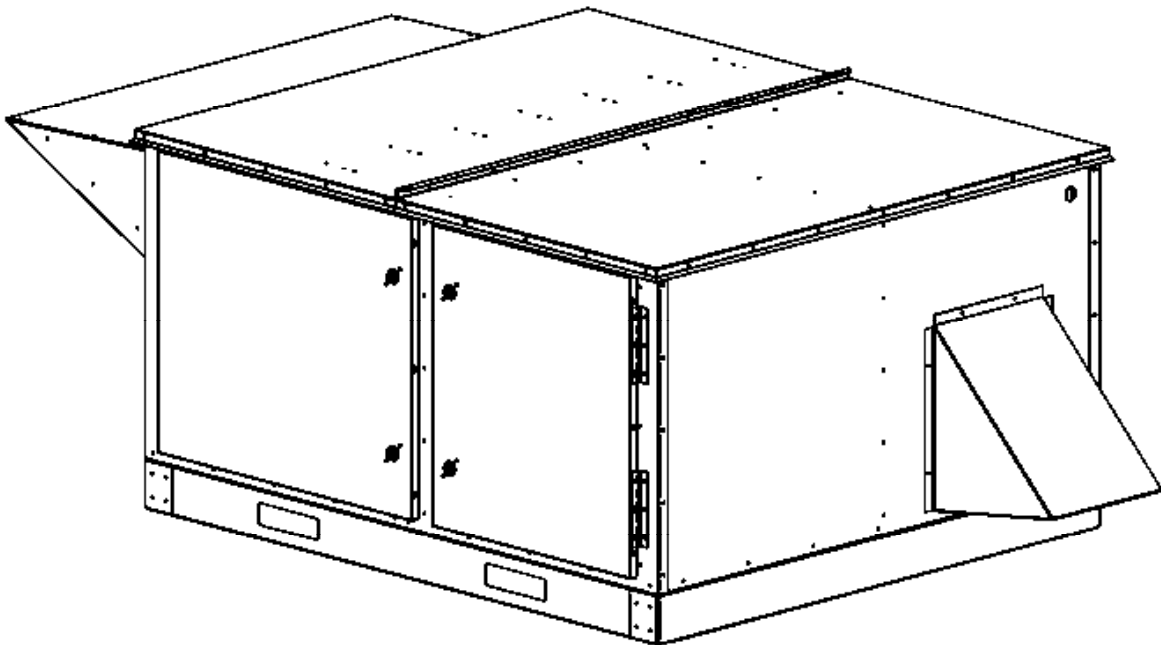


F Series Commercial Units

- Tailored solutions between 250 and 3,250 CFM
- Indoor and rooftop versions available
- Internal fans standard
- Heavy-duty steel construction
- Wide variety of options available for customized solutions
- AHRI Certified C510 Core



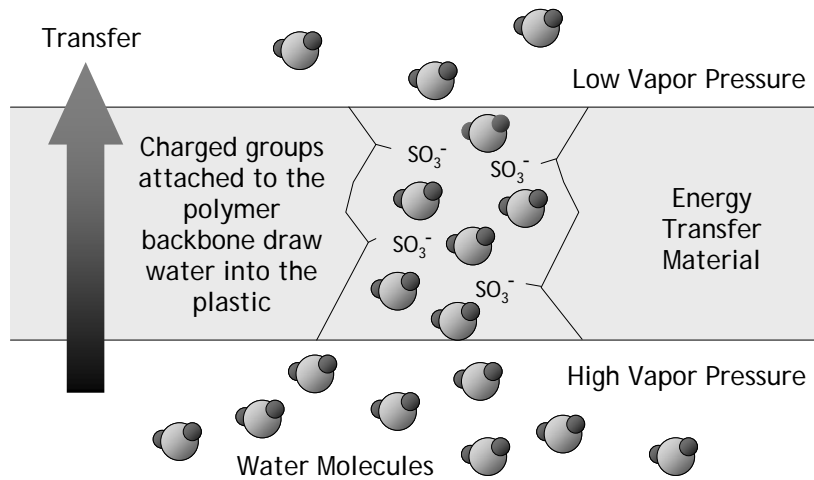
Breakthrough technology...

Dais Analytic Corporation manufactures and sells the high performance ConsERV™ energy recovery ventilation system we introduced in 2002. Our patented polymer materials, grown out of space-age fuel cell research, are the key component of our revolutionary ConsERV™ air-to-air fixed-plate enthalpy exchangers. These unique materials provide the technology breakthrough that brings our customers unprecedented performance and energy savings in a reliable fixed-plate design.

An energy recovery ventilator (“ERV”) features a heat exchanger combined with ventilation to provide pre-conditioned air into a building. Pre-conditioning the air saves energy – and money – by reducing the load on your HVAC system. During the summer, outside air is cooled and dehumidified before it enters the building and your air conditioning system. During winter, the opposite occurs as the outside air is heated and humidified by the outgoing exhaust air. In most applications, both sensible heat transfer (temperature exchange) and latent heat transfer (moisture exchange) within the exchanger are desired. Until now, energy recovery wheels have been the principal means of providing this total energy transfer, since fixed plate products did not have the ability to transfer latent heat very well.

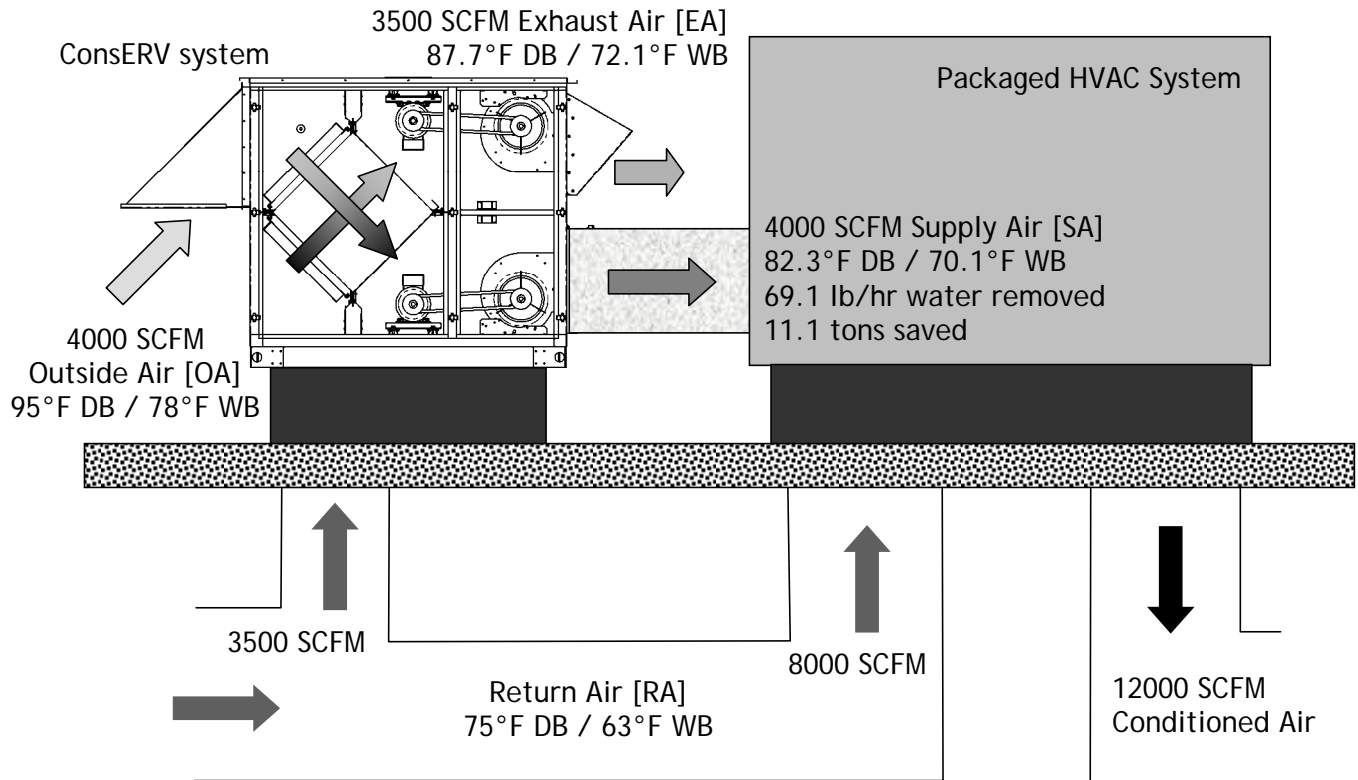
Enter Dais Analytic. Dais has developed the ConsERV™ energy exchanger, which transfers high levels of both sensible and latent heat and can reduce energy consumption and HVAC loads from fresh air ventilation by up to 80%. No rotating or moving parts in the exchanger mean less energy consumption by the ERV, lower maintenance costs, and peace of mind when downsizing HVAC equipment capacity.

Our ConsERV™ exchanger doesn't depend on open pores or fragile surface-mounted desiccants to transfer water from one air stream to the other. Instead, the polymer separating the air streams is organized at a nanometer level to create highly charged regions that draw water molecules into the material. There is no physical opening, so the polymer is hermetic and prevents crossover of air molecules. The water molecules move easily between charges along the polymer backbone, passing through the material from the side with higher vapor pressure to the side with lower vapor pressure.



About ConsERV™ ...

Offering energy savings, rapid return on investment, and ease of use to consumers by pre-treating ventilation air.



Example: D8R-FSE-xSHHVH system operating at AHRI Cooling conditions

Features and Benefits:

- Advanced materials = highest latent and total effectiveness of any fixed plate ERV
- No moving parts eliminates the most costly maintenance
- Savings of up to 30% on installed HVAC capital costs and up to 50% on operating costs
- Failsafe operation - transfers energy as long as there is airflow
- Reliability allows safer downsizing of attached HVAC equipment.
- Zero air stream leakage - core does not allow cross contamination
- No defrost needed in most climate zones
- Equally effective in both summer and winter = year-round savings
- Water stays in vapor phase = no liquid water
- Light, corrosion-resistant aluminum cabinets offer double wall construction, 6.3 R-value
- Steel cabinets offer single or double wall options
- Industry standard electrical and monitoring options
- Easy installation with flexible air flow configurations and a smaller installed footprint

Certifications and Awards:

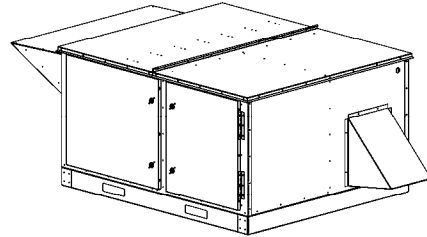
- UL 900 Recognized
- AHRI 1060 certified performance
- 2006 AHR Ventilation Innovation Award winner

Our Products...

F Series (Steel construction)

F Series ConsERV™ systems are constructed of galvanized steel and provide a very cost effective solution. This unit utilizes our latest AHRI certified C510 core. This core/box combination provides both indoor and rooftop units with a number of air flow direction combinations. We offer a low profile single row version option which handles 250-3,250 CFM and is only 27" tall for indoor version and 30" for the rooftop version. For CFM ranges greater than 3,250 CFM use the double row version. The units are designed to offer a number of options including:

- Double walled cabinet
- Motorized dampers
- Fused or switched disconnects
- CO2 detection
- Filter maintenance indicator
- Low temperature lockout
- Motor maintenance indicator



These units are equipped with a belt and pulley motor/fan assembly and have adjustability in air flow controlled by the sheave size selected.

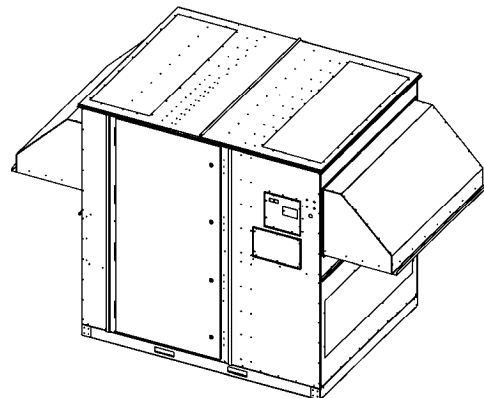
C Series (Steel construction)

C Series ConsERV™ systems are constructed with a robust galvanized steel structure and offer a wide variety of accessories and options, all tied together by a powerful integrated control system. Units can be used both indoors and outdoors and are designed to mate easily with a large range of commercial package units.

Most units come standard with VFD-controlled fans for easy adjustment of the flow. An optional integrated VFD control system allows the user to specify a desired flow rate in CFM using an external display and the unit will maintain that value even as filters accumulate dirt or conditions change.

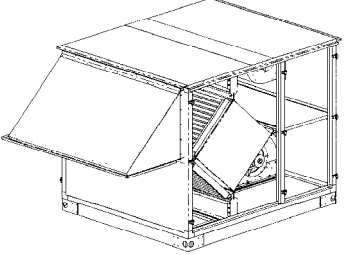
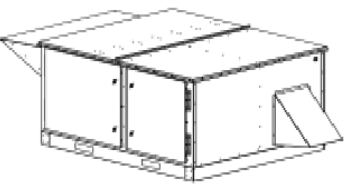
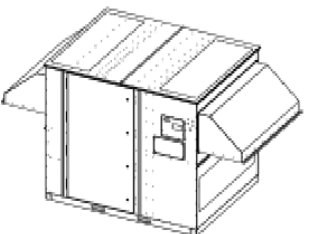
A large range of options are available, including:

- Motorized dampers
- Economizers
- Filter maintenance indicators
- Motor maintenance indicators
- Frost protection
- Low temperature lockout



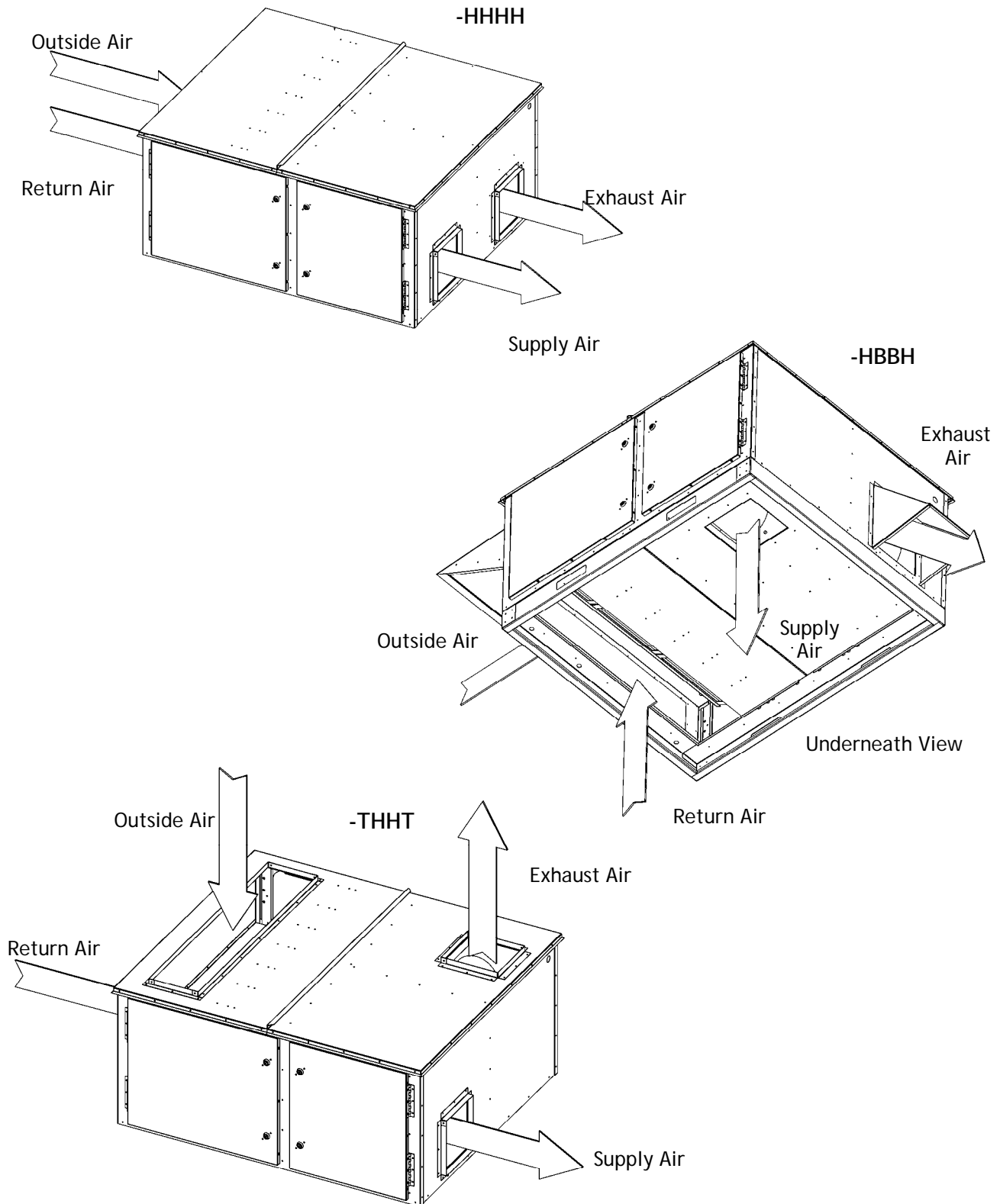
Our Products...

 **Product Comparison**

	D Series	F Series	C Series
Configuration			
Capacity	500 - 5,400 CFM	250 - 3,250 CFM	900 - 10,800 CFM
Core Type	C500S	C510	C500S
Construction	Aluminum frame and panels	Galvanized steel panels (painted steel available)	Galvanized steel panels (painted steel available)
Indoor / Outdoor	Indoor and outdoor versions available	Indoor and outdoor versions available	Indoor and outdoor versions available
Fan System	Belt and pulley centrifugal fan and motor assembly Non-fanned boxes available	Belt and pulley centrifugal fan and motor assembly	Direct-drive forward curved motorized impellers
Speed Control	VFD option available	N/A	Potentiometer speed control standard
Available Options			
Motorized Dampers		√	√
Double walled	Standard	√	√
14" curb	√	√	√
Pre Heat			Coming Soon
Disconnects	√	√	√
CO2 Sensor	√	√	√
Dirty Filter Indicator	√	√	√
Motor Indicator		√	√
Low Temp Lockout		√	√
Frost Protection	√	√	√
Timer	√	√	√

F Series Flow Configuration Examples

F Series units have many combinations of flow configurations including the examples below:



F01i Electrical

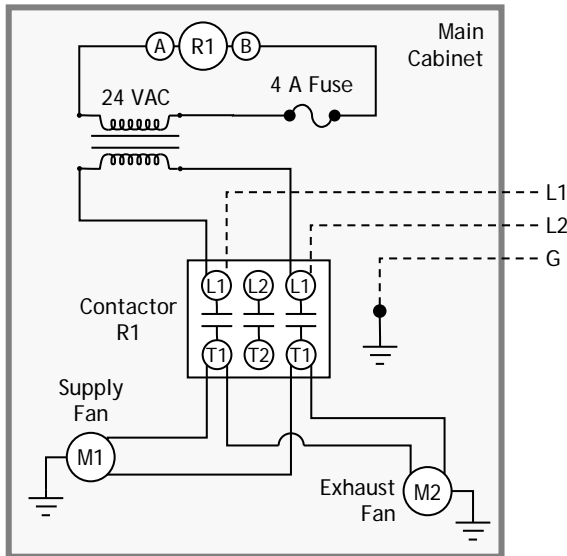
F01i Units

All F01i units use two direct-drive forward curved blowers. Fan speed is selected by choosing which of four wires is connected at installation and can be selected independently for each blower in the unit. Total fan capacity is selected at time of order by specifying the standard or high-static option, which will apply to both air streams in the unit.

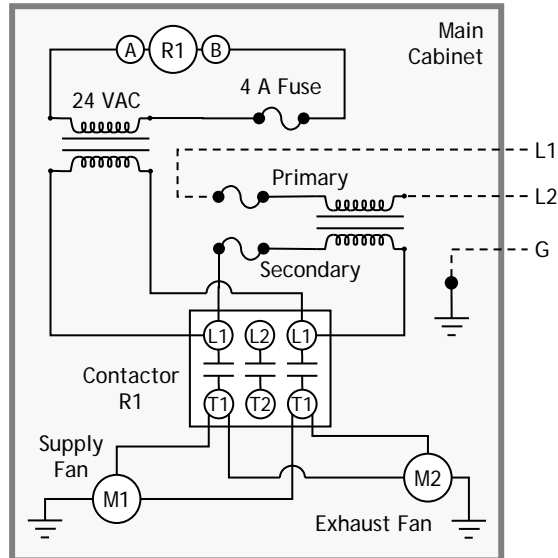
Schematic	Model Numbers
A	F01i-H11 F01i-S21 F01i-S23
B	F01i-H21 F01i-H23 F01i-S43

The key to the right identifies which of the two possible schematics matches a given model number.

Schematic A



Schematic B



----- Dashed lines indicate wiring supplied by others

Electrical Service	FLA	MCA	MOP
115V / 1 ϕ	8.2	10.3	15
208V / 1 ϕ or 208V / 3 ϕ	4.2	5.3	15
230V / 1 ϕ or 230V / 3 ϕ	3.8	4.8	15
460V / 3 ϕ	1.9	2.4	15
575V / 3 ϕ	1.5	1.9	15

Model Number	Primary Voltage	Secondary Voltage	Primary Fuse	Secondary Fuse
F01i-H21	208 or 230	115	5	10
F01i-H23	208 or 230	115	5	10
F01i-S43	460	230	2.5	5

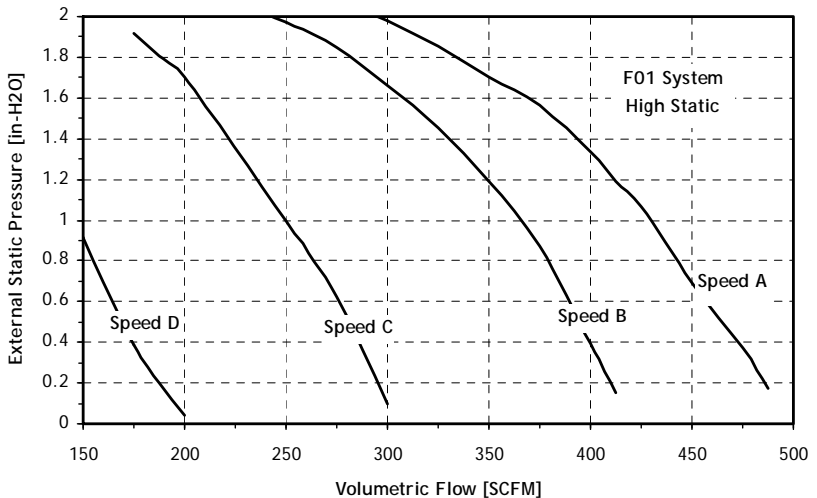
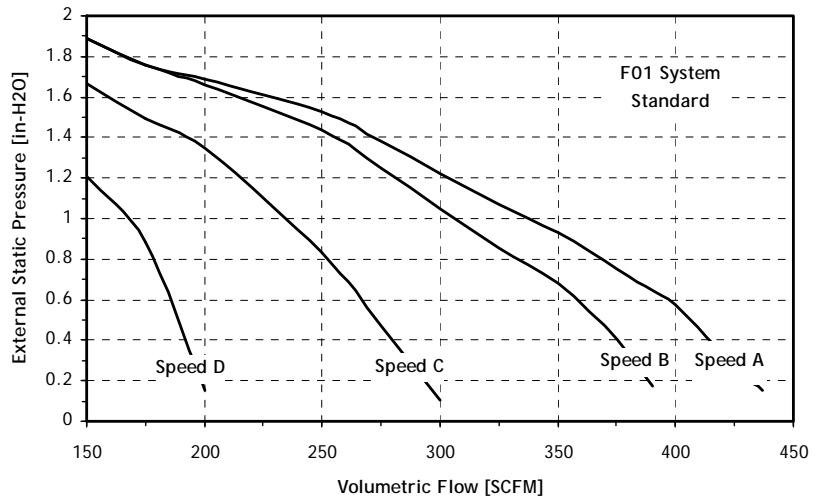
F01i Indoor System

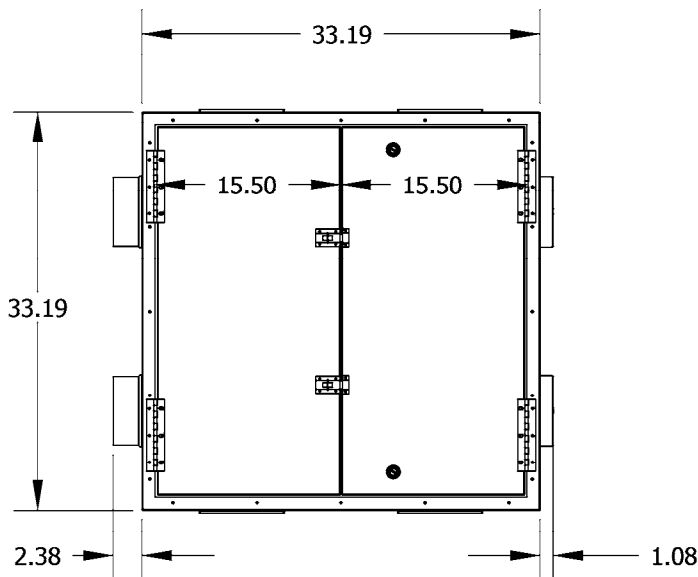
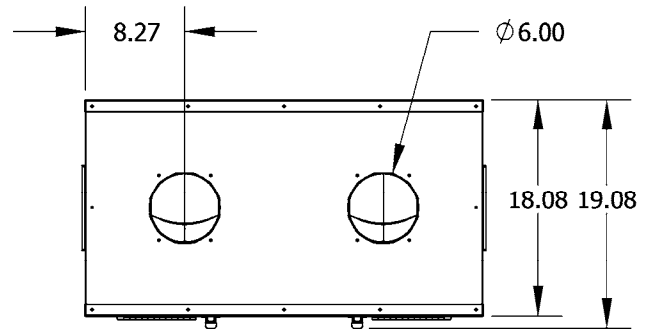
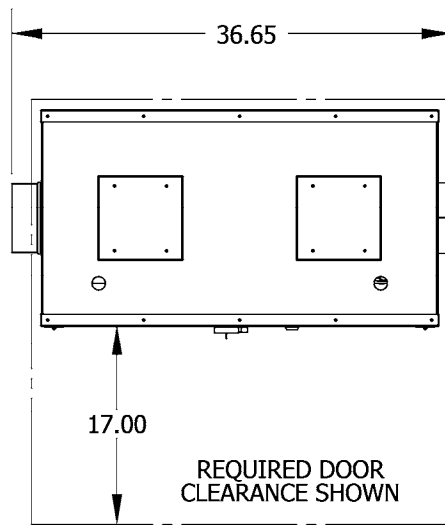
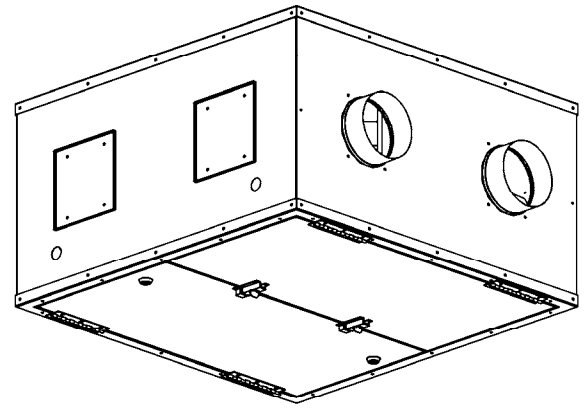
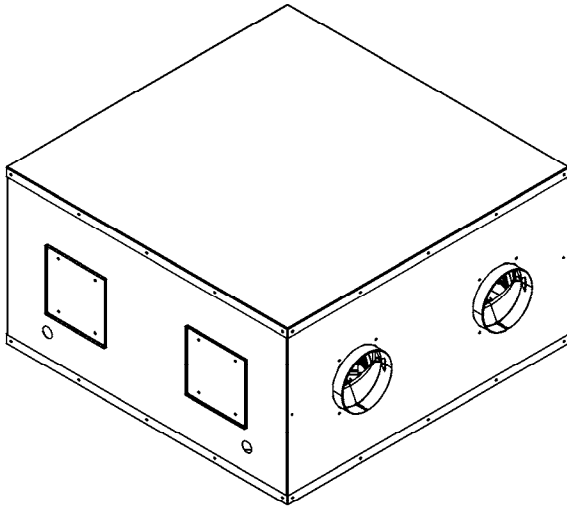
F01i Indoor Systems offer a C510 high-performance enthalpy exchange ConsERV™ core, making it suitable for flows ranging from 150 CFM to 475 CFM.

F01i Model Number Key		F	0	1	i	-	-	-
F = F series	Overall system type							
01	(1) C510 cores in system							
i = Indoor	Installation location							
S = Standard H = High Static	Blower capability							
1 = 115 V 2 = 208 V or 230 V 4 = 460 V 5 = 575 V	Electrical voltage							
1 = Single phase 3 = Three phase	Electrical service							

FlowControl Options:

The F01 system comes standard with 4-speed direct-drive forward-curved blowers. Blower speed is selected via the wiring connections chosen at installation. See the wiring schematic on page 44 for more information.





UNIT WEIGHT = 145 LB

FLOW CONFIGURATIONS ARE SPECIFIED AT TIME OF ORDER AND CONFIGURED AT THE FACTORY

UNIT IS SHOWN AS IT WOULD BE INSTALLED IN A CEILING MOUNT APPLICATION, WITH ACCESS DOORS ON THE BOTTOM. THE UNIT CAN ALSO BE INSTALLED WITH ACCESS DOORS ON THE TOP OR SIDE.

UNIT IS INTENDED FOR INDOOR INSTALLATION

SIZE A	REV. 1	MODIFIED 1/8/2009	F01 Series Indoor System		MODEL F01i
www.conserv.com		DO NOT SCALE DRAWING		45	DIMENSIONS IN INCHES
				www.conserv.com	

F01Ax System

F01i Indoor Systems offer a C510 high-performance enthalpy exchange ConsERV™ core, making it suitable for flows ranging from 200 CFM to 1000 CFM.

F01A Model Number Key		F	0	1	A	-	-	-	-	-	-
F = F series	Overall system type										
01A	(1) C700 cores in system										
i = Indoor R = Rooftop	Installation location										
1 = 115 V 2 = 208 V 3 = 230 V 4 = 460 V 5 = 575 V	Electrical voltage										
1 = Single phase 3 = Three phase	Electrical service										
H = Horizontal	Outside Air [OA] entrance direction										
H = Horizontal B = Bottom	Supply Air [SA] exit direction										
H = Horizontal B = Bottom	Return Air [RA] entrance direction										
H = Horizontal	Exhaust Air [EA] exit direction										

Fan System
Performance

Call Factory For Performance

F01A Series Options

Electrical Disconnects

Factory installed electrical disconnects are available for all ERV units. Disconnects are sized to handle the ERV unit and pre-heater (when ordered together). Both switched and fused disconnects are available.

Motorized Dampers

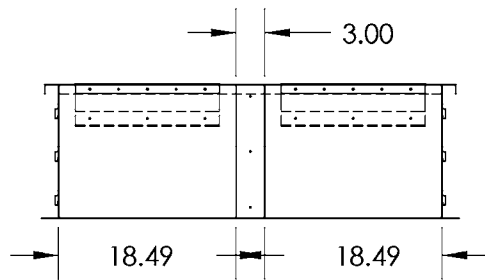
Two position motorized outside air and exhaust air dampers are available to eliminate the migration of unwanted outside air into the building space when the ERV unit is off. Motors are 24 volt and are factory installed and wired. Outside air and exhaust air dampers are ordered separately.

Roof Curbs

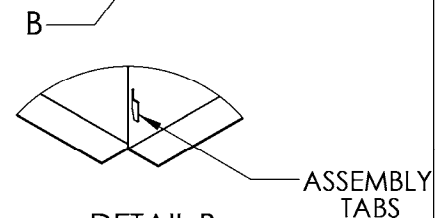
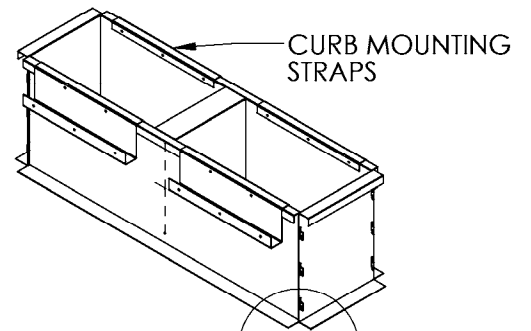
The ERV roof curbs are constructed of heavy gauge galvanized steel, and include a wood nailer and gasket package for a tight unit-to-curb seal. Standard curbs are 14" tall and are manufactured to NRCA specifications. Duct work can slide into the supply and return openings and hang from the top of the curb. Insulated deck pans and duct supports are provided. Vibration isolation curbs are available with 2" deflection springs and are shipped fully assembled.

NOTES:

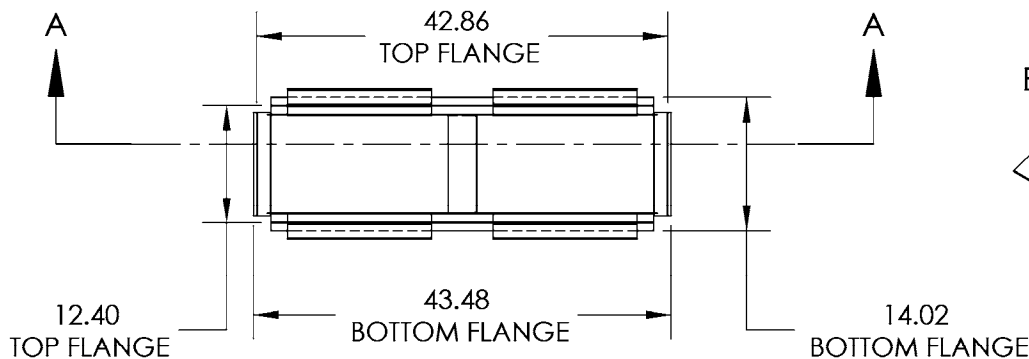
- STANDARD 14" TALL FLAT-ROOF CURB
- 18 GA. GALVANIZED STEEL CONSTRUCTION
- KNOCKDOWN CURB, SHIPPED DISASSEMBLED
- FULL PERIMETER WOOD NAILER IS PROVIDED
- 0.25" x 1.50" FOAM GASKET TAPE IS PROVIDED



SECTION A-A
SCALE 1 : 20



DETAIL B
SCALE 1 : 8



F01A Electrical

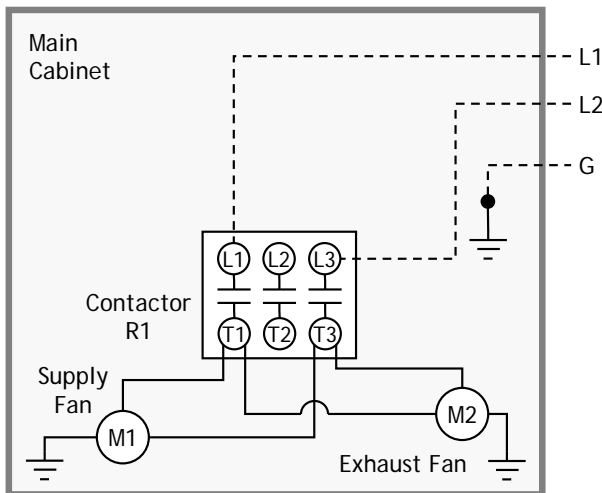
F01A Units

All F01A units use two direct-drive forward curved blowers. Fan speed is selected by choosing which of four wires is connected at installation and can be selected independently for each blower in the unit. Fans are wired for the highest speed when leaving the factory.

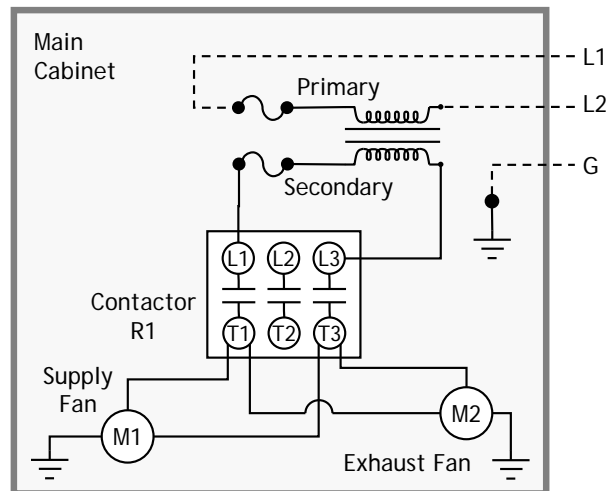
The key to the right identifies which of the two possible schematics matches a given model number.

Schematic	Model
A	F01Ax-1
	F01Ax-2
	F01Ax-3
B	F01Ax-4
	F01Ax-5

Schematic A

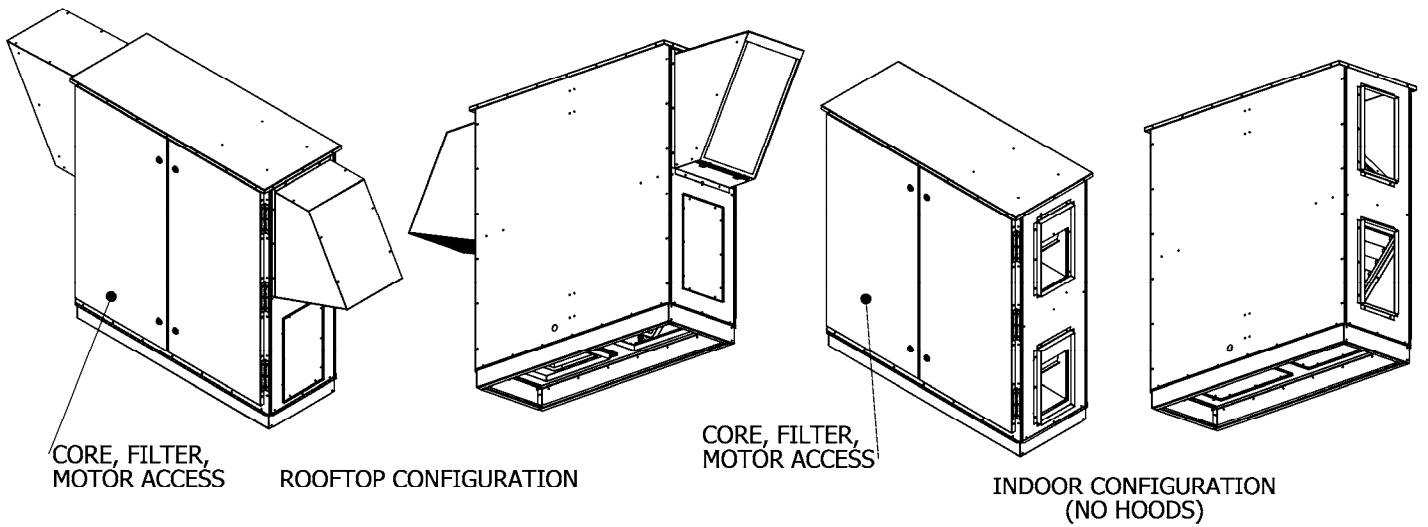


Schematic B



- - - - - Dashed lines indicate wiring supplied by others

System Voltage	System Phase	FLA	MCA	MOP
115	1	10.65	13.32	16.90
208	1	8.56	10.70	13.69
230	1	8.53	10.66	13.65
460	1	4.26	5.33	6.83
575	1	3.41	4.26	5.46

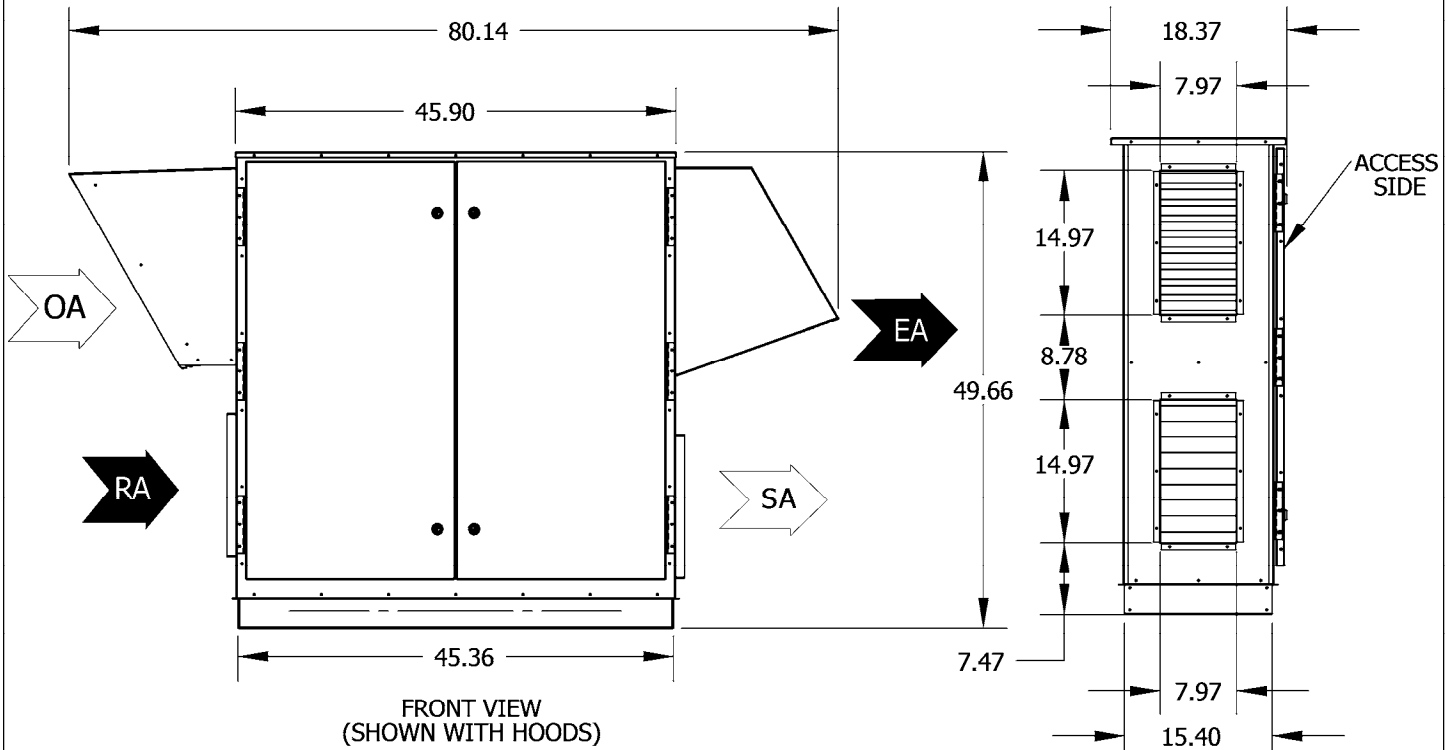


CORE, FILTER,
MOTOR ACCESS

ROOFTOP CONFIGURATION

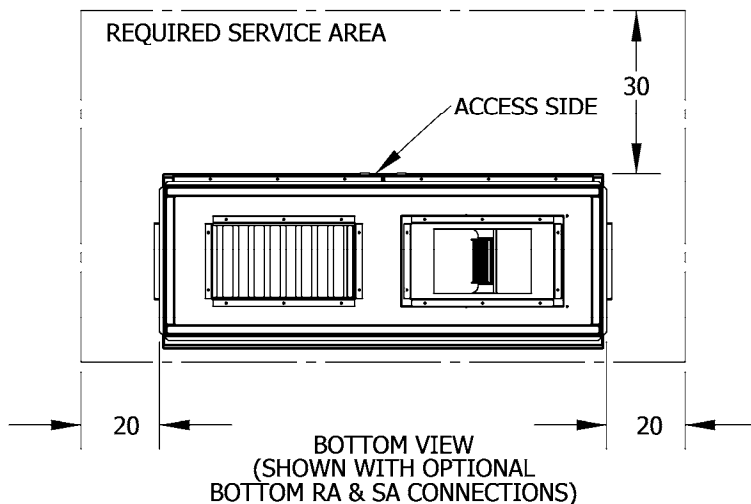
CORE, FILTER,
MOTOR ACCESS

INDOOR CONFIGURATION
(NO HOODS)



FRONT VIEW
(SHOWN WITH HOODS)

LEFT VIEW
(HOODS REMOVED)
CONNECTIONS ON RIGHT SIDE ARE
SAME SIZE & LOCATION



UNIT WEIGHT = 395 LB

FLOW CONFIGURATIONS ARE SPECIFIED AT
TIME OF ORDER AND CONFIGURED AT THE
FACTORY

ROOFTOP UNIT IS EQUIPPED WITH OUTSIDE
AIR HOOD AND EXHAUST AIR HOOD

FILTERS: (2) 25" X 16" X 2"

SIZE A	REV. 1	MODIFIED 1/19/2010	F01Ax Series	MODEL F01Ax
www.conserv.com		DO NOT SCALE DRAWING	49	DIMENSIONS IN INCHES
				www.conserv.com

Contact Information

For sales & application information, please contact us at:

Info@ConsERV.com

or

727-375-8484 x211

For installation & warranty information, please contact us at:

Tech@ConsERV.com

or

727-375-8484 x230

Please visit us at

www.ConsERV.com

to find out more about ConsERV™ technology
and to locate your local
ConsERV™ Manufacturer's Representative

ConsERV™ products provide...

- High latent heat transfer = high performance
- Improved indoor humidity and moisture control
- Peak demand and overall energy savings
- Excellent part load performance
- No rotating parts in the component - low maintenance
- No drain pans to worry about
- Safe downsizing of HVAC plants