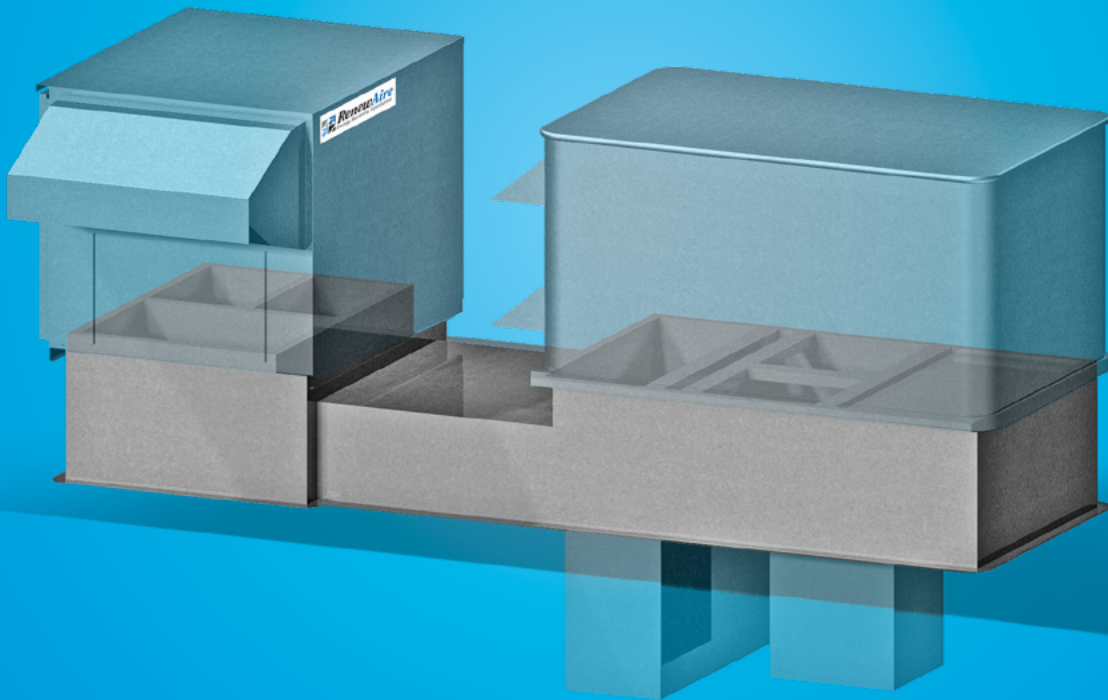




ENGINEERED COMBO CURBS

EFFICIENTLY SUPPORTING VENTILATION REQUIREMENTS FOR CARRIER RTUs



DESIGNED TO WORK WITH CARRIER ROOFTOP UNITS & RENEWAIRE ERVs

RENEWAIRE EVERYWHERE

EVERY GEOGRAPHY, EVERY CLIMATE, EVERY HOME,
EVERY BUILDING AND EVERY APPLICATION

ENGINEERED COMBO CURBS

KEY BENEFITS

RenewAire Engineered Combo Curbs easily combine Carrier rooftop units with our energy recovery ventilators (ERVs). They eliminate the need for transitional ductwork between the RTU and the ERV, reducing the time and costs of installation.

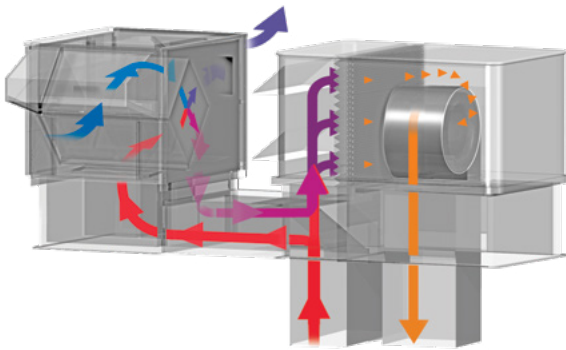
Simply install the curb, run the return and supply duct to the curb openings, then install the Carrier and RenewAire units onto the curb. Additionally, the curbs allow the Carrier unit to function in its standard operation as well as full-flow economizer modes.

APPLICATIONS

 EA: Exhaust Air	 RA: Room Return Air	 FA: Fresh Air
 OA: Outdoor Air	 SA: Conditioned Supply Air	 RA/FA: Mixed Room and Fresh Air

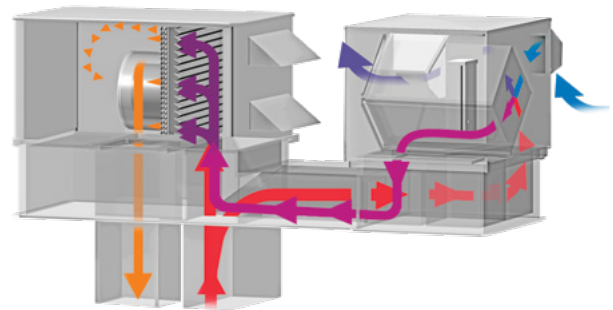
STANDARD OPERATION-VIEW 1

(Heating Application)

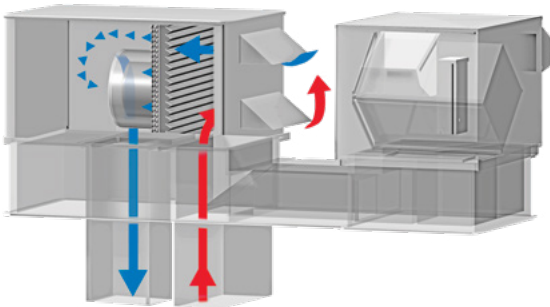


STANDARD OPERATION-VIEW 2

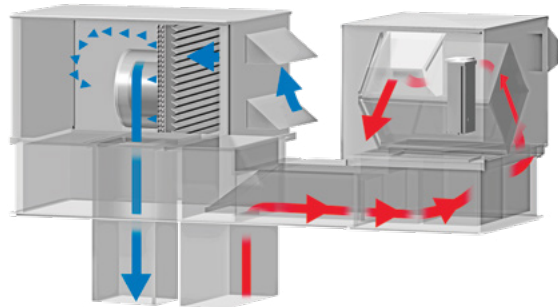
(Heating Application)



STANDARD RTU ECONOMIZER OPERATION

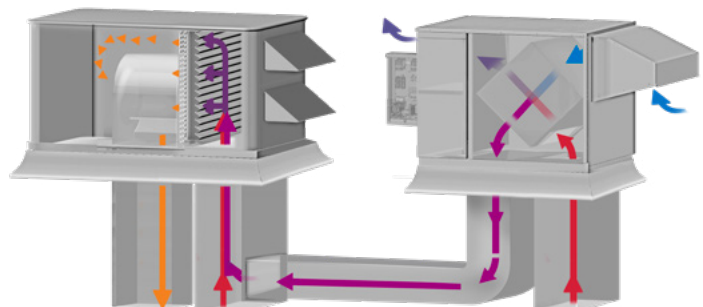


RENEWAIRE ERV POWERED RELIEF



TRADITIONAL CURB APPLICATION (STAND ALONE UNITS)

- ♦ Transitional ductwork required between the ERV and the rooftop unit
- ♦ Two curbs required
- ♦ Two sets of rooftop penetrations

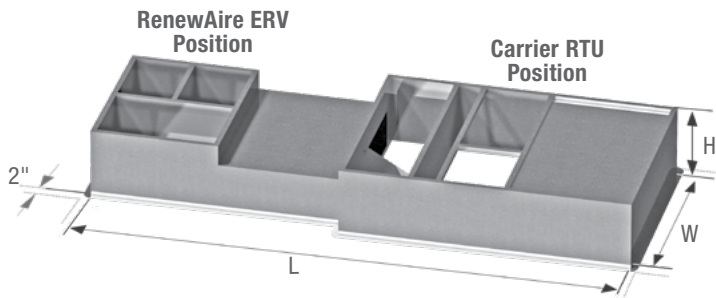


SELECTING A CURB

CARRIER ROOFTOP UNIT			RENEWAIRE ERV		RENEWAIRE COMBO CURB				
Line	Model	Tonnage	CFM Range	Model	Model	Length (L)	Width (W)	Height (H)	Weight (est.)
WeatherExpert:	48LC, 50LC.....	04 (3 ton), 05 (4 ton), 06 (5 ton)	166–694	HE07RTV	ECCWF07	113 5/8"	70"	20"	706 lbs.
WeatherMaster:	48HC, 50HC.....	04 (3 ton), 05 (4 ton), 06 (5 ton)	250–1100	HE10RTV	ECCWF10	100 1/4"	70"	20"	737 lbs.
WeatherMaker:	48KC, 50KC, 50KCQ	04 (3 ton), 05 (4 ton), 06 (5 ton)	375–1650	HE1.5XRTV	ECCWF1.5X	109"	70"	20"	349 lbs.
WeatherMaker:	48TC, 50TC, 50TCQ.....	04 (3 ton), 05 (4 ton), 06 (5 ton), 07 (6 ton)	500–2200	HE2XRTV	ECCWF2X	118 7/8"	70"	20"	310 lbs.
WeatherExpert:	48LC, 50LC.....	07 (6 ton)	166–694	HE07RTV	ECCWG07	126 5/8"	81"	20"	833 lbs.
WeatherMaster:	48HC, 50HC.....	07 (6 ton), 08 (7.5 ton), 09 (8.5 ton), 11 (10 ton), 12 (10 ton)	250–1100	HE10RTV	ECCWG10	113 1/4"	81"	20"	816 lbs.
WeatherMaker:	50TCQ.....	08 (7.5 ton), 09 (8.5 ton), 12 (10 ton)	375–1650	HE1.5XRTV	ECCWG1.5X	122"	81"	20"	404 lbs.
WeatherMaker:	48TC, 50TC	08 (7.5 ton), 09 (8.5 ton), 12 (10 ton), 14 (12.5 ton)	500–2200	HE2XRTV	ECCWG2X	131 7/8"	81"	20"	325 lbs.
			750–3300	HE3XRTV	ECCWG3X	150 7/8"	81"	20"	335 lbs.
			1000–4345	HE4XRTV	ECCWG4X	170 5/8"	81"	25"	375 lbs.
WeatherExpert:	48LC, 50LC.....	08 (7.5 ton), 09 (8.5 ton), 12 (10 ton)	250–1100	HE10RTV	ECCWH10	117 1/4"	109"	20"	990 lbs.
WeatherMaster:	48HC, 50HC.....	14 (12.5 ton)	375–1650	HE1.5XRTV	ECCWH1.5X	126"	109"	20"	466 lbs.
WeatherMaker:	50TCQ.....	14 (12.5 ton)	500–2200	HE2XRTV	ECCWH2X	135 7/8"	109"	20"	335 lbs.
WeatherMaker:	48TC, 50TC	16 (15 ton)	750–3300	HE3XRTV	ECCWH3X	154 7/8"	109"	20"	355 lbs.
			1000–4345	HE4XRTV	ECCWH4X	174 5/8"	109"	25"	395 lbs.
WeatherExpert:	48LC, 50LC.....	14 (12.5 ton)	250–1100	HE10RTV	ECCWI10	181 1/4"	80"	20"	910 lbs.
WeatherMaster:	48HC.....	17 (15 ton)	375–1650	HE1.5XRTV	ECCWI1.5X	190"	80"	20"	572 lbs.
WeatherMaker:	50TCQ.....	17 (15 ton)	500–2200	HE2XRTV	ECCWI2X	199 7/8"	80"	20"	375 lbs.
WeatherMaker:	48TC, 50TC	17 (15 ton), 20 (17.5 ton)	750–3300	HE3XRTV	ECCWI3X	218 7/8"	80"	20"	395 lbs.
			1000–4345	HE4XRTV	ECCWI4X	238 5/8"	80"	25"	435 lbs.
			1500–6500	HE6XRTV	ECCWI6	282 1/4"	102 1/4"	25"	658 lbs.
			2000–8800	HE8XRTV	ECCWI8	282 1/4"	102 1/4"	30"	720 lbs.
			1500–6600	LE6XRTV	ECCWI6X	341 1/2"	80"	30"	765 lbs.
			2000–8800	LE8XRTV	ECCWI8X	400 1/2"	80"	30"	845 lbs.
WeatherExpert:	48LC, 50LC.....	17 (15 ton), 20 (17.5 ton)	250–1100	HE10RTV	ECCWJ10	195 1/2"	80"	20"	945 lbs.
WeatherMaster:	48HC.....	20 (17.5 ton), 24 (20 ton)	375–1650	HE1.5XRTV	ECCWJ1.5X	204"	80"	20"	586 lbs.
WeatherMaker:	50TCQ.....	24 (20 ton)	500–2200	HE2XRTV	ECCWJ2X	213 7/8"	80"	20"	405 lbs.
WeatherMaker:	48TC, 50TC	24 (20 ton), 28 (26 ton)	750–3300	HE3XRTV	ECCWJ3X	232 7/8"	80"	20"	435 lbs.
			1000–4345	HE4XRTV	ECCWJ4X	252 5/8"	80"	25"	485 lbs.
			1500–6600	HE6XRTV	ECCWJ6	296 1/4"	102 1/4"	25"	698 lbs.
			2000–8800	HE8XRTV	ECCWJ8	296 1/4"	102 1/4"	30"	1460 lbs.
			1500–6600	LE6XRTV	ECCWJ6X	355 1/2"	80"	30"	805 lbs.
			2000–8800	LE8XRTV	ECCWJ8X	414 1/2"	80"	30"	885 lbs.
WeatherExpert:	48LC, 50LC.....	24 (20 ton), 26 (23 ton)	250–1100	HE10RTV	ECCWK10	211 1/4"	80"	20"	986 LBS.
WeatherMaster:	48HC.....	28 (26 ton)	375–1650	HE1.5XRTV	ECCWK1.5X	220"	80"	20"	602 lbs.
WeatherMaker:	48TC, 50TC	30 (27.5 ton)	500–2200	HE2XRTV	ECCWK2X	229 7/8"	80"	20"	435 lbs.
			750–3300	HE3XRTV	ECCWK3X	248 7/8"	80"	20"	465 lbs.
			1000–4345	HE4XRTV	ECCWK4X	268 5/8"	80"	20"	515 lbs.
			1500–6600	HE6XRTV	ECCWK6	312 1/4"	102 1/4"	25"	728 lbs.
			2000–8800	HE8XRTV	ECCWK8	312 1/4"	102 1/4"	30"	728 lbs.
			1500–6600	LE6XRTV	ECCWK6X	371 1/2"	80"	30"	798 lbs.
			2000–8800	LE8XRTV	ECCWK8X	430 1/2"	80"	30"	875 lbs.

RenewAire ERV
Position

Carrier RTU
Position

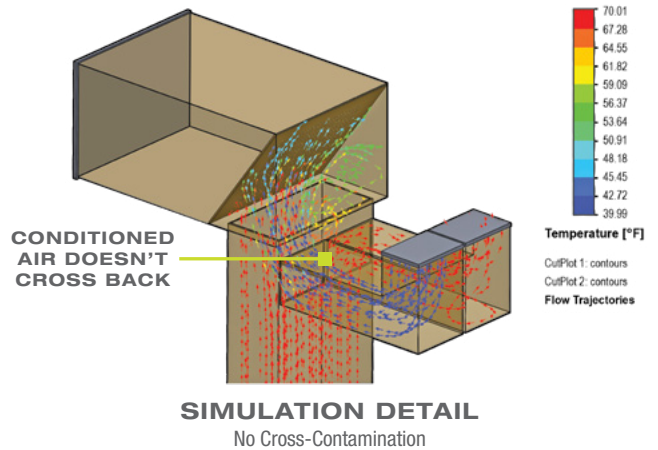


Note: Curb measurements do not include 2" flange.

ENGINEERED EXCELLENCE

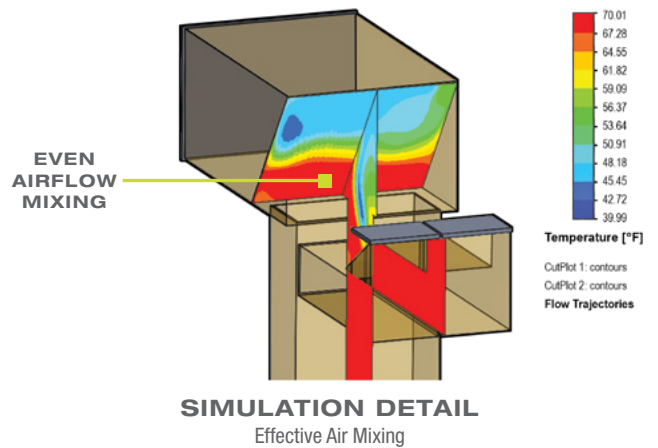
ELIMINATE SHORT CIRCUITING AND CROSS CONTAMINATION

Through detailed analysis, using computational fluid dynamics, RenewAire has engineered the combo curbs so the conditioned supply airstream from the ERV does not cross back into the ERV's return air duct.



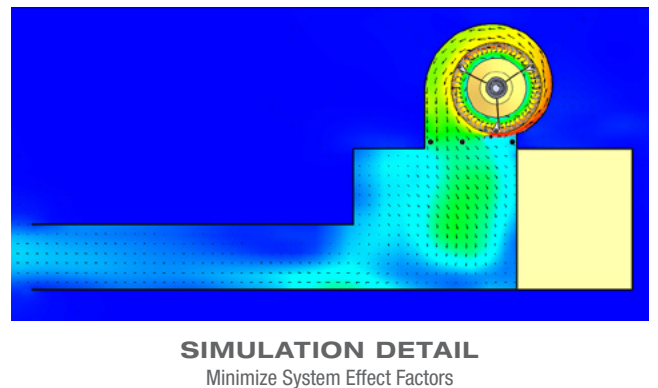
PROVIDE HIGHLY EFFECTIVE AIR MIXING

RenewAire combo curbs have been engineered to provide appropriately distributed airflow from the ERV's supply airstream across the RTU's heating and cooling coils. This feature ensures design efficiencies of heating and cooling of the RTU are fully maintained.



MINIMIZE SYSTEM EFFECT FACTORS

To ensure the highest levels of efficiency, the RenewAire combo curbs include an engineered component which minimizes negative system effect factors at the ERV's supply air blower opening, improving airflow across the curb and increasing efficiency.



STANDARD CONSTRUCTION

- ♦ Prime G-90, 18-gauge galvanized steel
- ♦ Fully welded and mitered corners (single piece curb lift)
- ♦ Base flange attachments for securing to the building structure
- ♦ 1 1/2" 3 lb. density fiberglass insulation
- ♦ Reinforced with cross channel supports on center
- ♦ Conforms to ASTM A653/A653M (standard specification for sheet metal)

AVAILABLE OPTIONS (SPECIAL ORDER)

- ♦ Seismic and/or wind load applications
- ♦ Pitched roof applications
- ♦ High vibration applications
- ♦ Custom curb heights
- ♦ Heavier metal gauges
- ♦ Aluminum liners

RENEWAIRE

ENGINEERED COMBO CURBS

RenewAire Engineered Combo Curbs create the perfect HVAC solution by combining trusted RenewAire ventilation with Trane Rooftop air-conditioning...AND reduce installation time!

RENEWAIRE

HE07RTV
HE10RTV
HE1.5XRTV
HE2XRTV
HE3XRTV

HE4XRTV
HE6XRTV
HE8XRTV
LE6XRTV
LE8XRTV



SUPPORTS CARRIER MODELS

WEATHEREXPERT

WEATHERMASTER

WEATHERMAKER

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