

# Burner Installation Instructions UMLA

## Installation Procedure

1. Burner is factory equipped for 0.65 USGPH firing rate. If desired firing rate then burner setup is complete. Go to set 3.
2. Setup burner for desired firing rate per charts below. 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, downflow, horizontal left, horizontal right).
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. Connect blue/yellow burner wiring harness to 2 pole receptacle on front of furnace.
8. Highlight installed model/firing rate on Alternate Input Chart on furnace rating plate.
9. Burner installation is complete.
10. Follow startup and adjustment procedures in Installation, Operation and Maintenance manual provided with furnace.

### BECKETT AFG70MPSS PRELIMINARY OIL BURNER SETTINGS

Furnace Model	Firing Rate [USGPH]	Firing Rate [BTU/Hr]	Output [BTU/Hr]	Delavan Nozzle	Pump Pressure [PSIG]	Head	Air Setting
UML65A UMLV65A	0.55	77,000	66,000	0.50-45°W	140	L2	4
UML80A UMLV80A	0.65	91,000	77,000	0.50-45°W	175	L2	5
UML90A UMLV90A	0.75	105,000	88,000	0.60-60°W	175	L2	7
UML100A UMLV100A	0.85	119,000	99,000	0.65-60°W	175	L2	8

### RIELLO 40F3 PRELIMINARY OIL BURNER SETTINGS

Furnace Model	Firing Rate [USGPH]	Firing Rate [BTU/Hr]	Output [BTU/Hr]	Delavan Nozzle	Pump Pressure [PSIG]	Head Setting	Air Setting
UML65ARF UMLV65ARF	0.55	77,000	66,000	0.50-90°B	125	0	1.6
UML80ARF UMLV80A	0.65	91,000	77,000	0.55-80°B	140	0	2.1
UML90ARF UMLV90ARF	0.75	105,000	88,000	0.65-80°B	133	1	2.5
UML100ARF UMLV100ARF	0.85	119,000	98,000	0.75-80°B	128	2	3.0

### Carlin EZ-LF PRELIMINARY OIL BURNER SETTINGS

Furnace Model	Output [BTU/Hr]	Burner Model	Delavan Nozzle	Pump Pressure [PSIG]	Flow Rate [USGPH]	Air Band	Head Bar	Air Setting
UML65AC UMLV65AC	66,000	EZ-LF	0.50-70°B	125	0.55	Single Slot	0.60/0.65	35%
UML80AC UMLV80AC	78,000	EZ-LF	0.50-70°B	170	0.65	Single Slot	0.60/0.65	65%
UML90AC UMLV90AC	88,000	EZ-LF	0.65-70°B	135	0.75	Two Slot*	0.75	45%
UML100AC UMLV100AC	99,000	EZ-LF	0.65-70°B	170	0.85	Two Slot*	0.85/1.00	45%

\* Burner is factory equipped with single slot air band. Replace with furnished two slot air band 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.