

Case Study - 40 Ton Package Unit

LBA Realty Pacific Concourse - Los Angeles, CA



36%

Annual Energy Savings



550,300

Annual kWh Savings



\$80,900

Annual \$ Savings

See reverse side for notes on savings calculations



LBA in Los Angeles asked AMP Mechanical Contractors to partner with Bluon Energy to convert ten 40 ton package units over to Bluon TdX 20.

The Bluon Tech Team was also able to identify and fix several long standing issues with these units. These fixes combined with the conversion to Bluon TdX 20, created savings for LBA of 36% or \$80,900 per year for the 10 x 40 ton units!



"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

Carrier 40 Ton Package Rooftop Unit

Model

50DL-044

TEST DATES

R-22

Data collected 9/18/2015 to 10/6/2015

Bluon TdX 20 (R-458A)

Data collected 10/8/2015 to 10/26/2015

TEST METHODOLOGY

Data was collected over multi-week periods before and after conversion to Bluon. Due to very different outside air and load conditions, overall system efficiency was utilized to compare results (COP basis or kW cooled / kW consumed). Averages for the two comparison periods were utilized.

NOTES

System had a significant increase in cooling capacity, which resulted in decreased run time. Maximum R-22 value used for comparison.

	Bluon TdX 20 (R-458A)	R-22
Avg. Outside Air (F°)	84	74
Avg. Suction Line (psig)	53.3	58.9
Avg. Discharge Line (psig)	228.3	165.6
Avg. RA-SA Delta T (F°)	11.5	7.0
Avg. Compressor (amps)	26.8	17.3
Avg. Cooling ² (kW°)	67.1	34.1
Avg. Power Consumption (kW)	21.4	13.8



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

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