

Case Study - 100 Ton Split Unit

24 Hour Test - Equity Office - Santa Monica, CA



20%

Annual Energy Savings



44,300

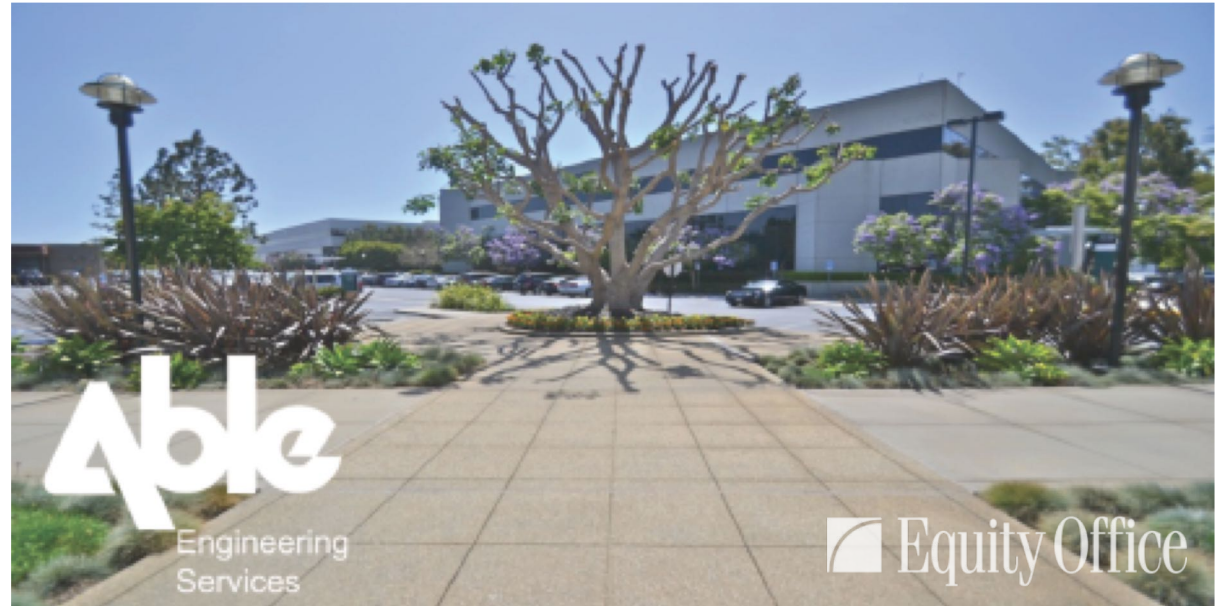
Annual kWh Savings



\$7,100

Annual \$ Savings

See reverse side for notes on savings calculations



Bluon Energy worked alongside Able Engineering and Equity Office in converting a large, 100 ton split R-22 system at Equity Office's Colorado Center in Santa Monica, California. The system, due to its size and type, offered a great opportunity for a pilot install so observe a substantial increase in energy efficiency by converting to Bluon TdX 20.

By converting those R-22 systems, Equity Office was able to provide its tenants with a reduction in electricity of 20%, estimated to produce an aggregate annual savings of \$7,100.



"Bluon is at the forefront of tackling energy efficiency in our existing heating and air conditioning infrastructure."

- **Leonardo DiCaprio**, *Bluon Investor & Board Advisor*

EQUIPMENT

HVAC Unit

Trane Split 100 Ton HVAC with TXV Metering Valve

Model

CUABD104EFNRR10OTCG3

TEST DATES

R-22

Collected over 24 hours on 05/11/2015

Bluon TdX 20 (R-458A)

Collected over 24 hours on 05/18/2015

TEST METHODOLOGY

Data collected over two virtually identical 24 hour periods on the same system, before and after conversion. Averages calculated with system running.

NOTES

Electricity consumption was measured minute by minute, via data loggers, during identical 24-hour periods to calculate the difference in electricity consumption - does not include the energy consumed by external fans/blowers or the expense related to the rising cost of R-22.

Bluon TdX 20 (R-458A)

R-22

| | | |
|--------------------------------|-------|-------|
| Avg. Outside Air (F°) | 75-80 | 75-80 |
| Total Energy (kWh) | 695.0 | 872.3 |
| Avg. Current (amps) | 74.8 | 86.3 |
| Avg. Suction Line (psig) | 49.5 | 62.0 |
| Avg. Discharge Line (psig) | 214.1 | 223.1 |
| Avg. Liquid Line Temp (F°) | 99.1° | 99.1° |
| Avg. Suction Line Temp (F°) | 43.2° | 56.4° |
| Avg. Return Air Temp (F°) | 66.8° | 67.0° |
| Avg. Supply Air Temp (F°) | 46.8° | 46.5° |



Bluon TdX 20 is only R-22 replacement solution that upgrades your equipment, saving you money every month.

www.bluonenergy.com | 855.425.8686 | info@bluonenergy.com