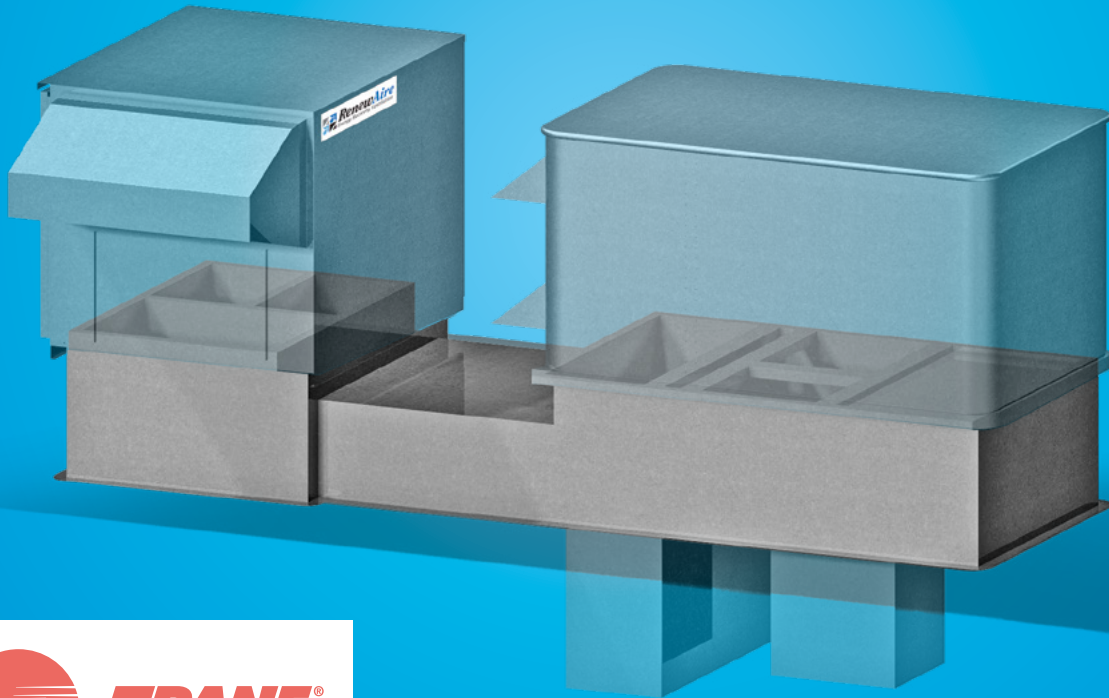




ENGINEERED

COMBO CURBS

EFFICIENTLY SUPPORTING VENTILATION REQUIREMENTS FOR TRANE RTUs



DESIGNED TO WORK WITH TRANE 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 Trane 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 Trane and RenewAire units onto the curb. Additionally, the curbs allow the Trane unit to function in its standard operation as well as full-flow economizer modes.

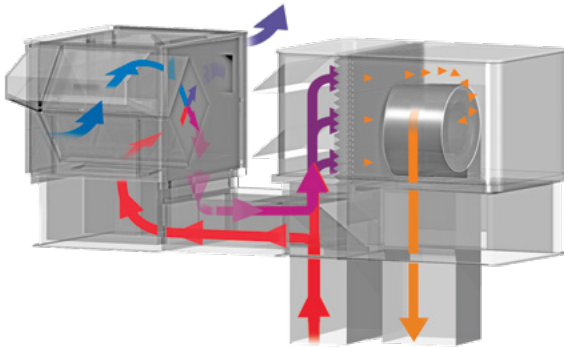
APPLICATIONS

EA: Exhaust Air
OA: Outdoor Air

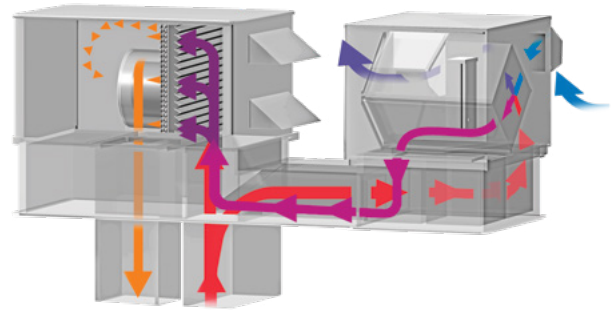
RA: Room Return Air
CA: Conditioned Air

SA: Supply Air
RA/SA: Mixed Room and Supply Air

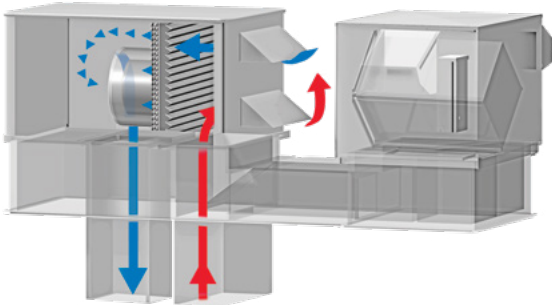
STANDARD OPERATION-VIEW 1
(Heating Application)



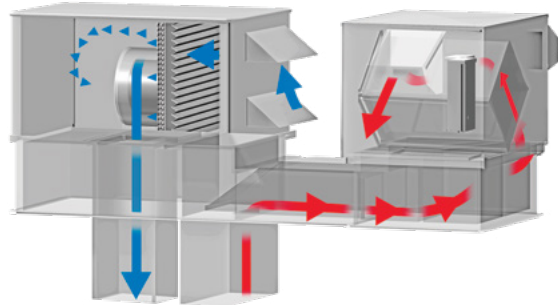
STANDARD OPERATION-VIEW 2
(Heating Application)



STANDARD RTU ECONOMIZER OPERATION

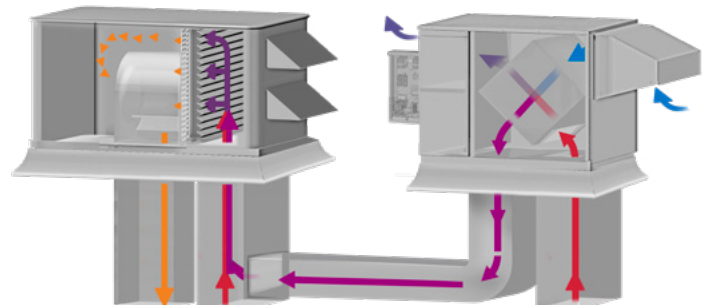


RENEWAIRE ERV POWERED RELIEF



TRADITIONAL CURB APPLICATION (STAND ALONE UNITS)

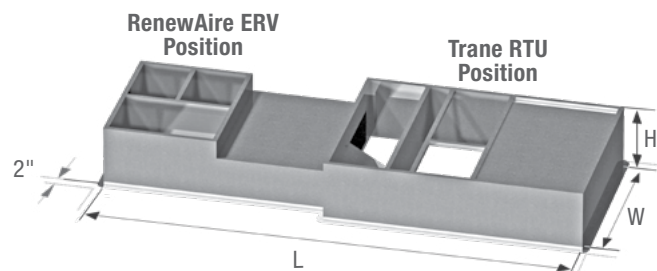
- ◆ Transitional ductwork required between the ERV and the rooftop unit
- ◆ Two curbs required
- ◆ Two sets of rooftop penetrations



ENGINEERED COMBO CURBS

SELECTING A CURB

| TRANE ROOFTOP UNIT | | | RENEWAIRE ERV | | RENEWAIRE COMBO CURB | | | | |
|--------------------|--|--|--|---|----------------------|------------|-----------|------------|---------------|
| Line | Model | Tonnage | CFM Range | Model | Model | Length (L) | Width (W) | Height (H) | Weight (est.) |
| Precedent | WSK/DSK Standard Eff TSK/YSK Standard Eff THK/YHK High Eff | 036 (3 ton), 048 (4 ton), 060 (5 ton) | 166-694 | HE07RTV | ECTPB07 | 132 3/8" | 40 3/8" | 20" | 645 lbs. |
| | | | 250-1100 | HE10RTV | ECTPB10 | 119" | 40 3/8" | 20" | 633 lbs. |
| | | | 369-1621 | HE15RTV | ECTPB15 | 128 7/8" | 48 5/8" | 20" | 503 lbs. |
| | | | 500-2200 | HE20RTV | ECTPB20 | 138 5/8" | 48 5/8" | 20" | 538 lbs. |
| | WSK/DSK Standard Eff WHK/DHK High Eff TSK/YSK Standard Eff THK/YHK High Eff TZK/YZK Ultra High Eff | 072 (6 ton), 090 (7.5 ton), 102 (8.5 ton) 036 (3 ton), 048 (4 ton), 060 (5 ton), 072 (6 ton), 090 (7.5 ton), 102 (8.5 ton) 072 (6 ton), 090 (7.5 ton), 102 (8.5 ton), 120 (10 ton) 048 (4 ton), 060 (5 ton), 072 (6 ton), 090 (7.5 ton), 102 (8.5 ton), 120 (10 ton) 036 (3 ton), 048 (4 ton), 060 (5 ton), 072 (6 ton), 090 (7.5 ton), 102 (8.5 ton) | 166-694 | HE07RTV | ECTPCD07 | 151 1/8" | 49 3/8" | 20" | 723 lbs. |
| | | | 250-1100 | HE10RTV | ECTPCD10 | 137 3/4" | 49 3/8" | 20" | 697 lbs. |
| | | | 369-1621 | HE15RTV | ECTPCD15 | 147 5/8" | 49 3/8" | 20" | 578 lbs. |
| | | | 500-2200 | HE20RTV | ECTPCD20 | 157 3/8" | 49 3/8" | 20" | 602 lbs. |
| | | | 750-3300 | HE3XRTV | ECTPCD3X | 175 3/8" | 53 3/8" | 20" | 650 lbs. |
| | | | 1000-4400 | HE4XRTV | ECTPCD4X | 195 1/8" | 53 3/8" | 25" | 702 lbs. |
| | WSK/DSK Standard Eff WHK/DHK High Eff TSK/YSK Standard Eff TZK/YZK Ultra High Eff | 120 (10 ton) 120 (10 ton) 150 (12.5 ton) 120 (10 ton) | 250-1100 | HE10RTV | ECTPE10 | 137 3/4" | 59 3/8" | 20" | 751 lbs. |
| | | | 369-1621 | HE15RTV | ECTPE15 | 147 5/8" | 59 3/8" | 20" | 633 lbs. |
| | | | 500-2200 | HE20RTV | ECTPE20 | 157 3/8" | 59 3/8" | 20" | 660 lbs. |
| | | | 750-3300 | HE3XRTV | ECTPE3X | 175 3/8" | 59 3/8" | 20" | 716 lbs. |
| | | | 1000-4400 | HE4XRTV | ECTPE4X | 195 1/8" | 59 3/8" | 25" | 772 lbs. |
| | | | 1500-6600 | HE6XRTV | ECTPC06 | 194 3/4" | 102 1/4" | 25" | 1155 lbs. |
| | | | 1750-7700 | HE7XRTV | ECTPC08 | 194 3/4" | 102 1/4" | 30" | 1307 lbs. |
| | | | 2000-8800 | HE8XRTV | ECTPC08 | 194 3/4" | 102 1/4" | 30" | 1307 lbs. |
| | | | 1250-5500 | LE5XRTV | ECTPC05X | 214" | 63 4/9" | 25" | 974 lbs. |
| | | | 1500-6600 | LE6XRTV | ECTPC06X | 234" | 63 4/9" | 25" | 1107 lbs. |
| | | | 2000-8800 | LE8XRTV | ECTPC08X | 274" | 63 4/9" | 30" | 1263 lbs. |
| | | | WSK/DSK Standard Eff WHK/DHK High Eff TSK/YSK Standard Eff THK/YHK High Eff TZK/YZK Ultra High Eff | 150 (12.5 ton), 180 (15 ton), 210 (17.5 ton) 150 (12.5 ton), 180 (15 ton), 210 (17.5 ton) 180 (15 ton), 210 (17.5 ton), 240 (20 ton), 300 (25 ton) 150 (12.5 ton), 180 (15 ton), 210 (17.5 ton), 240 (20 ton), 300 (25 ton) 150 (12.5 ton), 180 (15 ton), 210 (17.5 ton), 240 (20 ton), 300 (25 ton) | 250-1100 | HE10RTV | ECTVC10 | 170 5/8" | 80" |
| | 369-1621 | HE15RTV | | | ECTVC15 | 182 1/2" | 80" | 20" | 811 lbs. |
| | 500-2200 | HE20RTV | | | ECTVC20 | 192 1/4" | 80" | 20" | 823 lbs. |
| | 750-3300 | HE3XRTV | | | ECTVC3X | 210 1/4" | 80" | 20" | 893 lbs. |
| | 1000-4400 | HE4XRTV | | | ECTVC4X | 230" | 80" | 27" | 962 lbs. |
| | 1500-6600 | HE6XRTV | | | ECTVC6 | 267 5/8" | 102 1/4" | 25" | 1247 lbs. |
| | 1750-7700 | HE7XRTV | | | ECTVC8 | 267 5/8" | 102 1/4" | 30" | 1412 lbs. |
| 2000-8800 | HE8XRTV | ECTVC8 | | | 267 5/8" | 102 1/4" | 30" | 1412 lbs. | |
| 1250-5500 | LE5XRTV | ECTVC5X | | | 246 7/8" | 80" | 25" | 1190 lbs. | |
| 1500-6600 | LE6XRTV | ECTVC6X | | | 326 7/8" | 80" | 25" | 1344 lbs. | |
| 2000-8800 | LE8XRTV | ECTVC8X | | | 385 7/8" | 80" | 30" | 1532 lbs. | |

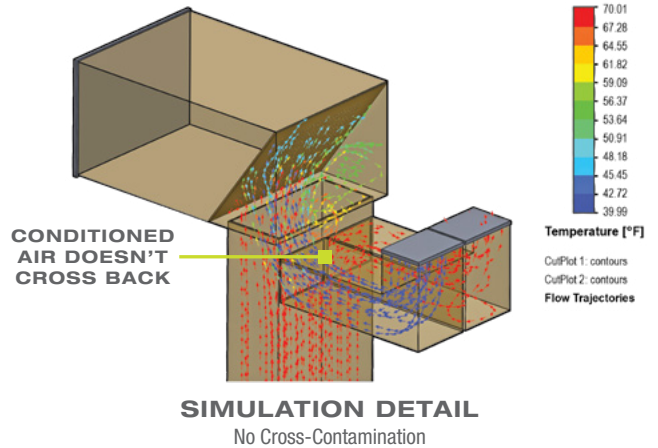


Note: Curb measurements do not include 2" flange.

ENGINEERED EXCELLENCE

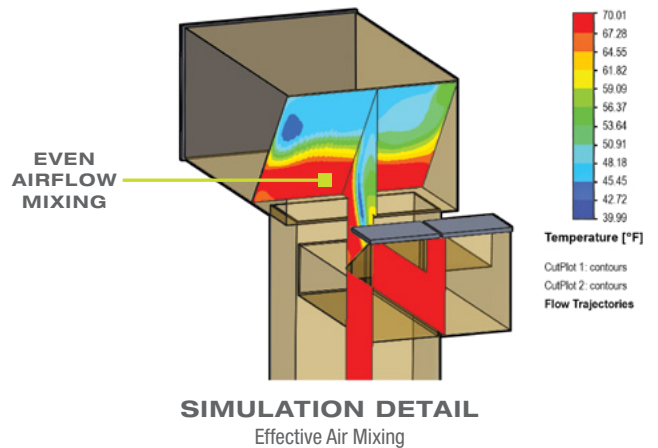
ELIMINATE SHORT CIRCUITING AND CROSS CONTAMINATION

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.



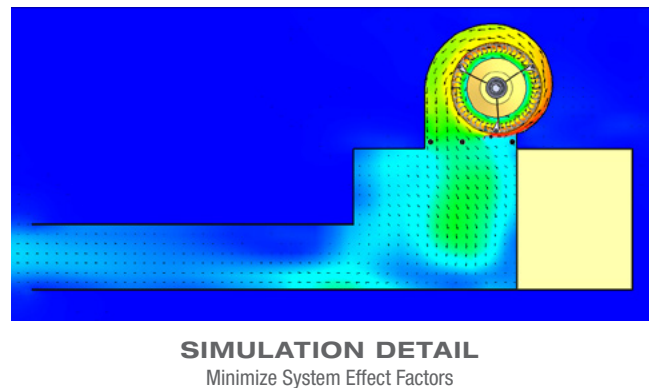
PROVIDE HIGHLY EFFECTIVE AIR MIXING

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
HE15RTV
HE20RTV
HE3XRTV
HE4XRTV

HE6XRTV
HE7XRTV
HE8XRTV
LE5XRTV
LE6XRTV
LE8XRTV



TRANE[®]

PRECEDENT



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