



Energy recovery core is AHRI Certified®



SPECIFICATIONS

Ventilation Type: Static plate, heat and humidity transfer

Airflow Range: 166–694 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:

Non-fused disconnect
24VAC transformer/relay package
Cross-core differential pressure ports
Independent blower control

Filters: Total Qty. 2, MERV 8: 14" x 20" x 2"

Unit Weight: 218–370 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
93" L x 47" W x 82 1/4" H; 457 lbs.

Motor(s):

Qty. 2, 170W ea., Direct drive EC motorized
impeller packages (208–230V/1Ph/60Hz)

Options:

Qty. 2, Direct drive EC motorized impeller packages:
357W 208–230V/1Ph/60Hz (Intermediate),
330W 208–230V/1Ph/60Hz (Advanced),
357W 120V/1Ph/60Hz (Advanced)

Fused disconnect

Integrated programmable controls: enhanced, premium

Electric preheat (1–17 kW): corrosion resistant (option)

Bypass economizer damper (see DIM drawing):

dry-bulb temperature controls (standard), enthalpy
controls (option)

Class 1 low leakage motorized isolation dampers:

FA, EA or both airstreams

Factory mounted filter alarms: both airstreams

Double wall construction

Exterior paint: white, custom colors

Accessories:

Filters: MERV 13, 2" (shipped loose)

Backdraft damper: 10", 12"

Automatic balancing damper: 4", 5", 6"

Potentiometer speed control: remote installed

Roof curb: standard 14"

Curb wind clip

Engineered combo curb for Trane or Carrier RTUs

Digital time clock: wall mount (TC7D-W),

in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control:

wall mount (CO2-W), duct mount (CO2-D)

IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control:

ceiling mount (MC-C), wall mount (MC-W)

Smoke detector: duct mount (SD-D)

BACnet fan control: wall mount (BACNETFC-W)

Indoor electric duct heater: RH series (1–11.5 kW),

EK series (1–175 kW)

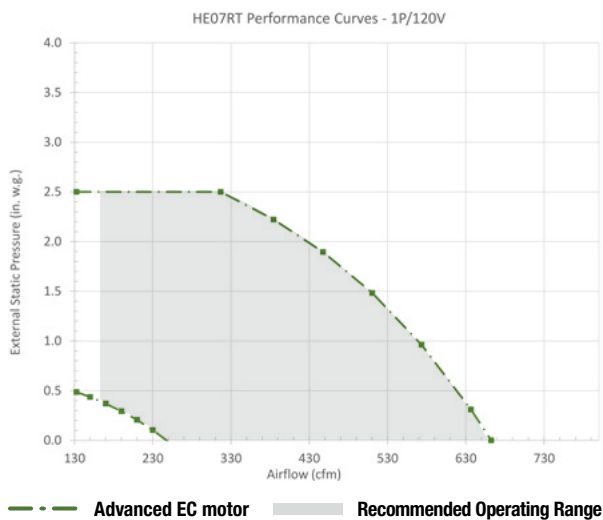
Indirect gas-fired duct furnace: GH series (50–400 MBH);

Installed downstream of any fans

HE+DX coils integrated system

Duct flange kit: square 12" x 12", 2 flanges

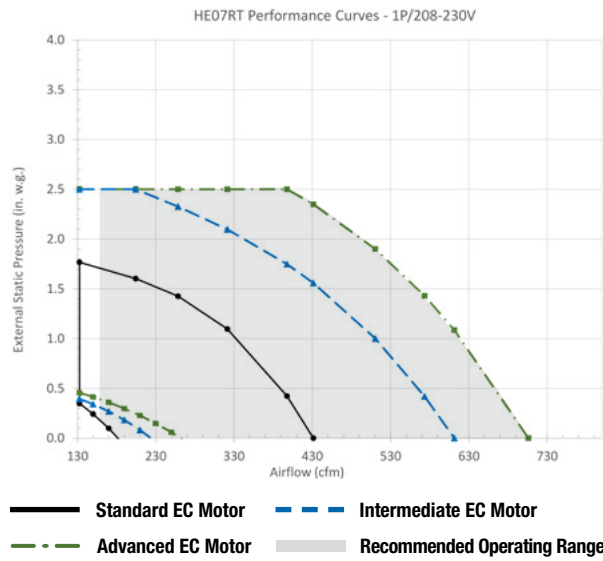
EC MOTOR OPERATING RANGE AND FAN PERFORMANCE



HE07RT MOTOR 1P/120V Options		
Airflow (CFM)	Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
133	2.50	485
317	2.50	658
385	2.22	717
448	1.90	767
511	1.48	808
573	0.96	840
636	0.31	860
662	0.00	865

Note: Airflow performance includes effect of clean, standard filter supplied with unit.

EC MOTOR OPERATING RANGE AND FAN PERFORMANCE



HE07RT MOTOR 1P/208-230V Options						
Airflow (CFM)	Standard EC		Intermediate EC		Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
133	1.77	265	2.50	356	2.50	354
204	1.60	310	2.50	465	2.50	444
259	1.43	342	2.33	514	2.50	516
322	1.10	371	2.10	568	2.50	609
398	0.42	388	1.75	626	2.50	743
431	0.00	387	1.56	647	2.35	772
511			1.00	683	1.90	823
573			0.42	694	1.43	844
611			0.00	691	1.09	846
706					0.00	811

Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Option	Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
[EE] Standard	170	208-230	60	Single	1.16	2.6	15
[BB] Intermediate	357	208-230	60	Single	2.76	6.2	15
[AA] Advanced	330	208-230	60	Single	1.55	3.5	15
	357	120	60	Single	5.4	12.2	15

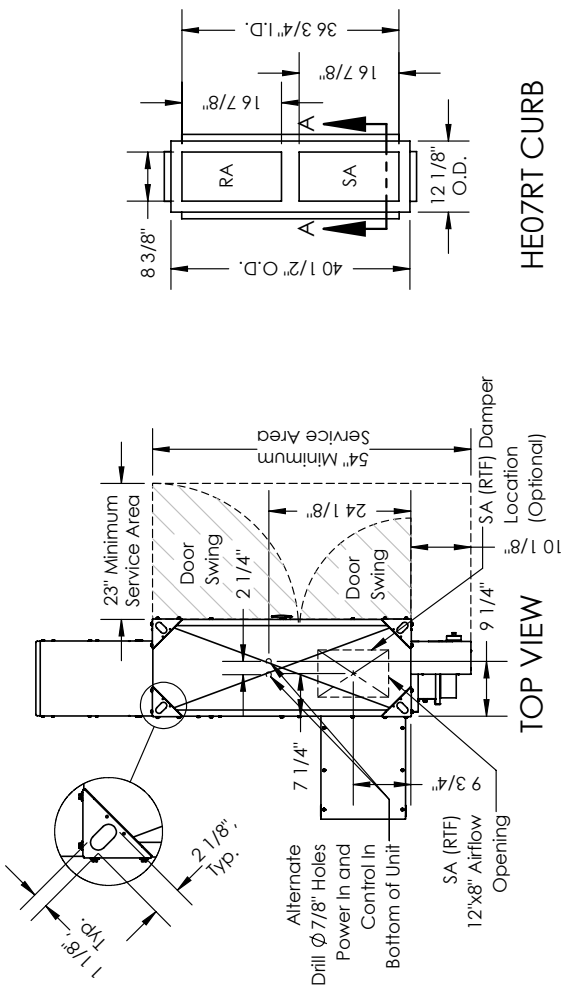
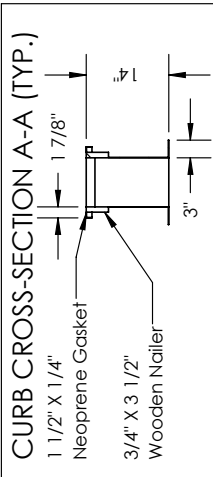
Note: See Cores.RenewAire.com for electrical ratings with the preheat option.

HE07RT (RTH/RTF) ENERGY RECOVERY VENTILATOR

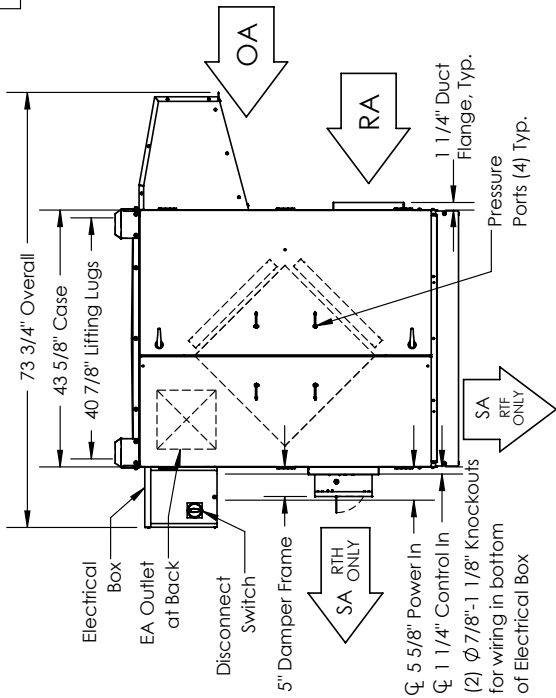
ABBREVIATIONS
 EA: Exhaust Air to Outside
 OA: Outside Air Intake
 RA: Room Air to be Exhausted
 SA: Supply Air to Inside
 RTF: Rooftop Vertical SA Only
 RTH: Rooftop Horizontal RA & SA

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

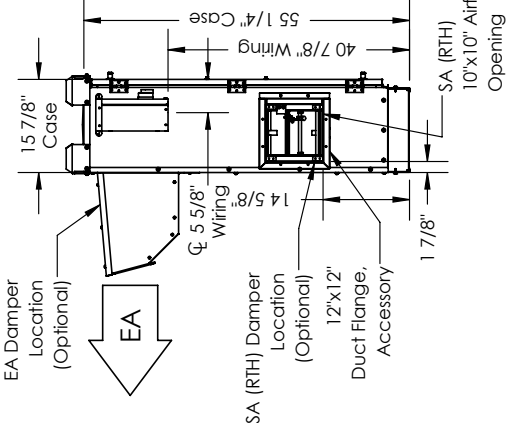
NOTE
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 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



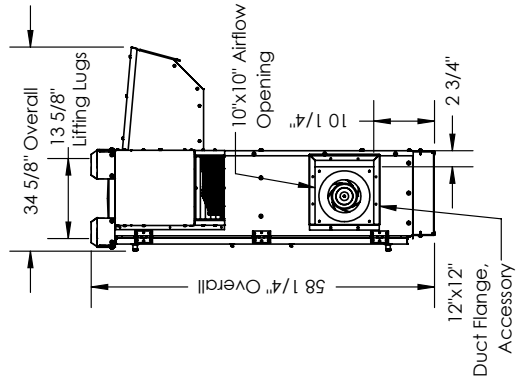
HE07RT CURB



FRONT VIEW



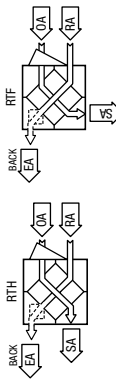
LEFT VIEW



RIGHT VIEW

AIRFLOW ORIENTATION

Available as shown:

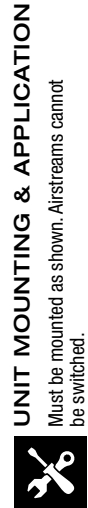
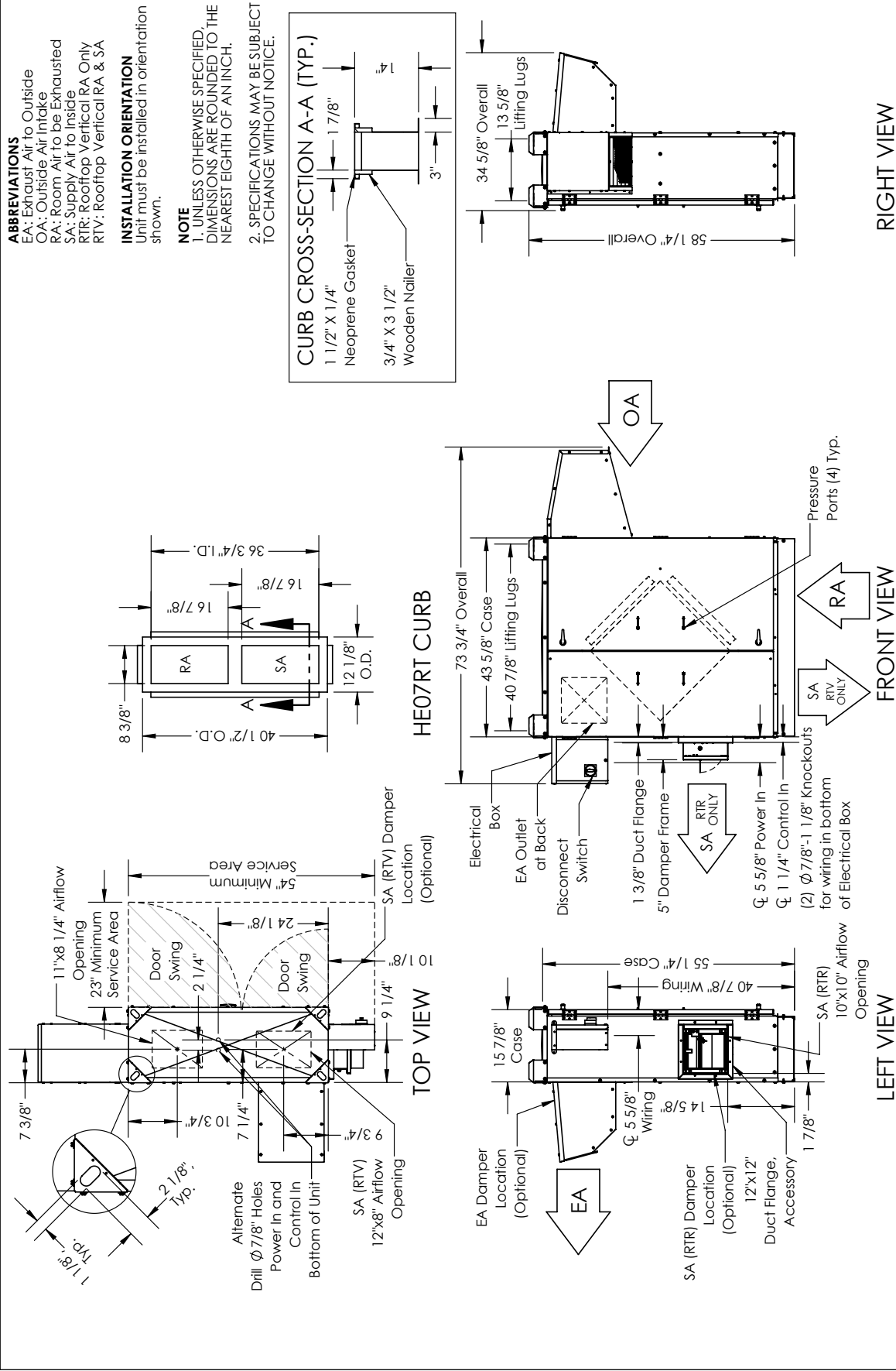


UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.

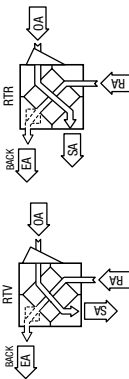


HE07RT (RTV/RTR) ENERGY RECOVERY VENTILATOR

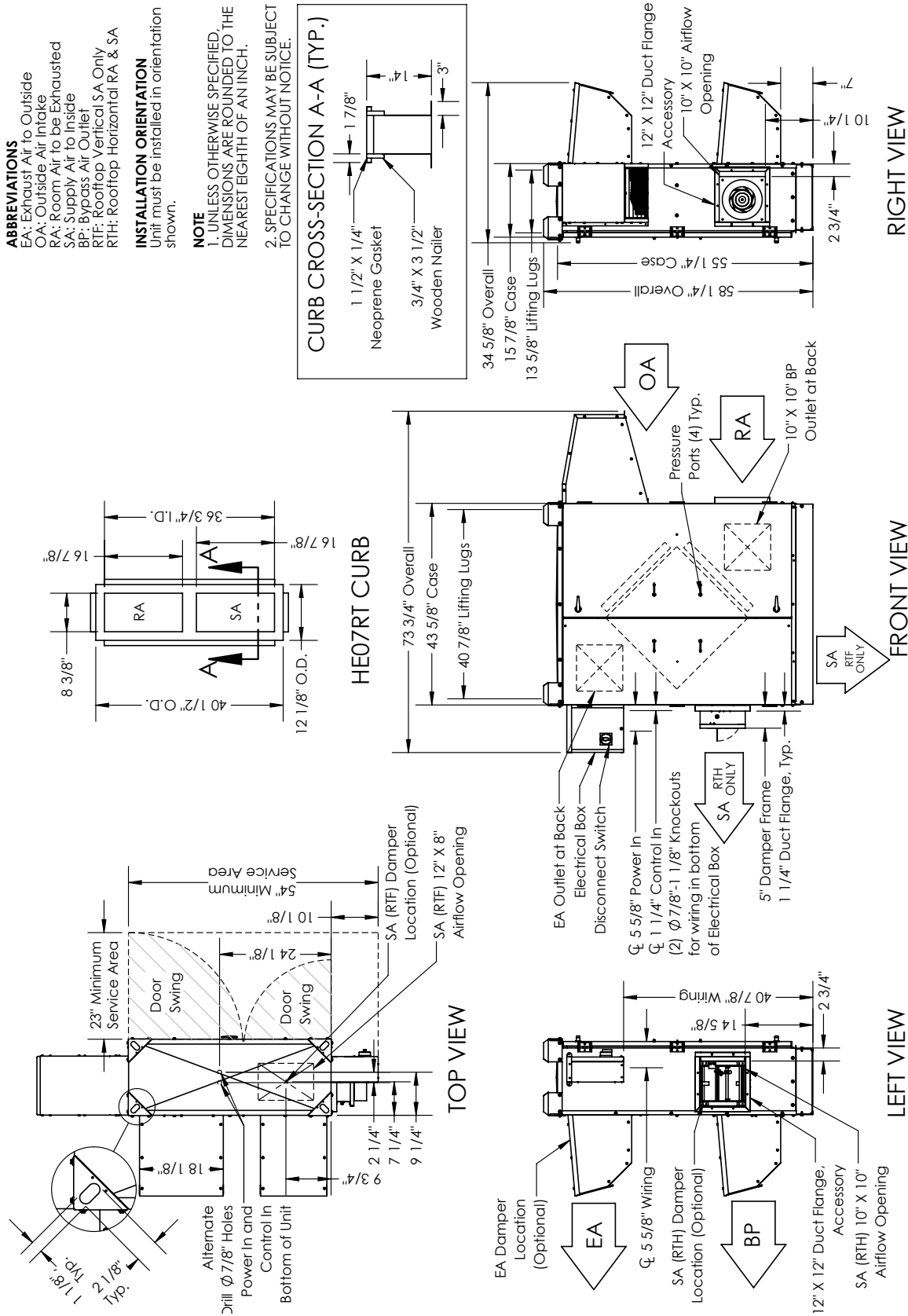


UNIT MOUNTING & APPLICATION
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AIRFLOW ORIENTATION
 Available as shown:

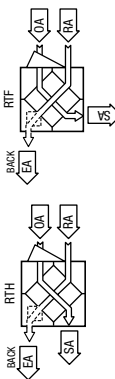


HE07RT (RTH/RTF) ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.

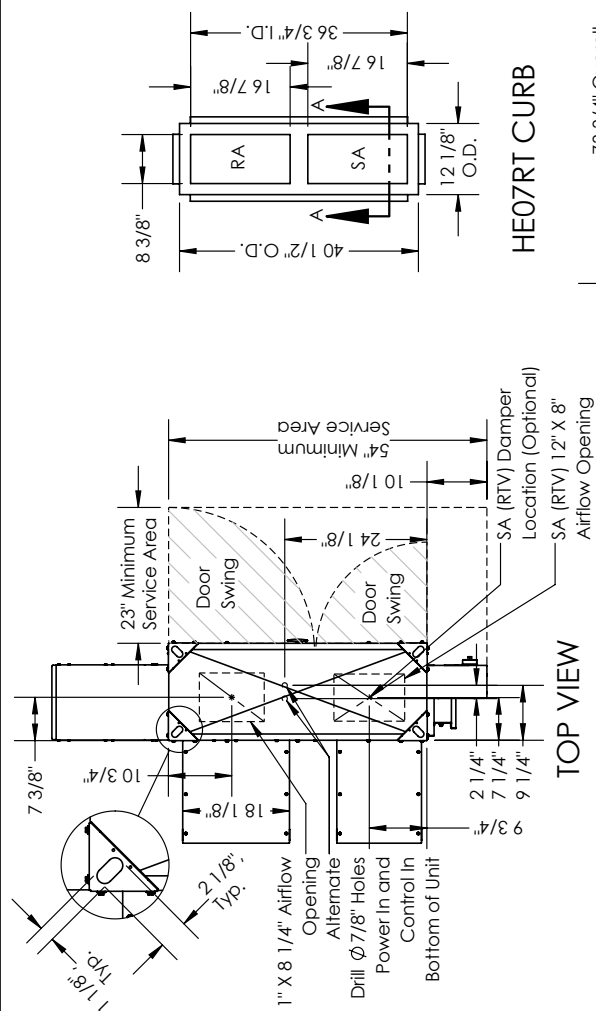


AIRFLOW ORIENTATION

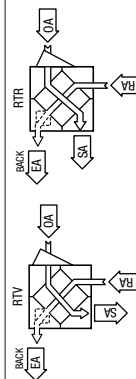
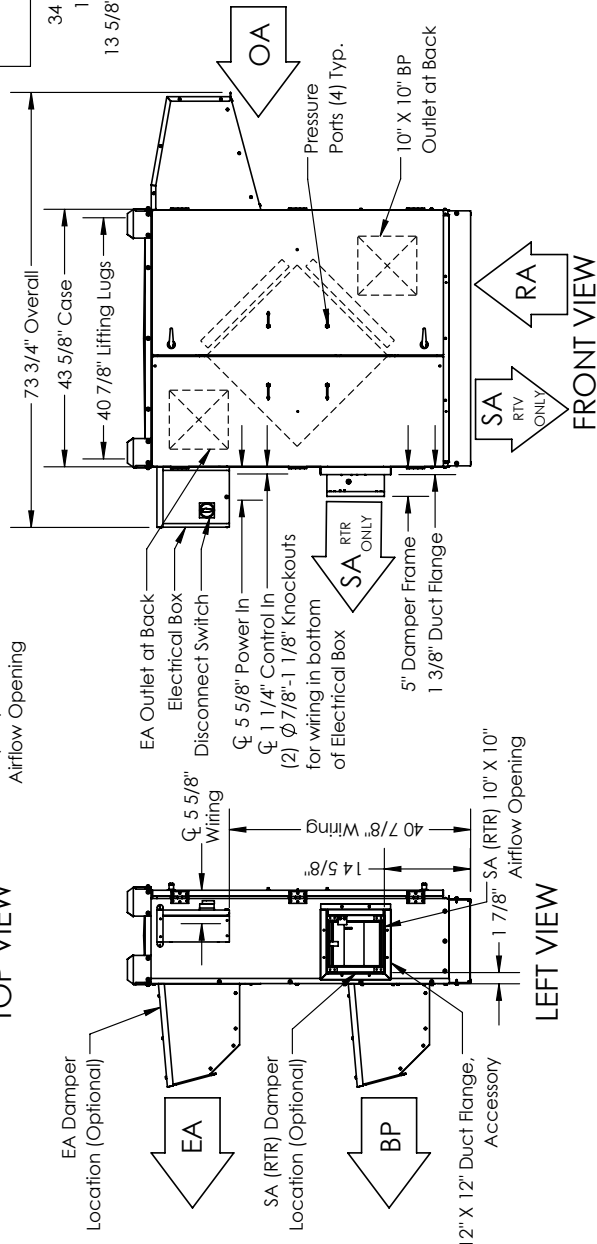
Available as shown:



HEO7RT (RTV/RTR) ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER



HEO7RT CURB



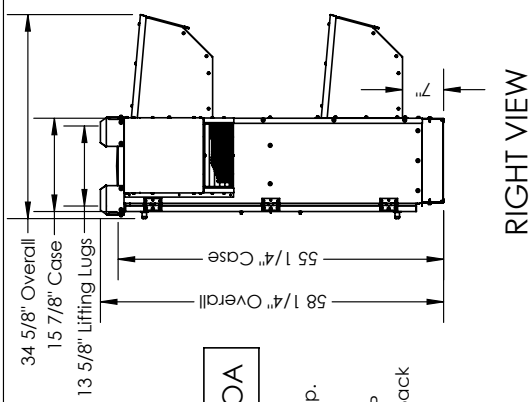
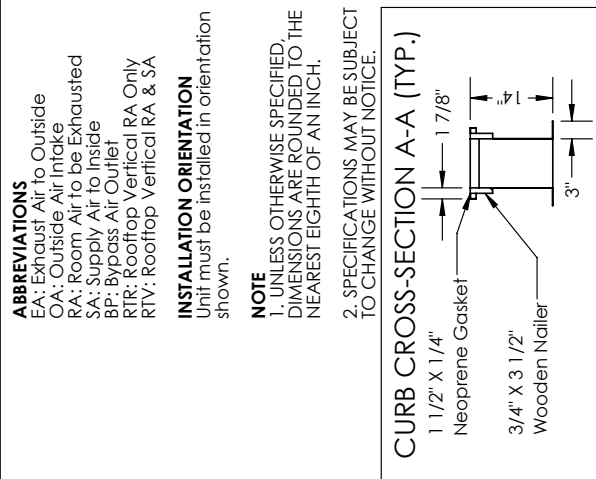
AIRFLOW ORIENTATION

Available as shown:

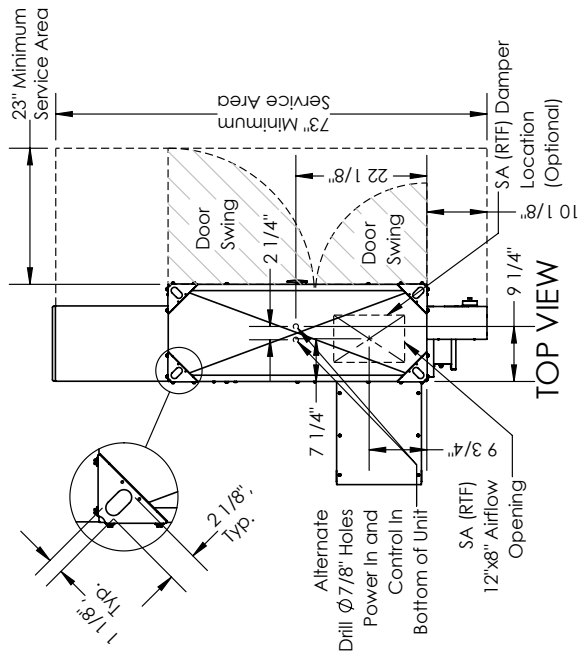


UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.



HE07RT (RTH/RTF) ENERGY RECOVERY VENTILATOR WITH ELECTRIC PREHEAT



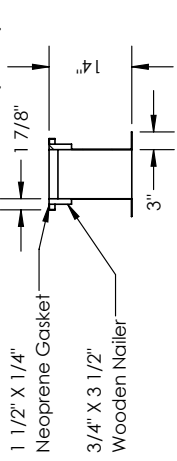
Abbreviations
 EA: Exhaust Air to outside
 OA: Outside Air Intake
 RA: Room Air to be exhausted
 SA: Supply Air to inside

INSTALLATION ORIENTATION
 Unit may be installed in any orientation.

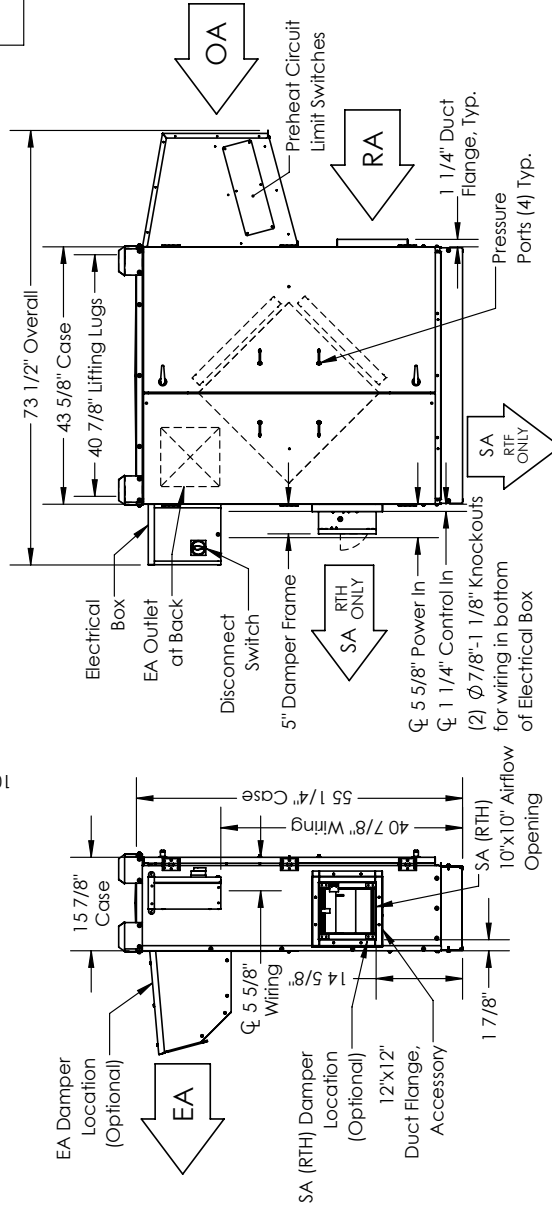
NOTE

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CURB CROSS-SECTION A-A (TYP.)



HE07RT CURB



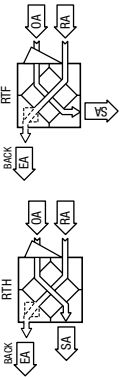
LEFT VIEW

FRONT VIEW

RIGHT VIEW

AIRFLOW ORIENTATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.



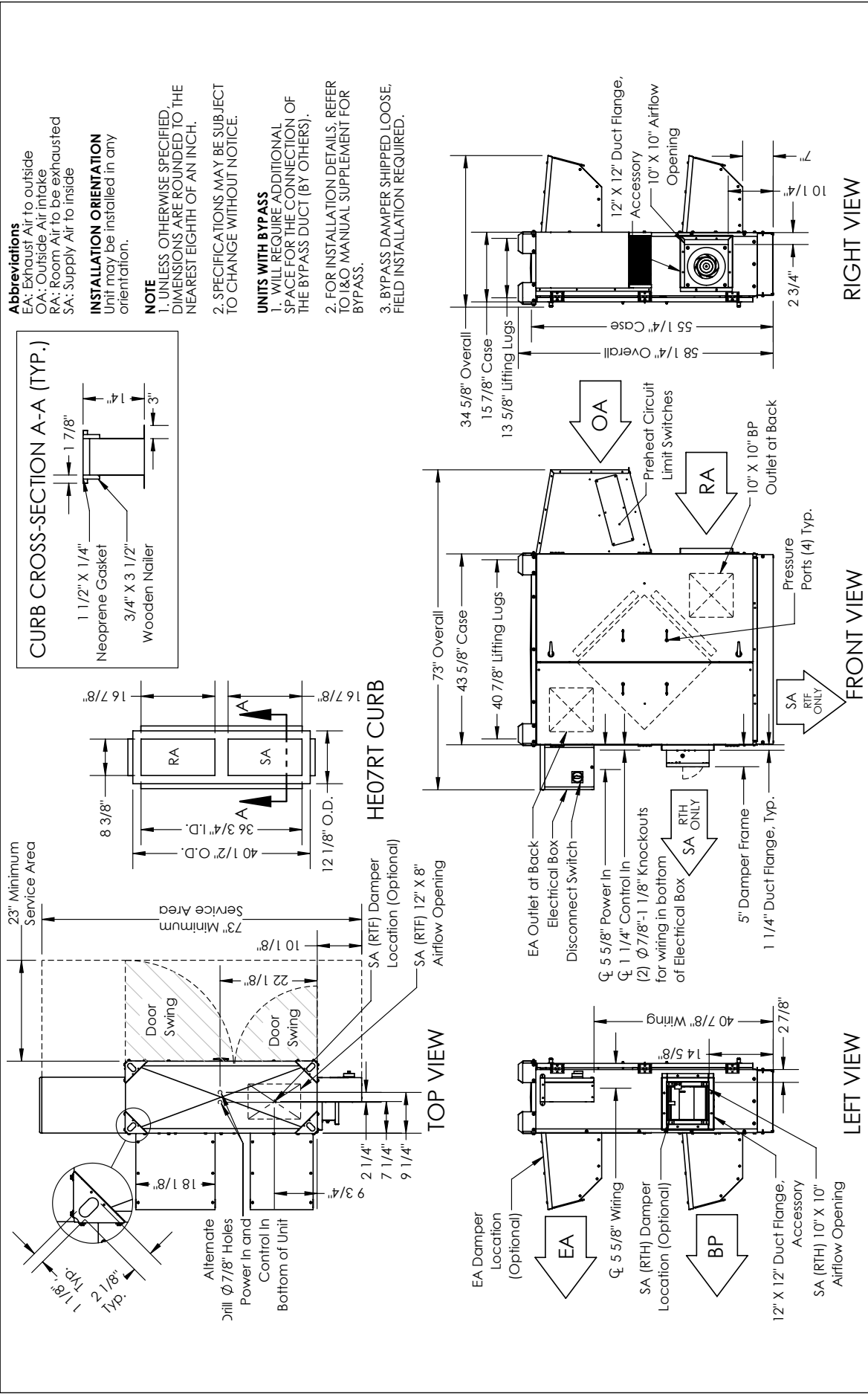
TOP VIEW

Dimensions and Labels:

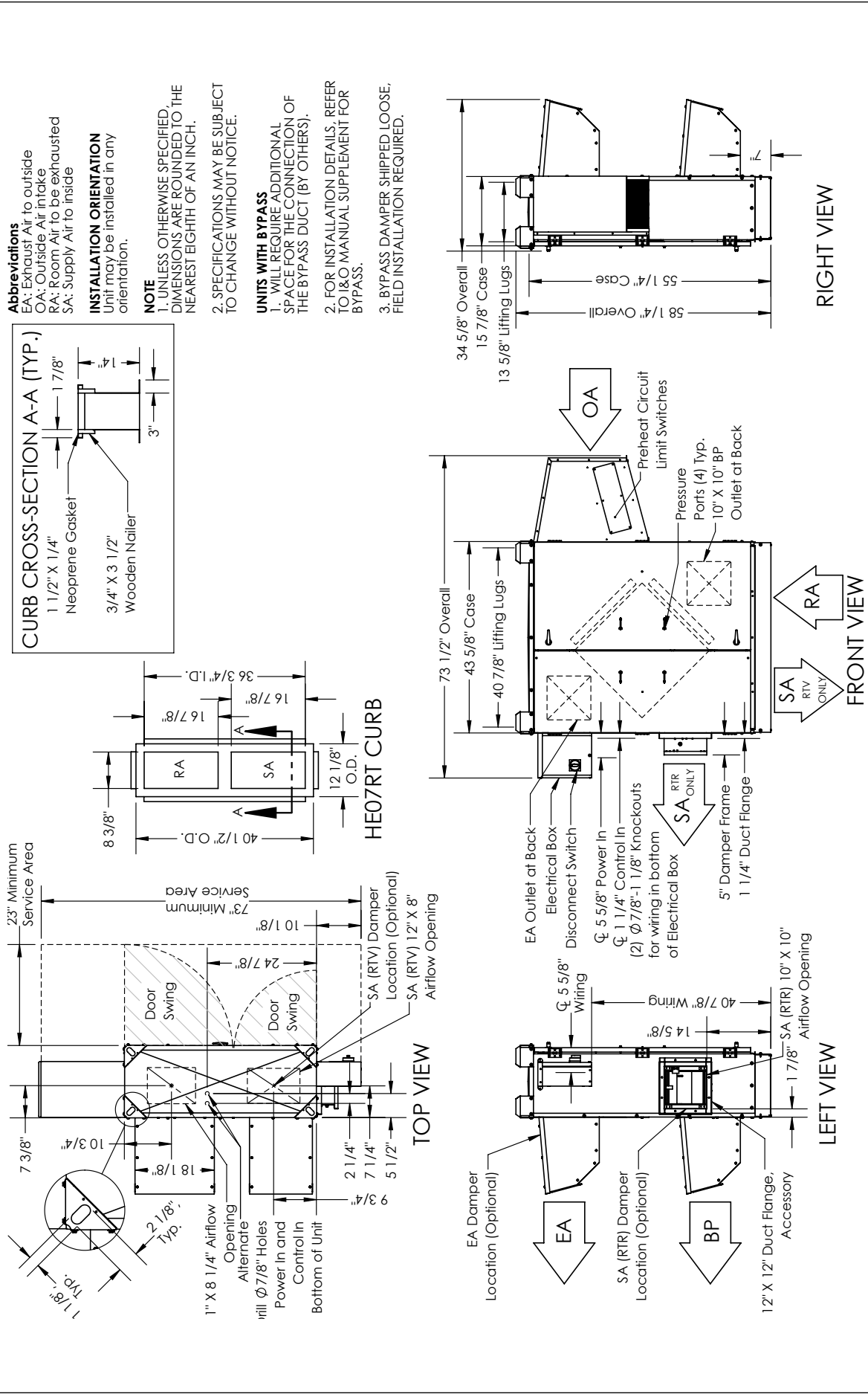
- 7 3/8"
- 11"x8 1/4" Airflow Opening
- Door Swing
- 24 7/8"
- 73" Minimum Service Area
- 23" Minimum Service Area
- SA (RTV) Damper Location (Optional)
- 10 1/8"
- 5 1/2"
- 9 3/4"
- Bottom of Unit
- Control In and Power Out
- Alternate Drill Ø 7/8" Holes
- 2 1/8" Typ.
- 10 3/4"
- 7 1/4"
- 1 7/8" Typ.
- 12"x8" Airflow Opening
- SA (RTV)



HE07RT (RTH/RTF) ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER & ELECTRIC PREHEAT



HE07RT (RTV/RTR) ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER & ELECTRIC PREHEAT



AIRFLOW ORIENTATION
 Available as shown:

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams cannot be switched.