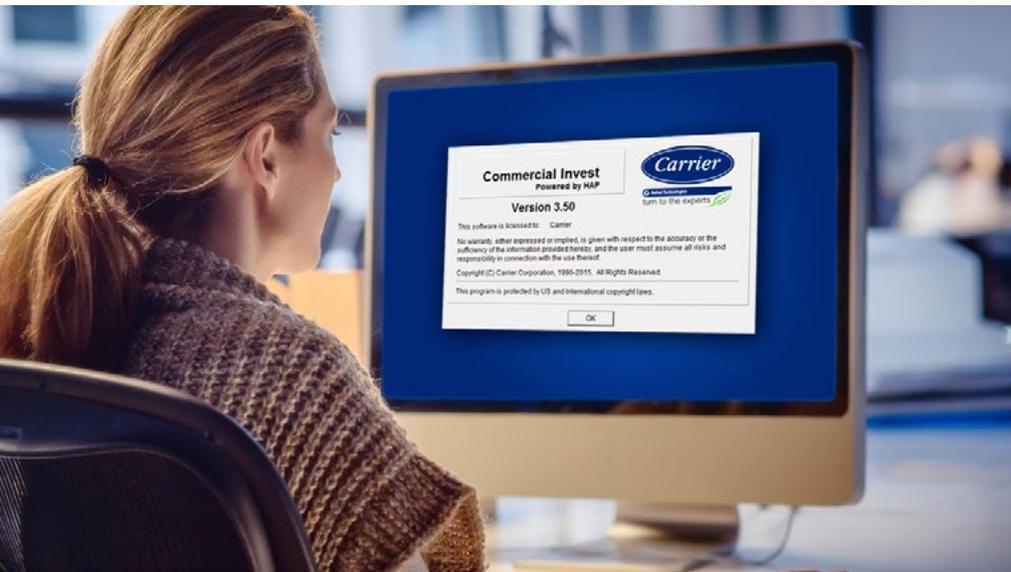


# COMMERCIAL INVEST Rooftop Payback Analyzer



## Carrier's COMMERCIAL INVEST is: Fast, Easy, and Free

### Features

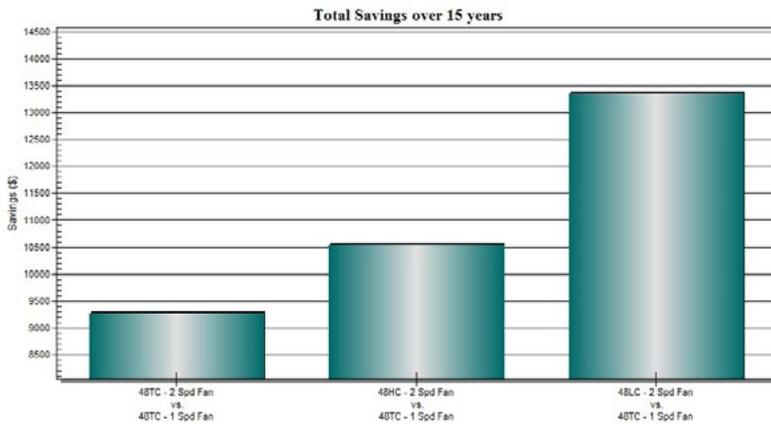
- Rapidly determines energy cost savings and payback for RTU applications
- New Construction and Replacement applications
- Professional Reports combining tabular and graphical data
- Multiple building profiles to select from, including offices, schools, restaurants, and retail facilities, based on ASHRAE 90.1 prescriptive requirements and ASHRAE 62.1
- Pre-loaded with performance data for Carrier equipment dating back to 1990
- Pre-loaded with performance data for other popular industry models
- In depth hour-by-hour analysis with results within seconds

# COMMERCIAL INVEST Rooftop Payback Analyzer

## Annual Savings and Payback Reports

### Key Results

Comparison Units Pair	48TC - 2 Spd Fan vs. 48TC - 1 Spd Fan	48HC - 2 Spd Fan vs. 48TC - 1 Spd Fan	48LC - 2 Spd Fan vs. 48TC - 1 Spd Fan
Energy Cost Savings over 15 years	\$9,272	\$10,548	\$13,350
Maintenance, Repair, Downtime, Refrig. Savings over 15 years	\$0	\$0	\$0
Total Savings over 15 years	\$9,272	\$10,548	\$13,350
Annual Energy Cost Savings	\$618 (34%)	\$703 (38%)	\$890 (48%)



## Lifecycle Cost Analysis

### 48LC - 2 Spd Fan vs. 48TC - 1 Spd Fan

Criteria	48TC - 1 Spd Fan (\$)	48LC - 2 Spd Fan (\$)	Energy Savings (\$)	Percent Savings (%)
Indoor Fan	\$1,168	\$377	\$791	68%
Cooling Electric	\$574	\$405	\$169	29%
Heating Electric	na	na	na	na
Heating Natural Gas	\$101	\$171	-\$69	na
<b>Annual Energy Costs</b>	<b>\$1,843</b>	<b>\$953</b>	<b>\$890</b>	<b>48%</b>

## Detailed Input Summary

### Inputs Summary:

#### Job Information

Job Title: Example Problem  
Job Type: New Construction  
Notes:

#### Building Information

##### Location Information

Region: U.S.A.  
Location: Tennessee  
City: Memphis

##### Building Information

Building Type: Office  
Unit Peak Clg Load: 7.5 Tons

#### Energy Prices

Input Data: Tennessee - EIA  
Electricity Price (Avg.): 0.10380 \$/kWh  
Gas Price (Avg.): 9.30000 \$/MCF

#### Equipment Information

##### 48TC - 1 Spd Fan

Equipment Type: Cooling with Gas Heat  
Manufacturer: Carrier  
Model: 48TC  
Size: DA08 (Low Heat)  
Refrigerant: R-410a  
Equipment Age: 0 yrs.  
Nominal Cooling Capacity: 7.5 Tons  
AHRI Cooling Rating: 11.00 EER  
Capacity Control: 1-Stage  
Heating Capacity: 103.0 MBH  
AHRI Heating Rating: NA  
Heating Efficiency: 82.0 %  
Indoor Fan Option: Medium Static, 3PH  
Indoor Fan Power: 2.63 BHP  
Indoor Fan Control: 1-Speed  
Economizer: Yes  
Energy Recovery: No  
DCV Control: No



1-800-CARRIER [carrier.com/commercial](http://carrier.com/commercial)

© Carrier Corporation 2016 Cat. no. 18-811-092

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs, without notice and without incurring obligations.