is designed, produced and assembled in British Columbia, Canada. We create each system from the ground up. Our Shop Technicians are incredibly good at what they do and their work shows it.

SERVICE

Our Product Specialists are extremely knowledgeable and willing to find the best solution for your project. We offer free consulting and 3D room designs to ensure you select a system that will meet or exceed your expectations.

SUPPORT

Our technical support is the best in the industry. Our Technicians have a tremendous amount of experience dealing with high pressure situations. Before, during or after the installation, we're here to assist.

OUR COMMITMENT

We understand each clients setup is unique, from the general layout, budget and overall level of control within the space. We make sure each solution is planned out from start to finish, ensuring a simple and effective project installation.

TOTAL ENVIRONMENTAL CONTROL

TEMPERATURE

HUMIDITY

AIR FILTRATION

Designed specifically for sealed room applications, it provides the ultimate control in temperature, humidity and air quality. The Evolution Series is designed for those who want the very best in environmental control.

EVOLUTION SERIES

FULL ENVIRONMENTAL CONTROL UNIT

The Evolution Series is a total environmental control unit designed specifically for sealed room applications. The unit is capable of mass dehumidification, air conditioning and air filtration. We designed an advanced system that is incredibly simple to install and operate. We believe innovation is taking complex systems and making them simple.

The Evolution Series is engineered to utilize our next generation modular platform. This allows us to customize each system to the clients specific needs, maximizing the overall versatility of the unit. This platform also allows us to offer the Evolution Series in both

a cooling only and cooling + dehumidification. Both models are available in Plug & Play with quick connect fittings or Pro Series for HVAC mechanics.

Both units offer identical add-on capabilities with CleanAir Filtration, UV Air Purification, Fabric Ducting solutions as well as Data Analytics. The units are available in sizes ranging from 2.0 TON (24,000BTU) - 5.0 TON (60,000BTU) in 208/230V 1 & 3 Phase.

Any product is only as good as the company that supports it, that's why we are very proud to offer the industries best service and support!
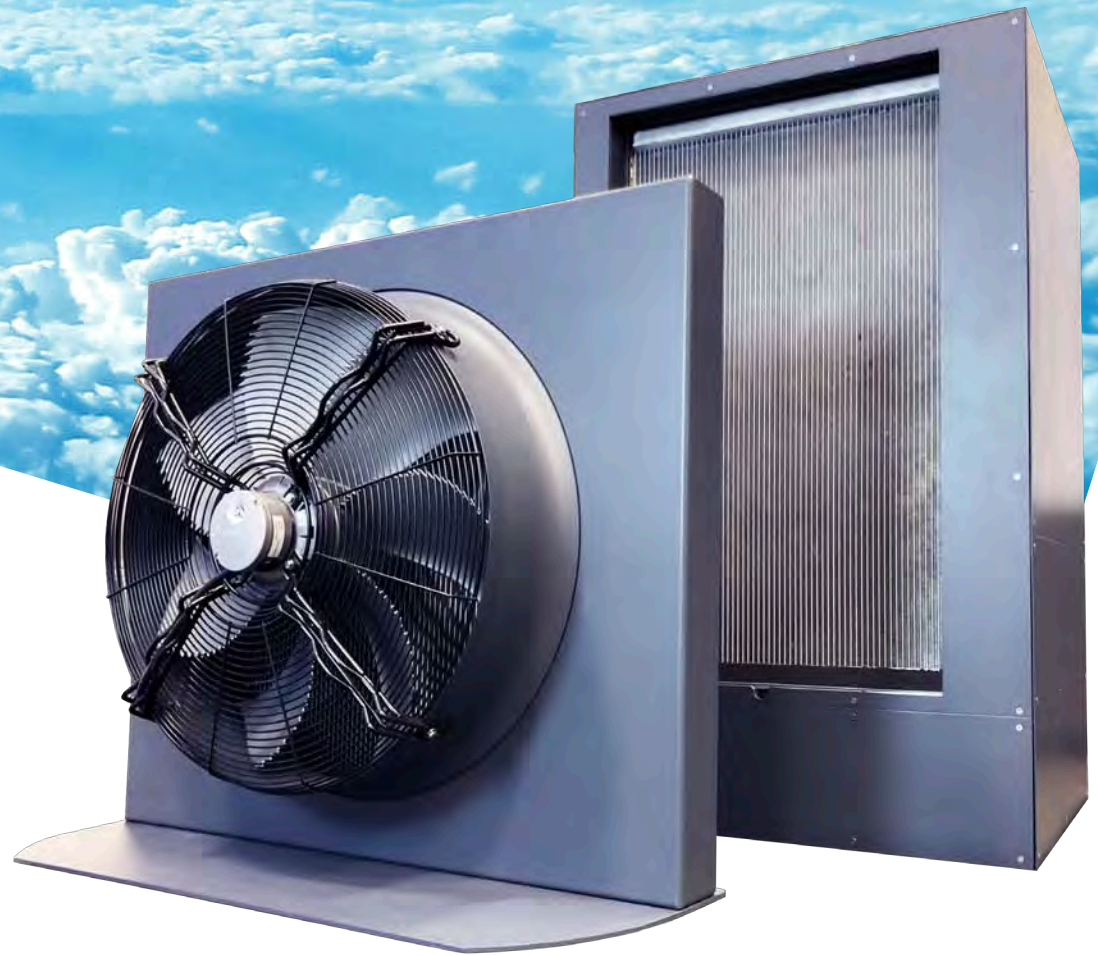
EVOLUTION SERIES 2.0 TON (24,000BTU) SYSTEM
Ultra compact Air Handler capable of air conditioning and mass dehumidification.

WHY IS THE EVOLUTION SERIES THE ULTIMATE ENVIRONMENTAL CONTROL UNIT?

There is no other unit on the market this compact in size, equipped with industry leading components or designed for ultimate versatility. It's truly a next generation system created for the world's harshest environments. The Evolution Series is for those that want the very best in temperature, humidity and air quality control.

- ✓ **UP TO 3400 CFM OUTPUT**
- ✓ **REMOVE UP TO 400+ PINTS PER DAY**
- ✓ **UP TO MERV 15 FILTRATION**
- ✓ **COLD WEATHER OPERATION -35F**
- ✓ **CONDENSER DB RATING 56**
- ✓ **12 YEARS IN BUSINESS**
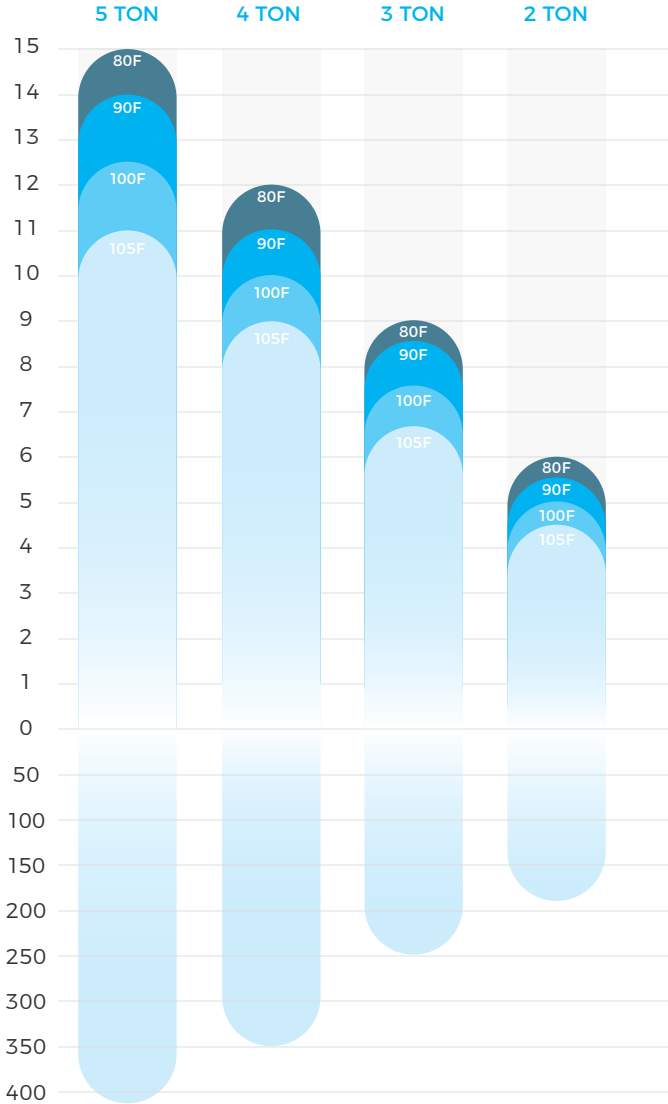- ✓ **3000+ UNITS BUILT**

EVOLUTION SERIES 5 TON (60,000BTU) SYSTEM
Capable of maintaining a heat load of 15 kW while removing up to 400+ pints of condensation per day.
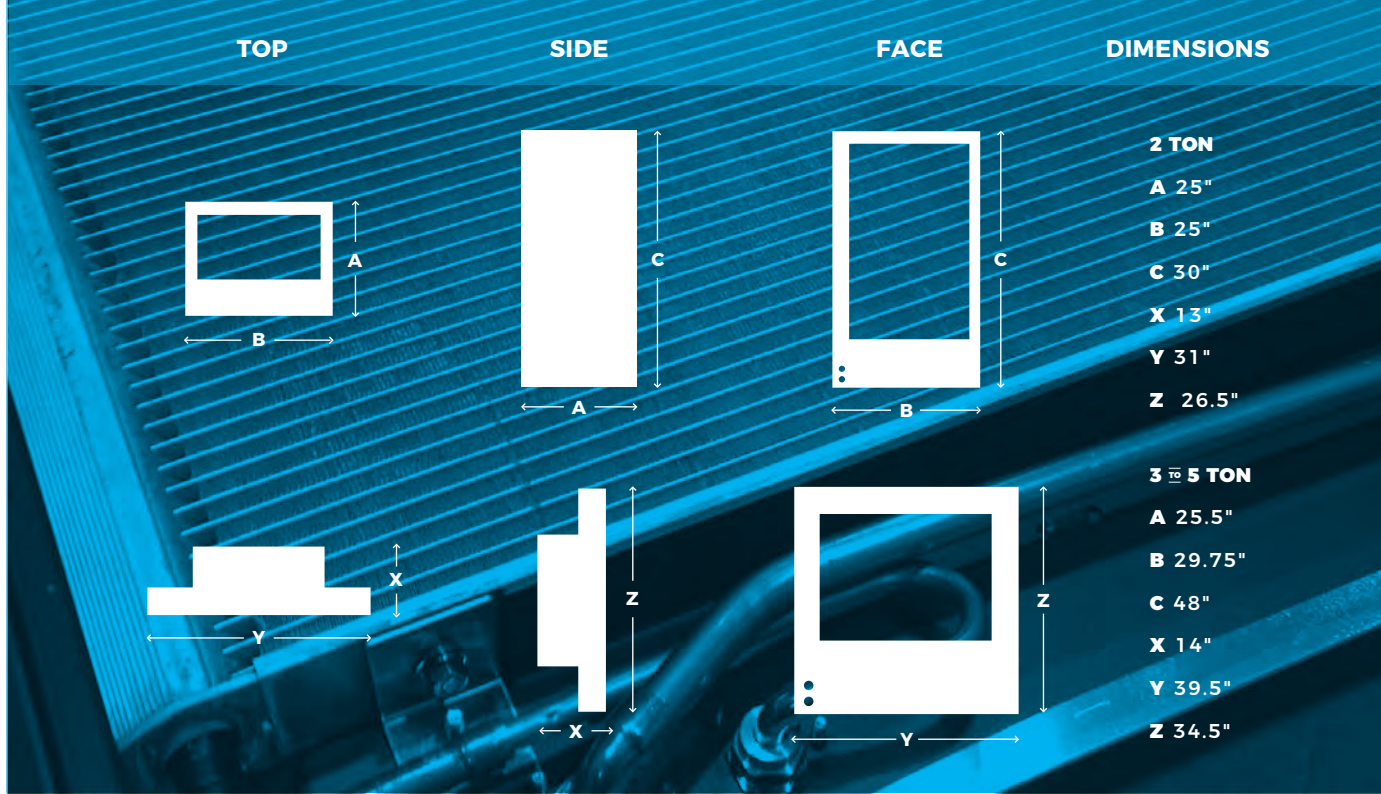
COOLING CAPACITY KW

5 TON	4 TON	3 TON	2 TON

Y-axis: 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0

Bar labels: 80F, 90F, 100F, 105F

SHOWING PINTS PER DAY AT 80F @ 60% HUMIDITY

Y-axis: 50, 100, 150, 200, 250, 300, 350, 400

TOP   SIDE   FACE   DIMENSIONS

2 TON
A 25"
B 25"
C 30"
X 13"
Y 31"
Z 26.5"

3 TO 5 TON
A 25.5"
B 29.75"
C 48"
X 14"
Y 39.5"
Z 34.5"

TONNAGE	2 TON	3 TON	4 TON	5 TON
BTU	24,000	36,000	48,000	60,000
COOLING CAPACITY	6,000W	9,000W	12,000W	15,000W
PINTS 80F/60%	180	250	350	410
POWER	230V 1ø / 3ø	230V 1ø / 3ø	230V 1ø / 3ø	230V 1ø / 3ø
AMPERAGE	13.9 / 9.6	18.5 / 12.7	25.2 / 16.1	29.5 / 19.2
AIR HANDLER CFM	2400	3000	3400	3400
OUTDOOR dB L/M/H	48 / 58 / 68	55 / 62 / 69	55 / 62 / 69	55 / 62 / 69
INDOOR dB	68	69	69	69
CONDENSER WEIGHT	79LBS	126LBS	126LBS	126LBS
AIR HANDLER WEIGHT	189LBS	260LBS	305LBS	305LBS

CLOUDMAKER
HUMIDIFICATION SYSTEM

MAINTAINING BALANCE DURING PRE-GROWTH.

Keeping humidity ideal is vital to maintaining a healthy plant, particularly when it comes to clones and young transplants.

When moving into a vegetative state, plants can become shocked, as they are not yet large enough for any significant amount of transpiration. Under high-powered grow lights, required air conditioning drives humidity levels down, leaving young plants in shock for a certain duration .

By allowing plants to gain the necessary strength to overcome this imbalance, the CloudMaker ensures that they can thrive in their early stages.

In doing so, the CloudMaker Humidification System provides a the ideal runway for a much smoother transition.

Additional uses in drying and curing rooms allow for more accurately controlled rate of humidity balance as it nears its final resting point. Alternatively, it allows for correction if humidity falls too low.

Having the CloudMaker provides the ability to stage down humidity as slowly as needed, since its humidity output is greater than that of an environmental control system. This ensures a constant and exact rate of humidity decline, dramatically improving overall plant health

Specifications

- Flow Rate: 2.5 GPH
- 1000 PSI High-Pressure Pump 1.6A @ 115V
- Quad (4) Head Design (12.5W x 16.5H x 6"D)
- Integrated 5 Micron Water Filtration
- Control: WIFI Humidistat
- Additional: Can be controlled via dry set of contacts

Key Benefits

- ✅ 69 GALLONS (550 PINTS) PER DAY
- ✅ COMPACT DESIGN   ✅ WATER SAFETY SWITCH
- ✅ WIFI COMPATIBLE

FABRIC DUCT

A FULLY CUSTOMIZABLE SOLUTION TO ENSURE PERFECT AIRFLOW WITHIN ANY TYPE OF SPACE. WE OFFER THE FABRIC DUCT SOLUTION IN TWO OFFERINGS.

Plug & Play

Plug & Play as a quick kit in several packaged solutions that meet most general requirements. Simply run the included tension cable from one end of the room to the other and attach the 15' section of fabric duct to the cable using the integrated clips. Using the supplied lock-down strap attach one end of the fabric duct to your top plenum on your Indoor Air Handler. It's that easy! Additional duct lengths can be added using the ducts' built-in zipper system. The kit comes as a complete package with everything you'll need to setup your duct.

Complete Package

· 15' High quality polyester fabric ducting

· Integrated hanging clips

· 40' mounting cable

· (2) Tensioners (5) Lock-Nuts (3) Eyebolts

· Plenum mounting strap

· Zip-On end cap

Custom Duct Solutions

For those looking for a solution customized to specific project requirements. We offer a variety of fabrics such as; flame retardant, low static, antimicrobial and many others. Several hanging solutions such as; aircraft cable, T-Channel and spine to ensure installation and maintenance is simple and efficient.

Key Benefits

☑ EXTREMELY LIGHTWEIGHT ☑ QUICK SETUP ☑ EVEN AIRFLOW
☑ CUSTOMIZABLE ☑ MACHINE WASHABLE ☑ DUTY SPECIFIC FABRICS
☑ COLOR / BRANDING OPTIONS

UV AIR PURIFIER

KILL SPORES, BACTERIA, AND POWDERY MILDEW

The Excel UV Air Purifier is designed to change the molecular structure of the contaminants through DNA Sterilization and Photo-Oxidation using UV-C (254nm), destroying both biological and chemical contaminants. It will kill mold, bacteria and viruses! Simply mount inside the Indoor Air Handler or ductwork and easily wire the power supply to your existing 24V control in your Indoor Air Handler.

Complete Package

· Dual Shielded Quartz Germicidal UV-C Bulb

· Mounting Bracket with strong magnet

· Power Supply with watertight connector

Specifications

· 100% 254nm Spectrum Germicidal UV-C Bulb

· Shielded Quartz Hot Filament

· 18-32 VAC 60Hz, 0.68A 16VA

Key Benefits

☑ DESTROY MOLD, BACTERIA & SPORES ☑ OZONE FREE ☑ EASILY MOUNTED TO PLENUM OR INSIDE INDOOR AIR HANDLER
☑ 24V EXTREMELY LOW POWER CONSUMPTION ☑ WATER RESISTANT ☑ SCRUBS YOUR ENTIRE ROOMS VOLUME OF AIR HUNDREDS OF TIMES PER DAY
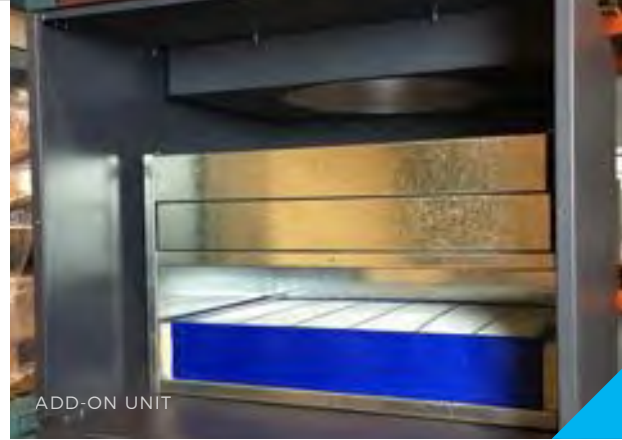
CLEANAIR FILTRATION SYSTEM

ADD-ON UNIT

AVAILABLE AS AN ADD-ON UNIT TO EXISTING EVOLUTION SERIES AIR HANDLERS OR AS A STANDALONE UNIT

STANDALONE UNIT

Evolution Series Add-On

Never before has it been possible to add this level of inline air filtration while still being able to control temperature and humidity. This ability is made possible by leveraging the incredible performance of our next generation backward inclined fan. With the CleanAir module inline you'll be able to remove harmful VOC's and particulate as well as harsh odors without requiring anything else besides your Evolution Series Indoor Air Handler.

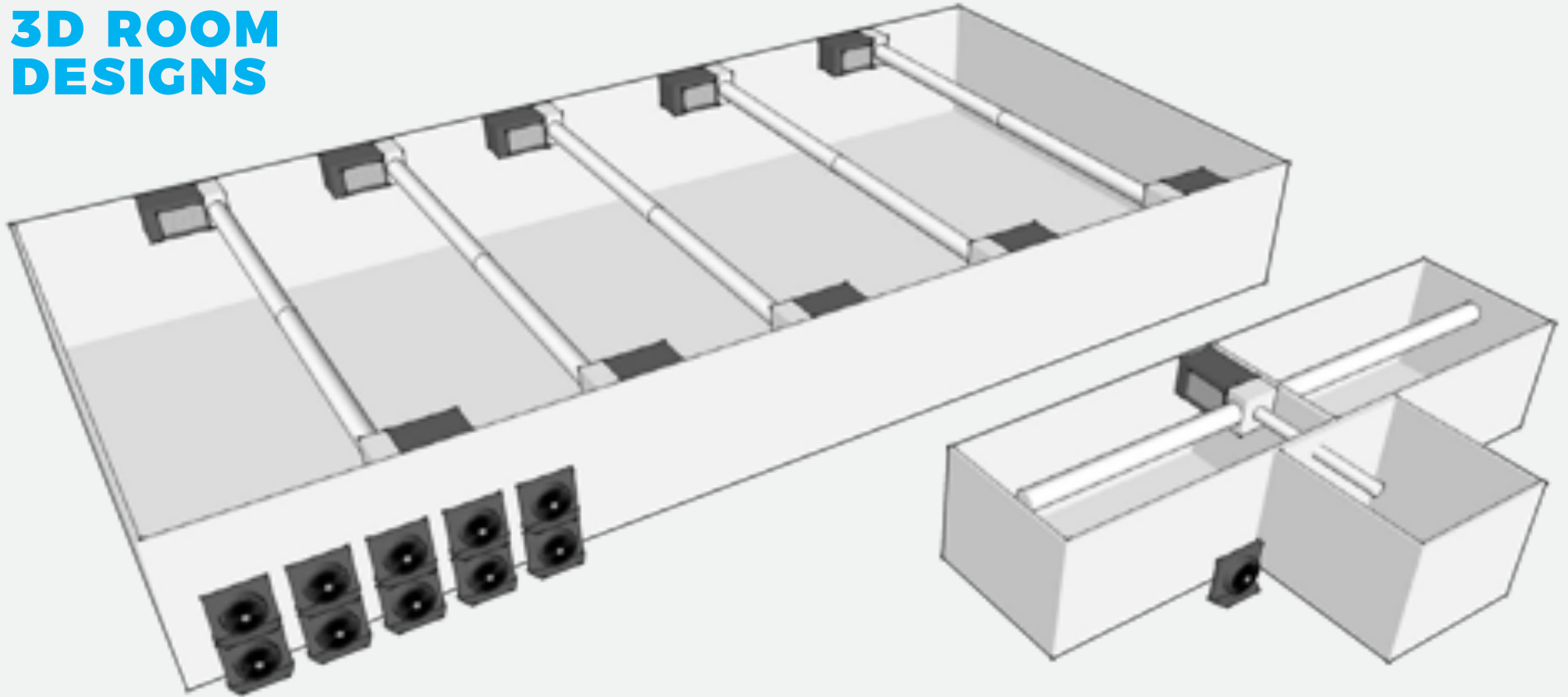### Standalone CleanAir Filtration System

The standalone CleanAir Filtration System is the ultimate in air filtration. The versatile 4 side design allows for both return and supply air to move in/out of any combination of sides depending on the project requirements. Easy access panel makes changing filters effortless as well as a quad tray design for simple maintenance of the carbon trays. This system also boasts the ability to integrate Excel Air Systems UV Air Purifier creating an unparalleled total air filtration system.

The CleanAir Filtration System is a multi-chamber filtration unit designed to remove harmful VOC's and particulate in the air. Each system will come with a pre-filter, a secondary high-efficiency filter (up to MERV 15) along with multiple trays of custom carbon.

Key Benefits

☑ ADD-ON TO ANY EVOLUTION SERIES INDOOR AIR HANDLER ☑ CLEAN ROOM GRADE VOC REMOVAL REMOVE UP TO 99% OF AIR PARTICULATE (MERV 15) ☑ CUSTOM SHALED COCONUT CARBON FOR MAXIMUM ODOR REMOVAL ☑ ABILITY TO INTEGRATE UV AIR PURIFIER ☑ SCRUB AREAS FROM 500-2500 SQ.FT.

3D ROOM DESIGNS

150kW Facility

Flexibility is crucial in large facilities meaning having multiple units allows for optimal airflow, power efficiency and failure redundancy. Our slim condensers also allow for wall bracketed cluster mounting.
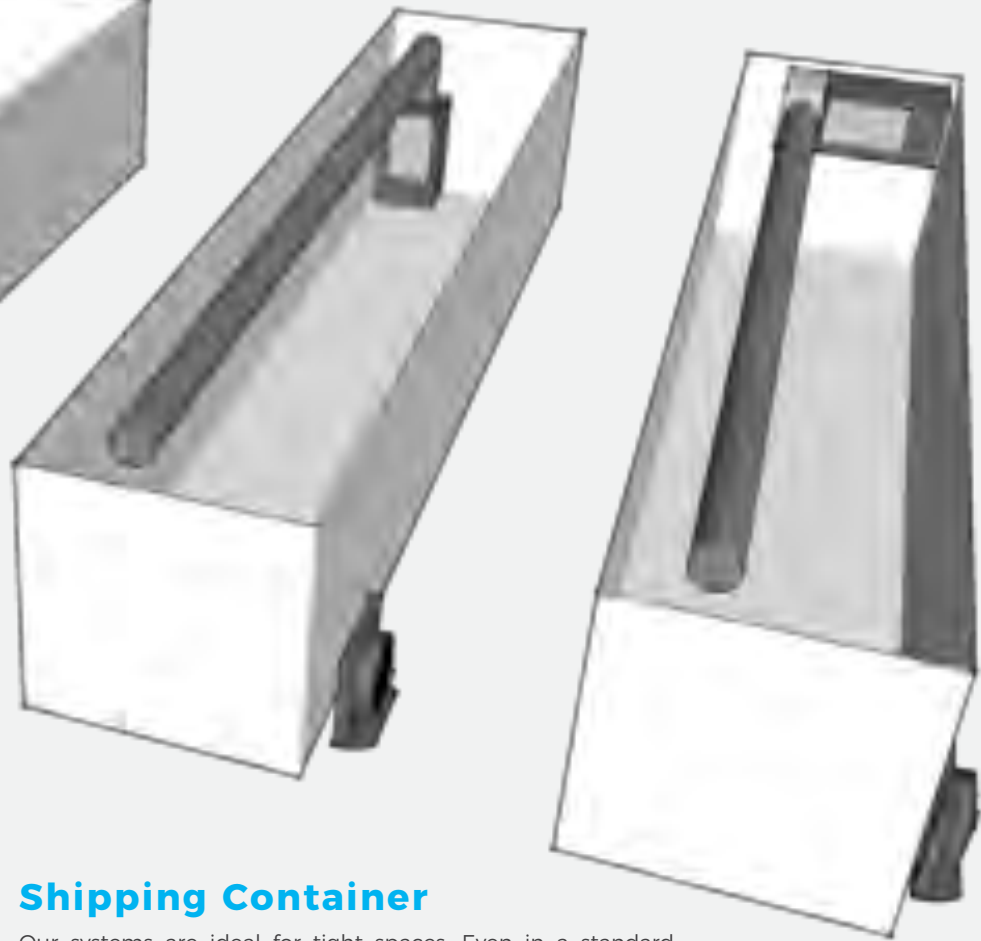
Multiple Zones

This design shows 3 rooms each with different requirements for cooling. We're able to achieve this by using 3 sets of motorized dampers, along with independent thermostats to open and close each set of dampers when cooling is required.

15 kW Room

A typical 40'x20' space with 15kW worth of total heat load. A single 5 Ton system with 15' of Fabric Duct is all that is needed to maintain a perfect temperature and humidity.

Shipping Container

Our systems are ideal for tight spaces. Even in a standard shipping container configuration, we offer both vertical and horizontal Air Handlers along with customized Fabric Ducting.
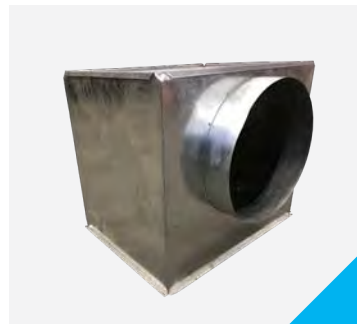
ACCESSORIES

ZONE CONTROLLER
Multi-zone controller that allows for numerous zone configurations. Set desired temperatures in each space and the controller will automatically open and close each zone. Package comes complete with custom plenums, motorized dampers and digital thermostats.

FLEXIBLE LINESET
No more bending or kinking soft copper! This lineset is engineered with a polyamide sleeve, flexible aluminum barrier and weather resistant rubber cover allowing for easy unit connections in any situation. Great for temporary installations or difficult line runs. The lines are available in various sizes and lengths. Compatible with R410A, R134A, R404A & R407A/C/F.

PLENUM
Adding a custom plenum to your unit will improve Air Handler efficiency and easier installation. The plenum is designed to take the turbulence out of the air and send it down the ductwork at a constant, even flow rate.

HEATER
Add an electric heater into any Excel Air Systems Air Handler. Maintain nighttime temperatures with this easy to install electric heater. Install into the Air Handler and simply set your desired heating temperature.

EXCEL AIR SYSTEMS

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