

2026-2027 (Aug 2026) HVAC COST SHEET

Minimum Efficiency Requirements

Replacement mechanical equipment funded by DOE must meet or exceed the minimum efficiency requirements set forth by Energy Star (or equivalent) listed below. Where conditions or financial considerations prohibit or prevent meeting these efficiency standards, a field waiver from KHRC may be requested *prior* to installation.

The most efficient equipment available shall be considered.

- Forced air furnace: 95% AFUE
- Mobile home forced air: 95% AFUE
- Exterior forced air package unit: 80% AFUE/≥15.2 SEER2/ ≥12.0 EER2
- Wall unit, direct vent or top vent with fan: 76% AFUE
- Console, direct vent: 80% AFUE
- Console, fan type: 76% AFUE (H&S only)
- Boilers, hot water/steam (gas): 90% AFUE
- Boilers (oil): 87% AFUE
- Electric water heater: 2.20+ UEF
- Gas water heater: 0.81+ UEF
- Split System Ducted Heat Pump: ≥ 8.1 HSPF2/ ≥15.2 SEER2
- Heat Pump PTAC: ≥ 8.1 HSPF2/ ≥15.2 SEER2
- Central Air Conditioning: ≥15.2 SEER2/ ≥12.0 EER2
- Ductless or Mini-Split Heat Pump: ≥ 8.5 HSPF2/ ≥15.2 SEER2

Ducted heat pumps and PTAC's shall have an electrical resistance backup heat strip. Ductless or mini-split heat pumps do not currently have the option to have built in back up electric resistance heat. For this reason, auditors will need to plan for and educate clients on suitable back up heating sources when the heat pump is unable to provide sufficient heating.

Minimum Efficiency Requirements CON'T.

Where mechanical replacements are funded by non-Federal funds, equipment must meet or exceed the following minimum efficiencies requirements listed below. Where conditions or financial considerations prohibit or prevent meeting these efficiency standards, a field waiver from KHRC may be requested prior to installation.

The most efficient equipment available shall be considered.

- Forced air furnace: 92% AFUE
- Mobile home forced air: 92% AFUE
- Exterior forced air package unit: 80% AFUE/14 SEER (13.4 SEER2 equivalent)
- Wall unit, direct vent or top vent with fan: 76% AFUE
- Console, direct vent: 80% AFUE
- Console, fan type: 76% AFUE (H&S only)
- Boiler, hot water: 90%
- Boiler, steam: 90%
- Electric water heater: 0.91 EF (.92 UEF)
- Gas water heater: 0.59 EF (.57 UEF)
- Split System Ducted Heat Pump: 15 SEER (14.3 SEER2)/8.8 HSPF (7.5 HSPF2)
- Heat Pump PTAC: COP 3.0/EER 9.7 or greater (approx. 10.2 HSPF)
- Central Air Conditioning: 14 SEER (13.4 SEER2 equivalent)
- Ductless or Mini-Split Heat Pump: 10 HSPF (8.5 HSPF2) or greater, 15 SEER/SEER2 or greater

You are not required to bid on every size of equipment.

If a particular size is not available to you,
mark box as NB(No Bid).

Equipment not listed will be bid on case by case basis.

HVAC SERVICES

A basic forced air furnace installation includes switch-out of existing unit, up to 30 lineal ft. of wiring, gas piping and (2) 30 lineal ft. runs of PVC flue and a new digital programmable thermostat with manual option. A higher efficiency unit may be specified by the agency. Permits where applicable. All installations will be completed according to manufactures specifications, following recognized industry practices and procedures and complying with all national and local codes. In instances where there is a question whether code can be met, this will be worked out with local code enforcement and NCRPC notified prior to installation. If local inspection is required, this shall be done prior to requesting payment. All installations will include a warranty of one year that effectively starts the day of installation. All previously existing equipment and debris will be hauled off, cleaned up, and properly disposed of. All penetrations associated with the installation will be sealed with the approved material necessary.

A basic split system A/C installation includes switch out of existing unit specified by NCRPC. Includes new, matching cased coil, vinyl A/C pad, disconnect, whip, 25 lineal ft. of line set, refrigerant recovery, refrigerant with locking caps, and permits where applicable. All installations will be completed according to manufactures specifications, following recognized industry practices and procedures and complying with all national and local codes. In instances where there is a question whether code can be met, this will be worked out with local code enforcement and NCRPC notified prior to installation. If local inspection is required, this shall be done prior to requesting payment. All installations will include a warranty of one year that effectively starts the day of installation. All previously existing equipment and debris will be hauled off, cleaned up, and properly disposed of. Freon is to be reclaimed. All penetrations associated with the installation will be sealed with approved material necessary.

Clients shall be educated on how new equipment operates by installer.

If existing A/C is not compatible with requested furnace, we will provide you with the necessary information and documentation prior to installation of HVAC equipment. NCRPC will then provide you with written guidance on how to proceed.

Dedication of electrical service is NOT included with basic installation. HVAC contractor must arrange for necessary electrical services to be completed. Copies of original invoices may be required upon request by agency. If electrical is substandard and not able to handle a new unit (central heat or air) or cannot be installed on a dedicated breaker, the contractor will provide a quote to NCRPC for upgrade of service prior to installation of HVAC equipment.

A Basic Heating Unit Clean and Tune Includes running the system and making sure the system is fully functional. Clean the burner compartment by removing dust and debris, vacuum and wipe all surfaces. Check heat exchanger for cracks, clean flame sensor, check hot surface igniter for cracks, check and clean thermocouple, check for any burn marks and gas leaks, remove and clean blower motor and replace filter. Test CO levels in the flue and adjust for optimum performance. Check temperature rise, fan on and fan off temperatures. Adjust fan off to 90 degrees, if possible. This is the protocol for forced air furnaces. Not all steps apply to console, wall or direct vent furnaces. Any hazards or repairs needed beyond this scope of work should be reported to NCRPC and the inspector on how to proceed.

We will provide you with as much information regarding each installation as possible on each work order. On multi-family projects you will have the opportunity to evaluate the property prior to the start of each project.

A Basic AC System Clean and Tune Includes running the system, making sure the system is fully functional and operating efficiently with correct refrigerant charge. Remove and clean blower motor and replace filter. Clean the evaporator coils and condenser coils. Ensure refrigerant lines are properly insulated. Inspect Acoil pan and clean the condensate drain line to prevent clogs that may cause water damage or humidity issues. Check condensation pump operation and condition if present. Test all safety switches and system controls to confirm they're functioning properly. Inspect electrical connections and components for safety and reliability. Photo documentation of hidden serviced parts shall accompany billing invoice. Any hazards or repairs needed beyond this scope of work should be reported to NCRPC and the inspector on how to proceed.

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CONSOLE HEATER INSTALL		UNIT	MATERIAL	LABOR	TOTAL
Remove existing room console heater, and install a replacement 35,000 BTU rated input console heater with blower.		EA			
Remove existing room console heater, and install a replacement 50,000 BTU rated input console heater with blower.		EA			
Install Fire Rated Floor Board for Console Room Heater		EA			
Install a 40,000 BTU rated input single sided counter flow direct vent wall furnace with blower assembly.		EA			
Install a 62,000 BTU rated input single sided counter flow direct vent wall furnace with blower assembly.		EA			
WALL FURNACE INSTALL		UNIT	MATERIALS	LABOR	TOTAL
Remove existing single sided wall furnace, and install a 35,000 BTU rated input replacement single-sided wall furnace with blower.		EA			
Remove existing single sided wall furnace, and install a 50,000 BTU rated input replacement single-sided wall furnace with blower.		EA			
Labor cost to make an opening in a wall to install a single-sided wall furnace.		EA	XXX		
Remove existing dual-sided 35,000 BTU rated input wall furnace, and install replacement dual-sided wall furnace with blower.		EA			
Remove existing dual-sided 50,000 BTU rated input wall furnace, and install replacement dual-sided wall furnace with blower.		EA			
Labor cost to make an opening in a wall to install a dual-sided wall furnace.		EA	XXX		
FORCED AIR FURNACE INSTALL - 92% + AFUE		UNIT	MATERIALS	LABOR	TOTAL
Remove existing forced air furnace, and attach new unit to existing ductwork.					
All seams in the plenum and the return air duct work where it enters the cabinet must be sealed with mastic or caulking.					
40,000 BTU	EA				
60,000 BTU	EA				
80,000 BTU	EA				
100,000 BTU	EA				
FORCED AIR FURNACE INSTALL - 95% + AFUE		UNIT	MATERIALS	LABOR	TOTAL
Remove existing forced air furnace, and attach new unit to existing ductwork.					
All seams in the plenum and the return air duct work where it enters the cabinet must be sealed with mastic or caulking.					
40,000 BTU	EA				
60,000 BTU	EA				
80,000 BTU	EA				
100,000 BTU	EA				
FORCED AIR FURNACE INSTALL - 95% + AFUE DUAL STAGE		UNIT	MATERIALS	LABOR	TOTAL
Remove existing forced air furnace, and attach new DUAL STAGE unit to existing ductwork.					
All seams in the plenum and the return air duct work where it enters the cabinet must be sealed with mastic, or caulking.					
40,000 BTU	EA				
60,000 BTU	EA				
80,000 BTU	EA				
100,000 BTU	EA				

CENTRAL AC INSTALL - >15.2 SEER2(16 SEER) / >12.0 EER2		UNIT	MATERIALS	LABOR	TOTAL
Remove existing central AC and install a new >15.2 SEER2/>12.0 EER2 central AC to new or existing furnace. All seams in the plenum and the return air duct work must be sealed with mastic or caulking.					
1.5 TON BTU OUTPUT COOLING	EA				
2 TON BTU OUTPUT COOLING	EA				
2.5 TON BTU OUTPUT COOLING	EA				
3 TON BTU OUTPUT COOLING	EA				
3.5 TON BTU OUTPUT COOLING	EA				
4 TON BTU OUTPUT COOLING	EA				
CENTRAL AC INSTALL - >13.4 SEER2(14SEER)		UNIT	MATERIALS	LABOR	TOTAL
Remove existing central AC and install a new >13.4 SEER2(14SEER) central AC to new or existing furnace. All seams in the plenum and the return air duct work must be sealed with mastic or caulking.					
1.5 TON BTU OUTPUT COOLING	EA				
2 TON BTU OUTPUT COOLING	EA				
2.5 TON BTU OUTPUT COOLING	EA				
3 TON BTU OUTPUT COOLING	EA				
3.5 TON BTU OUTPUT COOLING	EA				
4 TON BTU OUTPUT COOLING	EA				
PACKAGE UNIT INSTALL - 80%+ AFUE / >15.2 SEER2 / >12.0 EER2		UNIT	MATERIALS	LABOR	TOTAL
Remove existing outside package unit, attach new 80%+ AFUE/>15.2 SEER2/>12.0 EER2 to existing ductwork, with all required electrical. All seams in plenum and return air ductwork where it enters the package cabinet and where it enters the crawl space area must be sealed with water resistant mastic or water resistant caulking.					
40,000 Heating input and 2 ton Cooling BTUH	EA				
40,000 Heating input and 2.5 ton Cooling BTUH	EA				
60,000 Heating input and 2.5 ton Cooling BTUH	EA				
60,000 Heating input and 3 ton Cooling BTUH	EA				
80,000 Heating input and 3 ton Cooling BTUH	EA				
80,000 Heating input and 3.5 ton Cooling BTUH	EA				

PACKAGE UNIT INSTALL - 80%+ AFUE / >13.4 SEER2		UNIT	MATERIALS	LABOR	TOTAL
Remove existing outside package unit, attach new 80%+ AFUE/>13.4 SEER2 to existing ductwork, with all required electrical. All seams in plenum and return air ductwork where it enters the package cabinet and where it enters the crawl space area must be sealed with water resistant mastic or water resistant caulking.					
40,000 Heating input and 2 ton Cooling BTUH	EA				
40,000 Heating input and 2.5 ton Cooling BTUH	EA				
60,000 Heating input and 2.5 ton Cooling BTUH	EA				
60,000 Heating input and 3 ton Cooling BTUH	EA				
80,000 Heating input and 3 ton Cooling BTUH	EA				
80,000 Heating input and 3.5 ton Cooling BTUH	EA				
MOBILE HOME FORCED AIR FURNACE INSTALL - 95%+ AFUE		UNIT	MATERIALS	LABOR	TOTAL
Remove existing mobile home forced air furnace, and attach new mobile home application 95%+ AFUE unit (with new roof jack kit) to existing ductwork. All seams in the plenum where it enters the cabinet must be sealed with mastic or caulking.					
50,000 BTU	EA				
60,000 BTU	EA				
75,000 BTU	EA				
80,000 BTU	EA				
MOBILE HOME FORCED AIR FURNACE INSTALL - 92%+ AFUE		UNIT	MATERIALS	LABOR	TOTAL
Remove existing mobile home forced air furnace, and attach new mobile home application 92%+ AFUE unit (with new roof jack kit) to existing ductwork. All seams in the plenum where it enters the cabinet must be sealed with mastic or caulking.					
50,000 BTU	EA				
60,000 BTU	EA				
75,000 BTU	EA				
80,000 BTU	EA				
Cost to rebuild plenum and replace flooring under mobile home furnace.	EA				

DISTRIBUTION	UNIT	MATERIALS	LABOR	TOTAL
Duct Insulation R-8 wrap	P/SqFt			
Seal Ducts	P/LF			
Seal Trunkline	P/LF			
Install Ductwork- New R-8 Insulated 6" Flex Duct	P/LF			
Install Ductwork- New R-8 Insulated, Sealed 6" Rigid Duct	P/LF			
Install Ductwork New- Uninsulated 6" Rigid Duct	P/LF			
Install Ductwork New- Uninsulated 6" Rigid Elbow	P/Ea			
Replace Furnace Filter	P/Ea			
Install Filter Slot Cover	P/Ea			
Ductwork Repair-Insulated Rigid Duct	P/LF			
Ductwork Repair- Uninsulated Rigid Duct	P/LF			
Ductwork Repair-Insulated Flex Duct	P/LF			
Repair/Modify Duct System	P/Hr			

WATER HEATER INSTALL	UNIT	MATERIALS	LABOR	TOTAL
Remove existing Water Heater, Replace with 40 gallon ENERGY STAR CERTIFIED or Equivalent Water Heater **Price to include any modifications to venting or electrical**				
Site built home .81+ UEF GAS/PROPANE	EA			
Site built home .81+ UEF GAS/PROPANE POWERVENT	EA			
Site built home 2.20+UEF Electric	EA			
Mobile Home .81+ UEF GAS/PROPANE W/New Roof Jack Kit	EA			
Mobile Home 2.20+UEF ELECTRIC	EA			
Replace water heater compartment flooring in a mobile home with ¾" flooring grade plywood, and caulk all the seams of the patch. Price is per square foot.	SF			

WATER HEATER INSTALL	UNIT	MATERIALS	LABOR	TOTAL
Remove existing Water Heater, Replace with 40 gallon Water Heater **Price to include any modifications to venting or electrical**				
Site built home .59+ EF(.57 UEF) GAS/PROPANE	EA			
Site built home .91+ EF(.92 UEF) Electric	EA			
Mobile Home .59+ (.57 UEF) EF GAS/PROPANE W/New Roof Jack Kit	EA			
Mobile Home .91+ EF(.92 UEF) ELECTRIC	EA			

MECHANICAL VENTILATION	UNIT	MATERIALS	LABOR	TOTAL
Replace an existing bathroom exhaust fan. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. Fan to be supplied by contractor . Fan specs: Min.50 cfm, Max.2 Sones.	EA			
Install new bathroom exhaust fan. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. A switch leg will need to be installed. Basic installation will include up to 25'of added wiring and 25' of ducting. Fan to be supplied by contractor . Min.50 cfm, Max.2 Sones.	EA			
Additional charge for fan/light combo.	EA			
Replace an existing bathroom exhaust fan with an ASHRAE fan. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. Fan to be wired to run continuous but ramp up when switch on. Fan will be supplied by NCRPC.	EA			
Install new bathroom exhaust with ASHRAE fan. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. A switch leg will need to be installed. Basic installation will include up to 25'of added wiring and 25' of ducting. Fan to be wired to run continuous but ramp up when switch on. Fan will be supplied by NCRPC.	EA			
Replace an existing kitchen range hood. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. Range hood to be supplied by contractor , based on standard 30" white w/light. Min.100 cfm, Max.3 Sones.	EA			
Install new kitchen range hood. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. Basic installation will include up to 25'of added wiring and 25' of ducting. Range hood to be supplied by contractor , based on standard 30" white w/light. Min.100 cfm, Max.3 Sones.	EA			
Install new stand alone ASHRAE fan. Installation to include ducting fan to the outside following all ASHRAE 62.2 standards and SWS. Basic installation will include up to 25'of added wiring and 25' of ducting. Fan will be supplied by NCRPC.	EA			

FLUE/CHIMNEY	UNIT	MATERIALS	LABOR	TOTAL
Remove existing flue pipe, replace with new Double Wall flue pipe, boot and cap				
3" double wall flue pipe, boot and cap	LF			
4" double wall flue pipe, boot and cap	LF			
5" double wall flue pipe, boot and cap	LF			
6" double wall flue pipe, boot and cap	LF			
Round oval flue pipe, boot and cap	LF			
Additional charge if no existing flue pipe exists.	EA			
Install 3" x 25' flexible chimney liner kit.	EA			
Install 4" x 25' flexible chimney liner kit.	EA			
Additional charge for liner installed in 2 story house.	EA			
Install collar around a flue pipe penetration, high temp caulk to seal.	EA			
Single Wall Flue/Elbow- 26 Ga.	EA			
3" 26 Ga. Single Wall Flue	LF			
4" 26 Ga. Single Wall Flue	LF			
5" 26 Ga. Single Wall Flue	LF			
6" 26 Ga. Single Wall Flue	LF			
3" 26 Ga. Single Wall Elbow	EA			
4" 26 Ga. Single Wall Elbow	EA			
5" 26 Ga. Single Wall Elbow	EA			
6" 26 Ga. Single Wall Elbow	EA			

OTHER ITEMS	UNIT	MATERIALS	LABOR	TOTAL
Clean and Tune Forced Air Furnace.	EA			
Clean and Tune Console, Wall or Direct Vent Furnace.	EA			
Clean and Tune Forced Air AC.	EA			
Clean Existing Bath Fan.	EA			
Clean Existing Kitchen Fan.	EA			
Install Digital Programmable Thermostat with Manual Option	EA			
Install Heat Only Digital Programmable Thermostat with Manual Option	EA			
Cost to build a 2" x 4" CCA-treated lumber base (for installations in basement, cellars, only)	EA			
Cost for exterior pad to install package unit.	EA			
Install Furnace Switch and Fuse Holder	EA			
Install furnace filter rack	EA			
Install furnace filter base	EA			
Install filter material for mobile home heating unit, per each.	EA			
Installation Condensate pump, plumbed to drain.	EA			
Replace Condensate pump	EA			
Additional linear foot of insulated duct, per foot	LF			
Additional linear foot of insulated flex duct, per foot	LF			
Frost flex per lineal foot.	LF			
Cost per lineal ft. over the basic installation of Wiring	LF			
Cost per lineal ft. over the basic installation of Gas piping	LF			
Cost per lineal ft. over the basic installation of PVC Pipe	LF			
Line set over 25ft per linear foot	LF			
Install water heater pan	EA			

OTHER ITEMS CON'T.	UNIT	MATERIALS	LABOR	TOTAL
Cap ½ or ¾ gas line	EA			
Remove gas log or unvented wall heater and cap gas line	EA			
Install a gas line shut off valve.	EA			
Install a gas drip leg.	EA			
Install new fitting on gas supply line to stop gas leak, per each.	EA			
Remove copper tubing and replace with approved black pipe, per lineal foot.	LF			
Remove copper tubing and replace UL approved flexible gas line, per lineal foot.	LF			
Install 12" X 6" metal combustion air grills, per grill.	EA			
Install 10" X 10" metal combustion air grills, per grill.	EA			
Install 14" X 10" metal combustion air grills, per grill.	EA			
Install a new dryer vent kit with a damper, including new semi rigid hose and clamps.	EA			
Installation of dedicated 110 v circuit	EA			
Installation of dedicated 220 v circuit	EA			
Rate per hour	HR			
Trip Charge for non-bid services	EA			

Note: Additional hours cannot be charged for picking up inventory.

Submission of a signed Bid(s) is acknowledgment and acceptance of all terms and conditions of the solicitation. NCRPC reserves the right to reject all Bids.

Contracting Firm_____

Firm

Signature_____

Date: _____

BID ZONE MARKUP

CONTRACTING FIRM: _____

LABEL WHICH ZONE IS YOUR HOME ZONE

GIVE A PERCENT MARKUP FOR ALL OTHER ZONES

IF YOU WOULD LIKE TO TURN IN A BIDSHEET FOR MULTIPLE ZONES, YOU CAN. LABEL ZONE "HAS OWN BID SHEET"

ZONE 1	
County Name:	LABEL HOME, MARK-UP, OR HAS OWN BID SHEET
CHEYENNE	
DECATUR	
GOVE	
GREELEY	
LANE	
LOGAN	
RAWLINS	
SHERIDAN	
SHERMAN	
THOMAS	
WALLACE	
WICHITA	

ZONE 2		
County Name:	County Name:	LABEL HOME, MARK- UP, OR HAS OWN BID SHEET
BARTON	NORTON	
ELLIS	OSBORNE	
ELLSWORTH	PHILLIPS	
GRAHAM	ROOKS	
JEWELL	RUSH	
LINCOLN	RUSSELL	
MITCHELL	SMITH	
NESS	TREGO	

ZONE 3	
County Name:	LABEL HOME, MARK-UP, OR HAS OWN BID SHEET
REPUBLIC	
CLOUD	
OTTAWA	
SALINE	
WASHINGTON	
CLAY	
DICKINSON	

ZONE 4	
County Name:	LABEL HOME, MARK- UP, OR HAS OWN BID SHEET
MARSHALL	
RILEY	
GEARY	
POTTAWATOMIE	
WABAUNSEE	
Montgomery	
Neosho	

Contractor Signature: _____

Date: _____