

CONVERSION REPORT : Seattle, WA

80 Ton Trane® Water Cooled IntelliPak™



LOCATION + EQUIPMENT

Location: 1918 8th Ave.
Seattle, WA 98101

Converted: October 2019

HVAC Unit: 80 Ton Trane® IntelliPak™


Model: SCWFP9043---


TEST METHODOLOGY

Data was collected for several months prior to retrofitting to establish an R-22 baseline and several months after once converted to Bluon TdX 20 (R-458A). The data was sorted to ensure an accurate comparison between R-22 and TdX 20 under very similar load conditions.

SUMMARY

The unit was converted using Bluon's retrofit protocols developed for Trane® IntelliPaks™. The water cooled unit was located inside the building's core on an occupied floor. Replacing this unit entirely is not viable due to its location. By retrofitting to Bluon, 1918 8th Ave. avoided replacing the equipment and saw a substantial increase in efficiency and capacity. Bluon is now planning to retrofit the remaining twenty-five R-22 units located at this property.


19%
Energy Savings


11%
Capacity Increase

	Bluon TdX 20 (R-458A)	R-22
Capacity (Tons)†*	17.6	15.9
Power Consumption (kW)	17.4	18.2
EER (BTU/W-h)	12.5	10.5
kW/Ton	0.96	1.15

*Only running first stage cooling (20 nominal ton compressor)
†Standard air density of 0.075 lb/ft³ and 400 CFM/Ton