

Burner Installation Instructions

UMLA/UMLVA Direct Vent

Kit 550003127 Beckett NX56LQ Burner w/ Cover

⚠ WARNING

Fire, explosion, asphyxiation and electrical shock hazard. Improper installation could result in death or serious injury. Read this instruction and understand all requirements, including requirements of authority having jurisdiction, before beginning installation. Installation not complete until appliance operation verified per Installation, Operation & Maintenance Manual provided with furnace.

UMLA/UMLVA standard minimum clearance from flue pipe to combustible material is 5".

This furnace/burner combination is approved for reduced minimum combustible clearance of 2.5" between the flue pipe and burner cover. Applies to the clearance between flue pipe and burner cover only.

This burner with cover shall only be used on furnaces installed in the upflow position. This burner is not approved for and shall not be used on furnaces installed in the downflow and horizontal position.

⚠ WARNING

Fire hazard.

- 2.5" Minimum clearance between flue pipe and burner cover shall be maintained.
- Minimum clearance from flue pipe to all other combustible materials remains 5".
- Install furnace in upflow position only.

Failure to follow these instructions could result in death or serious injury.

Installation Procedure

1. Burner is factory equipped for 0.65 USGPH firing rate. If that is the desired firing rate then nozzle installation is already complete. Go to step 3.
2. Install nozzle for desired firing rate per charts below. Alternate nozzles furnished with burner kit. Insure burner electrodes remain aligned per burner manufacturer's specification.
3. Place burner mounting gasket on burner mounting studs on furnace.
4. Place burner on burner mounting studs on furnace. Insure burner is in upright position for installed flow configuration of furnace (i.e. upflow only, downflow and horizontal installations are not allowed with this burner).
5. Install furnished 3/8"-16 flange nuts on studs.
6. Connect 6 pole burner wiring plug to 6 pole receptacle on front of furnace.
7. Confirm blocked vent safety switch (pressure switch) is correctly mounted and tubing connected per the Direct Vent Supplemental Instruction provided with the furnace.
8. Connect blue/yellow low voltage burner wiring harness as follows:
 - blue/yellow wires with spade terminals to TR and TW terminals on oil burner primary control
 - blue/yellow wires with straight push on terminals to 2 pole receptacle on front of furnace
 - yellow/yellow wires with flag push on terminals to blocked vent safety switch (pressure switch)
9. Highlight installed model/firing rate on Alternate Input chart on furnace rating plate.
10. Burner installation is complete.
11. Follow start up and adjustment procedures in Installation, Operation and Maintenance manual provided with furnace.

Chart 1 - Beckett NX Oil Burner Setup

Beckett NX Series Oil Burners

(For use with direct vent units using outdoor combustion air only)

Furnace Model	Output BTU/Hr	Burner Model	Delavan Nozzle	Pump Pressure [PSIG]	Flow Rate [USGPH]	Low Firing Rate Baffle	Air Setting
UML65ANXU UMLV65ANXU	66,000	NX56LQ	0.50 / 60°W	140	0.55	Yes	3
UML80ANXU UMLV80ANXU	77,000	NX56LQ	0.50 / 60°W	175	0.65	Yes	3.25
UML90ANXU UMLV90ANXU	88,000	NX56LQ	0.60 / 60°W	175	0.75	No*	3.25
UML100ANXU UMLV100ANXU	99,000	NX56LQ	0.65 / 60°W	175	0.85	No*	3.75

* Burner is factory equipped with low firing rate baffle. Remove for 0.75 and 0.85 USGPH firing rates.

Above settings are preliminary settings only. Final adjustments must be made using combustion test instruments as outlined in the Installation, Operation, and Maintenance manual provided with furnace.