

TReN200

NEW! INDOOR UNIT



MODELS:
TReN200, TReN200H

Note: There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

ENERGY RECOVERY VENTILATOR EC MOTORIZED IMPELLER



SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 30–230 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol:
Using one L-50-G5 Core

Standard Features:
White painted cabinet
Line-cord power supply or hard wired to junction box (H)
Low-voltage circuit for controls
Unit may be mounted in any orientation
Constant volume airflow setpoints (5 CFM increments)
Manual balance and airflow adjustments
Cross-core differential pressure ports
Variable speed
2 speeds: low and high/boost-mode
Switched terminals for: furnace/AC interconnect or auxiliary NO (x1) or NC (x1) outputs, independent low and high-speed activation, damper controls (x2)
ERV status/fault LEDs:
Filter monitoring, replacement, indication, and reset

Controls:
Onboard digital controller with independent variable speeds
Easy connect terminal strip
Touchscreen Control: **(ERVC+)** accessory is required for unit setup, optional for operation

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

Unit Weight: 36 lbs.

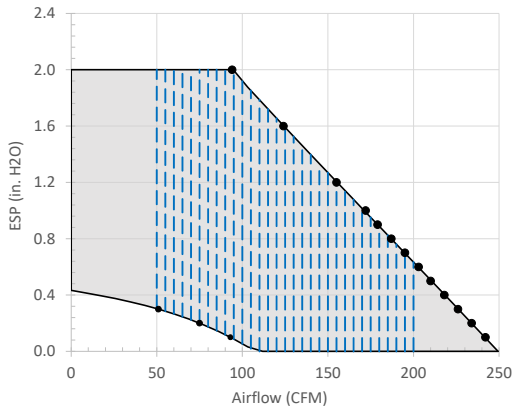
Max. Shipping Dimensions & Weight (in carton):
32" L x 22" W x 18" H
48 lbs.

Units Per Pallet: 8

Motor(s):
Qty. 2, 120V EC motorized impellers

Optional Accessories:
Backdraft damper: 6", 8"
Automatic balancing damper: 4", 5", 6"
Motorized Dampers: 6", 8"
Concentric Vent: 6" (141178: CV6-110)
Louvered wall vent 6": white, brown
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvaneal
Louvered wall vent with 8" round duct connection: 12" W x 8" H
Hooded wall vent 8": galvanized, paintable galvaneal
Digital time clock: wall mount (STC7D-W),
Carbon dioxide sensor/control: wall mount (SC02-W)
Motion occupancy sensor/control: ceiling mount (SMC-C), wall mount (SMC-W)
BACnet fan control: wall mount (BACNETFC-W)
MERV 13 filter: OA airstream (shipped loose)
designed for indoor ductwork installation only
Touchscreen Control: **(ERVC+)**, required for unit setup and 2025 CEC Title 24, Part 6 FID compliance and IECC-2024
Countdown timer control (LVCT)
Percentage timer control (LVPT)

EC MOTORIZED IMPELLER OPERATING RANGE AND CORE PERFORMANCE



● = Actual tested sample points

| = Manual operating curves, airflow is held constant as static pressure varies

| = Constant airflow setpoints in 5 CFM increments can be achieved between 50–200 CFM

Factory settings

1. High speed set to max constant airflow setpoint
2. Low speed set to 125 CFM constant airflow setpoint

Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer
Max. Speed				
242	0.10	191	57	47/28
233	0.20	190	58	48/29
227	0.30	189	59	49/31
218	0.40	189	60	50/32
210	0.50	191	61	52/34
203	0.60	192	62	53/35
195	0.70	189	63	54/37
186	0.80	191	64	56/38
180	0.90	189	65	57/40
172	1.00	190	66	58/42
155	1.20	191	68	61/45
124	1.60	190	72	66/51
92	2.00	190	77	71/57
Min. Speed				
93	0.10	38	76	71/57
75	0.20	36	79	74/60
51	0.30	32	82	78/65

Notes:

1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. Refer to RenewAire's Residential HVI Ratings Guide.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
85	120	60	1	1.22	15	15



HVI TESTED/CERTIFIED

PER CSA C439



TReN200/TReN200H, TRe200: Ventilation Performance							
External Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	114	242	115	244	117	248
50	0.2	110	233	112	237	113	239
75	0.3	107	227	108	229	110	233
100	0.4	103	218	104	220	106	225
125	0.5	99	210	101	214	102	216
150	0.6	96	203	97	206	98	208
175	0.7	92	195	93	197	94	199
200	0.8	88	186	89	189	90	191
225	0.9	85	180	86	182	86	182
250	1.0	81	172	82	174	82	174

TReN200/TReN200H, TRe200: Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/s	CFM				
Heating							
0°	32°	24	51	19	81	84	69
0°	32°	48	102	40	73	76	55
0°	32°	71	150	81	68	71	46
0°	32°	96	203	177	62	68	40
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	24	51	20			

SOUND DATA

Actual sound levels in living spaces will vary and be dependent on installation conditions including unit location, duct type, duct size, and duct run length. Sones calculated using HVI 915 method from Lw values.

Testing Method: Testing conducted per the following standards: AHRI 230 and 260, ISO 9614-1 and 9614-2. Testing conducted internally at RenewAire.

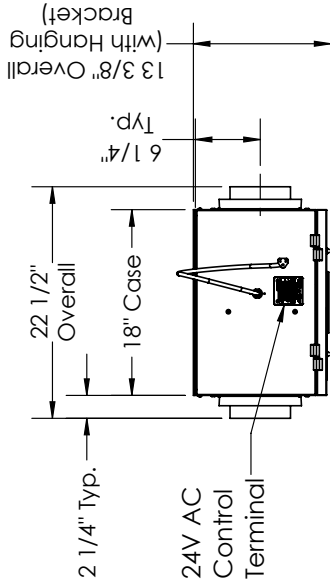
TReN200/TReN200H, TRe200

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	85	63	54	52	44	38	33	20	24	64	47	0.7
	175	61	57	63	54	44	43	36	35	66	56	2.8
	224	65	57	60	58	53	50	44	41	68	59	3.4
Room Inlet (SA)*	91	62	61	58	54	54	55	55	54	67	62	1.3
	181	68	67	65	63	60	60	62	62	73	68	2.8
	232	72	68	67	66	64	63	63	65	76	71	3.8
Room Outlet (RA)*	86	70	66	63	63	63	63	59	57	74	69	2.2
	177	68	66	65	63	63	63	66	66	74	72	4.6
	229	67	64	62	63	63	65	66	69	74	73	5.7
Room Inlet (SA)**	83	53	52	51	48	48	45	45	41	58	53	0.0
	168	54	53	52	51	51	50	50	49	61	57	0.3
	204	58	56	56	54	54	54	53	51	64	60	0.5
Room Outlet (RA)**	81	53	47	49	46	46	41	42	40	56	51	0.0
	156	60	57	57	55	54	52	52	50	64	60	0.5
	195	64	61	60	60	59	57	55	56	69	64	1.7

Notes: *Hard ducted 1m to measurement area.

**Insulated flex duct 5' to measurement area.

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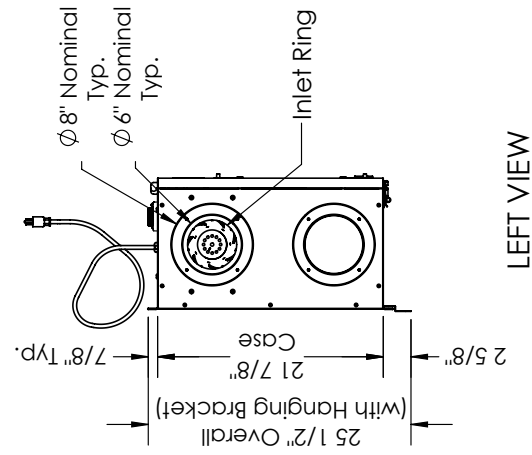


TOP VIEW

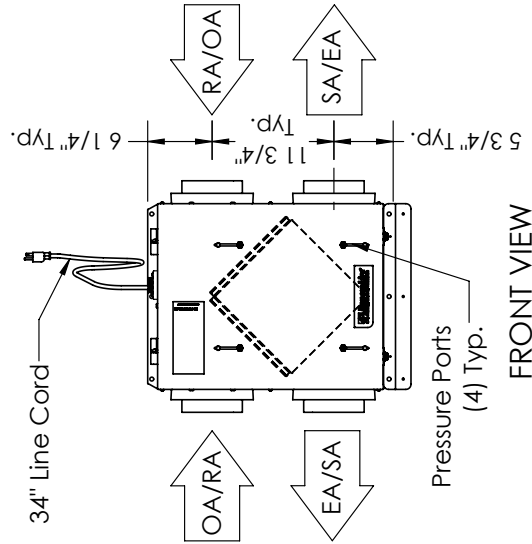
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air Intake
 RA: Room Air to be exhausted
 SA: Supply Air to inside

INSTALLATION ORIENTATION
 Unit may be installed in any orientation.

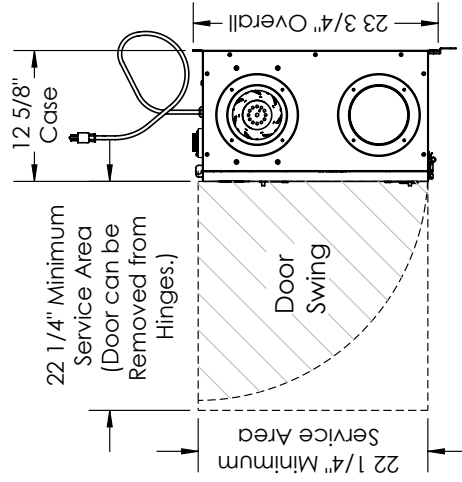
NOTE
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



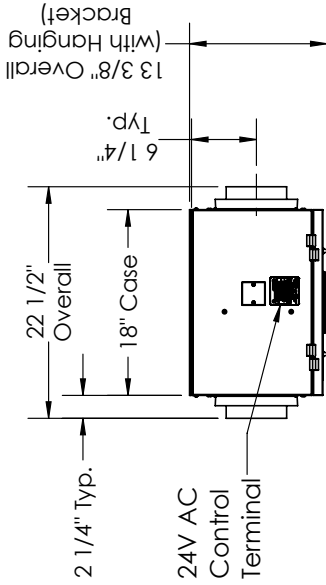
RIGHT VIEW

AIRFLOW ORIENTATION
 Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION
 Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

TREn200H ENERGY RECOVERY VENTILATOR, EC MOTORIZED IMPELLER

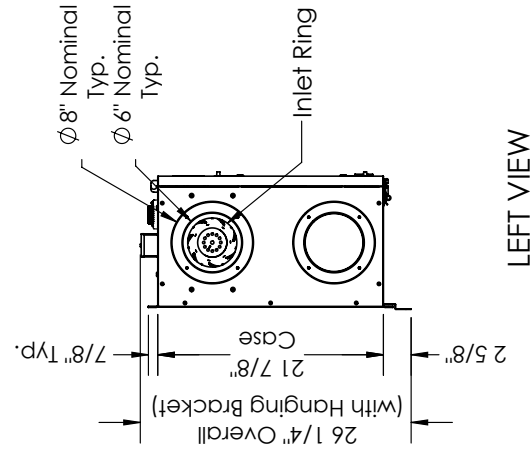


TOP VIEW

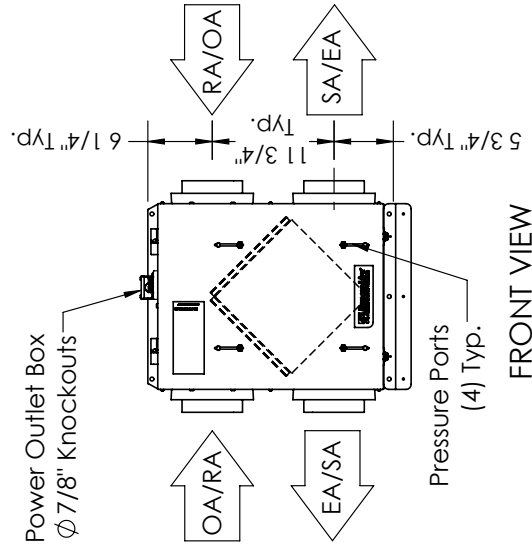
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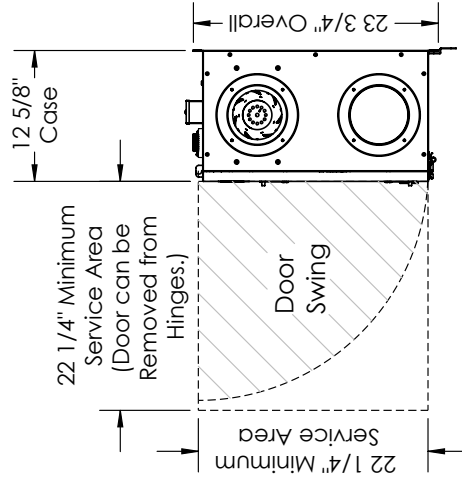
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LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW ORIENTATION
Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION
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