

**DO IT YOURSELF**

**2012**  

---

**SPRING**



**EXCEL AIR SYSTEMS**

*Air Cooled Air Conditioning*

**KEEPIN' IT COOL...**

[www.excelair.ca](http://www.excelair.ca)



Excel Air Systems would like to introduce ourselves. We're a Canadian owned company operating out of British Columbia and have over 30 years of industry experience. We take great pride in our workmanship along with the industries finest service and support.

Excel Air Systems manufactures Do It Yourself Air Cooled Air Conditioning Systems. We currently sell our products in both the U.S. and Canadian markets and have recently seen a large growth in both countries. The reason for this growth is due to individuals making the transition to sealed rooms, providing complete environmental control and maximizing yield potential. These advancements are made possible with our leading edge products and desire to provide our clients with the industries best service and support in environmental management.

We offer several products that we believe will help make your space achieve maximum results with no hassle. Our flagship products include our XL and Stealth Series systems. Air Cooled Air Conditioning packages allowing anyone to easily install and maintain the system without the need of a certified mechanic. The package includes; Outdoor Condensing Unit, Indoor Air handler, Pre-Charged Refrigerant Lines, Digital Thermostat and Step By Step Wiring and Installation Manuals. Both XL and Stealth Series systems come in sizes ranging from 1.0 Ton (12,000 BTU) to 5.0 Ton (60,000 BTU) as well as Plug and Play fittings making installation a breeze. Just thread the fittings together and the system is fully charged and ready to go! Also, if noise is an issue we offer our Stealth Series package that completely removes any compressor noise from outside!

Excel Air Systems also provides several other environmental management products. Products such as; Odor Eliminator, UV Air Purifier and Electric Heater add-on's. If you would like more information regarding Excel Air Systems products or inquires please visit us on the web [www.excelair.ca](http://www.excelair.ca) or contact us using the information provided below.

**Excel Do It Yourself Air Systems Corporation**  
**Toll Free: (877) 728-0757**  
**Fax: (604) 465-2672**  
**Web: [www.excelair.ca](http://www.excelair.ca)**



## 2012 SPRING

### XL SERIES

#### **COMPACT**

2.0 Ton  
2.5 Ton  
3.0 Ton  
3.5 Ton  
4.0 Ton  
5.0 Ton

The XL Series is our flagship product and is based on a Split System Design. This system has the Plug and Play feature which allows you to install the system without the need of a certified installer. This air cooled A/C unit is pre-charged with refrigerant and uses re-sealable fittings for quick and efficient connects and disconnects. The system is a complete package, making it the perfect solution for any store.



### STEALTH SERIES

2.0 Ton  
3.0 Ton  
4.0 Ton  
5.0 Ton

The Stealth Series is our newest product and is based on a Triple Split Design. This means that the compressor inside the Outdoor Condensing Unit is actually placed in a separate sound deadened box, eliminating over 75% of the compressor noise. It's the perfect solution for sound conscious installations. This system has the Plug and Play feature as well, providing quick and efficient connection and startup without the need of a certified installer.



#### **Both the XL and Stealth Series come complete with:**

- Outdoor Condensing Unit
- Indoor Air Handler
- 40ft Pre-Charged Refrigerant Piping
- Digital Thermostat w/ Pre-Wired 15ft Control Wire
- 40ft 18/2 Control Wire
- PVC Drain Trap
- Step By Step Instructions and Wiring Diagrams

**Note:** Stealth Series comes with additional Pre-Charged Piping to make the Triple Split Connection.

#### Accessories (see write-ups)

**Top Plenum**

**Fabric Duct**

**Excel Water Guardian**

**Excel UV Air Purifier**

**Heater 5kW (Air Handler)**

**Condensate Pump**

**Fan Cycling Control**

**Hanging Kits**

**Digital Thermostat**

#### Damper Control Package

Control two (2) rooms with one (1) system. Package comes complete with motorized Supply Air and Return Air Dampers, Top and Bottom Plenums, Switchover Control Box, Digital Thermostat and Installation Manual. (see write-up)

#### Damper Control Package

#### Excel Odor Eliminator

Charcoal Enclosure, 5 trays, Large Primary Filter, 55lbs Custom Charcoal and Box Blower. (see write-up)

#### **Excel Odor Eliminator**

# EXCEL COMPACT

## AIR COOLED AIR CONDITONING

### Package comes complete with;

- Outdoor Condensing Unit
- Wall Mounted Indoor Air Handler
- 25ft Pre-Charged Refrigerant Piping
- Integrated Digital Thermostat w/ Remote
- 25ft Easy Connect Control Wire
- Step By Step Manual and Wiring Diagrams



### Key Benefits:

- Re-Sealable Plug and Play Fittings
- **Cool 3000 Watts!**
- 115V at only 10 Amps
- Wall Mountable
- Dehumidification Mode
- Industries best support!



### Plug and Play

Plug and Play refrigeration fittings make air cooled units simple to install by yourself; without the need of a costly certified installer. Each refrigeration line is pre-charged with the correct amount of refrigerant for your system. Just thread the fittings together and startup your system! The fittings are re-sealable unlike the generic units on the market, meaning, if you need to take your system out for servicing or relocating your unit no refrigerant is lost and can be simply re-installed.

### Excel Compact Air Conditioner

The Excel Compact A/C is great for tight spaces and small places. It's very light weight compared to larger commercial units which means it can be wall mounted with ease. The Compact Air Conditioner is capable of cooling up to **3000 watts** and comes as a complete package ready to install without the need of a certified mechanic. For more information contact your local store or visit us online at [www.excelair.ca](http://www.excelair.ca).

### Recommended Add-on:

- **Condensate Pump**– Pump condensation water from unit to drain source 20' away and 15' high.

COMPACT

Package Specs					Dimensions		Sealed Room
Ton	BTU's	Amps	Power	Weight	Air Handler	Condenser	#Lights
1.0	12,000	10	115V	115	36x9x11.5	30x11x23	3
2.0	24,000	12.8	208/ 230V	250	18x22x46	24x24x28	6
2.5	30,000	14.8		275	18x22x46	24x24x28	7-8
3.0	36,000	18.7		325	18x22x46	29x29x28	9
3.5	42,000	23.5		375	21x22x52	29x29x30	10-11
4.0	48,000	23.1		425	25x22x57	29x29x30	12
5.0	60,000	33.7		475	25x22x57	34x34x32	15



# XL SERIES

## AIR COOLED AIR CONDITONING

Package comes complete with;

- Outdoor Condensing Unit
- Indoor Air Handler
- 40ft Pre-Charged Refrigerant Piping
- Digital Thermostat w/ Pre-Wired 15ft Control Wire
- 40ft 18/2 Control Wire
- PVC Drain Trap
- Step By Step Manual and Wiring Diagrams

**Key Benefits:**

- Re-Sealable Plug and Play Fittings
- All fittings are Brass (Rust Free)
- Condensing Unit set to run under 40F
- Vertical or Horizontal Mounting
- Industries best support!



**Plug and Play**

Plug and Play refrigeration fittings make air cooled units simple to install by yourself; without the need of a costly certified installer. Each refrigeration line is pre-charged with the correct amount of refrigerant for your system. Just thread the fittings together and startup your system! The fittings are re-sealable unlike the generic units on the market, meaning, if you need to take your system out for servicing or relocating your unit no refrigerant is lost and can be simply reconnected.

**XL Series**

The XL Series Air Cooled Air Conditioning unit is Excel's flagship product and is built from a Split System design. The Split System design allows for the Indoor Air Handler to act as the blower inside while the Outdoor Condensing unit rejects indoor heat to the fresh air outside. This unit comes equipped with Plug and Play fittings making it your best choice for quick and easy installations. The XL Series is available in sizes ranging from 2.0 TON (24,000 BTU) to 5.0 TON (60,000 BTU). For more information contact your local store or visit us online at [www.excelair.ca](http://www.excelair.ca).

**Recommended Add-on's:**

- **Top Plenum**– Add a plenum to the top of the Air Handler to allow for easy ducting.
- **Damper Control Package**– Control two rooms with one system using automatic dampers.
- **Fan Cycling Control**– Allow outdoor fan speed to run between 40-70% at temperatures under 100F.
- **UV Air Purifier**– Mount inside Top Plenum and kill harmful spores and bacteria in your room.
- **Condensate Pump**– Pump condensation water from unit to drain source 20' away and 15' high.
- **Heater**– Easily add-on 5-25kW Heater to inside Air Handler to maintain nighttime temperatures.

Package Specs				Dimensions		Sealed Room	
Ton	BTU's	Amps	Power	Weight	Air Handler	Condenser	#Lights (1000W)
2.0	24,000	12.8	208/ 230V	250	18x22x46	24x24x28	6
2.5	30,000	14.8		275	18x22x46	24x24x28	7-8
3.0	36,000	18.7		325	18x22x46	29x29x28	9
3.5	42,000	23.5		375	21x22x52	29x29x30	10-11
4.0	48,000	23.1		425	25x22x57	29x29x30	12
5.0	60,000	33.7		475	25x22x57	34x34x32	15

\*Based on R12 insulated sealed room at 80F outdoor temperature, burning Co2.



# STEALTH SERIES

## AIR COOLED AIR CONDITIONING

Package comes complete with;

- Outdoor Condensing Unit
- Indoor Air Handler
- Sound Deadened Box
- 40ft Pre-Charged Refrigerant Piping
- Digital Thermostat w/ Pre-Wired 15ft Control Wire
- 40ft 18/2 Control Wire
- PVC Drain Trap
- Step By Step Manual and Wiring Diagrams

Key Benefits:

- Re-Sealable Plug and Play Fittings
- All fittings are Brass (Rust Free)
- Condensing Unit set to run under 40F
- Vertical or Horizontal Mounting
- Super Quiet Operation
- Industries best support!



Plug and Play

Plug and Play refrigeration fittings make air cooled units simple to install by yourself; without the need of a costly certified installer. Each refrigeration line is pre-charged with the correct amount of refrigerant for your system. Just thread the fittings together and startup your system! The fittings are re-sealable unlike the generic units on the market, meaning, if you need to take your system out for servicing or relocating your unit no refrigerant is lost and can be simply re-installed.

Stealth Series

The Stealth Series Air Cooled Air Conditioning unit is Excel's newest product. It's all in the name; the Stealth Series is based on a Triple Split Design which allows for the compressor to be removed from the Outdoor Condensing Unit and placed in it's own sound deadened box, eliminating over 75% of the running noise! The unit also comes with Plug and Play fittings making installations quick and simple. Available in sizes ranging from 2.0 TON (24,000) to 5.0 TON (60,000 BTU). For more information contact your local store or visit us online at [www.excelair.ca](http://www.excelair.ca).

Recommended Add-on's:

- **Top Plenum**– Add a plenum to the top of the Air Handler to allow for easy ducting.
- **Damper Control Package**– Control two rooms with one system using automatic dampers.
- **UV Air Purifier**– Mount inside Top Plenum and kill harmful spores and bacteria in your room.
- **Condensate Pump**– Pump condensation water from unit to drain source 20' away and 15' high.
- **Heater**– Easily add-on 5-25kW Heater to inside Air Handler to maintain nighttime temperatures.

Package Specs				Dimensions		Sealed Room	
Ton	BTU's	Amps	Power	Weight	Air Handler	Condenser	#Lights (1000W)
2.0	24,000	12.8	208/ 230V	250	18x22x46	24x24x28	6
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4.0	48,000	23.1		425	25x22x57	29x29x30	12
5.0	60,000	33.7		475	25x22x57	34x34x32	15

\*Based on R12 insulated sealed room at 80F outdoor temperature, burning Co2.



# DAMPER CONTROL PACKAGE

## MULTI ZONE MOTORIZED DAMPERS

### Package Comes Complete with:

- (2) Supply Air Motorized Dampers
- (2) Return Air Motorized Dampers
- Top Plenum (Air Handler)
- Bottom Plenum (Air Handler)
- Digital Thermostat w/ 15ft Control Wire
- Installation and Wiring Guide

### Key Benefits:

- Only one (1) Air Handler and Condensing Package needed
- Less expensive than two (2) complete systems
- Ability to set independent Co2 levels
- Manufacturer Limited Warranty
- Easy Installation
- Industries best support!



### Control Two Rooms With One System

A Damper Control Package is used to control the temperature in two rooms. Only one room per cycle will be controlled using only one Air Handler. There are two motorized dampers connected to the supply air and two motorized dampers connected to the return air. One set of dampers will be connected to Room 1 (Supply and Return) which will be configured as the “OPEN” state and one set of dampers will be connected to Room 2 (Supply and Return) which will be configured as the “CLOSED” state.

When Room 1 is “ON” both the supply and return dampers will be open and the room’s digital thermostat will become energized. When Room 2 is “ON” the motorized dampers from Room 1 will close and Room 2 will open. On the flip Room 1 thermostat will turn off while Room 2 becomes energized.

### Package consists of:

- 4 Motorized Dampers
- 2 Plenums\*
- 1 Switchover Control\*\*
- 1 Digital Thermostat

\*Plenum holes can be customized upon request.

\*\*Switchover Control has a timer plug to allow control of the switchover times.

### 5 Ton Rated Damper Control Package



EXCEL AIR SYSTEMS

# EXCEL ODOR ELIMINATOR

## MULTI TRAY CHARCOAL FILTER

### Package comes complete with;

- Bottom box blower with fan
- Top charcoal chassis
- 5 x Charcoal trays
- 1 x Large Pleated Filter
- 1 x Throwaway Pre-Filter
- 55lbs of Custom Charcoal
- Industries best support!

### Key Benefits:

- Removes very harsh smells
- Easy access; 5 charcoal tray
- 2 piece unit (box blower & filters)
- Quiet, insulated blower box
- Will clean areas up to 800sqft
- Can be ducted into desired area



50" High x 25" Wide x 22" Deep

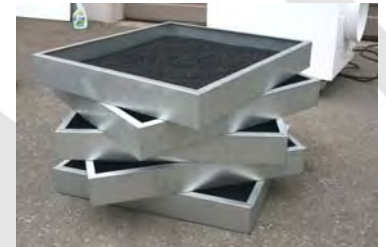
### Eliminate Odor

The Excel Odor Eliminator is perfect for any area where extreme smell is an issue. Unlike other filters this multistage filter will remove the newest smells, giving you piece of mind. Either place the two piece unit inside your area or easily duct to and from your room, ensuring thorough air circulation past the primary and secondary filters, then through the 5 trays of Custom Charcoal. Plug the bottom box blower into any 115V plug and it will start eliminating odor instantly.

For more information visit [www.excelair.ca](http://www.excelair.ca).

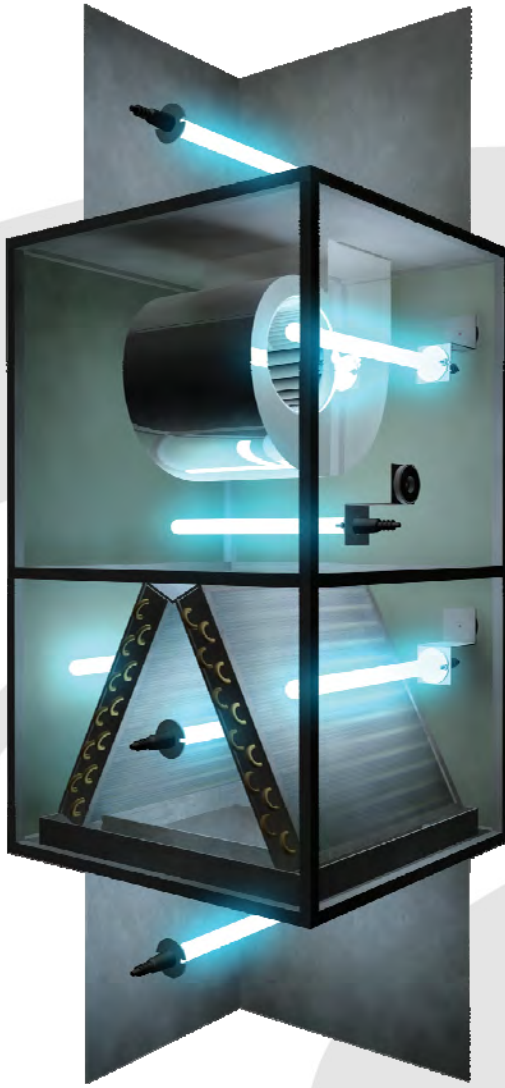
### Recommended Add-on's:

- **Top Plenum**– Add a plenum to the top of the Charcoal Chassis to allow for easy ducting if not placing directly Excel Odor Eliminator in room.



# EXCEL UV AIR PURIFIER

## DUCT MOUNT ULTRAVIOLET BULB



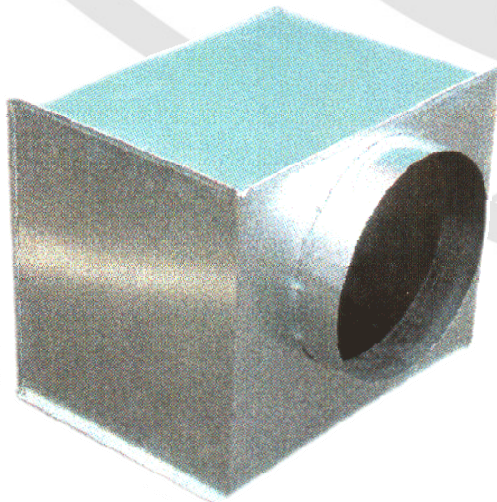
- Destroy mold, bacteria and spores.
- Helps with powdery mildew.
- Easily mounted inside indoor air handler.
- Scrubs your entire room volume of air 500 times per day!

The Excel UV Air Purifier is designed to change the molecular structure of the contaminants through DNA Sterilization and Photo-Oxidation destroying both biological and chemical contaminants. It will kill **mold, bacteria and viruses!**



## TOP PLENUM

### AIR HANDLER ACCESSORY

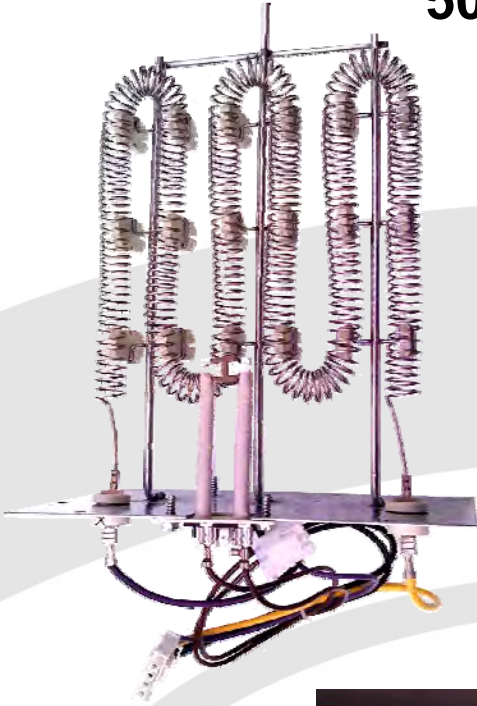


- Made specifically for Excel Indoor Air Handlers.
- Easily mount round ducting to your unit.
- Remove turbulence from air.
- Highly Recommended!

Adding a plenum to your XL Series or Stealth Series system will greatly improve ease of installation and Indoor Air Handler efficiency. The box sits over the blower allowing to take the turbulence out of the air and send it down your ducting at a constant flow rate.

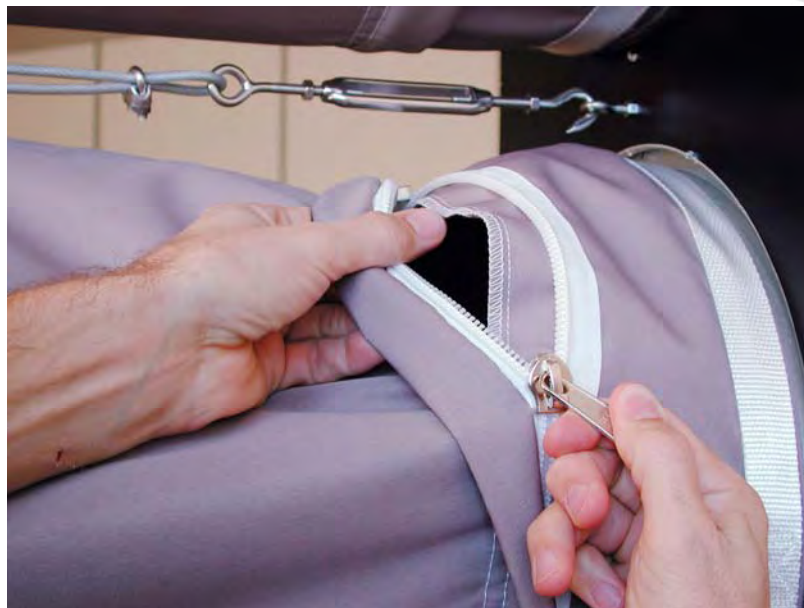
# 5kW HEATER ADD-ON

## 5000 WATT SLIDE IN HEATER



- Add-on at anytime; slides into Excel Indoor Air Handler
- Draws power from Indoor Air Handler
- Great for maintaining nighttime temperatures.
- Controlled by digital thermostat that came with unit!

The 5kW Heater is a great addition to any XL Series or Stealth Series Indoor Air Handler. Maintain nighttime or winter temperatures with ease. Just slide the heater into an access door already made specifically for the heater. Plug the plastic connector onto the control board and use your existing power to the Indoor Air Handler. Last step is to set your heating point on your digital thermostat that came with the existing system and let it do it's job!



## FABRIC DUCT AIR DISTRIBUTION SYSTEM

- 15' High quality polyester fabric ducting
- Integrated hanging clips
- 40' Mounting cable
- (2) Tensioners (5) Lock Nuts (3) Open Eye Bolts
- Plenum mounting strap
- Zip-On end cap

High quality polyester fabric ducting. Easily run cable support system and attach the duct to the cable using the integrated clips. Extremely lightweight and durable, zero condensation fabric and machine washable. Additional ducting can be added on using simple zipper system.

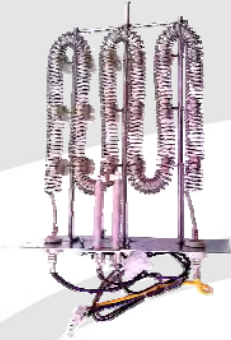
# ACCESSORIES

## RECOMMENDED PRODUCTS



### Excel UV Air Purifier

The Excel UV Air Purifier is designed to change the molecular structure of the contaminants through DNA Sterilization and Photo-Oxidation destroying both biological and chemical contaminants, contaminants such as mold, bacteria, viruses and odors.



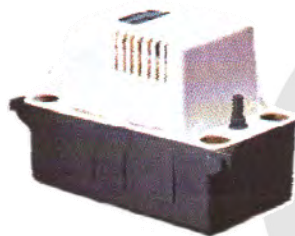
### Heater (Air Handler)

Add a 5kW 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.



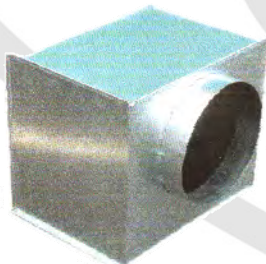
### Fan Cycling Control

Add this Fan Controller and temperature sensor to your XL or Stealth Series Outdoor Condensing Unit for much quieter fan speeds and overall fan motor efficiency. Will reduce fan speeds between 40-70% at temperatures under 90F. At 90F and above the fan will switch to high-speed. (Comes with all new Stealth Series packages)



### Condensate Pump

This pump allows condensation from the Indoor Air Handler to flow into the pump, then when the internal float raises the condensate water can be pumped a distance of 20' along with the capability of 15' vertically to a drain source. Comes with a 6' electrical cord and 20' 3/8 tubing. Available in 120/230V applications.



### Top Plenum

Adding a plenum to your XL or Stealth Series system will greatly improve ease of installation and Indoor Air Handler efficiency. The box sits over the blower allowing to take the turbulence out of the air and send it at a constant flow rate down the length of your ducting.



### Excel Water Guardian (Auto Water Shutoff)

The Excel Water Guardian is a necessity for any room! Easily install on tanks to stop forgetful overflows from happening or mount sensors anywhere water may be an issue. Once the sensor makes contact with water the 1" main ball valve will close immediately and will not open until the user presses the open button. This unit can be plugged into a wall outlet or mounted wirelessly using a 9V battery! Alarm modes are easily activated along with caution led's letting you know it needs your attention.

# SPECIFICATION GRID

	1.0	2.0	2.5	3.0	3.5	4.0	5.0
<b>Tonnage</b>	1.0	2.0	2.5	3.0	3.5	4.0	5.0
<b>Cooling Capacity</b>	3,000W	6,000W	7,000-8,000W	9,000W	10,000-11,000W	12,000W	15,000W
<b>BTU's</b>	12,000	24,000	30,000	36,000	42,000	48,000	60,000
<b>System Amps</b>	10.0	12.8	14.8	18.7	23.5	23.2	33.7
<b>Power</b>	115V	208/230V	208/230V	20/230V	208/230V	208/230V	208/230V
<b>Air Handler</b>	36x9x11.5	18x22x46	18x22x46	18x22x46	21x22x52	25x22x57	25x22x57
<b>Amperage</b>	2.5	2.8	2.8	4.1	6.0	6.0	6.0
<b>Supply Air</b>		17x17x20	20.5x20.5x20	20.5x20.5x20	23X17x20	23x17x20	23x17x20
<b>Vertical Return Air</b>		18x22x20	21.5x22x20	21.5x22x20	24x22x20	24x22x20	24x22x20
<b>Horizontal Return Air</b>		16.5x20.5x20	20x20.5x20	20x20.5x20	22.5x20.5x20	22.5x20.5x20	22.5x20.5x20
<b>Condenser</b>	30x11x23	24x24x28	24x24x28	29x29x28	29x29x30	29x29x30	34x34x32
<b>Amperage</b>	7.5	10.0	12.0	14.6	17.5	17.2	27.7
<b>Mfn. Circuit AMPACITY</b>	10.0	12.4	14.7	17.9	21.5	21.1	33.3
<b>XL Package Weight</b>	135	250	275	325	375	425	475
<b>Stealth Package Weight</b>		300	325	375	420	500	550

Plenum

\*All measurements are in inches (Width x Depth x Height)

Based on P12 insulated sealed room at 80F outdoor temperature, burning Co2