

Energy and Heat Recovery Ventilators







TR • TRC • CRT • HR











MODEL FEATURES

- Polypropylene HRV core
- · 3 operating modes
- · Painted galvanized steel case
- Designed for simple installation by a single person
- Fully insulated case
- Limited lifetime warranty on the heat recovery core
- 5-year warranty on balance of unit

MODEL OVERVIEW

The JencoFan HR Series heat recovery ventilators (HRVs) are ideal for use in cold climates where home heating is essential. The HR Series uses one motor to exhaust stale room air and another motor to bring fresh outdoor air back into the house. The technology of a plate heat recovery core is that it transfers warm ambient air from one airstream to the other without mixing the air streams for maximum efficiency and comfort.

The HR Series has been engineered & designed to improve indoor air quality by reducing excess humidity or other contaminants during the winter time, and replacing this air by fresh filtered air from the outdoors. During colder seasons, the units heat recovery core (polypropylene core) will reclaim the heat from the outgoing stale air and use this heat to temper the incoming fresh air, which reduces the cost of effectively ventilating the home during winter. This process is reversed in the summer months.

Model HR is available in our Quickship program.
All sizes are available for next day shipping from stock.

Limited Lifetime core warranty. 5-year warranty on balance of unit.



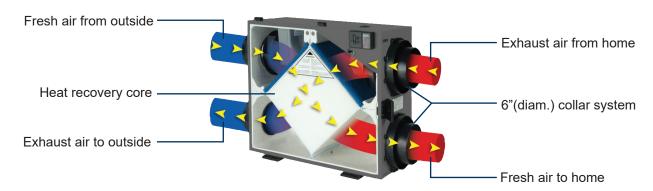


STANDARD SPECIFICATIONS AND FEATURES

- Polypropylene HRV core
- 3 operating modes (Intermittent, Continuous and High Speed)
- Duotrol[™] balancing system reduces noise that would be produced by balancing dampers
- Unique collar system for easy manipulation of duct for better and quicker installation
- · Painted galvanized steel case
- · Designed for simple installation by a single person
- Washable filters
- Fully insulated case
- Limited lifetime warranty on the heat recovery core
- 5-year warranty on balance of unit

The HRV Core

- During colder seasons the core will reclaim the heat from the outgoing stale air and reuse this heat to temper the incoming fresh air
- Designed to maximize airflow and performance
- · Reduces the cost of effectively heating the home during the winter
- Constructed from a composite of polypropylene materials that allows latent heat transfer from one airstream to another while preventing cross contamination
- Polypropylene (plastic) core reduces condensation compared to aluminum cores
- Limited lifetime warranty







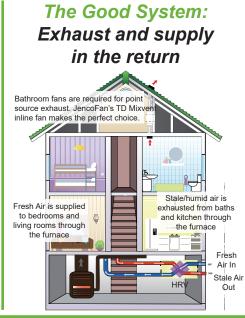
Types of Installation

The HR Series can be installed as independent systems that use independent ductwork or they can be connected to the existing duct of the forced air heating or cooling system. The "Best" and "Better" systems meet the ASHRAE 62.2 Whole Building requirement when using an JencoFan HR control (see pg 18).

The Best System: Independent System







JencoFan's HRV System

Duotrol™ Systems: Selects ventilation modes (OFF, CONT or INTER), also to adjust the continuous airflow rates: Increasing (+)/Decreasing (-).



- **Motors(2)**: Designed with high performance and reliability, they are maintenance free for comfort and peace of mind.
- **Synthetic Filters**: Capture the largest particle & protects the heat recovery core from potential obstruction by these particles.
- **Heat Recovery Core**: A polypropylene cross-flow type it is designed to transfer the heat between both exhaust & supply air streams without allowing any contamination or mixing of both air streams to maximize the efficient and improve indoor air quality.
- Condensate Drain Pan & Drainage Hose: Captures the water that accumulates during the heat transfer and defrosts sequence in the fall, winter & early spring seasons. Drain hose is connected to the drain pan and serves as drainage for the accumulation of water. It is normal during summer months to find no condensation in drain pan or in drainage hose.
- Automatic Defrost Sequence: The defrost sequence is electronically controlled to measure the incoming outdoor air temperature, the sequence is activated at -5°C (23°F) and colder and the duration is for 5 minutes then returns to normal operation for 25 minutes. This system eliminates that the heat recovery core doesn't build with ice or freezes.
- **Defrost sequence**: Supply fan shuts down, the exhaust fan speed increases pending the measured outside temperature.





CONTROLS



HRT-3 - Push Button Timer

- The HRT-3 model push button timer allows the homeowner control of the indoor humidity level in rooms were excess humidity is produced
- Press the button once the LED comes on then release, this activates the ventilation system to high speed for 20 minutes.
- Press the button until the LED blinks 2 times then release, this activates the ventilation system to high speed for 40 minutes.
- Press the button until the LED blinks 3 times then release, this activates the ventilation system to high speed for 60 minutes.
- Meets ASHRAE 62.2 continuous ventilation standards



HRRD-1 - Dehumidistat

- The HRRD-1 allows the users to select the humidity level using the Relative Humidity Sensor Dial
- The Relative Humidity Sensor Dial will "click" when the dial reaches approximate level of relative humidity and overrides the ventilation system to high speed once the level of humidity is above the set point
- For best results install in bathrooms, kitchen and laundry room
- Meets ASHRAE 62.2 continuous ventilation standards



HRRD-3P - Dehumidistat

- The HRRD-3P allows the users to select the humidity percentage, fan range and operation modes.
- Includes Relative Humidity Sensor, Speed Control Selector Switch and Mode Selector Switch
- The Relative Humidity Sensor Dial will "click" when the dial reaches approximate level of relative humidity and overrides the ventilation system to high speed once the level of humidity is above the set point
- Speed Control (OFF, NORMAL and REDUCED)
- Mode Control (INTERM and CONT)
- For best results install in bathrooms, kitchen and laundry room
- Meets ASHRAE 62.2 continuous ventilation standards









Specifications

Specifications							
Polypropylene HRV Core: cross-flow that transfers sensible heat							
Typical Airflow Range: 30-100 CFM							
Duct Connect	Duct Connections: Four (4) 5" oval ISF double collar system						
Number Moto	ors: Two (2) PS	SC variable spe	ed backward curved				
V	Hz	z Phase Amperage					
120	120 60 Single 0.85 A / 66 watts						
Exchange surface: 63.5 ft²							
Defrost type: Evacuation							

Filters: Two (2) Fiberbond washable

Drain Connection: 1/2"

DuoTrol: Integrated Balancing System

Weight: 33.5 lbs (unit), 41 lbs (in carton)

Dimensions: 22" W x 19-13/16" L x 14-19/32" H

HRT-3 - Push Button Timer HRRD-1 - Dehumidistat HRRD-3P - Dehumidistat

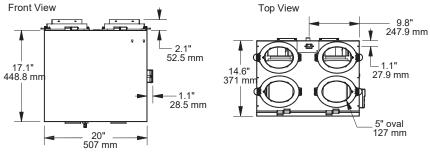
Energy Performance (Heating)

Supply Temperature N		Net Air Flow		Power Consumed	Sensible Recovery	Apparent Sensible	
°F	°C	CFM	L/s	(Watts)	Efficiency	Effectiveness	
32	0	40	19	28	64	72	
32	0	65	30	40	59	66	
-13	-25	37	18	30	55	73	

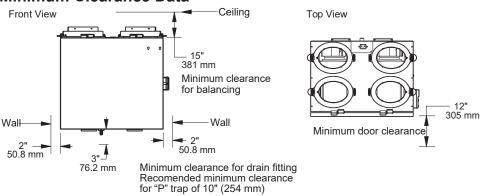
Ventilation Performance

External Static Pressure		Net Air Flow		Gross Air Flow Supply		Gross Air Flow Exhaust	
Pa	in. w.g.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	47	99	48	100	48	102
50	0.2	44	93	45	94	43	92
75	0.3	39	83	40	84	38	80
100	0.4	35	75	35	75	36	78
125	0.5	30	65	30	66	32	68
150	0.6	27	56	27	57	25	52
175	0.7	22	46	22	47	19	41

Dimensions



Minimum Clearance Data







HR160H





Specifications

Polypropylene HRV Core: cross-flow that transfers sensible heat							
Typical Airflow Range: 30-160 CFM							
Duct Connect	Duct Connections: Four (4) 6" dia. ISF double collar system						
Number Moto	ors: Two (2) PS	SC variable spe	ed backward curved				
V	Hz	Phase	Amperage				
120	120 60 Single 1.5 A / 142 watts						
Exchange sur	rface: 85 ft²						
Defrost type:	Evacuation						
Filters: Two (2	2) Fiberbond v	vashable					
Drain Connec	ction: 1/2"						
DuoTrol: Integ	grated Balanci	ng System					
Weight: 43 lbs (unit), 49 lbs (in carton)							
Dimensions: 29-1/2" W x 22-1/2" L x 11-3/8" H							
Options: HRT-3 - Push Button Timer HRRD-1 - Dehumidistat							

Energy Performance (Heating)

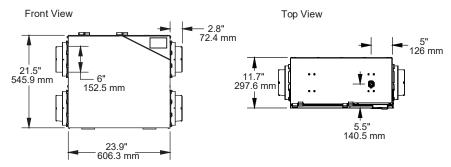
Supply Temperature Ne		Net Air Flow		Power Consumed	Sensible Recovery	Apparent Sensible	
°F	°C	CFM	L/s	(Watts)	Efficiency	Effectiveness	
32	0	65	31	72	66	75	
32	0	83	39	80	63	72	
32	0	107	50	94	60	67	
-13	-25	76	36	72	56	73	

Ventilation Performance

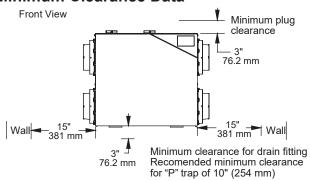
External Static Pressure		Net Air Flow		Gross Air Flow Supply		Gross Air Flow Exhaust	
Pa	in. w.g.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	91	193	91	194	103	217
50	0.2	84	178	85	179	95	201
75	0.3	77	163	77	163	86	183
100	0.4	71	150	71	151	80	169
125	0.5	63	133	63	134	71	152
150	0.6	57	120	57	121	66	138
175	0.7	51	109	51	109	57	121

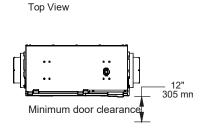
Dimensions

HRRD-3P - Dehumidistat



Minimum Clearance Data







JencoFan

HR220H





Specifications

Polypropylene HRV Core: cross-flow that transfers sensible heat							
Typical Airflow Range: 70-220 CFM							
Duct Connections: Four (4) 6" dia. ISF double collar system							
Number Moto	Number Motors: Two (2) PSC variable speed backward curved						
٧	V Hz Phase Amperage						
120 60 Single 1.5 A / 142 watts							
Exchange surface: 150 ft ²							

Defrost type: Evacuation

Filters: Two (2) Fiberbond washable

Drain Connection: 1/2"

DuoTrol: Integrated Balancing System

Weight: 51 lbs (unit), 59 lbs (in carton)

Dimensions: 29-1/2" W x 22-1/2" L x 16-1/2" H

Options:

HRT-3 - Push Button Timer HRRD-1 - Dehumidistat HRRD-3P - Dehumidistat

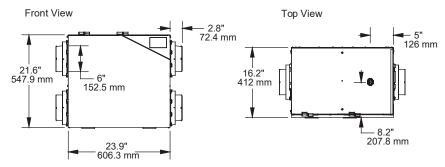
Energy Performance (Heating)

Supply Temperature		Net Air Flow		Power Consumed	Sensible Recovery	Apparent Sensible	
°F	°C	CFM	L/s	(Watts)	Efficiency	Effectiveness	
32	0	118	55	106	61	71	
32	0	160	75	132	58	65	
32	0	185	87	150	55	62	
-13	-25	120	57	105	58	72	

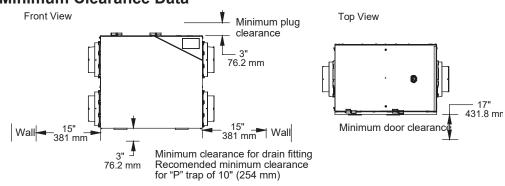
Ventilation Performance

External Static Pressure		No Air F		FI	ss Air ow oply	Gross Air Flow Exhaust	
Pa	in. w.g.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	117	248	118	250	130	277
50	0.2	108	229	109	231	119	253
75	0.3	102	218	103	220	110	234
100	0.4	94	200	95	202	101	216
125	0.5	85	181	86	183	92	197
150	0.6	77	163	78	165	82	175
175	0.7	69	146	70	148	71	151

Dimensions



Minimum Clearance Data



MODELS TR & TRC

TOTAL RECOVERY FOR ALL CLIMATES RESIDENTIAL OR COMMERCIAL APPLICATIONS

With JencoFan's TR & TRC (total recovery) Series for all climates, stale room air is exhausted and fresh outdoor air is brought back into the house. These two air streams are directed through a highly developed "air-to-air" energy exchange core. The air streams are physically separated by many layers of "plates" so there is no mixing or contamination of the fresh air. The plates are made of an engineered "resin" material that simultaneously transfers heat by conduction and humidity by attracting and moving water vapor from one air stream to the other.

JencoFan's TR & TRCs moderate extremes in both temperature and humidity, creating a comfortable indoor environment. The unique moisture transfer capability of the JencoFan core also eliminates condensation and frost build up in most applications. Unlike other ERVs on the market no mechanical or electrical defrost systems are needed, which means higher heat recovery efficiencies, easier installation and more reliable operation.

Contractor Benefits

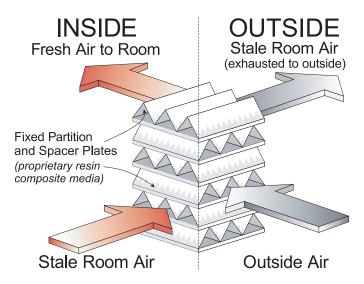


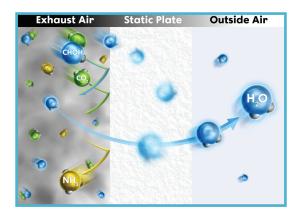
- Models compatible to any HVAC equipment
- Simple installation
- Mount in any orientation
- May be installed in unconditioned locations like attics and garages
- Easy-to-access field support
- Elimination of callbacks
- "Green Building" compliant

The CORE

- Efficient transfer of heat and moisture
- No liquid is accumulated; no drain pan or defrost mechanism is required!
- Industry best 10-year warranty

5th Generation Core





· Contaminated air is exhausted from the building, while the static plate core regulates extremes in humidity

The Warranty

An JencoFan TR or TRC is protected by a 10-year core warranty with a 5-year warranty on balance of the TR unit and 2-year warranty on balance of the TRC unit. This commitment - twice as long as coverage on the best wheel products - means with JencoFan you can just fit and forget.





MODEL TR AND TRC SIZING

Choosing the Right Size TR by Square Footage

Choosing the correct size TR for your structure is easy, all you need to know is the square footage.

If you structure is up to:

1500 Sq. Ft. you need a TR90/TR90G

2700 Sq. Ft. you need a TR130

4000 Sq. Ft. you need a TR200

6000 Sq. Ft. you need a TR300



Choosing the Right Size TR or TRC by Air Handler Load

For each ton of air handling capacity, 120 CFM of Energy Recovery Ventilation is recommended.

Ton	Capacity 30% Outside Air Fraction in CFM	Model Needed
1.0	120	TR130
1.5	180	TR200
2.0	240	TR300
2.5	300	TR300
3.0	360	TRC500
3.5	420	TRC500
4.0	480	TRC500
5.0	600	TRC800
6.5	780	TRC800
8.0	960	TRC1200
12	1,440	TRC1200
13.5	1,620	TRC1600





Model TR90/TR90G



Models TR130, TR200 and TR300



Model TRC500



Model TRC800



Model TRC1200



Model TRC1600







MODEL FEATURES

- MERV-8 filters
- Less than 1 watt stand-by power consumption
- Transformer/relay package allowing simple on/off control
- Plastic double collars for 6 or 8" direct duct connection (TR300 is 8" only)
- 3' power cord
- Integral mounting flange and hanging bracket system
- Fully insulated case
- Large cores for high efficiency
- · No condensate pan or drain required

MODEL OVERVIEW

To protect the two most valuable investments of your life, your home and your family, improving indoor air quality is key. With JencoFan's TR (total recovery) Series for all climates, stale room air is exhausted and fresh outdoor air is brought back into the house. With this line of ERVs (Energy Recovery Ventilators) these two air streams are directed through a highly developed "air-to-air" energy exchange core. The air streams are physically separated by many layers of "plates" so there is no mixing or contamination of the fresh air. The plates are made of an engineered "resin" material that simultaneously transfers heat by conduction and humidity by attracting and moving water vapor from one air stream to the other.

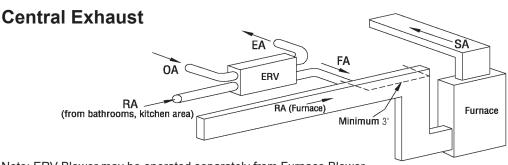
JencoFan's TRs moderate extremes in both temperature and humidity, creating a comfortable indoor environment. The unique moisture transfer capability of the JencoFan core also eliminates condensation and frost build up in most applications. Unlike other ERVs on the market no mechanical or electrical defrost systems are needed, which means higher heat recovery efficiencies, easier installation and more reliable operation.

10-year industry best core warranty. 5-year warranty on balance of unit.



STANDARD SPECIFICATIONS AND FEATURES

- MERV-8 filters
- Less than 1 watt stand-by power consumption
- Transformer/relay package allowing simple on/off control
- Plastic double collars for 6 or 8" direct duct connection (TR300 is 8" only)
- TR90, TR130, TR300 have painted case, low voltage controls, 3' Power cord
- TR90G has galvanized case, line voltage and no line cord
- Integral mounting flange and hanging bracket system
- Fully insulated case
- · Large cores for high efficiency
- · No condensate pan or drain required
- 10-year industry best core warranty
- 5-year warranty on balance of unit

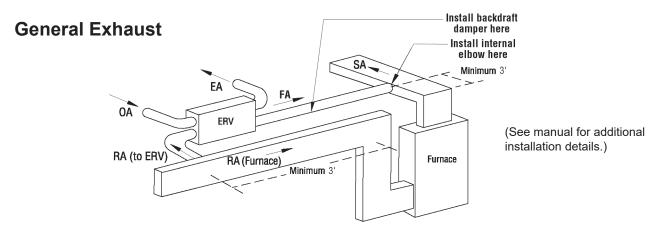


EA: Exhaust Air to outdoors OA: Outdoor Air intake

RA: Room Air to be exhausted

FA: Fresh Air to inside

Note: ERV Blower may be operated separately from Furnace Blower



Note: ERV Blower may be operated separately from Furnace Blower

JencoFan

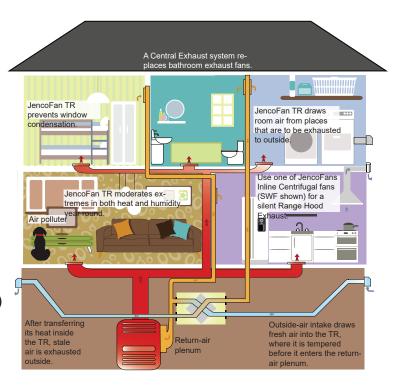
TR APPLICATIONS

Central Exhaust

Your BEST choice for green ventilation, Series TR exhausts stale air, brings in fresh air and saves energy year-round.

Series TR

- Replaces bathroom exhaust fans
- 20 CFM continuous per bathroom
- 50 CFM intermittent per bathroom
- Meets ASHRAE 62.2 when used with one of JencoFan's Percentage Timer Controls
- Other possible exhaust locations: kitchen area (cannot exhaust range hood), utility room, smoking room, hobby room, etc.
- Small duct work system to collect air from each exhaust location
- Fresh air may be supplied to furnace (AC) return air duct
- Optional automatic proportional runtime control and push button control available

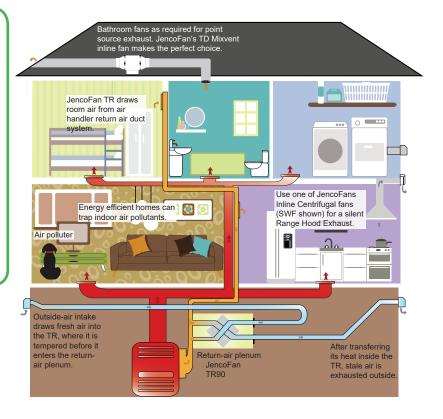


General Ventilation

Bathroom exhaust fans are required with this application



To get the most efficient and effective general ventilation system available use a TR with JencoFan's exclusive TD-MIXVENT inline fans for bathroom exhaust.



JencoFan

CONTROLS



SPTL - Percentage Timer Control

- Primary control for TR90, TR130, TR200 and TR300
- Runs unit an adjustable amount of time each hour
- Two wire, low voltage connection to TR
- Meets ASHRAE 62.2 continuous ventilation standards



SPBL - Push Button Point-of-Use Control

- Push button control turns on unit from bathrooms or other intermittent exhaust locations
- 20 minute run-time with one touch
- Push 2x for 40 or 3x for 60 minutes
- Two wire, low voltage connection to SPTL



SFM - Percentage Timer Control with Furnace Interlock

- Alternate primary control for TR90, TR130, TR200 and TR300
- Wires to TR unit and either thermostat or furnace control to turn on furnace blower
- Six wire, low voltage connection
- Meets ASHRAE 62.2 continuous ventilation standards



SHW-20 - Dehumidistat

- Rotary dial dehumidistat
- Turn the dial to set desired humidity level
- Designed for convenient installation in bathrooms, kitchen or laundry room
- Dehumidifies when inside air is more humid than the set point
- Caution: the outside air must be less humid than the indoor air for this to work.













Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer
Typical Airflow Range: 40-110 CFM
TR90 - Painted Case, Low Voltage Controls, Line Cord
TR90G - Galvanized Case, Line Voltage, No Line Cord
Unit may be mounted in any orientation and in heated or unheated locations

Number Motors: Two, 0.03 HP each, totally enclosed, thermally protected, 0.35A

V	Hz	Phase	Input Watts	FLA			
120	60	Single	94 @ 69 CFM	0.16			
Control Voltage: 24 VAC							

Filters: MERV 8, spun polyester media. 7-12" x 10-1/2" x 1"

Weight: 36 lbs (unit), 41 lbs (in carton)

Shipping Dimensions: 28-1/2" L x 21-1/2" W x 14-3/4" H

Options (for TR90 only, not compatible with TR90G):

SPTL - Percentage Timer Control

SPBL - Push Button Point-of-Use Control

SFM Percentage Timer Control with Furnace Interlock

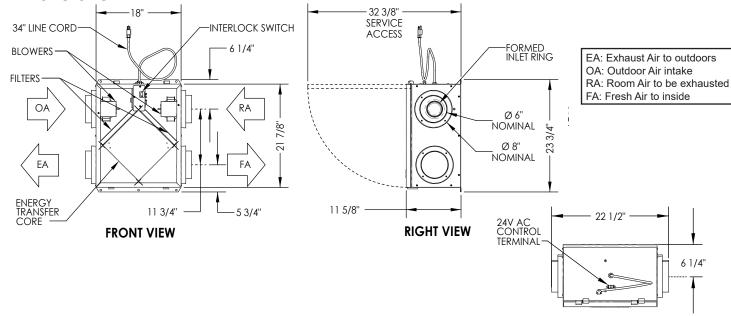
SHW-20 - Dehumidistat Control

Performance

Airflow CFM	Temp EFF%	Temp Winter%*	Total EFF% Summer*
113	61	55	42
98	64	58	46
85	67	61	49
73	69	33	53
58	72	66	57
40	76	70	61

^{*} Contact Factory for HVI certification report for complete certified rating.

Dimensions















Performance

Airflow CFM	ESP in H ₂ O	Temp EFF%	Total EFF% Winter/Summer*
79	0.60	78	73/60
104	0.50	75	69/55
126	0.40	72	66/50
137	0.30	71	64/48
153	0.20	68	61/45
165	0.10	67	59/43

^{*} Contact Factory for HVI certification report for complete certified rating.

Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer

Typical Airflow Range: 50-140 CFM

Unit may be mounted in any orientation

Number Motors: One, 0.1 hp

V	Hz	Phase	Input Watts	FLA
120	60	Single	102 @ 130 CFM	1.2

Control Voltage: 24 VAC transformer / relay package with

switched dry contacts

Filters: MERV 8, spun polyester media. 10-1/2" x 10-1/2" x 1"

Weight: 49 lbs (unit), 60 lbs (in carton)

Shipping Dimensions: 32" L x 21" W x 17-1/2" H (in carton)

Options:

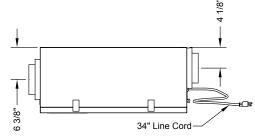
SPTL - Percentage Timer Control

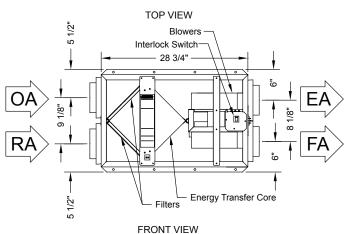
SPBL - Push Button Point-of-Use Control

SFM Percentage Timer Control with Furnace Interlock

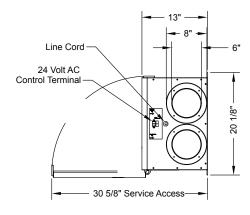
SHW-20 - Dehumidistat Control

Dimensions





EA: Exhaust Air to outdoors
OA: Outdoor Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside



RIGHT VIEW











Performance

Airflow CFM	ESP in H ₂ O	Temp EFF%	Total EFF% Winter/Summer*
122	0.70	81	77/64
149	0.60	79	75/61
168	0.50	78	73/59
176	0.40	78	72/59
186	0.30	77	72/58
192	0.20	77	71/57
207	0.10	76	70/56

* Contact Factory for HVI certification report for complete certified rating.

Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer

Typical Airflow Range: 100-200 CFM

Unit may be mounted in any orientation

Number Motors: One, 0.1 hp

V	Hz	Phase	Input Watts	FLA
120	60	Single	157 @ 181 CFM	1.5

Control Voltage: 24 VAC transformer / relay package with

switched dry contacts

Filters: MERV 8, spun polyester media. 10-1/2" x 21-3/4" x 1"

Weight: 70 lbs (unit), 82 lbs (in carton)

Shipping Dimensions: 32" L x 21-1/2" W x 29" H (in carton)

Options:

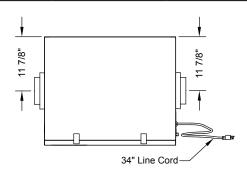
SPTL - Percentage Timer Control

SPBL - Push Button Point-of-Use Control

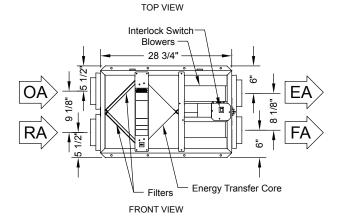
SFM Percentage Timer Control with Furnace Interlock

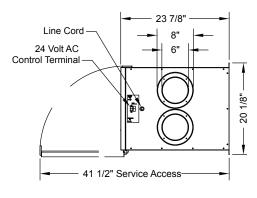
SHW-20 - Dehumidistat Control

Dimensions



EA: Exhaust Air to outdoors
OA: Outdoor Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside





RIGHT VIEW

JencoFan

<u>TR300</u>











Airflow CFM	ESP in H ₂ O	Temp EFF%	Total EFF% Winter/Summer*
170	1.0	78	73/59
191	0.9	77	71/57
215	0.8	75	69/55
256	0.7	73	66/51
277	0.6	71	65/49
295	0.5	70	63/47
311	0.4	69	62/46

^{*} Contact Factory for HVI certification report for complete certified rating.

Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer

Typical Airflow Range: 150-300 CFM
Unit may be mounted in any orientation

Number Motors: One. 0.2 hp

		o, op	
V	Hz	Phase	Input

L	V	ПZ	Pnase	input watts	FLA
	120	60	Single	315 @ 297 CFM	3.3

Control Voltage: 24 VAC transformer / relay package with

switched dry contacts

Filters: MERV 8, spun polyester media. 10-1/2" x 21-3/4" x 1"

Weight: 72 lbs (unit), 85 lbs (in carton)

Shipping Dimensions: 32" L x 21-1/2" W x 29" H (in carton)

Options:

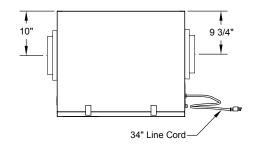
SPTL - Percentage Timer Control

SPBL - Push Button Point-of-Use Control

SFM Percentage Timer Control with Furnace Interlock

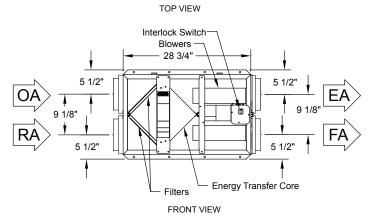
SHW-20 - Dehumidistat Control

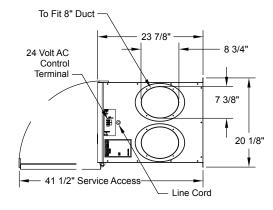
Dimensions



EA: Exhaust Air to outdoors
OA: Outdoor Air intake
RA: Room Air to be exhausted

FA: Fresh Air to inside







COMMERCIAL APPLICATIONS



MODEL FEATURES

- MERV-8 filters
- Transformer/relay package allowing simple on/off control
- Access doors for easy access to blowers, core and filters
- Fully insulated case
- Large cores for high efficiency
- · No condensate pan or drain required



MODEL OVERVIEW

With JencoFan's TRC (total recovery for commercial applications) Series for all climates, stale room air is exhausted and fresh outdoor air is brought back into the building. With this line of ERVs (Energy Recovery Ventilators) these two air streams are directed through a highly developed "air-to-air" energy exchange core. The air streams are physically separated by many layers of "plates" so there is no mixing or contamination of the fresh air. The plates are made of an engineered "resin" material that simultaneously transfers heat by conduction and humidity by attracting and moving water vapor from one air stream to the other.

JencoFan's TRCs moderate extremes in both temperature and humidity, creating a comfortable indoor environment. The unique moisture transfer capability of the JencoFan core also eliminates condensation and frost build up in most applications. Unlike other ERVs on the market no mechanical or electrical defrost systems are needed, which means higher heat recovery efficiencies, easier installation and more reliable operation.

10-year industry best core warranty. 2-year warranty on balance of unit.





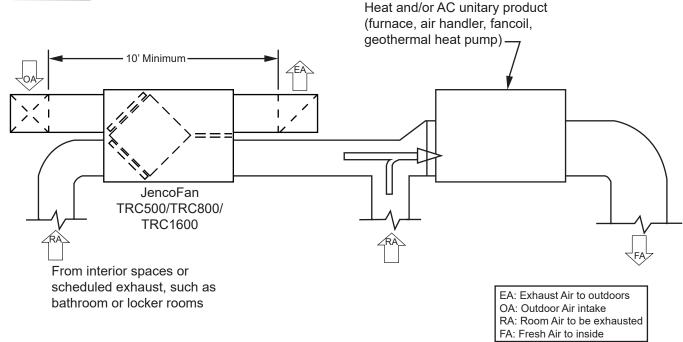
STANDARD SPECIFICATIONS AND FEATURES

- AHRI certified performance data for efficiency and cross leakage.
- UL tested flammability and smoke generation that meets NFPA 90A and 90B test standards for commercial applications.
- Easy installation and service.
- Easiest maintenance of any ERV
- MERV-8 filters (2 in the TRC500 & TRC800, 4 in the TRC1200 & TRC1600)
- Transformer/relay package allowing simple on/off control
- Access doors for easy access to blowers, core and filters
- TRC500 & TRC800 have integral mounting flange and hanging bracket system
- TRC1200 & TRC1600 have mounting feet for installation at floor level
- 2 Direct Drive, TEFC, Premium Efficient blower motors in the TRC500, TRC800, & TRC1200
- 2 Belt Drive, TEFC, Premium Efficient blower motors in the TRC1600
- Fully insulated case
- Large cores for high efficiency
- No condensate pan or drain required
- 10-year industry best core warranty
- 2-year warranty on balance of unit











CONTROLS

These controls are intended to turn JencoFan commercial energy recovery ventilation systems on and off at appropriate times. Specification, installation and set-up is an easy process. The TRC units come standard with a 24 volt transformer/relay package for easy interface with all controls.

It is not necessary that JencoFan controls be used to operate JencoFan units. A wide range of controls or building automation systems may be used.

The JencoFan residential (TR) units have their own line of compatible controls that are not intended to operate JencoFan commercial (TRC) units.

STC7D-W - Digital Time Clock - Wall Mount

- Up to 8 on/off cycles per day or 56 per week
- 24 VAC power requirement
- · Battery back-up
- Fits any 4" x 4" electrical box

SMC-C - Motion (Occupancy) Control - Ceiling Mount



- Passive infrared sensor
 Adjustable time off delay to 20 a
- Adjustable time-off delay to 30 minutes
- 24 VAC power requirement
- Covers up to 1500 sq. ft. floor space walking motion coverage up to 22 foot radius

•

SCO2-W - Carbon Dioxide Control - Wall Mount

- Adjustable control from 600-2000 PPM
- Digital display
- 24 VAC power requirement
- Computer/BAS interface for information and control
- Self calibrates during periods of low occupancy



SHW-20 - Dehumidistat

- Rotary dial dehumidistat
- Turn the dial to set desired humidity level
- Designed for convenient installation in bathrooms, kitchen or laundry room
- Dehumidifies when inside air is more humid than the set point
- Caution: the outside air must be less humid than the indoor air for this to work.



TRC500









Performance

Airflow CFM	ESP in H ₂ O	Watts	Temp EFF%	Total EFF% Winter/Summer*
225	1.25	335	81	76/66
338	1.00	420	77	71/61
380	0.90	470	75	69/59
450	0.65	550	73	66/56
540	0.25	640	70	62/52
575	0.00	690	69	61/51
600	-0.25	735	68	60/50

^{*} At AHRI 1060 standard conditions (see certified data on page 69 for core components.) Note: Watts is for the entire unit.

Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer

Typical Airflow Range: 200-540 CFM

AHRI 1060 Certified Core: One L85

Airflow Rating Points (for AHRI): 450 CFM and 338 CFM

Motors: One, 0.6 hp (Single Phase)

V	Hz	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
115	60	Single	7.0	8.8	15
208-230	60	Single	3.5	4.4	15

Standard Features: 24 VAC Transformer/Relay Package

Filters: Two total, MERV 8, 2" pleated, 14" x 20" nominal size

Weight: 141 lbs (unit), 160 lbs (in carton)

200 lbs (on pallet), up to 3 units on 40 lb pallet

Shipping Dimensions: 48" L x 41" W x 18" H (in carton)

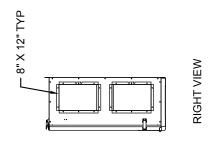
55" L x 42" W x 22" H (on pallet)

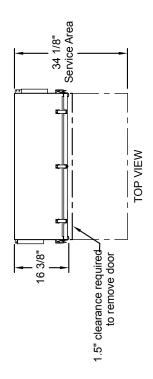


JencoFan

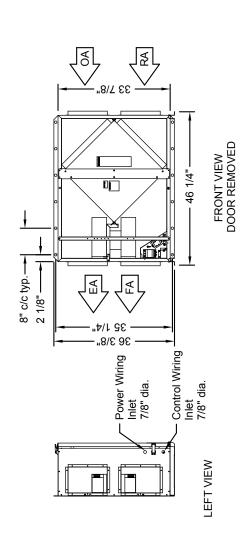
Dimensions

EA: Exhaust Air to outdoors OA: Outdoor Air intake RA: Room Air to be exhausted FA: Fresh Air to inside





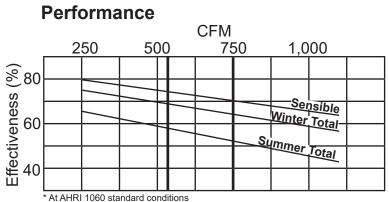






TRC800





(see certified data on page 69 for core components.)

Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer
Typical Airflow Range: 250-925 CFM
AHRI 1060 Certified Core: One L125-00
Airflow Rating Points (for AHRI): 750 CFM and 563 CFM
Number Motors: Two direct drive blower/motor packages

V	Hz	Phase	FLA (per motor)	Min. Cir. Amps	Max. Overcurrent Protection Device
115	60	Single	9.0	20.3	25
208-230	60	Single	4.5	10.1	15

Standard Features: 24 VAC Transformer/Relay Package

Filters: Two total, MERV 8, 2" pleated, 20" x 20" nominal size

Weight: 211 lbs (unit), 300 lbs (shipping weight, on pallet)

Shipping Dimensions: 62" L x 48" W x 40" H

Airflow Performance

Motor HP	External Static Pressure (Inches Water Column)						
Phase	0.0	0.25	0.5	0.75	0.9	1.25	1.5
0.75	970 CFM	925 CFM	860 CFM	795 CFM	750 CFM	635 CFM	480 CFM
Single Phase	1,490 Watts	1,375 Watts	1,270 Watts	1,160 Watts	1,090 Watts	950 Watts	825 Watts

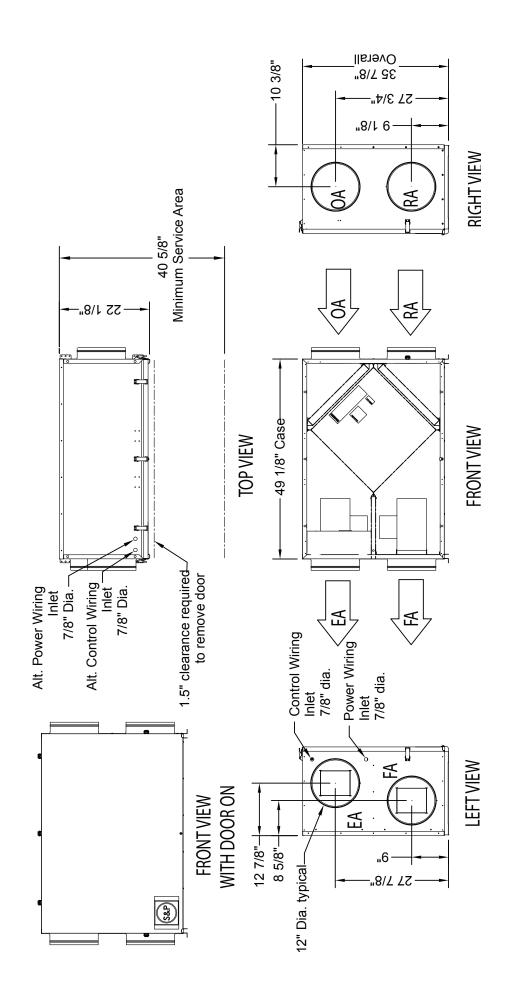
Note: Watts is for the entire unit (two motors).



JencoFan

Dimensions

EA: Exhaust Air to outdoors OA: Outdoor Air intake RA: Room Air to be exhausted FA: Fresh Air to inside





TRC800V









Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer Typical Airflow Range: 250-925 CFM AHRI 1060 Certified Core: One L125-G5 Airflow Rating Points (for AHRI): 750 CFM and 563 CFM

Number Motors: Two direct drive blower/motor packages

V	Hz	Phase	FLA (per motor)	Min. Cir. Amps	Max. Overcurrent Protection Device
120	60	Single	9.0	20.3	25
208-230	60	Single	4.5	10.1	15

Standard Features: Non-Fused Disconnect

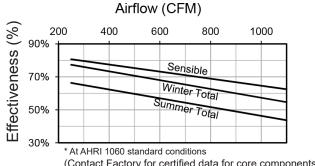
24 VAC Transformer/Relay Package

Filters: Two total, MERV 8, 2" pleated, 20" x 20" nominal size

Weight: 207 lbs (unit), 325 lbs (shipping weight, on pallet)

Shipping Dimensions: 30" L x 42" W x 71" H

Performance



(Contact Factory for certified data for core components.)

Airflow Performance

Motor HP	External Static Pressure (Inches Water Column)										
Phase	0.0	0.25	0.5	0.75	0.9	1.25	1.5				
0.75	970 CFM	925 CFM	860 CFM	795 CFM	750 CFM	635 CFM	480 CFM				
Single Phase	1,490 Watts	1,375 Watts	1,270 Watts	1,160 Watts	1,090 Watts	950 Watts	825 Watts				

Note: Watts is for the entire unit (two motors).



RIGHT VIEW

FRONT VIEW

TRC800V

Dimensions

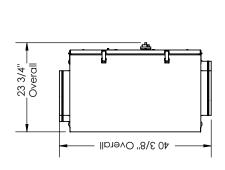


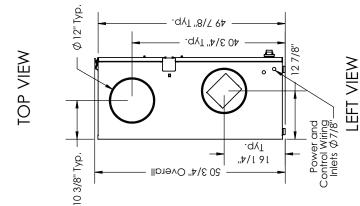
INSTALLATION ORIENTATION Unit may be installed in any orientation.

NOTE
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE ROUNDED TO THE
NEAREST EIGHTH OF AN INCH.

8 5/8" Service Area (Doors can be Removed from 20 1/8" Minimum Hinges.) 21 3/4" Case W 29" Removed from Hinges.) (Doors can be Service Area muminiM "94

> --- 27/8"Typ. 8 $\stackrel{\mathsf{H}}{\rightarrow}$.,⊅/È∠l 34 7/8" Case -1 **e** Door-Interlocked Disconnect Switch Pressure Ports (4) Typ.– ${\sf FA}$ 3/4" - 1 7/8" Typ. \mathbb{R}^{A} 49 1/8" Case







TRCe800V









Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer Typical Airflow Range: 250-1,100 CFM AHRI 1060 Certified Core: One L125-G5 Airflow Rating Points (for AHRI): 750 CFM and 563 CFM

Motors: Two, 0.5 HP, Direct Drive EC blower/motor package

V	Hz	Phase	FLA (per motor)	Min. Cir. Amps	Max. Overcurrent Protection Device
120	60	Single	8.1	18.2	25
208-230	60	Single	4.8	10.8	15

Standard Features: Non-Fused Disconnect

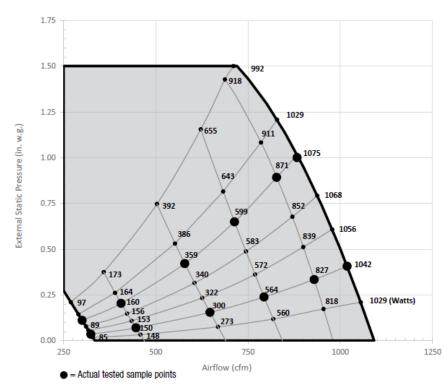
24 VAC Transformer/Relay Package

Filters: Two total, MERV 8, 2" pleated, 20" x 20" nominal size

Weight: 207 lbs (unit), 325 lbs (shipping weight, on pallet)

Shipping Dimensions: 30" L x 42" W x 71" H

Performance



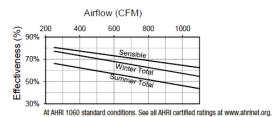
Core Performance

Airflow CFM	ESP in H ₂ O	Watts
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

Note: Watts is for the entire unit.

Note: Airflow performance includes effect of clean, standard

filter supplied with unit.





RIGHT VIEW

FRONT VIEW

TRCe800V

Dimensions

ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside

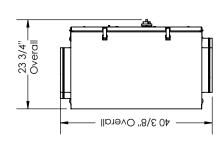
FA: Fresh Air To Inside

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

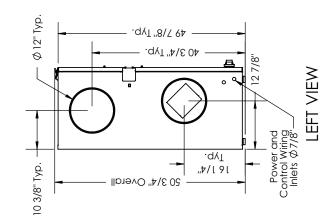
NOTE UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH. Service Area (Doors can be Removed from Hinges.)

Solving Swing Sw

Ports (4) Typ. — 34 7/8" Case — 27/8" Typ. —



TOP VIEW





<u>TRC1200</u>





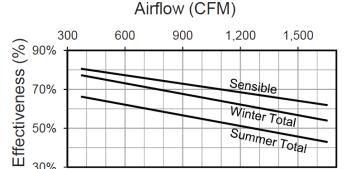






Performance

30%



* At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Cores: One L62-G5 and one L125-G5

Motors: Qty 2, 1.0 HP ea., Direct Drive motorized impeller packages

Drive HP	V	Hz	Phase	FLA (per motor)	Min. Cir. Amps	Max. Overcurrent Protection Device
	120	60	Single	6.5	14.6	20
1.0	208- 230	60	Single	3.3-3.4	7.7	15
1.0	208- 230	60	Three	2.2-2.2	5.0	15
	460	60	Three	1.1	2.5	15

Standard Features: 24 VAC Transformer/Relay Package

Filters: Total Qty. 4, MERV 8: (2) 14" x 20" x 2" and (2) 16" x 20" x 2"

Dimensions & Weight: 45 1/8" L x 33 1/2" W x 53 5/8" H, 337 lbs.

Shipping Dimensions & Weight (on pallet): 70" L x 47" W x 58 5/8" H, 403 lbs.

Airflow Performance

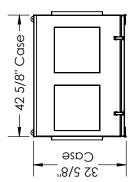
Motor HP		External Static Pressure (Inches Water Column)											
Phase	0.0	0.25	0.50	0.75	1.00	1.25	1.50						
1.0	1,575 CFM	1,470 CFM	1,350 CFM	1,225 CFM	1,090 CFM	950 CFM	795 CFM						
Single Phase	1,545 Watts	1,525 Watts	1,500 Watts	1,475 Watts	1,435 Watts	1,380 Watts	1,300 Watts						
1.0	1,675 CFM	1,570 CFM	1,435 CFM	1,280 CFM	1,115 CFM	940 CFM	760 CFM						
Three Phase	1,410 Watts	1,400 Watts	1,380 Watts	1,340 Watts	1,280 Watts	1,210 Watts	1,135 Watts						

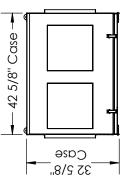


TRC1200

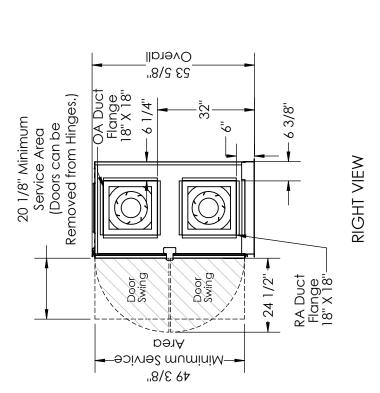
Dimensions

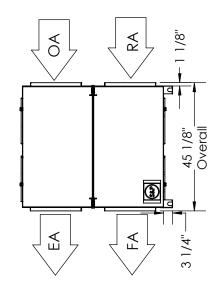


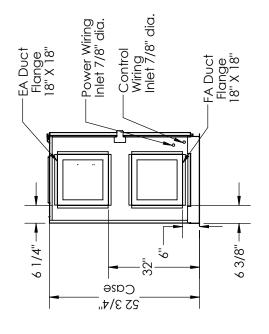




TOP VIEW







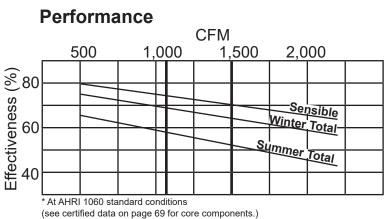
FRONT VIEW

LEFT VIEW



<u>TRC1600</u>





Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer

Typical Airflow Range: 500-2,025 CFM

AHRI 1060 Certified Core: Two L125-00

Airflow Rating Points (for AHRI): 1,500 CFM and 1,126 CFM

Number Motors: Two belt drive blower/motor packages with adjustable sheaves

Drive HP	V	Hz	Phase	FLA (per motor)	Min. Cir. Amps	Max. Overcurrent Protection Device
	115	60	Single	15.2	34.2	45
1.5	208-230	60	Single	8.2-7.6	18.5	25
1.5	208-230	60	Three	4.6-4.8	10.8	15
	460	60	Three	2.4	5.4	15

Standard Features: Totally Enclosed Premium Efficiency Motors

Motor Starters, 24 VAC Transformer/Relay Package

Filters: Four total, MERV 8, 2" pleated, 20" x 20" nominal size

Weight: 414 lbs (unit), 505 lbs (shipping weight, on pallet)

Shipping Dimensions: 72" L x 48" W x 40" H

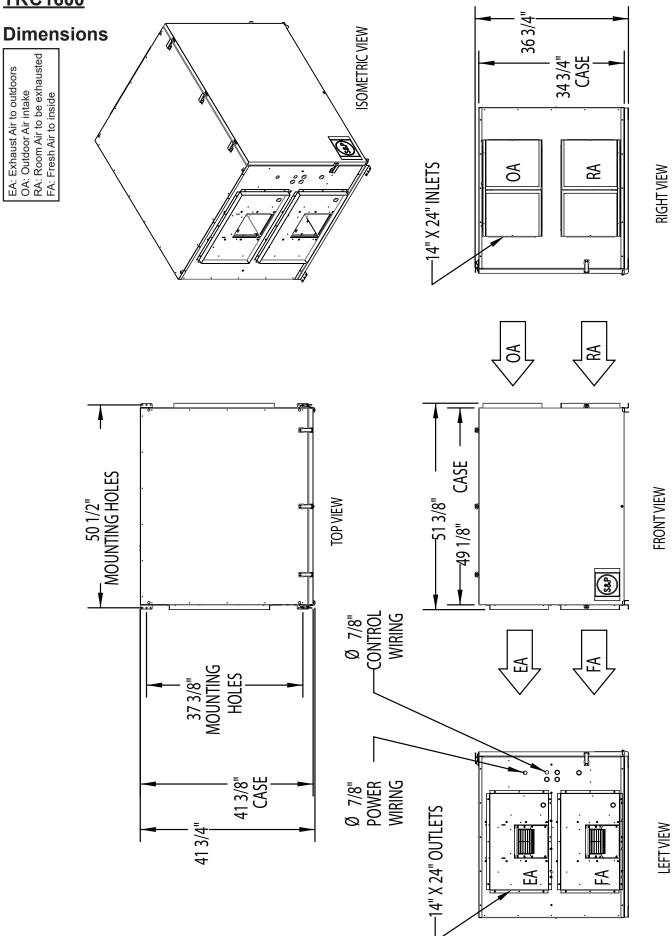
Airflow Performance

				External Static Pressure (in w.g.)												
Motor Blower Turns HP RPM Open		0.0		0.25		0.	0.5		0.75		0.9		1.25		1.5	
		SCFM	ВНР	SCFM	ВНР	SCFM	ВНР	SCFM	ВНР	SCFM	ВНР	SCFM	ВНР	SCFM	ВНР	
	1148	4	1592	0.7	1480	0.7	1320	0.6	1120	0.5	800	0.4	-	-	-	-
1.5	1304	2	1809	1.0	1720	1.0	1600	0.9	1410	0.8	1250	0.7	975	0.6	630	0.4
	1460	0	2025	1.5	1950	1.4	1845	1.3	1715	1.2	1540	1.1	1400	1.0	1165	8.0

Note: Brake Horse Power (BHP) is for one blower motor package only.



TRC1600





AHRI 1060-2005 - CERTIFIED PERFORMANCE

	AHRI-1060 Certified Performance - Model Number L85-G5 (used in TRC500)													
	Туре		Tilt Angle							al Airfle	ow	Pressure Drop		
	Plate				Ι/Λ			1	00% - 4	150 SC	FM	0.6 in. H ₂ O		
Plate N/A								7	'5% - 3	38 SCI	FM	0.5	in. H ₂ O	
Leakage Ratings Thermal Effectiveness Ratings at 0" Pressure Differential									rential					
	Pressure Differential	EATR	OACF	Purge Angle or Setting		ominal irflow	Sens	sible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total
Test 1	-1 in. H ₂ O	1.0%	1.00	N/A	450	Heating	73	%	53%	66%	450	73%	53%	66%
Test 2	0 in. H ₂ O	0.0%	1.02	N/A	CFM	CFM Cooling		%	46%	56%	CFM	73%	46%	56%
	5 · · · · · · · · · · · · · · · · ·	0.070			338	338 Heating		%	60%	71%	338	77%	60%	71%
Test 3	1 in. H ₂ O	0.0%	1.05	N/A	CFM	Cooling	77	%	52%	61%	CFM	77%	52%	61%

	AHRI-1060 Certified Performance - Model Number L125-G5 (used in TRC800, TRC1200 & TRC1600)												
Type Tilt Angle								Nomin	al Airfl	ow	Pressure Drop		
	Plate	,		N	I/A			100% - 750 SCFM 0.65					
Plate N/								75% -	563 SCI	FM	0.45	5 in. H ₂ C	
Leakage Ratings Thermal Effectiveness Ratings at 0" Pressure Differenti									rential				
	Pressure Differential	EATR	OACF	Purge Angle or Setting		ominal irflow	Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total
Test 1	-1 in. H ₂ O	1.0%	1.00	N/A	750	Heating	71%	52%	64%	750	71%	52%	64%
Test 2	0 in. H ₂ O	0.0%	1.02	N/A	CFM	Cooling	71%	43%	53%	CFM	71%	43%	53%
15502				,,,	563	563 Heating		59%	69%	563	75%	59%	69%
Test 3	1 in. H ₂ O	0.0%	1.05	N/A	CFM	Cooling	75%	50%	59%	CFM	75%	50%	59%

NOTE: SCFM = Standard Cubic Feet per Minute OACF = Outdoor Air Correction Factor EATR = Exhaust Air Transfer Ratio N/A = Not Applicable

Energy recovery components certified in accordance with AHRI Standard 1060-2005. Actual Performance in packaged equipment may vary.











- MERV-8 filters
- Fully insulated case
- Large cores for high efficiency
- No condensate pan or drain required
- AHRI Certified
- Rainhood included
- Access door for easy maintenance and Cleaning
- Integral lifting lugs





MODEL OVERVIEW

The Models CRT consist of an insulated sheet metal cabinet with 2, 3 or 4 ERV cores and MERV 8 filters. These roof mounted cabinets are designed for retrofit or new construction applications where space for an ERV does not meet the requirements. The CRT provides cost effective energy recovery with the flexibility in location of the supply and exhaust blowers.

STANDARD FEATURES

- G5 AHRI Certified performance data for efficiency and cross leakage
- Ten year core performance warranty
- No liquid water (condensate) or accompanying drain line to deal with as with many competing brands
- Hinged and latched access door to ERV cores with airtight outdoor exposure compression seals
- Built-in pressure ports with captive plugs allowing cross-core pressure measurement and accurate airflow measurement
- Rainhood standard, ships assembled with unit
- One inch thick dense fiberboard insulation with scrimmed foil facing washable, durable and easy to maintain - no loose insulation fibers to break off and enter the airstreams
- UL tested flammability and smoke generation that meets NFPA 90A and 90B test standards for commercial applications
- MERV 8, 2" pleated, 20"x20" nominal size filters as follows:
 - C2XRT: Four total, two for each airstream
 - C3XRT: Six total, three for each airstream
 - C4XRT: Eight total, four for each airstream

10-year industry best core warranty. 2-year warranty on balance of unit.





SPECIFICATIONS

Ventilation Type: Static Plate, Heat and Humidity Transfer

Insulated sheet metal cabinets with energy exchange cores and filters

Individual CRT Series units can be built to larger air handling systems

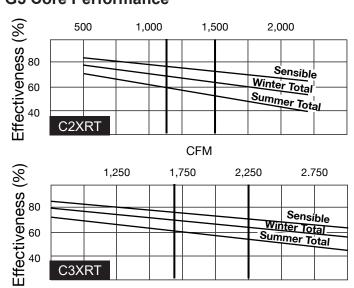
Blower not included and must be specified to meet job requirements

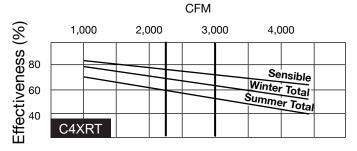
Description	C2XRT	C3XRT	C4XRT	
Typical Airflow Range CFM	500-2,200	750-3,300	1,000-4,000	
AHRI 1060 Certified Core	Two (2) L125-00	Three (3) L125-00	Four (4) L-125-00	
Airflow Rating Points (for AHRI)	1,500 and 1,120 CFM	2,250 and 1,690 CFM	3,000 and 2,250 CFM	
Unit Weight	250 lbs	377 lbs	462 lbs	
Shipping Weight	310 lbs	477 lbs	562 lbs	
Filters: MERV 8, 2" pleated 20" x 20" nominal sizes	Four (4) Total	Six (6) Total	Eight (8) Total	
Shipping Dimensions (W x L x H)	62" x 48" x 48"	62" x 96" x 48"	62" x 96" x 48"	

Insulation: One inch, high density, FSK faced, fiberglass

Options: Double wall construction

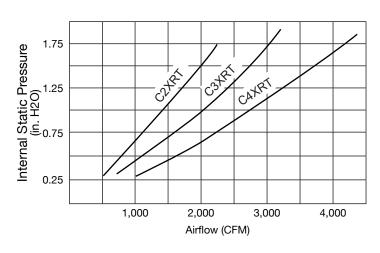
G5 Core Performance





*At AHRI 1060 standard conditions (Contact Factory for certified data for core components.)

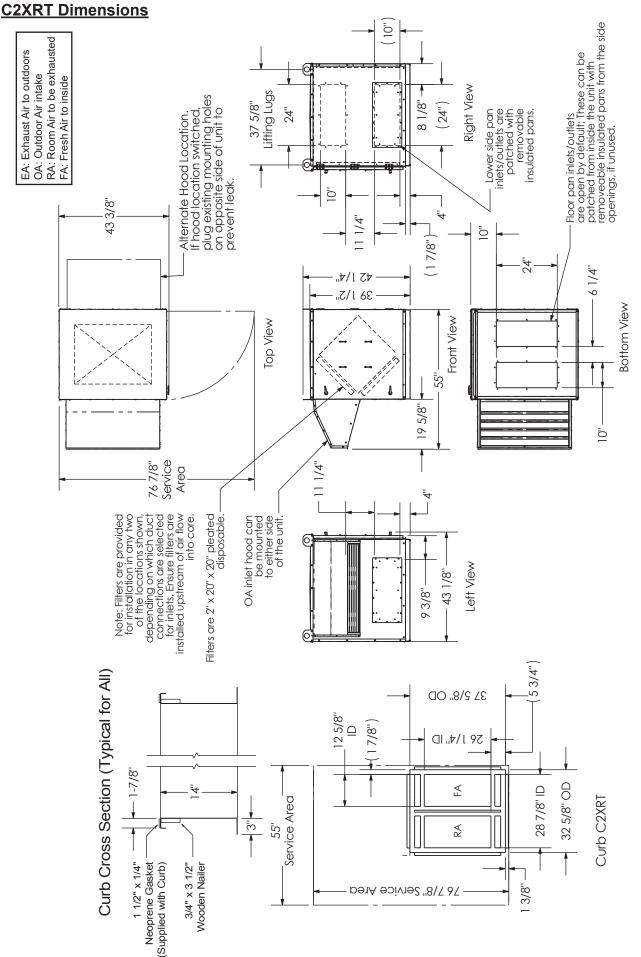
Airflow Performance



ALRI CERTIFIED...



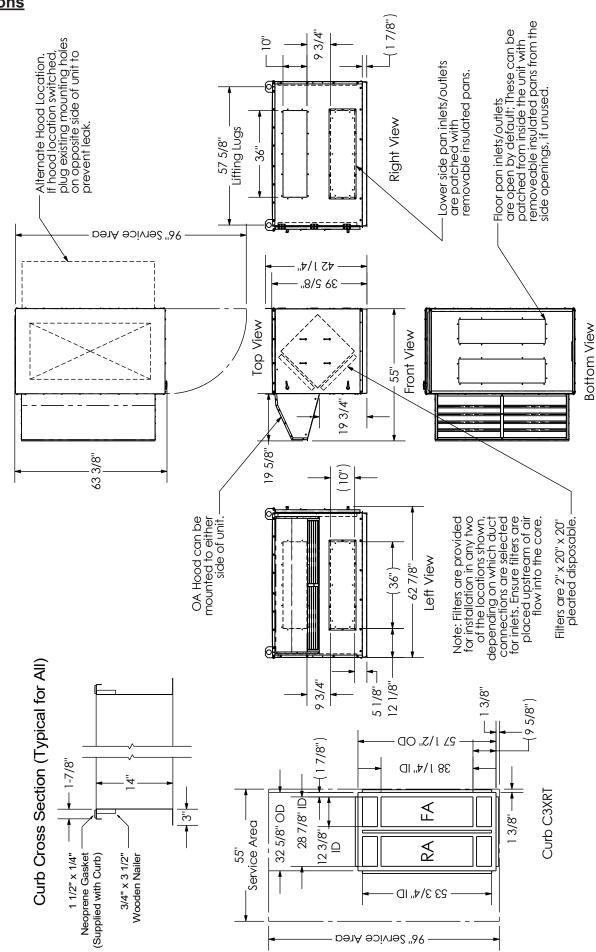






C3XRT Dimensions





C4XRT Dimensions

EA: Exhaust Air to outdoors OA: Outdoor Air intake RA: Room Air to be exhausted FA: Fresh Air to inside

