

EC Motor

To include EC motors on the furnace air handler as a retro-fit, or part of a new furnace install, this User Defined Measure must be added to your library. The Energy Savings have been predetermined and must be used as they appear in the examples below. The Cost per unit would need to reflect the pricing found in your service area. If the EC motor is installed on a pre-existing furnace, the motor itself would have a parts warranty. If it is installed as part of a furnace replacement it would be included under the furnace parts and labor warranty. It should come installed in the furnace from the manufacturer. The cost of the EC Motor upgrade should be deducted from the total cost of the furnace installation that is entered into the furnace tab.

Annual Energy Savings: Homes with Central AC: 248 kWh Annual Energy Savings, Homes without Central AC: 170 kWh.

❖ EC Motor Upgrade for New Furnaces

The screenshot shows the 'Setup Library' window with the 'Library Measures' tab selected. The 'Measure Name' field is highlighted with a red box and contains the text 'EC motor upgrade'. Other fields include 'MeasureType' set to 'HVAC Systems', 'Energy Savings' set to 'Estimated', 'Units' set to 'kWh', 'Amount' set to '248', and 'Life (yr)' set to '20'. The 'Materials/Labor Details' table shows two rows: 'Heating Equipment' with a quantity of 1.00 and a unit cost of 500.00, and 'EC motor upgrade' with a quantity of 1.00 and a unit cost of 0.00. The 'MEASURES' section at the bottom shows 6 of 116 measures listed.

Type	Copy Supply	Description	Qty	Units	\$/Uni	Comment
Heating Equipment		EC motor upgrade	1.00		500.00	
*		EC motor upgrade	1.00		0.00	

EC Motor

❖ EC Motor Retro-fit for Existing Furnaces

Setup Library

Library [redacted] References

Setup Library Information | Key Parameters | Fuel Costs (15) | Fuel Price Indices | Library Measures | User Defined Measures (66) | NEAT Insulation Types

Measure # [redacted] Active Include In SIR Energy Savings Estimated

MeasureType HVAC Systems

Measure Name EC motor - retro-fit

Units kWh

Amount 248

Default Contractor/Crew [redacted]

Fuel Saved Electricity

Life (yr) 20

Available for Use In Site Built Mobile Home

Type	Copy Supply	Description	Qty	Units	\$/Unit	Comment
Heating Equipment		EC motor upgrade	1.00		500.00	
*		Labor	1.00		200.00	

Record: 14 | 2 of 2 | No Filter | Search

MEASURES

by Description [redacted] of 116

VIEW All User Defined Measures

NEAT Audit

Audit Name [redacted] Alt. Client ID [redacted]

Audit Information | Status | Shell | Heating (1) | Cooling (0) | Ducts/Infiltration | Baseloads | Health & Safety | Itemized Costs (7) | Utility Bills (0) | Measures (15)

Copy from User Defined Measures [redacted]

Copy from Library Health and Safety Measures [redacted]

Referenced User Defined Measure ECM Motor Upgrade

Measure Name EC motor - retro-fit

Cost (\$) 700 Include in SIR

Material EC motor upgrade

Annual Energy Savings 248 Units kWh

Life (yr) 20

Fuel Saved Electricity

Description	Qty	Unit Cost
EC motor upgrade	1.00	700.00

ITEMIZED COST

by Description [redacted] of 7

The measure life (yr) will be changed before running the audit to reflect the likely lifespan of the existing furnace (and therefore the replacement motor). This is the only part of the measure that will be unique for each job. The life (yr) of the existing furnace will be 20 years minus the actual age of the furnace. For example, an 8 year old furnace will have a life of 20 years minus 8 years = 12 years. Furnaces 20 years or older that do not qualify for replacement do not need to be evaluated for an EC motor retrofit. Any other reason preventing the retrofit of an EC motor must be documented in the comments section of the WA furnace tab.