

# BOILER CLEANING SYSTEM

- 1) Turn off furnace/boiler and remove caps/manifold. Let unit cool for several hours. Maximum heat temperature 78 degrees before beginning to clean unit.
- 2) Select correct Boiler nozzle for the boiler tubes (nozzle should be smaller than tube ID.) Attach nozzle to BTA-100. Connect vacuum hose to bottom gun handle (1 1/2").
- 3) Lay TCM-1000H machine horizontally on floor and connect Flexible Shaft to machine. Plug in GFI electrical plug into wall outlet and reset GFI. Remove air footswitches from TCM-1000H tool box and lay on floor close to boiler.
- 4) Insert flexible shaft into BTA-100 until shaft comes out far end. Connect correct boiler brush to flexible shaft. Insert BTA-100 gun into first boiler tube.
- 5) Turn on vacuum, depress footswitch marked Green (this starts shaft rotation forward) and slowly insert flexible shaft into boiler until boiler brush is 1/2 way out of the far end of boiler. Stop TCM-1000H and use the small clamp on flexible shaft, secure it loosely (so it will not bind internal rotating steel shaft) to mark how far flexible shaft must be inserted to clean entire tube length. To remove flexible shaft, depress the other footswitch and the shaft will rotate in reverse which will make cleaning tubes easier.
- 6) YOU ARE READY. Start at the top of the boiler and work your way down cleaning each tube independently.

