

# WX-900 Oil

(REV. 08/09)

## Kentucky Housing Corporation Department of Design & Construction Review (Weatherization)

### Oil Heat System Evaluation:

Clients Name: \_\_\_\_\_ Job #: \_\_\_\_\_ Date: \_\_\_\_\_

Heating Unit Location	Make & Model #	Unit Type	BTU	Primary/Secondary
A. _____	_____	_____	_____	_____
B. _____	_____	_____	_____	_____
C. _____	_____	_____	_____	_____

### EVALUATION (OIL UNITS)

"All repairs/replacements shall comply with NFPA-31"	Repairs Completed	Post Inspected
General: check interior CO level. Record ppm: ___ before. ___ ppm after.	Y__ N__	Y__ N__
<b>Visual:</b> inspect overall condition of equipment -wiring, heat exchanger, combustion chamber, blower and venting. Are repairs needed? Y__ N__	Y__ N__	Y__ N__
<b>Piping:</b> check all piping for oil leaks. Are leaks present? Y__ N__. - Are approved piping materials and fittings used? Y__ N__. - Is an approved manual shutoff valve present in the oil line? Y__ N__. - Is an approved OIL Filter in place in the line? Y__ N__. - Is piping sized to provide adequate Btu capacity? 3/8" line min. Y__ N__. - Is the unit setup for the fuel oil being used? Y__ N__.	Y__ N__	Y__ N__
Are any combustion appliances located in a confined space? Y__ N__.	Y__ N__	Y__ N__
Venting: Does all venting meet code requirements? Y__ N__. - Is appliance vent into a properly lined masonry chimney? Y__ N__ NA__. - Is venting that passes through unconditioned space type L? Y__ N__ NA__. - Does the vent and Connectors meet clearance requirements? Y__ N__. - Is the vent or chimney termination correct? Y__ N__ NA__. - Is a barometric damper correctly installed in the vent connector? Y__ N__ NA__.	Y__ N__	Y__ N__
<b>Oil Units</b> (Indicate the unit by letter) Tune: yes ___ no ___ Replace: yes ___ no ___.	Y__ N__	Y__ N__
Unit ___ Record kBtu rating: input ___ output ____. Nozzle size, type and angle correct? Y__ N__	Y__ N__	Y__ N__
Smoke Test: Before reading ___smoke scale After ___smoke scale.		
Overfire draft: Before ___wc" After ___wc". Flue draft: Before ___wc" After ___wc".		
Net Stack Temperature: Before ___degrees F. After ___ degrees F.		
CO in vent: before reading ___ppm After reading ___ppm.		
CO <sup>2</sup> reading: Before ___ % After ___% O <sup>2</sup> reading: Before ___ % After ___%		
Oil pressure: Before PSI ____. Cutoff PSI _____. After PSI ___ Cutoff PSI ____.		
SSE: before ___% After ___%. CO <sup>2</sup> : before ___ After ___ . Stack Temp: ___°F.		

Safety Controls		
Is unit wired correctly (dedicated circuit, breaker size, and general wiring)? Y__ N__.	Y__ N__	Y__ N__
Does the primary control operate correctly? Y__ N__. Does cad cell operate correctly? Y__ N__.	Y__ N__ Y__ N__	Y__ N__ Y__ N__
Perform a temperature rise test: Supply temp ____minus Return temp ____ = ____TR. Is temperature rise within acceptable range? Y__ N__.	Y__ N__	Y__ N__
Is fan control operating correctly? Fan on____ <sup>0</sup> F. Fan off ____ <sup>0</sup> F. Y__ N__. Does the high limit control function properly? Y__ N__.	Y__ N__ Y__ N__	Y__ N__ Y__ N__
<b>Unit</b> ____ (Indicate by letter) Tune: Y__ N__ Replace: Y__ N__. Record kBtu rating: input ____ output ____. Nozzle size, type and angle correct? y_n__.	Y__ N__ Y__ N__	Y__ N__ Y__ N__
Smoke Test: Before reading ____smoke scale After ____smoke scale.		
Overfire draft: Before ____wc" After ____wc". Flue draft: Before ____wc" After ____wc".		
Net Stack Temperature: Before ____degrees F. After ____ degrees F.		
CO in vent: before reading ____ppm After reading ____ppm.		
CO <sup>2</sup> reading: Before____ % After ____% O <sup>2</sup> reading: Before ____% After ____%		
Oil pressure: Before PSI____. Cutoff PSI _____. After PSI ____ Cutoff PSI ____.		
SSE: before ____% After ____%. CO <sup>2</sup> : before ____ After ____ . Stack Temp: ____ <sup>0</sup> F.		
Safety Controls		
Is unit wired correctly (dedicated circuit, breaker size, and general wiring)? Y__ N__.	Y__ N__	Y__ N__
Does the primary control operate correctly? Y__ N__. Does cad cell operate correctly? Y__ N__.	Y__ N__ Y__ N__	Y__ N__ Y__ N__
Perform a temperature rise test: Supply temp ____minus Return temp ____ = ____TR. Is temperature rise within acceptable range? Y__ N__.	Y__ N__	Y__ N__
Is fan control operating correctly? Fan on____ <sup>0</sup> F. Fan off ____ <sup>0</sup> F. Y__ N__. Does the high limit control function properly? Y__ N__.	Y__ N__	Y__ N__
General : Does the heat anticipator setting match the amp draw of the circuit? Y__ N__. Is the thermostat located properly? Y__ N__. Does filter need replaced? Y__ N__. Is the blower motor clean and operating properly? Y__ N__.		

CONTRACTOR/TECHNICIAN: I certify that this Work order has been performed in compliance with all Energy Systems policies and testing standards of the Kentucky Weatherization Program Manual.

\_\_\_\_\_  
Contractor/Technician

\_\_\_\_\_  
Date

POST INSPECTION CERTIFICATION: I certify that this Work order has been performed in compliance with all Energy Systems policies and testing standards of the Kentucky Weatherization Program Manual, and to the best of my knowledge all energy systems are functioning properly and Regular Weatherization measures can now be

performed.

Post Inspector \_\_\_\_\_

Date \_\_\_\_\_

# WX-900 Oil

(REV. 01/10/08)  
(REV. 6/22/09)

## Kentucky Housing Corporation Department of Design & Construction Review (Weatherization)

### Oil Heat System Evaluation:

**Clients Name:** \_\_\_\_\_ **Job #:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Heating Unit Location	Make & Model #	Unit Type	BTU	Primary/Secondary
A. _____	_____	_____	_____	_____
B. _____	_____	_____	_____	_____
C. _____	_____	_____	_____	_____

### EVALUATION (OIL UNITS)

"All repairs/replacements shall comply with NFPA-31"	Repairs Completed	Post Inspected
General: check interior CO level. Record ppm: ____ before. ____ ppm after.	Y__ N__	Y__ N__
<b>Visual:</b> inspect overall condition of equipment -wiring, heat exchanger, combustion chamber, blower and venting. Are repairs needed? Y__ N__	Y__ N__	Y__ N__
<b>Piping:</b> check all piping for oil leaks. Are leaks present? Y__ N__. - Are approved piping materials and fittings used? Y__ N__. - Is an approved manual shutoff valve present in the oil line? Y__ N__. - Is an approved OIL Filter in place in the line? Y__ N__. - Is piping sized to provide adequate Btu capacity? 3/8" line min. Y__ N__. - Is the unit setup for the fuel oil being used? Y__ N__.	Y__ N__	Y__ N__
Are any combustion appliances located in a confined space? Y__ N__.	Y__ N__	Y__ N__
Venting: Does all venting meet code requirements? Y__ N__. - Is appliance vent into a properly lined masonry chimney? Y__ N__ NA__. - Is venting that passes through unconditioned space type L? Y__ N__ NA__. - Does the vent and Connectors meet clearance requirements? Y__ N__. - Is the vent or chimney termination correct? Y__ N__ NA__. - Is a barometric damper correctly installed in the vent connector? Y__ N__ NA__.	Y__ N__	Y__ N__
<b>Oil Units</b> (Indicate the unit by letter) Tune: yes __ no __ Replace: yes __ no __.	Y__ N__	Y__ N__
Unit ____ Record kBtu rating: input ____ output ____. Nozzle size, type and angle correct? Y__ N__	Y__ N__	Y__ N__
Smoke Test: Before reading ____ smoke scale After ____ smoke scale.		
Overfire draft: Before ____ wc" After ____ wc". Flue draft: Before ____ wc" After ____ wc".		
Net Stack Temperature: Before ____ degrees F. After ____ degrees F.		
CO in vent: before reading ____ ppm After reading ____ ppm.		
CO <sup>2</sup> reading: Before ____ % After ____ % O <sup>2</sup> reading: Before ____ % After ____ %		

Oil pressure: Before PSI ___. Cutoff PSI _____. After PSI ___ Cutoff PSI ____.		
SSE: before ___% After ___%. CO <sup>2</sup> : before ___ After ____ . Stack Temp: ___ <sup>0</sup> F.		

Safety Controls		
Is unit wired correctly (dedicated circuit, breaker size, and general wiring)? Y__ N__.	Y__ N__	Y__ N__
Does the primary control operate correctly? Y__ N__.	Y__ N__	Y__ N__
Does cad cell operate correctly? Y__ N__.	Y__ N__	Y__ N__
Perform a temperature rise test: Supply temp ____ minus Return temp ___ = ___TR. Is temperature rise within acceptable range? Y__ N__.	Y__ N__	Y__ N__
Is fan control operating correctly? Fan on___ <sup>0</sup> F. Fan off ___ <sup>0</sup> F. Y__ N__.	Y__ N__	Y__ N__
Does the high limit control function properly? Y__ N__.	Y__ N__	Y__ N__
<b>Unit</b> ____ (Indicate by letter) Tune: Y__ N__ Replace: Y__ N__.	Y__ N__	Y__ N__
Record kBtu rating: input ___ output ____.	Y__ N__	Y__ N__
Nozzle size, type and angle correct? y__n__.		
Smoke Test: Before reading ___smoke scale After ___smoke scale.		
Overfire draft: Before ___wc" After __wc". Flue draft: Before __wc" After __wc".		
Net Stack Temperature: Before ___degrees F. After ___ degrees F.		
CO in vent: before reading ___ppm After reading ___ppm.		
CO <sup>2</sup> reading: Before___ % After ___% O <sup>2</sup> reading: Before __% After ___%		
Oil pressure: Before PSI ___. Cutoff PSI _____. After PSI ___ Cutoff PSI ____.		
SSE: before ___% After ___%. CO <sup>2</sup> : before ___ After ____ . Stack Temp: ___ <sup>0</sup> F.		
Safety Controls		
Is unit wired correctly (dedicated circuit, breaker size, and general wiring)? Y__ N__.	Y__ N__	Y__ N__
Does the primary control operate correctly? Y__ N__.	Y__ N__	Y__ N__
Does cad cell operate correctly? Y__ N__.	Y__ N__	Y__ N__
Perform a temperature rise test: Supply temp ____ minus Return temp ___ = ___TR. Is temperature rise within acceptable range? Y__ N__.	Y__ N__	Y__ N__
Is fan control operating correctly? Fan on___ <sup>0</sup> F. Fan off ___ <sup>0</sup> F. Y__ N__.	Y__ N__	Y__ N__
Does the high limit control function properly? Y__ N__.		
General : Does the heat anticipator setting match the amp draw of the circuit? Y__ N__.		
Is the thermostat located properly? Y__ N__.		
Does filter need replaced? Y__ N__.		
Is the blower motor clean and operating properly? Y__ N__.		

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Contractor/Technician

\_\_\_\_\_  
Date

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Post Inspector

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Date