

THE BIGGEST REVOLUTION IN HVAC SINCE 1919





What is Nu-NRG

How Does it Work

Installation

Nu-NRG

Cost Comparison

Benefits

Contractor Perks

What People Say

What is Skil-aire Nu-NRG?

- 🍃 The first revolution in heating & cooling in 100 years
- 🍃 The path to energy independence
- 🍃 Eliminates reliance on fossil fuels
- 🍃 UL Verified 41% less electricity
2019-2021



HOW DOES IT WORK



Thermal Mass

Requires less energy to remain hot,
It is a big HOT ROCK



Infrared Heat

Captures all the heat produced
and uses it more efficiently.

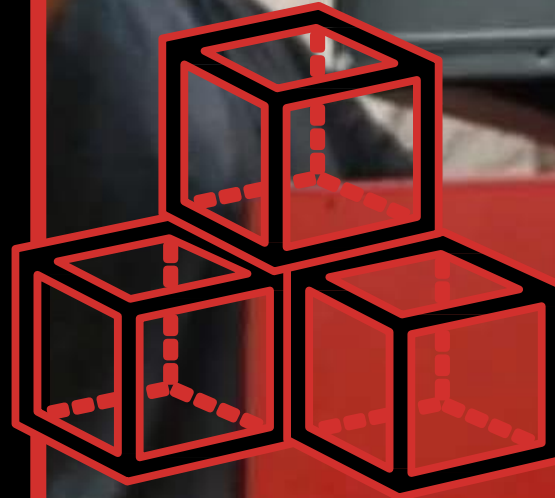


Modular & Scalable with special design features.

More efficient design and easy to
install in tight spaces wit a 0"
clearance install rating.



Controls and Control Algorithms
Increases comfort and how the
furnace reacts to each unique
home.



Skil·aire
A division of Tithe Corporation



HOW DOES IT WORK



Thermal Mass

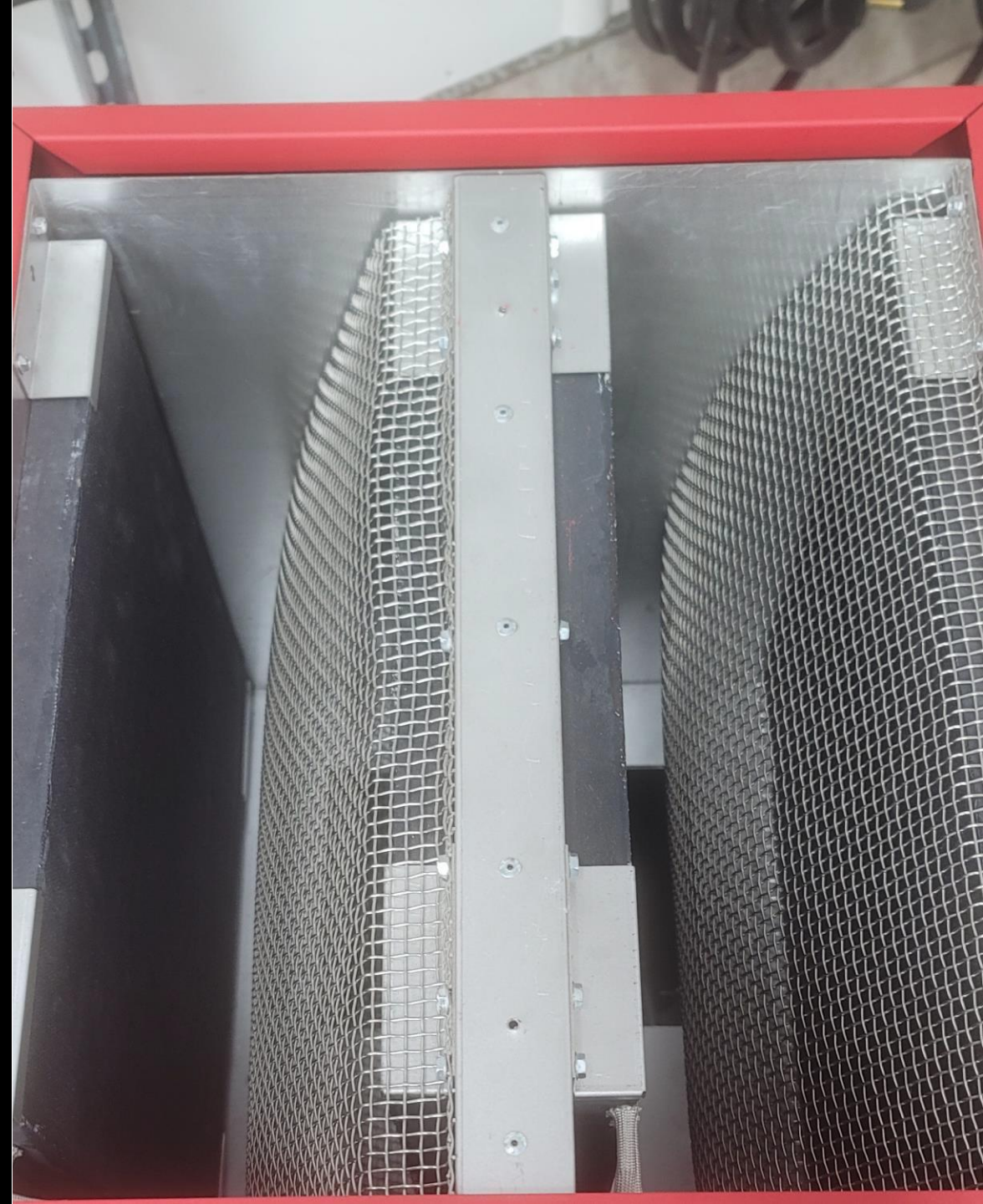
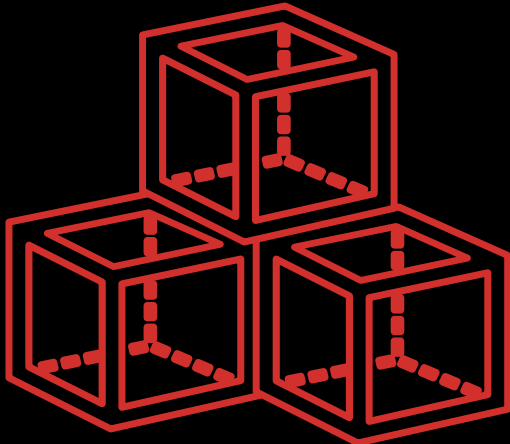
Requires less energy to remain hot



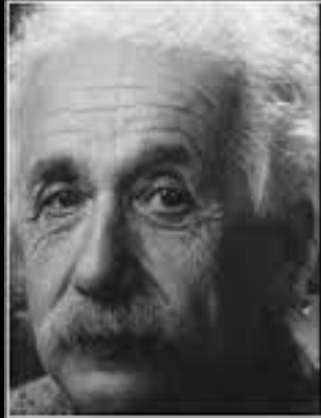
More surface space to heat the air



The more thermal mass storage you have, the more an energy curve is affected. The closer we come to efficiency and comfort being equal.



HOW DOES IT WORK



Energy cannot be created or destroyed, it can only be changed from one form to another.

— Albert Einstein —

AZ QUOTES

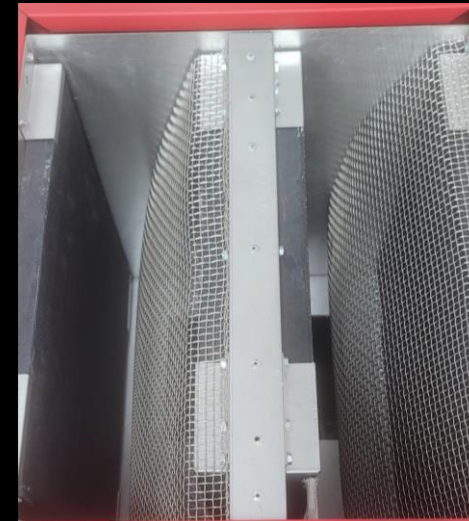
Example of strip heat during operation



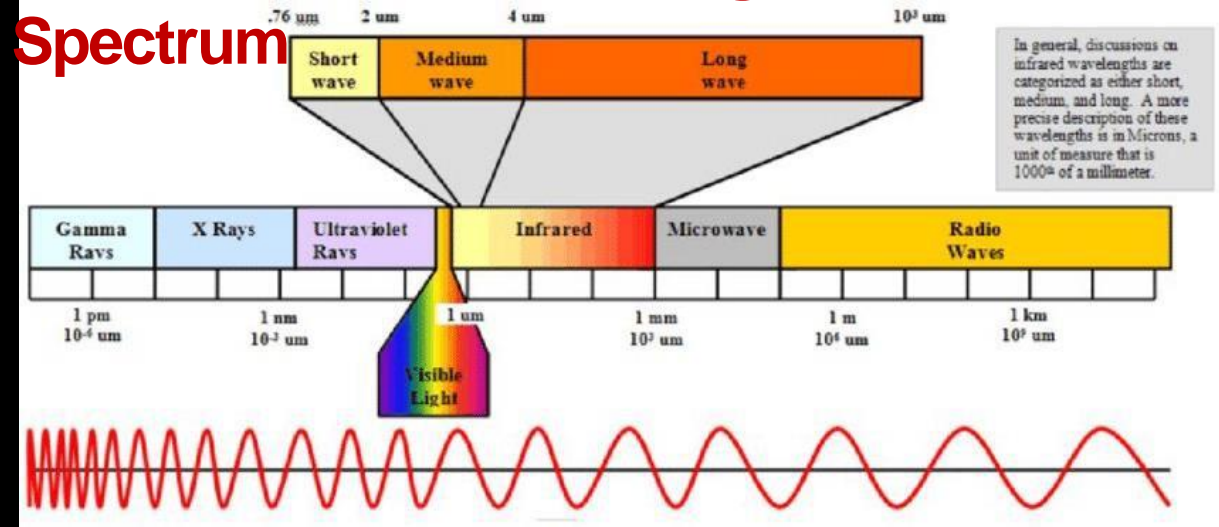
Infrared Heat & Thermal Mass

Facilitates the change in a more efficient process.

Example of Nu-NRG Inner Chamber



Nu-NRG = Medium & Long wave Spectrum



Nu-NRG = No Visible Light

Nu-NRG = More Surface space for heat gain

HOW DOES IT WORK



Modular & Scalable with special design features.

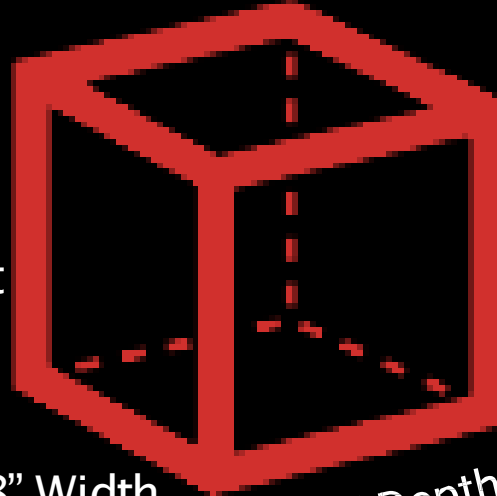
More efficient design and easy to install in tight spaces with a 0" clearance install rating.

Solar/Renewable Chamber Available!

18" Height

18" Width

24" Depth



HOW DOES IT WORK



Recapture air gap



Additional Special design features.

Double wall cabinet, negative pressure in the cabinet allows to recapture escaping heat through the sides of the furnace.

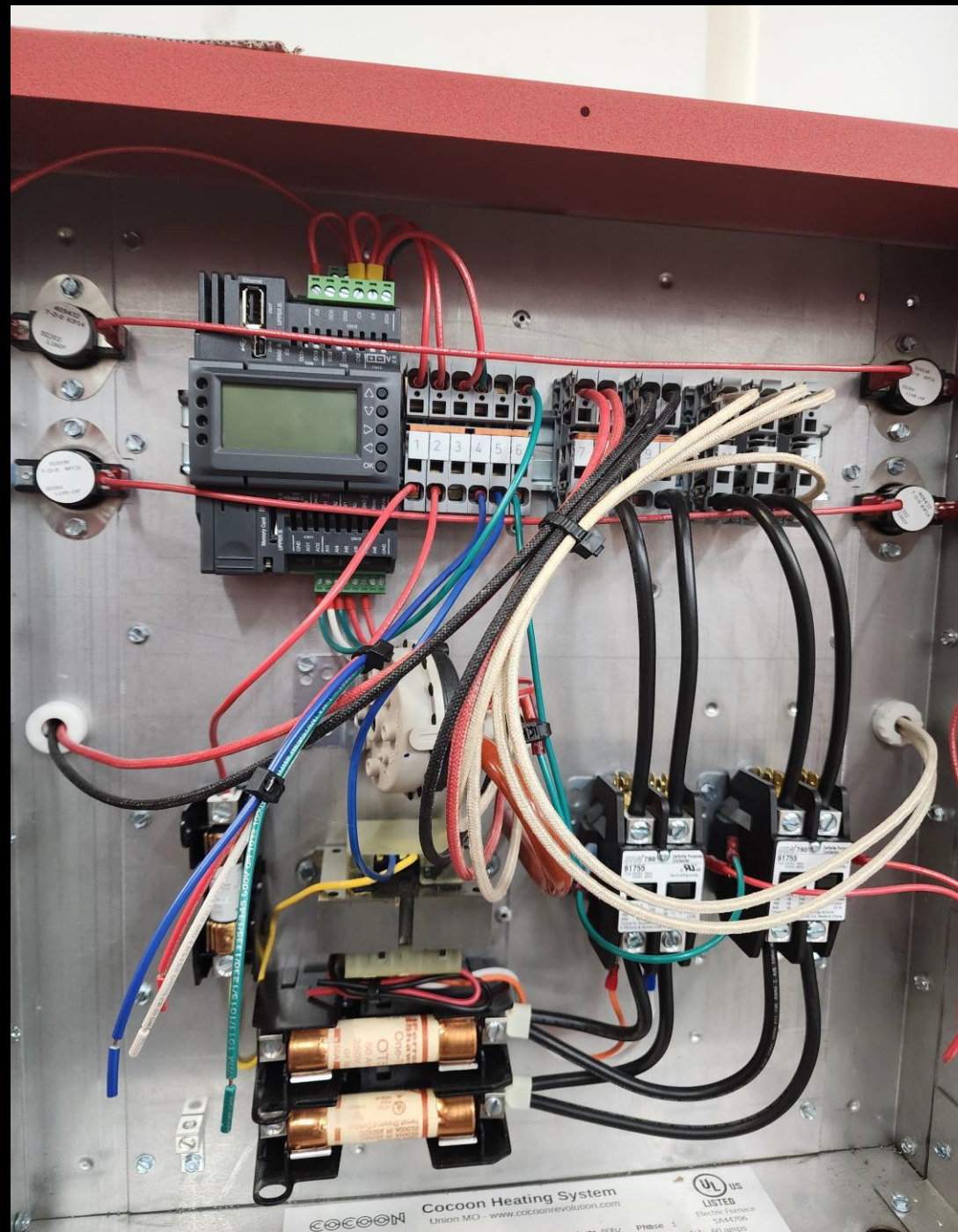


HOW DOES IT WORK



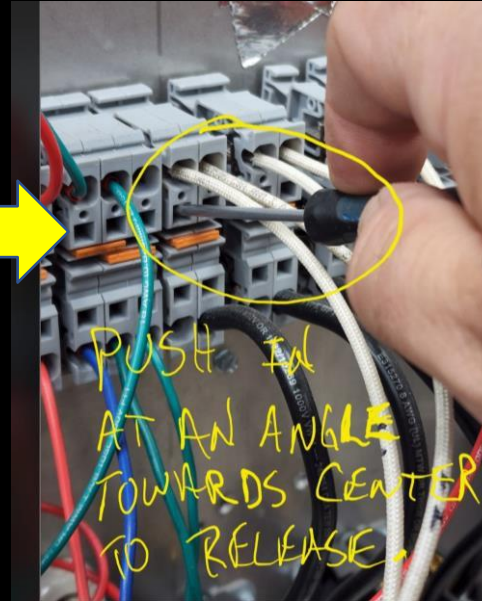
Controls and Control Algorithms

- Numbered terminal blocks for easy identification.
- Color coded wires for easy identification.
- Dual chamber safety limits.
- Din rail mounted components for quick access.
- Smart screen for easy diagnostics.

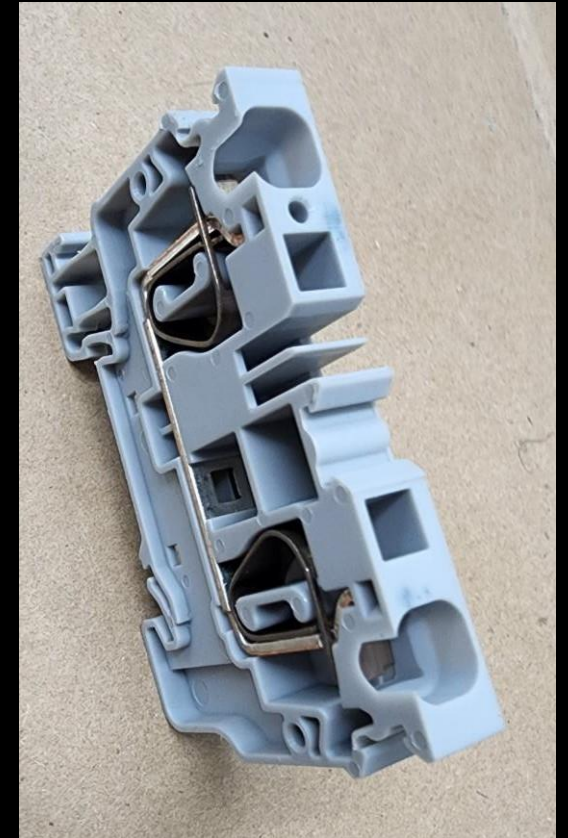
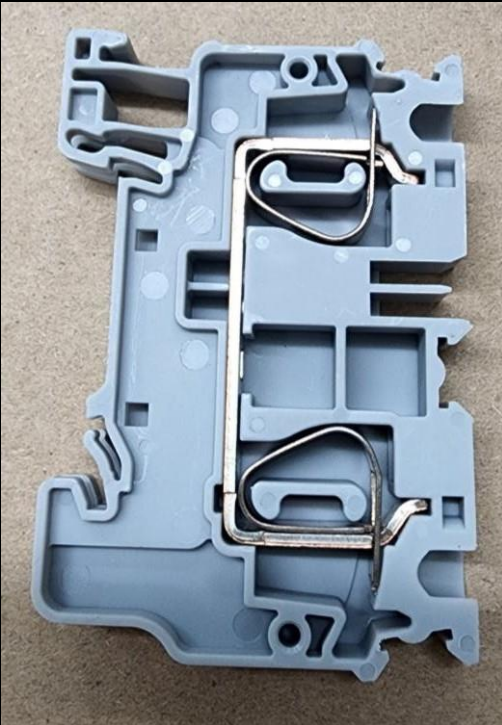
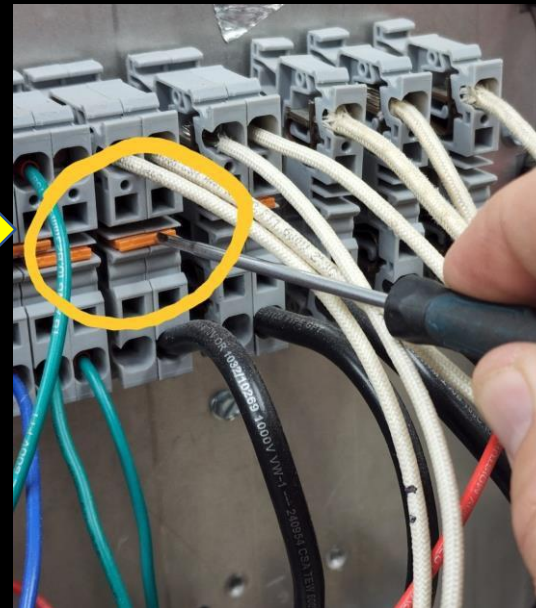


HOW DOES IT WORK

Wire Release
Push in at an
angle towards
center to release.
Wire pull stress
test is 250lbs.



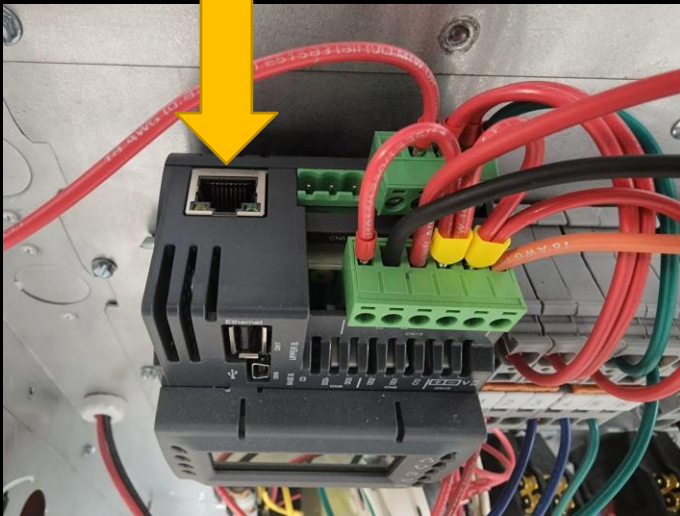
Jumpers for
terminal blocks



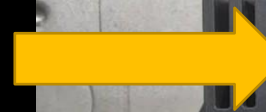
Terminal Blocks

HOW DOES IT WORK

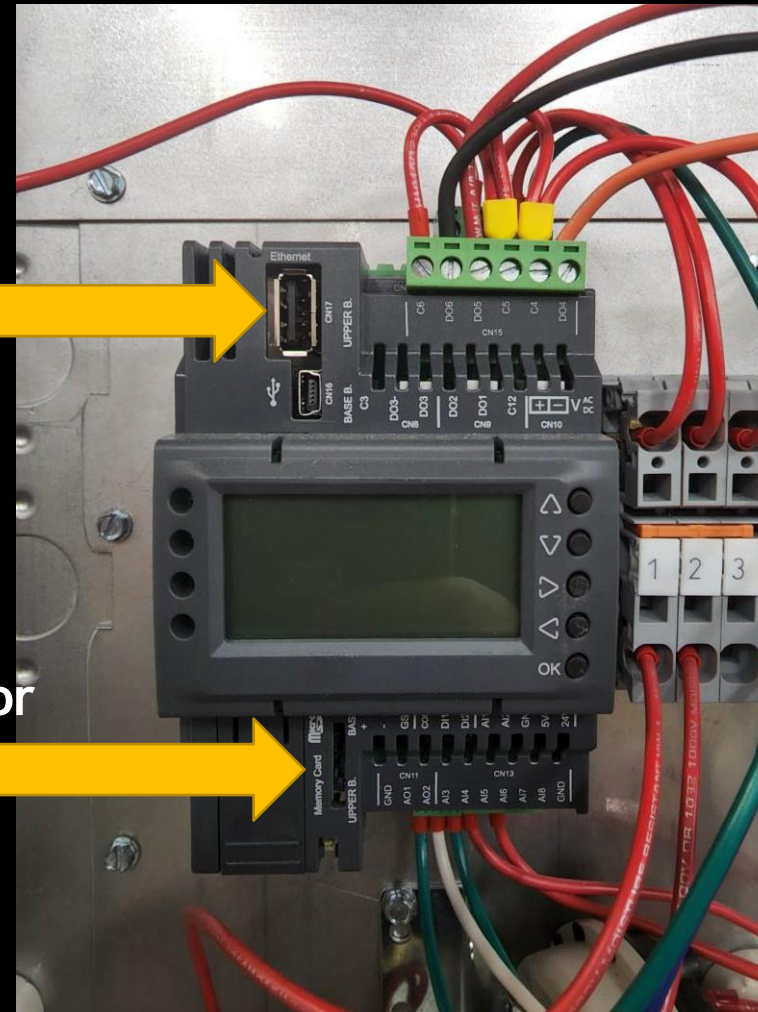
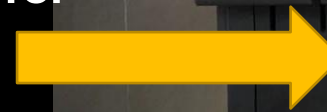
Cat5 connection for B.M.S. systems



USB connection



Micro SD card for Data Logging



Benefits of the smart relay
Modicon M172

HOW DOES IT WORK

All fan speeds are 24volt

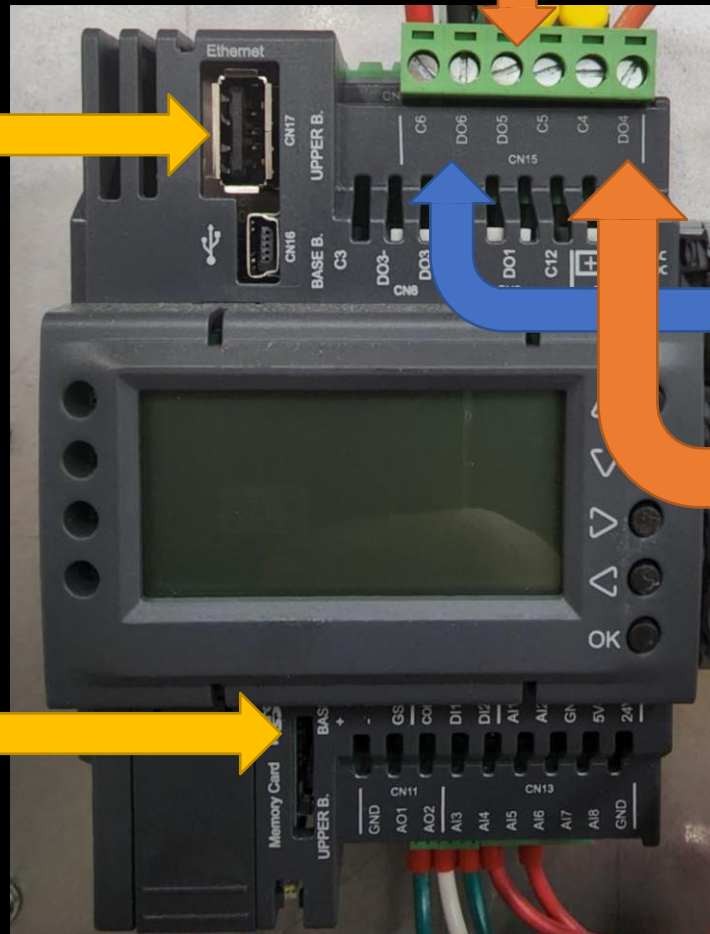
USB

DO5
Primary
Heating
speed

DO6
High speed
Fan/cooling

DO4
Heating
cooldown

Data
Logging
Micro SD
Card



Navigating the menu on the
Nu-NRG controller & fan speeds



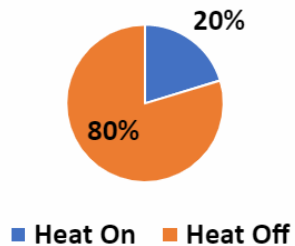
HOW DOES IT WORK



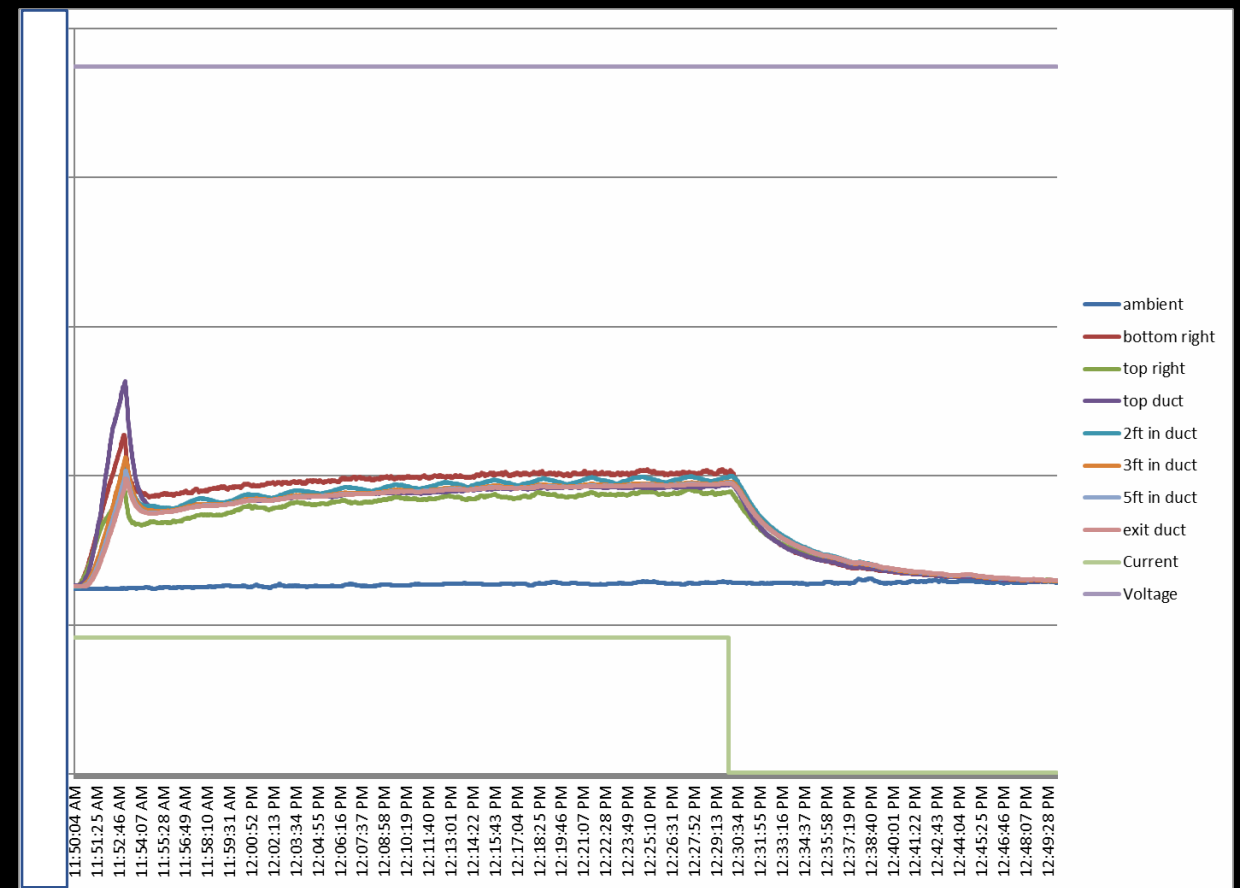
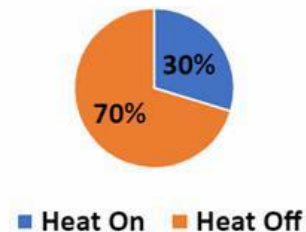
Nu-NRG Efficiency curve and effects on the duty cycles

- Our furnace continues to get hotter the longer it runs.
- Minimal start up time compared to the Cooldown time.
- The unique operation fo the furnace has a direct effect on the comfort of the space.

Heat Run Time



Heat Run Time



Start up

Run cycle
Call for heat present

Cool Down

HOW DOES IT WORK

- How Thermal Mass effects Comfort



Comfort Curve



The comfort curve is more of a wave than peaks and valley.

- More air changes per hour = better air quality.
- Less temperature swings in the home
- Duct stays at a warmer temperature on next duty cycle



HOW DOES IT WORK



Compacted Series.

Therm-1500
Therm-1800
18Wx24Dx36H

-The compacted Series is good for small homes/spaces attic installs or low ceiling height. Customizable BTU 0-30K or 0-80K



2000 Series.

Therm-2000
Therm-2900
18Wx24Dx52H

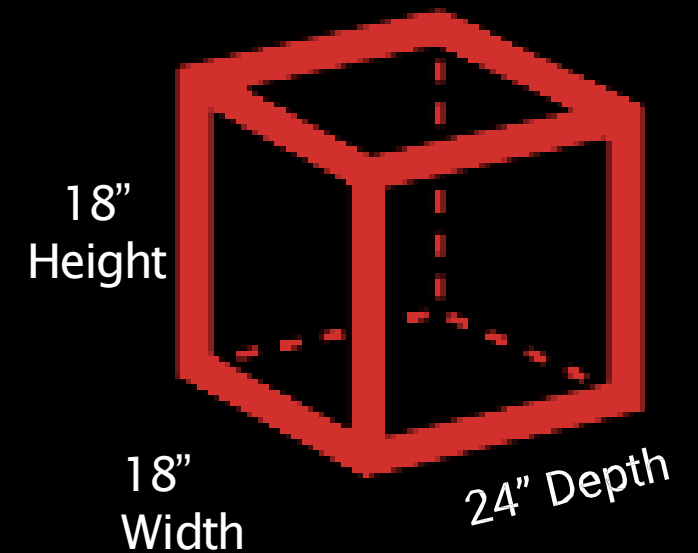
-The 2000 Series is good for small-medium sized homes. Customizable BTU 0-80K or 0-110K



3000 Series.

Therm-3000
Therm-3800

-The 3000 Series is good for large sized homes. Customizable BTU 0-110K or 0-160K



Installation

Side walls of blower cabinet can be cut out for return.



If side wall is cut, pan the bottom to stop unwanted air leakage.



No side cutting necessary if basement ceiling height is tall enough.



Nu-NRG/Unico



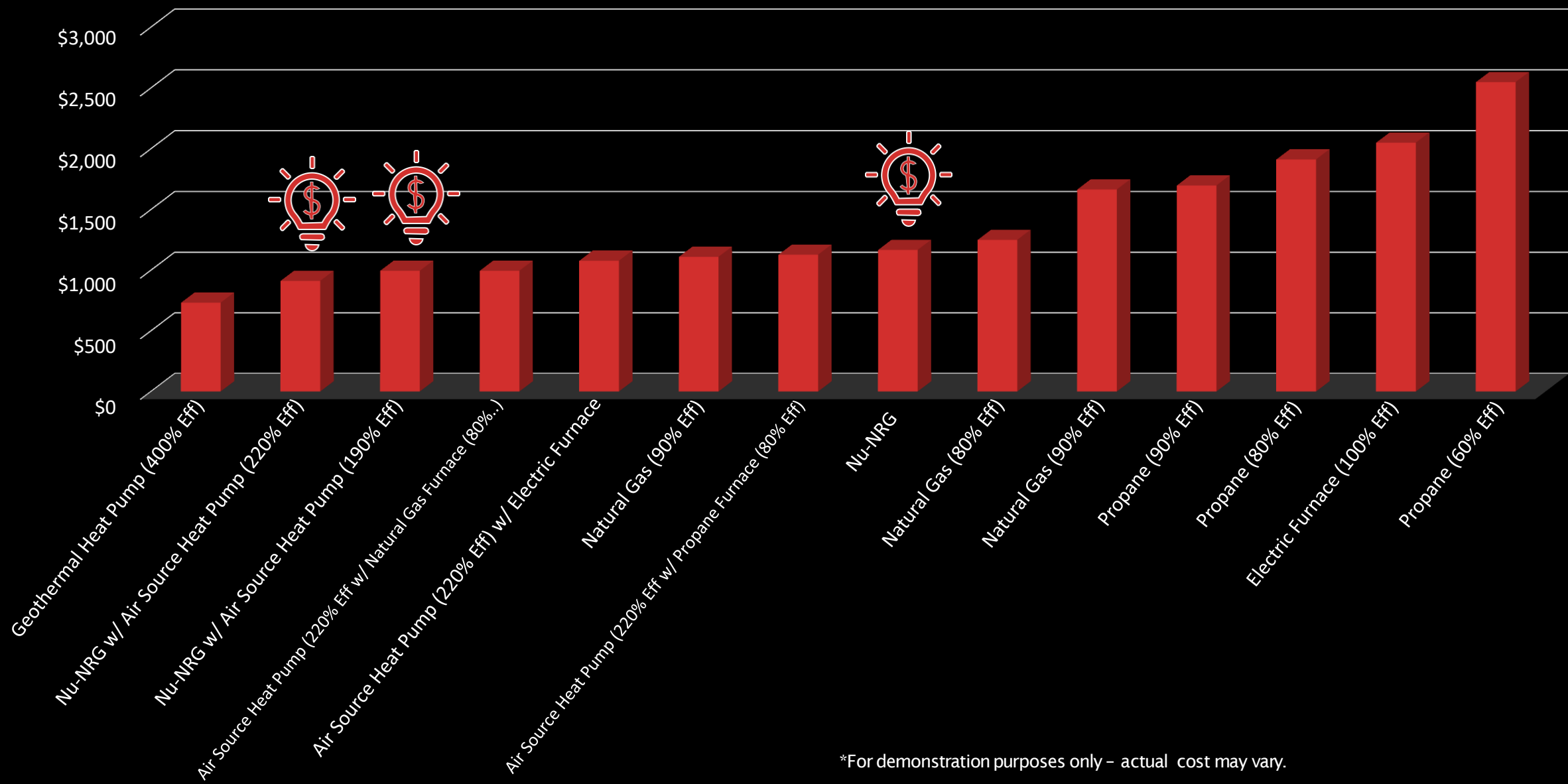
Nu-NRG
Downflow with
Unico vary-
speed blower.



Nu-NRG
Downflow with
Unico single
speed.



COST COMPARISON



*For demonstration purposes only – actual cost may vary.

BENEFITS OF Nu-NRG



- More consistent, comfortable heat
- Quieter operation
- Better humidity control
- Longer life expectancy
- Simple to install, operate, and troubleshoot
- 100% efficient



- Safer - No carbon monoxide or flammable gases
- Programmable controller with BIM capable
- Quicker to install
- Less Maintenance
- More economical repair parts



- Off-grid, grid-tied, or hybrid power
- Consistent cost to run - less fluctuation than gas prices
- Cleaner & less polluting than gas heating
- No fossil fuels
- Super efficient variable speed motor



CONTRACTOR PERKS

- ★ Made in the USA
- ★ More Attention
- ★ A True Partner – Boosting Your Reputation
- ★ 1st to Market Revolutionary Product
- ★ Better Margins
- ★ 10 Year Warranty

