



Energy recovery core is AHRI Certified®



SPECIFICATIONS

Ventilation Type: Static plate, heat and humidity transfer

Airflow Range: 500–2,200 CFM

AHRI 1060 Certified Core: Two L125-G5

Standard Features:

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

Filters: Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Weight: 468–731 lbs.

Max. Shipping Dimensions & Weight (on pallet):
90" L x 72" W x 90 3/4" H
882 lbs.

Motor(s):

Qty. 2, 770W ea., Direct drive EC motorized impeller packages (208-230V/1Ph/60HZ)

Options:

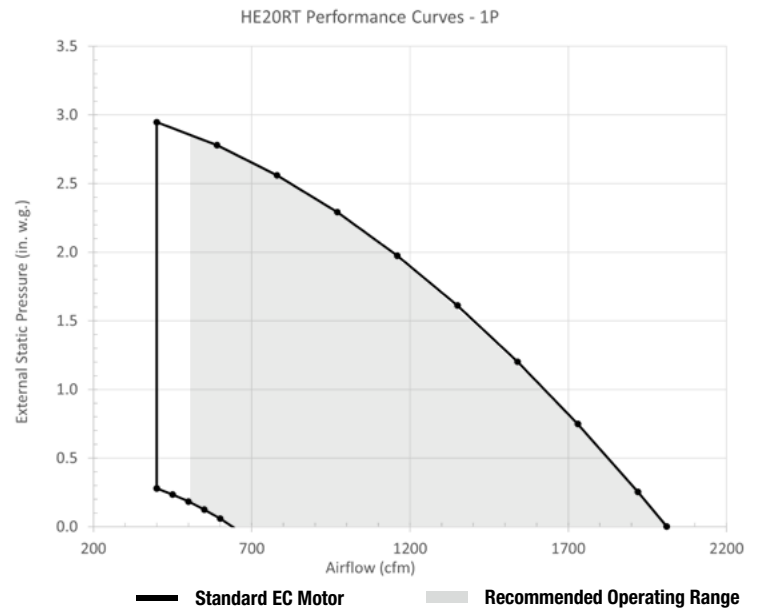
Qty. 2, Direct drive EC motorized impeller packages
2150W 208-230V/3Ph/60HZ (Advanced),
2100W 460V/3Ph/60HZ (Advanced)
Fused disconnect
Integrated programmable controls: enhanced, premium
Electric preheat (1-17 kW): corrosion resistant (option)
Bypass economizer (see bypass DIM drawing):
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers:
SA, 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)
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: EK series (1–175 kW)
Indirect gas-fired duct furnace: GH series (50–400 MBH);
installed downstream of any fans
Duct flange kit: square 16" x 22", 2 flanges

1-PHASE EC MOTOR OPERATING RANGE AND FAN PERFORMANCE

Airflow (CFM)	Standard EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
HE20RT MOTOR 1P/208-230V Option		
400	2.95	999
590	2.78	1100
780	2.56	1197
970	2.29	1284
1160	1.97	1355
1350	1.61	1402
1540	1.20	1418
1730	0.75	1398
1920	0.25	1335
2011	0.00	1287





HE 20RT

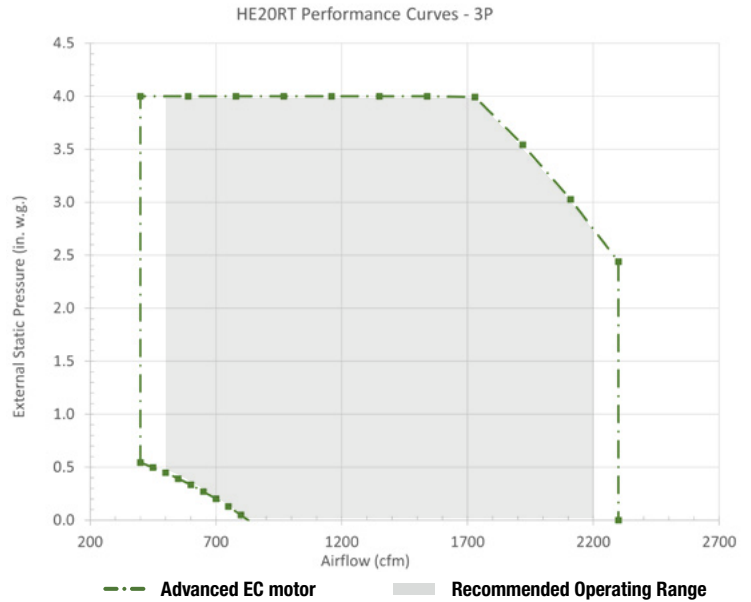
ENERGY RECOVERY VENTILATOR EC MOTOR



3-PHASE EC MOTOR OPERATING RANGE AND FAN PERFORMANCE

Airflow (CFM)	Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
HE20RT MOTOR 3P/208-230V Option		
400	4.00	1610
590	4.00	1855
780	4.00	2127
970	4.00	2426
1160	4.00	2748
1350	4.00	3095
1540	4.00	3469
1730	3.99	3869
1920	3.54	3936
2110	3.03	3982
2300	2.44	4003
HE20RT MOTOR 3P/460V Option		
400	4.00	1533
590	4.00	1766
780	4.00	2026
970	4.00	2310
1160	4.00	2617
1350	4.00	2948
1540	4.00	3304
1730	3.99	3684
1920	3.54	3749
2110	3.03	3792
2300	2.44	3812

Note: Watts is for the entire unit. Airflow performance include effect of clean, standard filter supplied with unit.

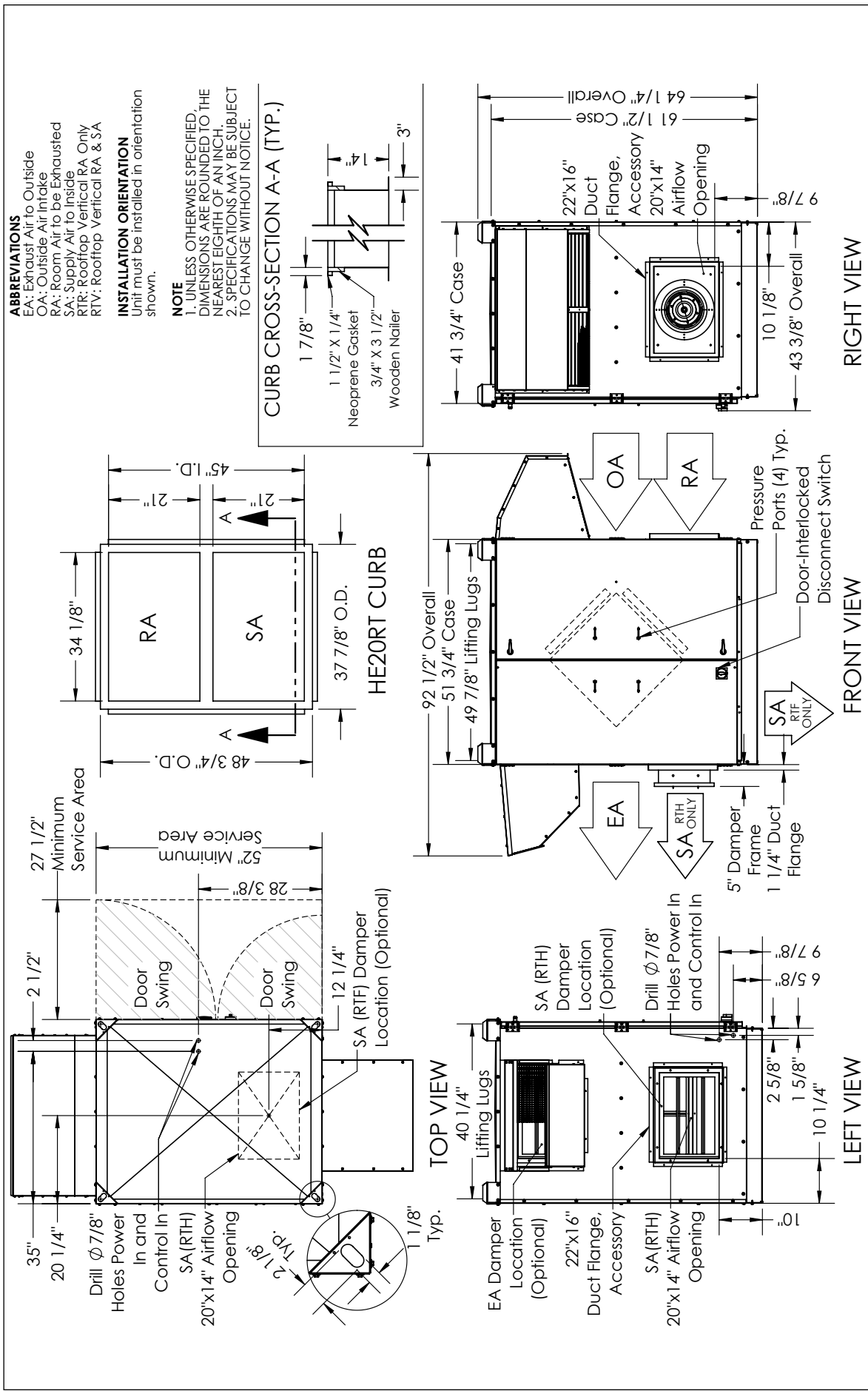


ELECTRICAL DATA

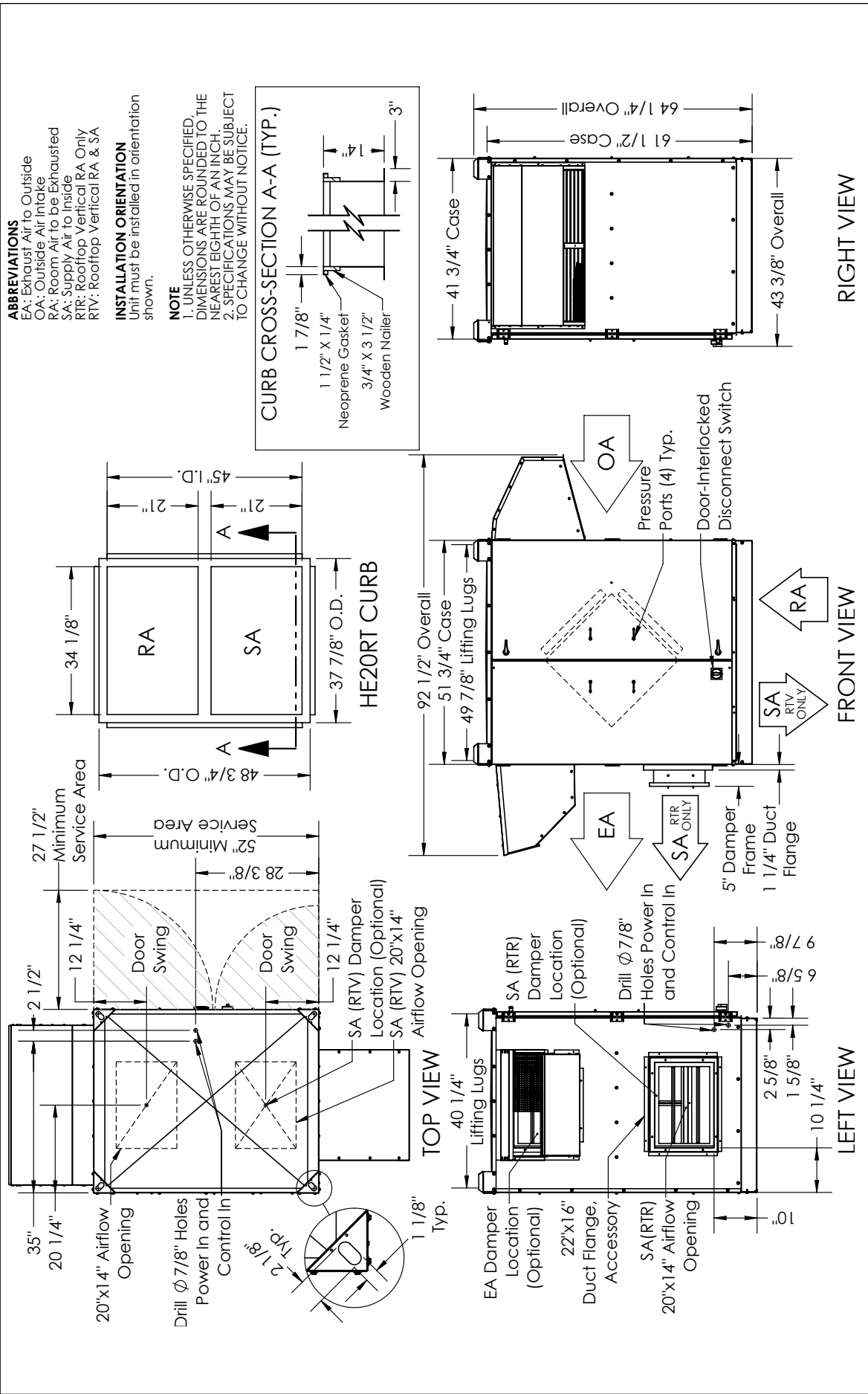
Option	Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
[EE] Standard	770	208-230	60	Single	3.4	7.7	15
[AA] Advanced	2150	208-230	60	Three	5.7	12.8	15
	2100	460	60	Three	2.9	6.5	15

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

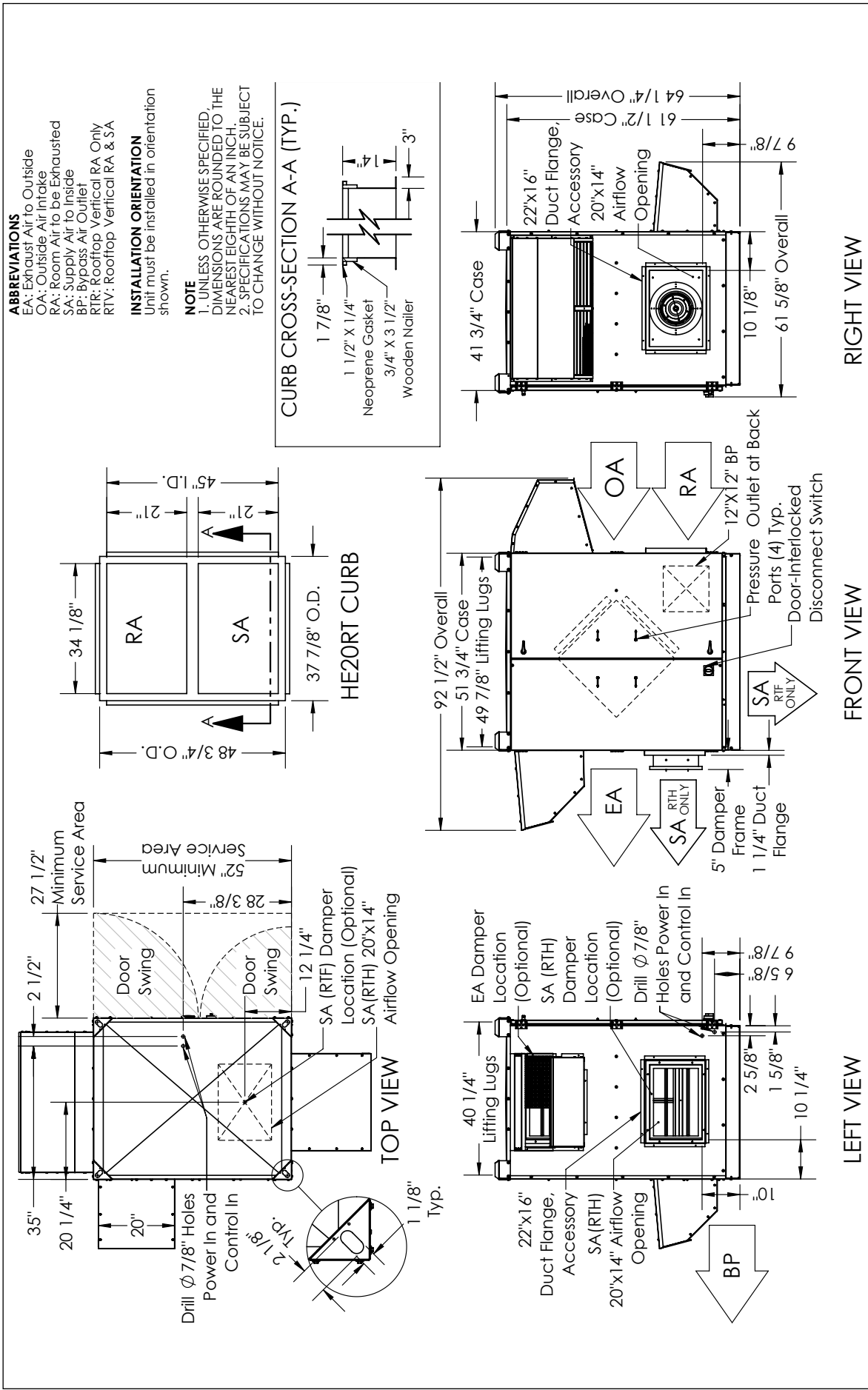
HE20RTH/RTF ENERGY RECOVERY VENTILATOR



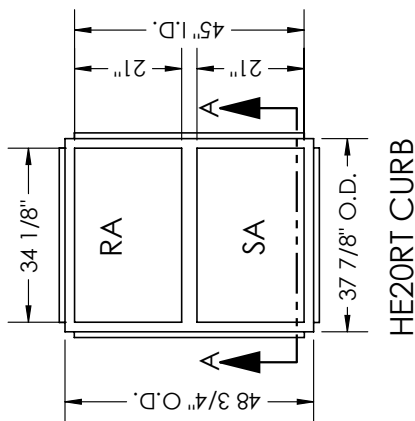
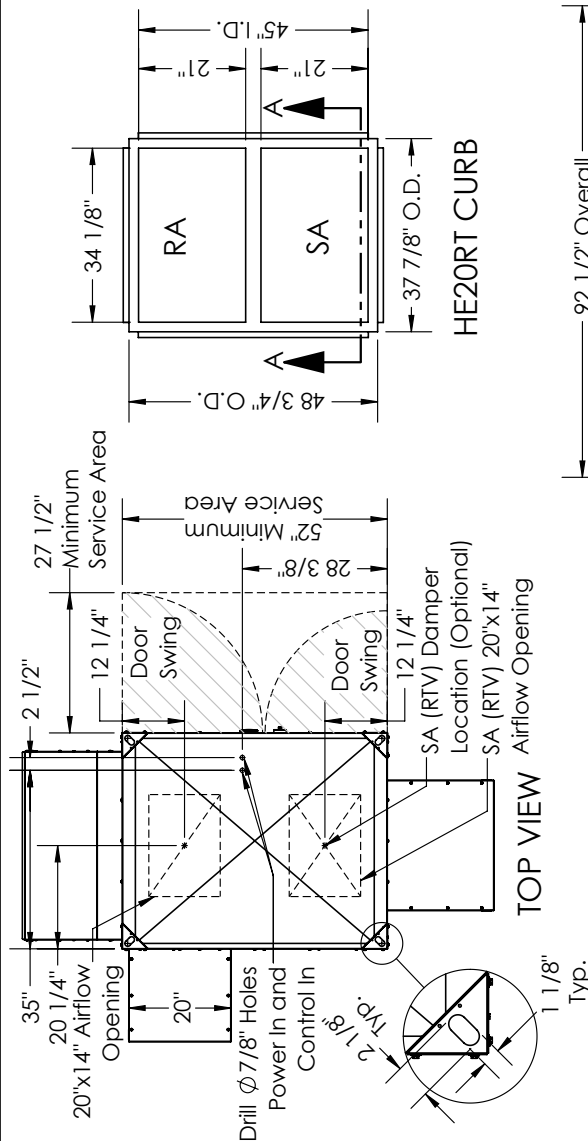
HE20RTR/RTR ENERGY RECOVERY VENTILATOR



HE20RTH/RTF ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER



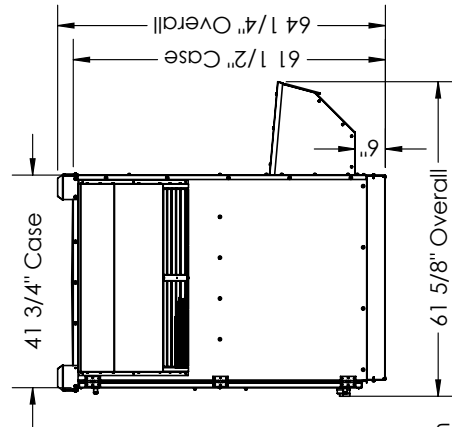
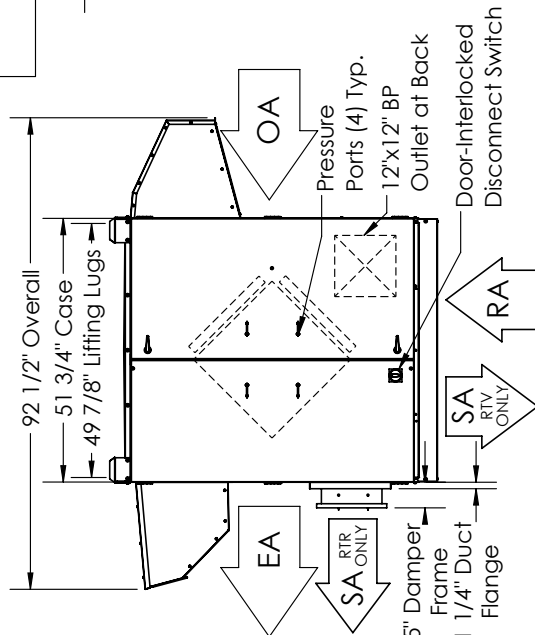
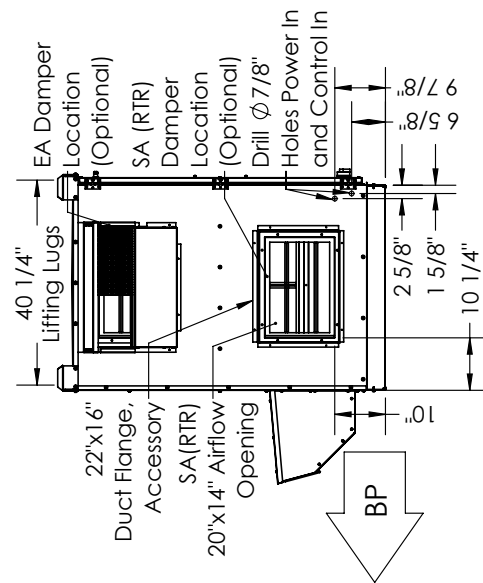
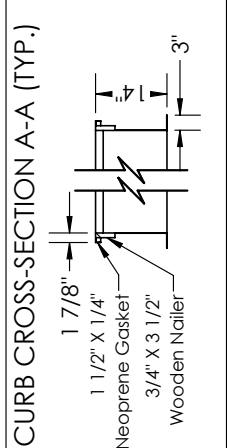
HE20RTR/RTR ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER



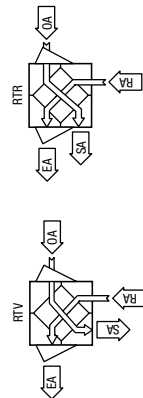
ABBREVIATIONS
 EA: Exhaust Air to Outside
 OA: Outside Air Intake
 RA: Room Air to be Exhausted
 SA: Supply Air to Inside
 BP: Bypass Air Outlet
 RTR: Rooftop Vertical RA Only
 RTV: Rooftop Vertical RA & SA

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

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



AIRFLOW ORIENTATION
 Available as shown:



FRONT VIEW

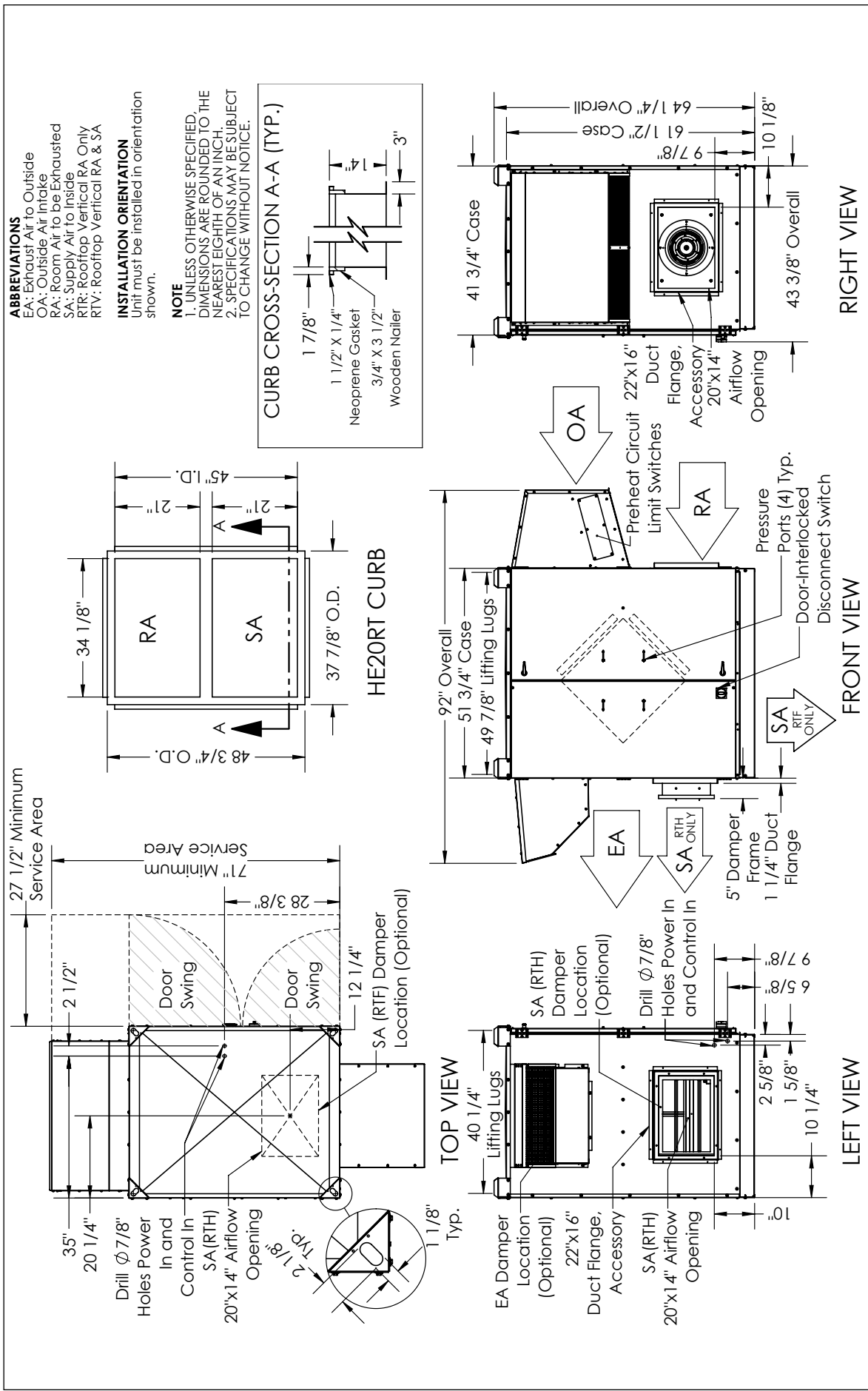
RIGHT VIEW



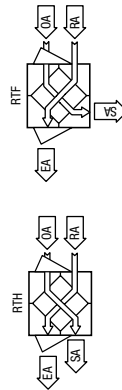
UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams cannot be switched. Duct configuration is not field convertible.



HE20RTH/RTF ENERGY RECOVERY VENTILATOR WITH ELECTRIC PREHEAT



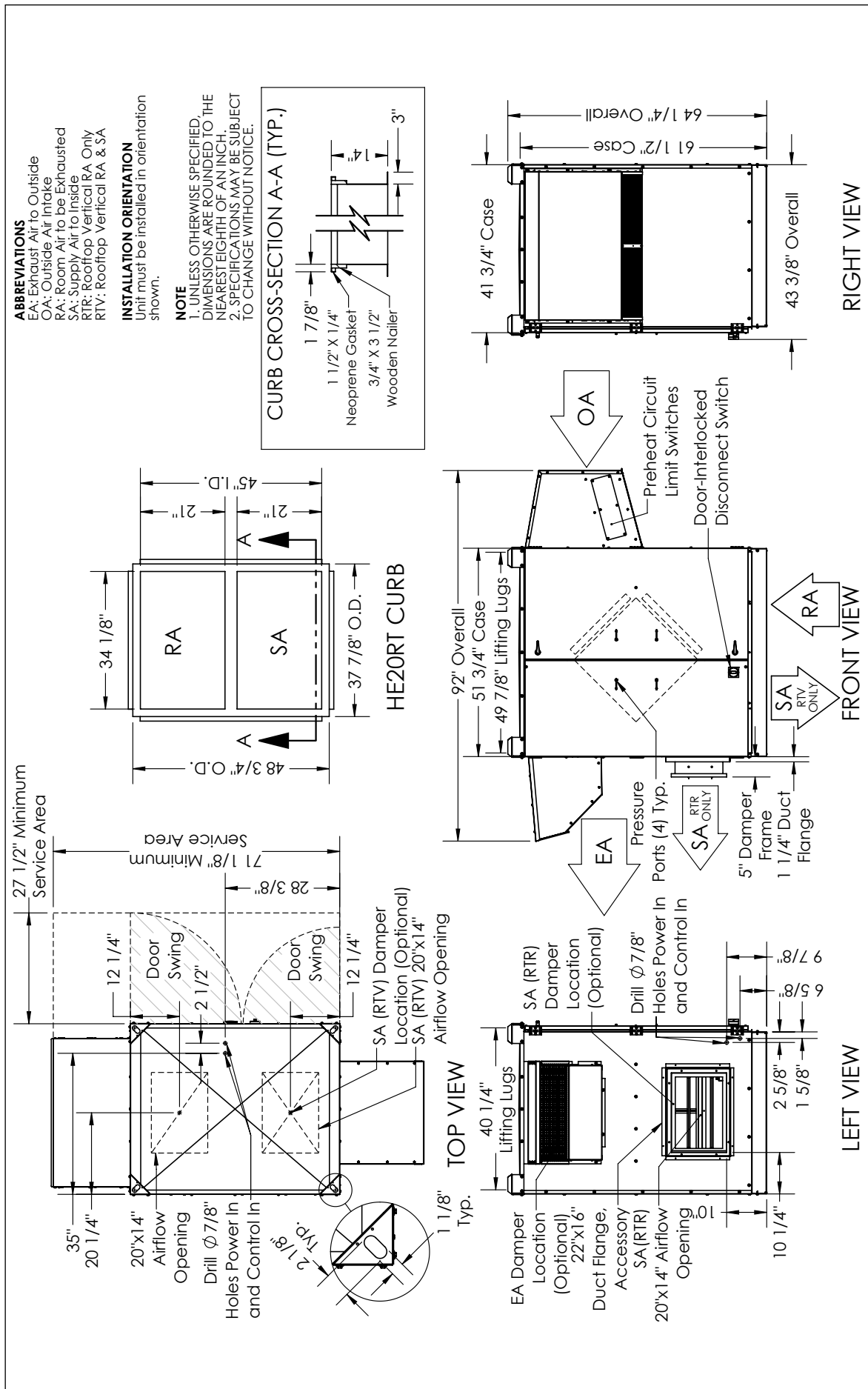
AIRFLOW ORIENTATION
 Available as shown:



UNIT MOUNTING & APPLICATION

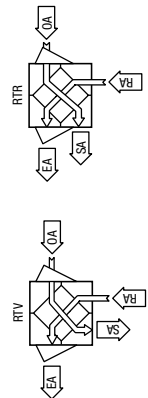
Must be mounted as shown. Airstreams cannot be switched. Duct configuration is not field convertible.

HE20RTR/RTR ENERGY RECOVERY VENTILATOR WITH ELECTRIC PREHEAT



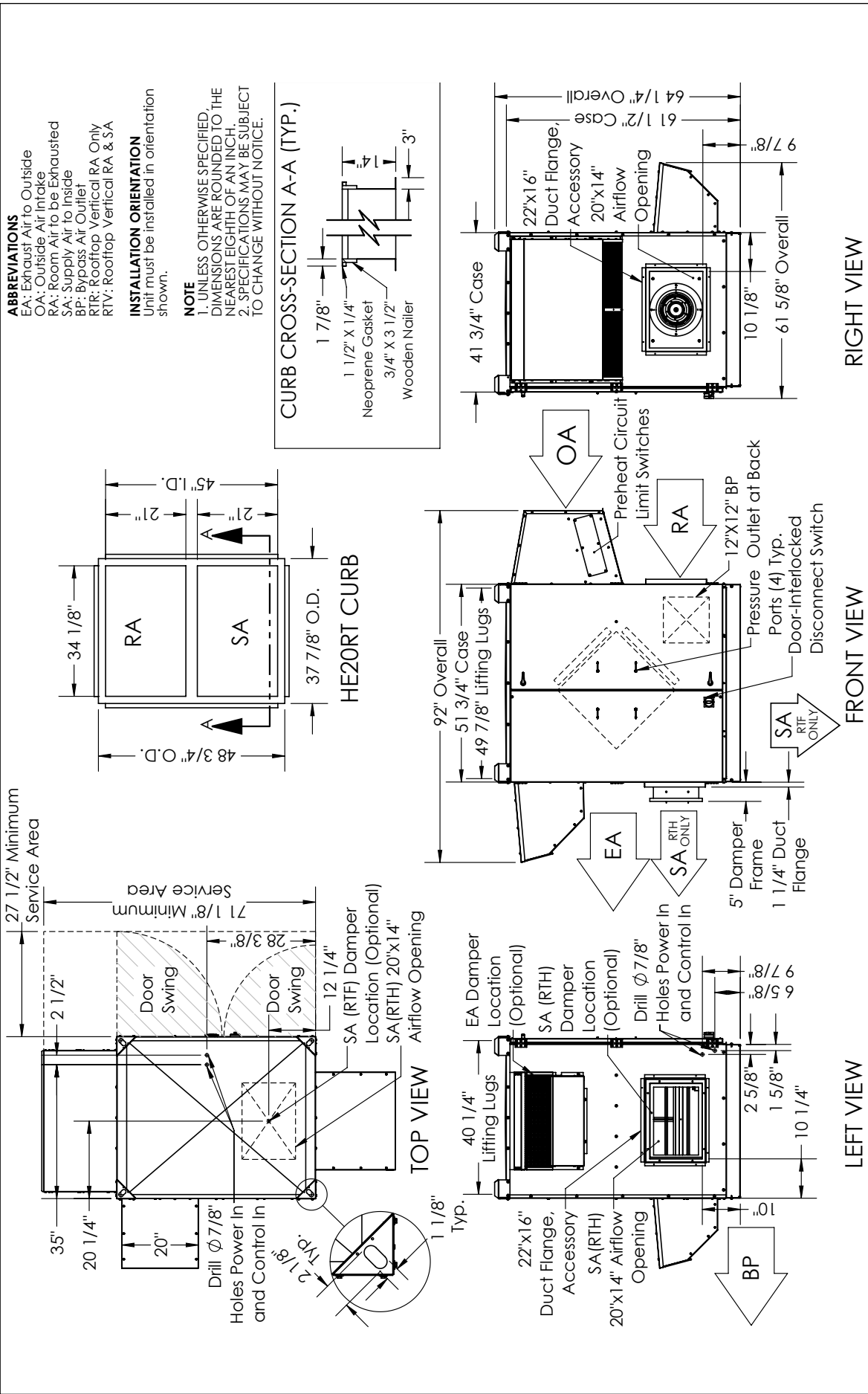
AIRFLOW ORIENTATION

Available as shown:

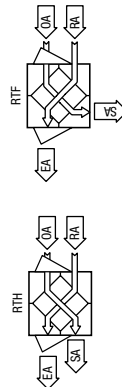


UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams cannot be switched. Duct configuration is not field convertible.

HE20RTH/RTF ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER & ELECTRIC PREHEAT



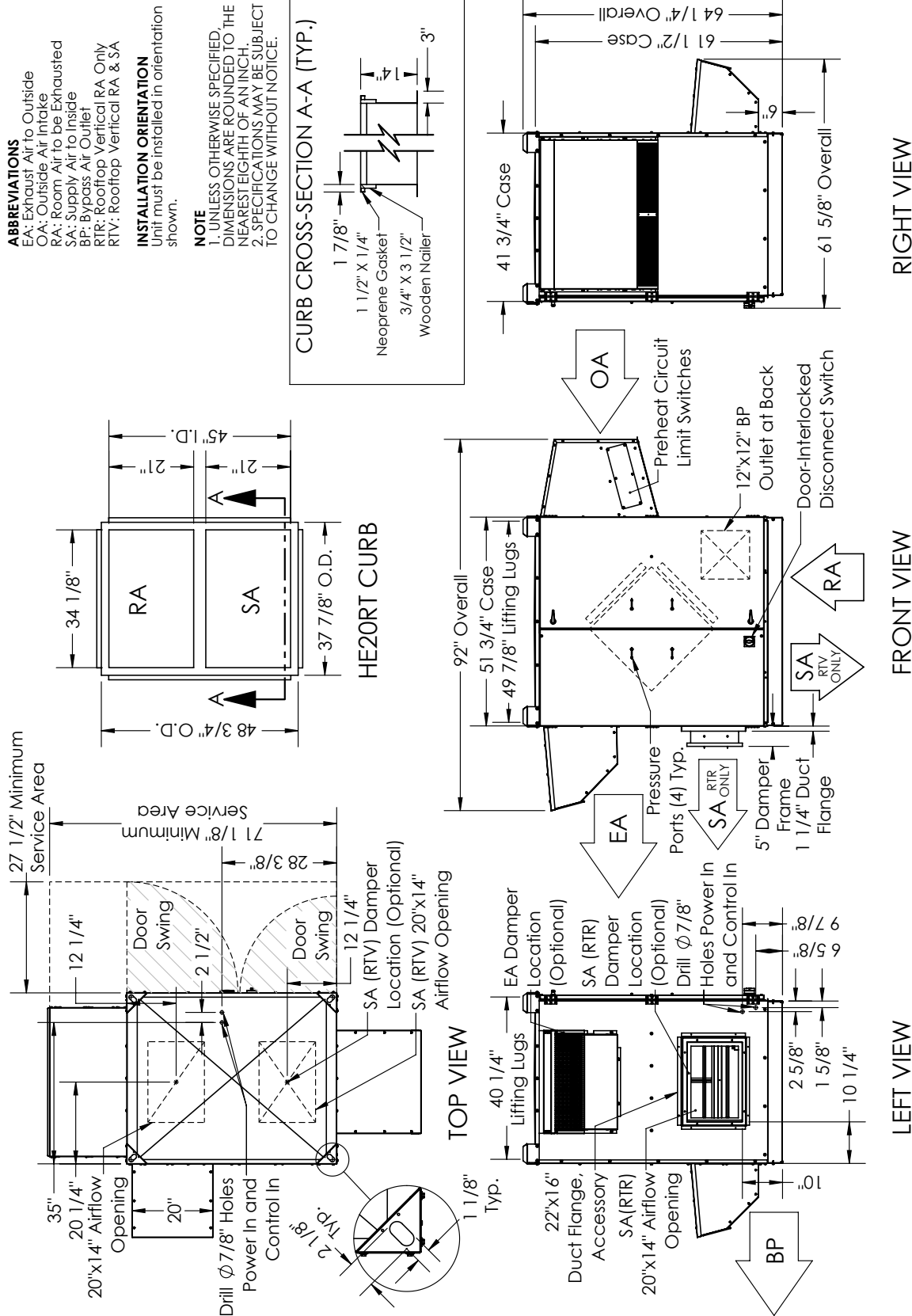
AIRFLOW ORIENTATION
 Available as shown:



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams cannot be switched. Duct configuration is not field convertible.

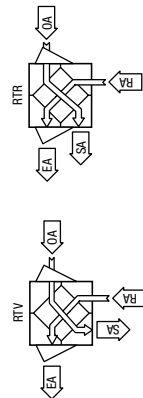


HE20RTV/RTR ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER & ELECTRIC PREHEAT



AIRFLOW ORIENTATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched. Duct configuration is not field convertible.

