

CCRPC 2019 Mechanical Package Descriptions

All package descriptions in this document are meant to convey work-scope, and may not reflect the most recent programmatic guidelines. Refer to the 2018 IHWAP Field Standards manual for more detailed guidance on the current minimal

#	MEASURE	DESCRIPTION
HVAC SYSTEMS		
1	Replace Gas/LP Furnace 95% Universal Furnace	Package includes labor, material, and permit fee (if necessary) to replace an existing Natural Gas, or Propane forced air furnace. If necessary, the contractor will provide and install an LP conversion kit. Includes removal and disposal of existing unit, connection to existing gas line, electrical system, and duct system. If required, package also includes reclamation of Freon, and documented disposal at an EPA certified reclamation facility. Also includes blocking under the cabinet, installation of filters (minimum of MERV 8 required) and the leaving 2 additional filters with the client. New venting material and labor included for intake and exhaust as well as the required flue gas analysis, worst case depressurization testing, and spillage for remaining natural draft appliances. Contractor will test all gas lines and connection for leaks on all gas appliances after completing installation. Installation must be in accordance with local code, NFPA Fuel Gas Code, and the IHWAP Field Standards Manual.
2	Replace Electric Furnace	Package includes labor, material, and permit fee (if necessary) to replace an existing Electric forced air furnace. Includes removal and disposal of existing unit, connection to existing electrical system, and duct system. If required, package also includes reclamation of Freon, and documented disposal at an EPA certified reclamation facility. Also includes the blocking under the cabinet, installation of filters (minimum of MERV 8 required) and the leaving 2 additional filters with the client. Required testing includes flue gas analysis, worst case depressurization testing, and spillage for remaining combustion appliances. Contractor will test all gas lines and connection for leaks on all gas appliances after completing installation. Installation must be in accordance with local code, NFPA 70 and the IHWAP Field Standards Manual.
3	Replace Mobile Home Furnace	Package includes labor, material, and permit fee (if necessary) to replace an existing Natural Gas, or Propane forced air furnace. If necessary, the contractor will provide and install an LP conversion kit. Includes removal and disposal of existing unit, connection to existing gas line, electrical system, and duct system. If required, package also includes reclamation of Freon, and documented disposal at an EPA certified reclamation facility. Also includes blocking under the cabinet, installation of filters (minimum of MERV 8 required) and the leaving 2 additional filters with the client. New venting material and labor included for intake and exhaust as well as the required flue gas analysis, worst case depressurization testing, and spillage for remaining natural draft appliances. Contractor will test all gas lines and connection for leaks on all gas appliances after completing installation. Installation must be in accordance with local code, NFPA Fuel Gas Code, and the IHWAP Field Standards Manual.
4	Replace Mobile Home Furnace Electric	Package includes labor, material, and permit fee (if necessary) to replace an existing Electric forced air furnace. Includes removal and disposal of existing unit, connection to existing electrical system, and duct system. If required, package also includes reclamation of Freon, and documented disposal at an EPA certified reclamation facility. Also includes the blocking under the cabinet, installation of filters (minimum of MERV 8 required) and the leaving 2 additional filters with the client. Required testing includes flue gas analysis, worst case depressurization testing, and spillage for remaining combustion appliances. Contractor will test all gas lines and connection for leaks on all gas appliances after completing installation. Installation must be in accordance with local code, NFPA 70 and the IHWAP Field Standards Manual.
5	Replace Water Boiler 80%	Includes labor, material, and permit fees (if applicable) for replacement of a forced water boiler, removal and disposal of existing heating system, all gas/electrical connections, line connections and venting for appliance. Installation requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to all appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual.

6	Replace Water Boiler 90%	Includes labor, material, and permit fees (if applicable) for replacement of a forced water boiler, removal and disposal of existing heating system, all gas/electrical connections, line connections and venting for appliance. Installation requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to all appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual.
7	Install Heat Pump	Includes labor, material, and permit fees (if applicable) for removal and disposal of existing heating system and installation of new heat pump; all electrical connections, supply/return plenum transitions, line set installation and system charging/leak testing. If necessary, disposal includes reclamation of Freon and certificate of disposal from an EPA certified reclamation facility. Installation must be in accordance with local code, NFPA 70 and the IHWAP Field Standards Manual.
8	Install Electric Baseboard Heater	Includes removal and disposal of existing heating system. Install new baseboard heater which includes electrical connections. Installation must be in accordance with local code and the IHWAP Field Standards manual.
9	Ductless Mini-Split Single Zone	Installation includes inside and outside unit as well as all electrical connection and 25' of line set. Unit must be a minimum of 15 SEER and 8.5 HSPF and Energy Star Rated. Must include a compatible, programmable thermostat. Head will be installed as directed on the work order. Must be installed in accordance with local code and the IHWAP Field Standards Manual.
10	Ductless Mini-Split Dual Zone	Installation includes inside and outside units as well as all electrical connection and 25' of line set. Unit must be a minimum of 15 SEER and 8.5 HSPF and Energy Star Rated. Must include a compatible, programmable thermostat. Head will be installed as directed on the work order. Must be installed in accordance with local code and the IHWAP Field Standards Manual
HVAC CLEANING		
11	Clean and Tune Gas/LP Forced Air Furnace	This procedure requires a safety check on the existing unit to ensure the unit is operational and safe. This procedure requires inspection of the heat exchanger for cracks, venting, gas line, electrical inspection, and testing the unit for proper operation, efficiency and performing adjustments to ensure the unit is operational to its optimal performance when contractor has completed the inspection. The furnace filters (minimum of MERV 8 required) and two replacements. All testing results are recorded on the Contractor Checklist. The Contractor Checklist shall have all the appropriate sections completed with the contractor's signature included. The Cleaning & Tuning not only includes the inspection and testing of the unit, but also includes pulling and cleaning the blower motor, checking the amp draw on electrical elements. However, if the initial inspection reveals a cracked exchanger or other item that results in the unit replacement the Cleaning & Tuning charge is not invoiced. See Section 300 in the IHWAP Field Standards Manual. Requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to all appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual
12	Clean and Tune Gas Boiler	This procedure requires a safety check on the existing unit to ensure the unit is operational and safe. This procedure requires inspection of the heat exchanger for cracks, venting, gas line, electrical inspection, and testing the unit for proper operation, efficiency and performing adjustments to ensure the unit is operational to its optimal performance when contractor has completed the inspection. The furnace filters (minimum of MERV 8 required) and two replacements. All testing results are recorded on the Contractor Checklist. The Contractor Checklist shall have all the appropriate sections completed with the contractor's signature included. The Cleaning & Tuning not only includes the inspection and testing of the unit, but also includes pulling and cleaning the blower motor, checking the amp draw on electrical elements. However, if the initial inspection reveals a cracked exchanger or other item that results in the unit replacement the Cleaning & Tuning charge is not invoiced. See Section 300 in the IHWAP Field Standards Manual. Requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to all appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual

13	Clean and Tune Gas Space Heater	This procedure requires a safety check on the existing unit to insure the unit is operational and a relatively safe unit. This procedure requires the cleaning of the thermocouple, pilot, and burners. This procedure requires inspection of the venting, gas line, electrical, and testing the unit for proper operation, efficiency and performing adjustments to insure the unit is operational and maximum performance when contractor has completed the inspection. All testing results are recorded on the Contractor Checklist. The Contractor Checklist shall have all the appropriate sections completed with the contractor's signature included. The Cleaning & Tuning not only includes the inspection and testing of the unit, but also includes pulling and cleaning the blower motor, checking the amp draw on electrical elements. However, if the initial inspection reveals an item that results in the unit replacement the Cleaning & Tuning charge is not invoiced. See Section 300 in the IHWAP Field Standards Manual. Requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to all appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual.
14	Clean and Tune Electric Furnace	Includes the cleaning of all elements and fan as well as replacement of furnace filters (minimum of MERV 8 required) and two replacements However, if the initial inspection reveals a heating coil issue or other item that results in the unit replacement the Cleaning & Tuning charge is not invoiced. Must be in accordance with the IHWAP Field Standards Manual. See Section 300 in the IHWAP Field Standards Manual.
COOLING SYSTEMS		
15	Install Central Air Conditioner	This package includes the labor, material, and permit fees (if applicable) to install a new Energy Star Rated air conditioner (including new A-Coil) with a minimum SEER of 16; all electrical connections and system charging/leak testing. A/C retrofits will be installed only in homes with an existing forced air furnace, or blower motor, and will not require the addition of these items (unless otherwise estimated separately). Installation must be in accordance with local code and the IHWAP Field Standard Manual.
17	Install Window Air Conditioner	Includes removal and disposal of existing window A/C system. Install new window air conditioner which includes all electrical connections and ensuring the unit is properly air sealed. Installation must be in accordance with local code and the IHWAP Field Standards Manual.
18	Install Window A/C /Heat Pump	Includes removal and disposal of existing window A/C or heat pump system. Install new window Heat Pump which includes all electrical connections and ensuring the unit is properly air sealed. Installation must be in accordance with local code and the IHWAP Field Standards Manual.
HVAC REPAIR		
19	Service Call	This task is for miscellaneous labor costs not covered by other measures. It may include instances when the client cancels an appt. or when additional service is required by the contractor that is not specified on the initial work order. All costs must be approved prior to billing.
WATER HEATERS		
20	Install Electric Water Heater	Package includes the labor, material, and permit fees (if applicable) for the installation of new electric water heater including all water line and electrical connections. Units must be Energy Star rated with an efficiency rating of .92 or higher. Package also includes installing pipe insulation on both hot and cold water lines to a minimum of 6' from the water heater. Installation must be in accordance with local codes, NFPA 70, and the IHWAP Field Standards Manual.
21	Install Electric Heat-Pump Water Heater	Package includes the labor, material, and permit fees (if applicable) for the installation of new electric heat pump water heater including all water line and electrical connections. Units must be Energy Star rated with an efficiency rating of 2.00 or higher. Package also includes installing pipe insulation on both hot and cold water lines to a minimum of 6' from the water heater. Installation must be in accordance with local codes, NFPA 70, and the IHWAP Field Standards Manual.
22	Install Gas/LP Water Heater	Package includes labor, material, and permit fees (if applicable) to install new natural gas or propane water heater; water supply, gas and electrical connections; proper venting; and installation of at least 6' of pipe insulation on both hot and cold water lines. Units must be Energy Star rated with an efficiency rating of .67 or higher and low NOx burners. Installation requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to the appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual.

24	Install Power Vented Water Heater	Package includes labor, material, and permit fees (if applicable) to install new natural gas or propane power vented water heater; water supply, gas and electrical connections; proper venting; and installation of at least 6' of pipe insulation on both hot and cold water lines. Units must be Energy Star rated with an efficiency rating of .67 or higher and low NOx burners. Installation requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to the appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual.
25	Install Tankless Water Heater	Package includes labor, material, and permit fees (if applicable) to install new natural gas or propane tankless water heater; water supply, gas and electrical connections; proper venting; and installation of at least 6' of pipe insulation on both hot and cold water lines. Units must be Energy Star rated with an efficiency rating of .87 or higher and low NOx burners. Installation requires flue gas analysis testing, "Worst Case Depressurization" testing, "Spillage" testing, "Draft" testing, "Carbon Monoxide" testing and testing all gas lines from the meter to the appliances for gas leaks. Installation must be in accordance with local code, NFPA Fuel Gas Code and the IHWAP Field Standards Manual.
HEALTH AND SAFETY		
26	Lead Based Paint	Lead Safe Practices will be performed in any home built prior to 1978 following the EPA RRP guidelines. Contractors are responsible for ensuring a certified RRP individual remains on site while LSW is being conducted, and documenting the practices throughout each project. Photo documentation of work MUST be provided to the agency with the invoice in order to receive payment. Must be in accordance with the IHWAP Field Standards Manual.