

Westwood Police Boilers SCOPE of WORK

SCOPE

It is the intent of this specification to describe the labor and materials necessary to replace the boilers at the Westwood Police station located at 588 High St, Westwood Ma 02090.

Remove and replace (4) existing Buderus Boilers with (2) Lockinvar Knight Boilers (1-FTX400 and 1-FTX500) with ASME stainless steel fire tube heat exchangers. Includes new hot water pumps for each boiler. Includes new Lockinvar digital operation control system with graphic LCD display. Includes manufacturer's 15-year limited warranty on heat exchangers. Allows for reconfiguration of piping and combustion flue system to accommodate new boilers. Allows for reconfiguration of large hot water pipe strainer in corner of mechanical space to allow for future strainer access and service (current position is inaccessible for service).

REQUIRED TASKS

The tasks that must be performed in order to replace the failed boiler include, but are not limited to, the following:

Disconnect and lock out of the natural gas and electrical connections

Isolate and drain the system as necessary

- Disconnect of hot water piping header and pumps servicing existing boilers.
- Disconnect and remove combustion air system for existing boilers, removal of all connections that will not be required by the resulting system
- Demo, remove and proper disposal of (4) existing Buderus boilers.
- Provide and install (2) new Lockinvar boilers (1-FTX400 and 1-FTX500 with stainless steel heat exchangers in the same footprint as the failed boilers
- Provide and install new hot water pumps for new boiler system

- Reconfigure hot water piping header and gas line feeds to accommodate new boiler configuration
- Reconfigure combustion air system to accommodate new boiler configuration
- Reconnect electrical connections
- Installation of stack condensate drains
- Remove large piping strainer trapped in corner of mechanical room near boilers and re-pipe and reconfigure in order to reposition for access and strainer service
- Installation and interconnection of the necessary sensors and controls
- Install piping from the equipment drain and stack connection drains to the condensate neutralization kit and to nearest floor drain.
- Fill system as necessary
- Start system and confirm system functionality

- Calibrate and/or program the system to meet the required functionality
- Test all safety devices

BRAND NAME OR EQUAL

A Brand Name is used to identify the characteristics and level of quality that will satisfy the town's requirements. Proposed 'or equal' units must be of the same quality and comply with the manufacturer's requirements and specifications; physical, functional and /or performance characteristics. The Proposer shall state the proposed manufacturers name and part number and provide documentation sufficient, in the town's judgment, to permit a determination as to whether the unit bid constitutes an 'or equal'.