



S & P USA

CASE STUDY

Fresh, Flowing Filtered Air :
Meeting California Codes using
S&P USA's Total Recovery ERV units

OVERVIEW

With the change of California codes in 2020, engineers are looking for new and innovative ways to meet these codes in the most cost effective way. Most recently, S&P worked with Andrew Fabes of RJA Group and Lane Roper of wholesaler, Ascent, INC to come up with a solution to meet code using TR90 and TR130 ERVs in a multifamily project at 735 Davis and 88 Broadway in San Francisco, CA.

PAUL SNEED | West Coast Regional Sales Manager

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APPROACH

735 Davis is a brand new senior apartment building offering 53 units of affordable housing. Made up of studios and one-bedroom apartments, some units will serve formerly homeless senior households through a coordinated entry system (735 Davis, 2019). 88 Broadway will be made up of 125 studio, one, two and three bedroom units with apartments allocated to public housing relocates.

Together, these two locations will feature 10,500 SQ.FT. of retail and commercial space, a mixed-income childcare center and a 9,500 SF paseo with beautiful landscaping and seating. (88 Broadway, 2019). The proximity of the two buildings allows Gen X and Millennial generation members to be close to Boomer and Silent Generation parents to aid in their day-to-day care. All residents can engage with the retail establishment below their apartment.



S&P was able to provide a fresh air solution using our TR90 and TR130 Energy Recovery Units. These ERVs were used to exhaust humid bathroom air and replace it with fresh outdoor air. Cost was saved by eliminating the need for a bathroom fan in each unit, allowing the engineer to create an all-in-one solution. In all, 116 units were installed saving time and money eliminating the need both of bathroom fan and supply fans.

Getting to this solution was no easy feat. The engineer of record turned down S&P USA's design twice before accepting. The ability

to flip the orientation of the TR satisfied the engineer, and saved them having to re-do all the duct work for the ERV. The Engineer was super pleased with our adaptability and ease of use of the S&P Total Recovery ERV. The ability to purchase these units in pallet quantities saved the contractor an additional \$8,903.00 dollars versus buying the units individually.

TRADITIONAL SOLUTION

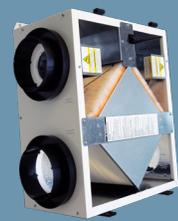


Premium CHOICE XP Series
(Exhaust Fan)



TD-MIXVENT
(Supply Fan)

TR SOLUTION



Total Recovery ERV
(Exhaust and Supply Fan)

CONCLUSION

S&P Total Recovery Units are available in sizes for all projects from 40 CFM to 310 CFM. This allows California code ASHRAE 62.2 and State requirement of balanced ventilation to be met by keeping a constant balance air flow but exhausting the bathrooms at the same time.