



Installation, Operation, and Maintenance Manual

H75i

Energy Recovery Ventilator

SAFETY REQUIREMENTS

1. Before installing unit please read all SAFETY REQUIREMENTS.
2. This manual contains suggested installation guidelines and in no way supercedes any code requirements with respect to building construction, health, or safety.
3. Use the unit only in the manner intended by the manufacturer. If you have questions, contact Dais-Analytic at 727-375-8484.
4. Before servicing or cleaning the unit, switch off power at disconnect switch. Caution: More than one disconnect switch may be required to de-energize the equipment for servicing.
5. Do not use in most cooking areas.
6. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment that might be installed in the area affected by this equipment. If this unit is exhausting air from a space in which chimney-vented fuel burning equipment is located, take steps to assure that combustion air supply is not affected. Follow the fuel burning equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE), and local code authorities.
7. Unit should be installed in a mechanical area such as a garage, attic, or crawl space that is acoustically isolated from the living space.
8. Do not connect this unit to fume hoods or collection systems for toxic gasses.
9. Installation work and electrical wiring must be done by qualified persons in accordance with all applicable codes and standards, including fire-related construction codes and standards.
10. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden facilities.
11. Ducted fans must always be vented to the outdoors.
12. Never place a switch where it can be reached from a tub or shower.
13. This unit must be grounded.
14. Do not connect other appliances to the unit.

CAUTION

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. To avoid unit damage and noisy or unbalanced operations, keep dust and impurities off of fan.



ConsERV™ H75i Installation



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,

The ConsERV H75i can be installed as a stand alone unit or matched with system ductwork.

Shared Ductwork

This method uses the ductwork from the HVAC system. The Return Air (RA) connection is ducted either from the living space or the air handler return air duct. The Supply Air (SA) connection is ducted back to the Air Handler return duct. If the Return Air (RA) supply is pulled from the return duct to the air handler, please allow at least 10 feet between the Return Air (RA) connection on the duct and the Supply Air (SA) connection on the duct.

Stand Alone Unit:

This method is used when the ConsERV H75i is installed in a dedicated room or in areas where the HVAC system ductwork is not utilized.

Mounting Methods:

The H75i is provided with the following mounting materials.

4 x Steel Corner Brackets



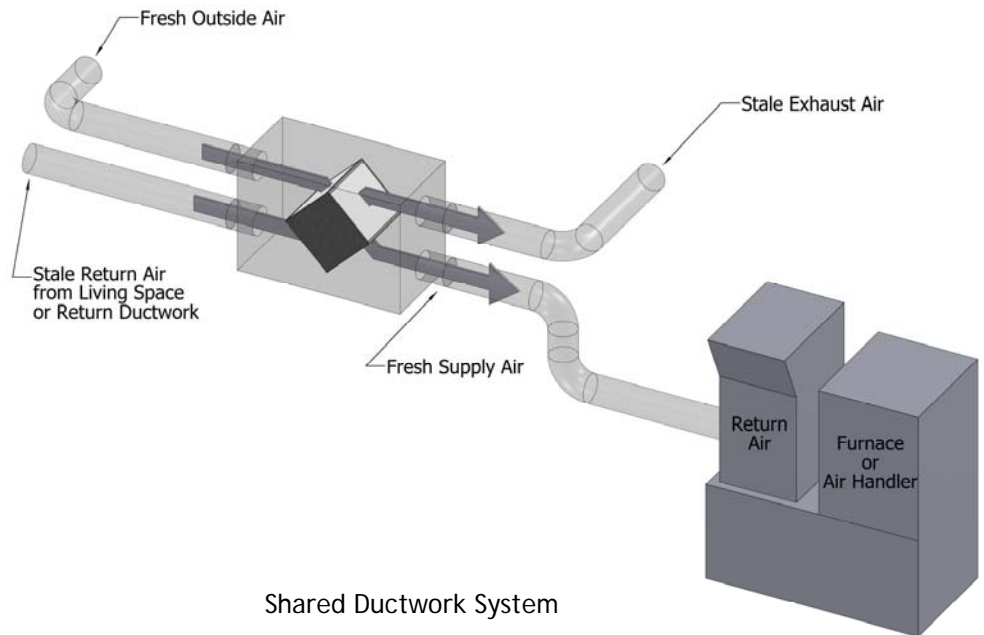
6' Suspension Chain



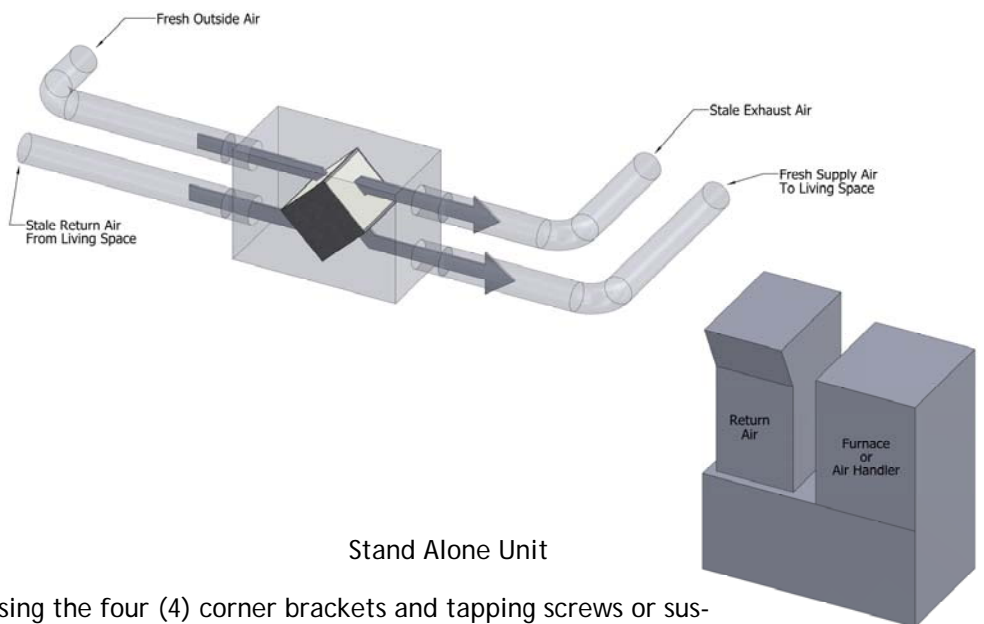
4 x 'S' Hooks



4 x Tapping Screws



Shared Ductwork System



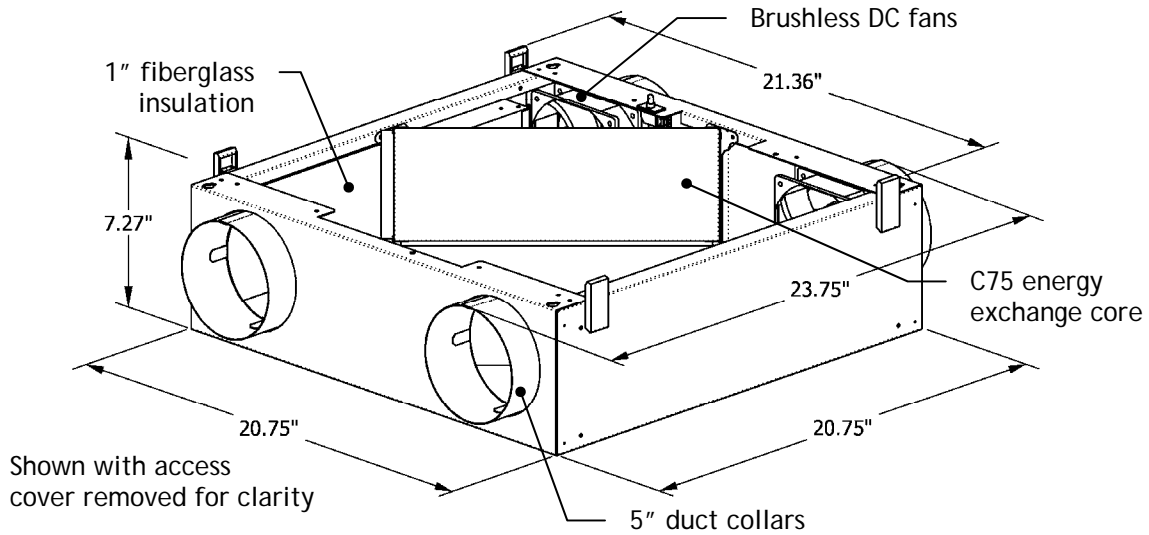
Stand Alone Unit

The H75i can be mounted against a wall using the four (4) corner brackets and tapping screws or suspended using the (4) corner brackets, (4) 'S' Hooks, and chain. Pilot holes are predrilled for mounting the corner brackets for all of the listed configurations. The H75i can be placed on a flat dry, level surface of 24" x 24" which can support 50 lbs.

The unit should be placed within 5' of an electrical outlet.

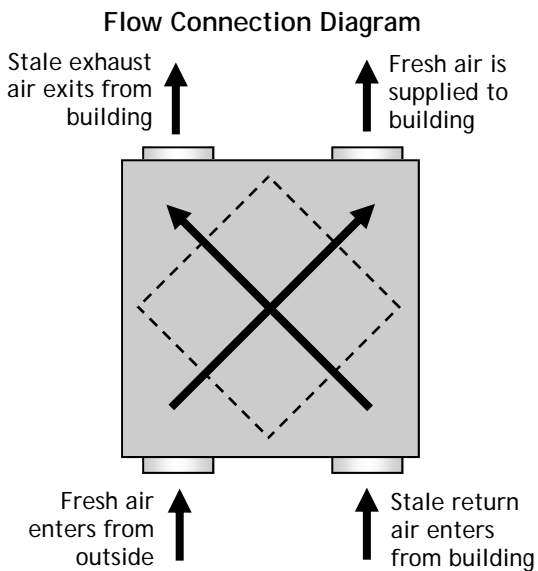
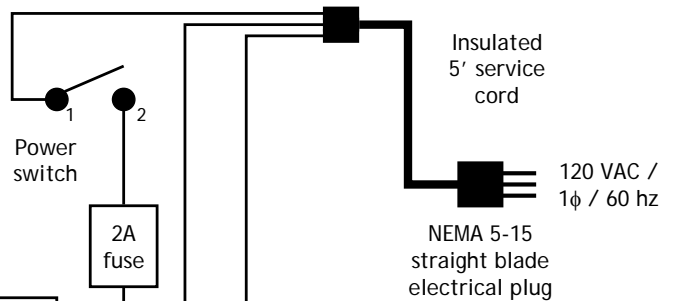
Depending on how the unit is oriented, the access door can be rotated to the upright position.

Specifications

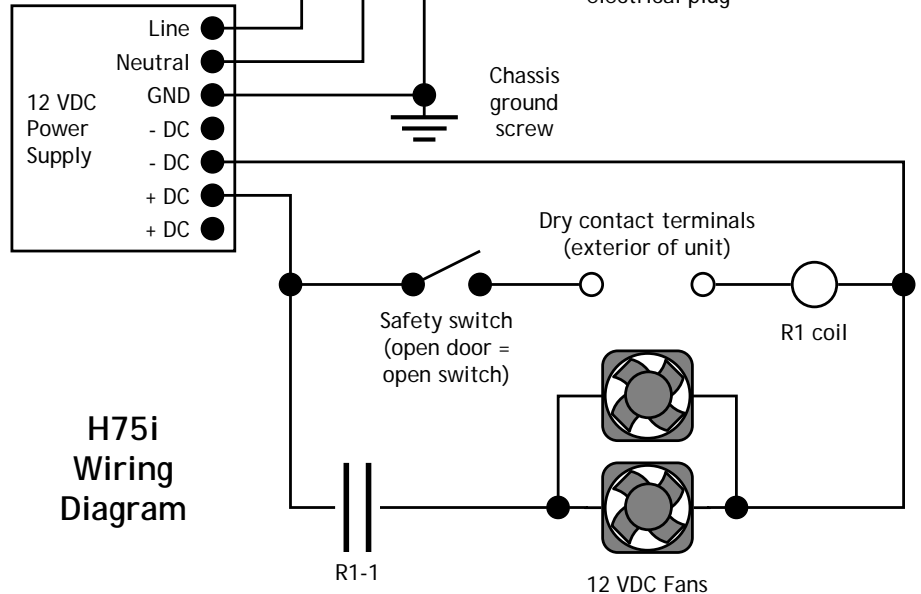


Unit Size	20.75" L x 21.36" W x 7.27" H (23.75" L including duct collars)
Weight	27 lb
Air Flow	75 SCFM nominal 94 SCFM maximum
Filters	Washable polyester fiber
Insulation	1" fiberglass (4.2 R-value)
Certification	ARI 1060 certified, ETL listed
Control	External dry contacts

Voltage	120 VAC @ 60 hz single phase
Current	0.75 A
Power	90 W
Electrical Cord	5' long, grounded 3-prong plug
Fuse	2 A time delay (5 mm x 20 mm)



Unit can be rotated for easy installation, but ducts are labeled to identify air flow. Do not connect air flows to incorrect openings.



O & M Guidelines

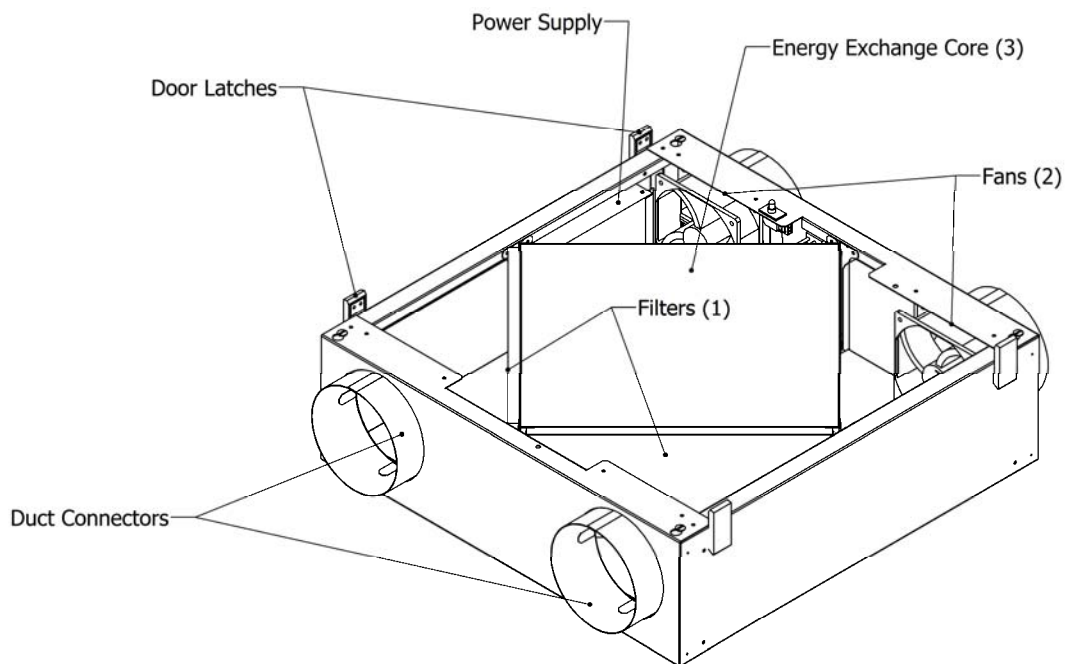


Operation Guidelines

1. The primary purpose of this unit is to provide the fresh air requirements of the zone it is serving and to precondition the fresh air by using the energy differential between the fresh air and exhaust streams.
2. The unit should be connect to a 120V, single phase, power source.
3. This unit can be safely operated from -10 deg. F. and 40% RH to 140 deg. F any RH. Occasional harsher conditions below the low end should not effect the unit but long term operation may require a defrost option.

Maintenance Guidelines

Maintenance Item	Month											
	1	2	3	4	5	6	7	8	9	10	11	12
Inspect Filters ¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspect Fans ²	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean Fans of Dust						✓						✓
Clean Heat Exchange Core Face ³						✓						✓



Notes:

1. Inspect filters and clean used filters as necessary to prevent air impurities from entering heat exchanger. Filters must be used for proper operation.
2. Inspect fans for proper operation and remove any dust or debris build up.
3. Vacuum the heat exchanger faces that come into contact with the outside air and room exhaust airstreams with a soft vacuum brush to remove excess dust buildup on the faces of the heat exchanger