

BURNER INSTALLATION INSTRUCTIONS FOR GMOW SERIES BOILERS

Installation Procedure

1. Install nozzle, as necessary, for desired input rate. See Table 1 or Table 2 as applicable.
2. Remove lower jacket cowl assembly from boiler.
3. Remove (3) $\frac{5}{16}$ " wislock nuts from burner swing door. Place burner flange gasket on studs flat side up.
4. Place burner on swing door studs. Install wislock nuts.
5. Remove the $\frac{5}{16}$ " nut on swing door. Open swing door with burner in place. Verify there are no obstructions in front of the blast tube.
If Riello burner is being used, swing door insulation piece surrounding burner air tube must be replaced with furnished part number 2553301.
6. Close swing door and replace $\frac{5}{16}$ " nut.
7. Attach limit harness to left side of limit. Connect wires per wiring diagram in Installation, Operation and Maintenance manual.
For Riello burner, connect burner harness to burner. Connect wires per wiring diagram in Installation, Operation and Maintenance manual.
8. Connect plugs from limit harness to burner harness.
9. Burner installation is complete. Install boiler per Installation, Operation and Maintenance manual provided with boiler.
10. Follow Start-Up and Adjustment of Oil Burner procedure in Installation, Operation and Maintenance manual provided with boiler.
11. Install lower jacket cowl assembly.

TABLE 1 - BECKETT AFG SETTINGS

BOILER NO.	HEAD TYPE	HEAD SETTING	STATIC PLATE	NOZZLE	PUMP PRESSURE [PSI]	AIR BAND	AIR SHUTTER
GMOW-3085(T)	L1	--	3 $\frac{3}{8}$	0.75-60°B	140	0	8
GMOW-3100(T)	L1	--	3 $\frac{3}{8}$	0.85-60°B	140	1	8
GMOW-4100(T)	V1	0	2 $\frac{3}{4}$	0.85-60°B	140	0	6
GMOW-4125(T)	V1	0	2 $\frac{3}{4}$	1.10-60°B	140	1	8
GMOW-4145(T)	V1	2	2 $\frac{3}{4}$	1.25-60°B	140	2	10
GMOW-5160(T)	F12	--	2 $\frac{3}{4}$	1.35-70°B	140	1	10
GMOW-5185(T)	F12	--	2 $\frac{3}{4}$	1.50-70°B	150	2	10
GMOW-6175(T)	F12	--	--	1.50-70°B	140	1	8
GMOW-6210(T)	F16	--	--	1.75-70°B	145	2	10

TABLE 2 - RIELLO 40F5/40F10 SETTINGS

BOILER MODEL	RIELLO BURNER MODEL	BURNER INSERTION [INCHES]	NOZZLE	PUMP PRESSURE [PSI]	TURBULATOR SETTING	AIR GATE SETTING
GMOW-3085(T)	40F5	2.25	0.70x80°W	145	0.0	2.0
GMOW-3100(T)	40F5	2.25	0.85x80°W	145	1.0	2.5
GMOW-4100(T)	40F5	2.25	0.85x80°W	145	1.0	2.55
GMOW-4125(T)	40F5	2.25	1.00x80°W	155	2.0	4.0
GMOW-4145(T)	40F5	2.25	1.20x60°W	150	3.5	4.75
GMOW-5160(T)	40F5	2.25	1.35x60°W	145	4.0	5.75
GMOW-5160(T)	40F10	2.25	1.35x60°W	145	1.5	2.5
GMOW-5185(T)	40F10	2.25	1.50x60°B	150	2.0	3.0
GMOW-6175(T)	40F10	4.75	1.50x45°B	140	0.0	3.8
GMOW-6210(T)	40F10	4.75	1.75x45°B	145	2.0	4.75

Above settings are preliminary settings only. Final adjustments must be made using combustion test instruments as previously outlined in the Operating Instructions