APPLICATION GUIDE

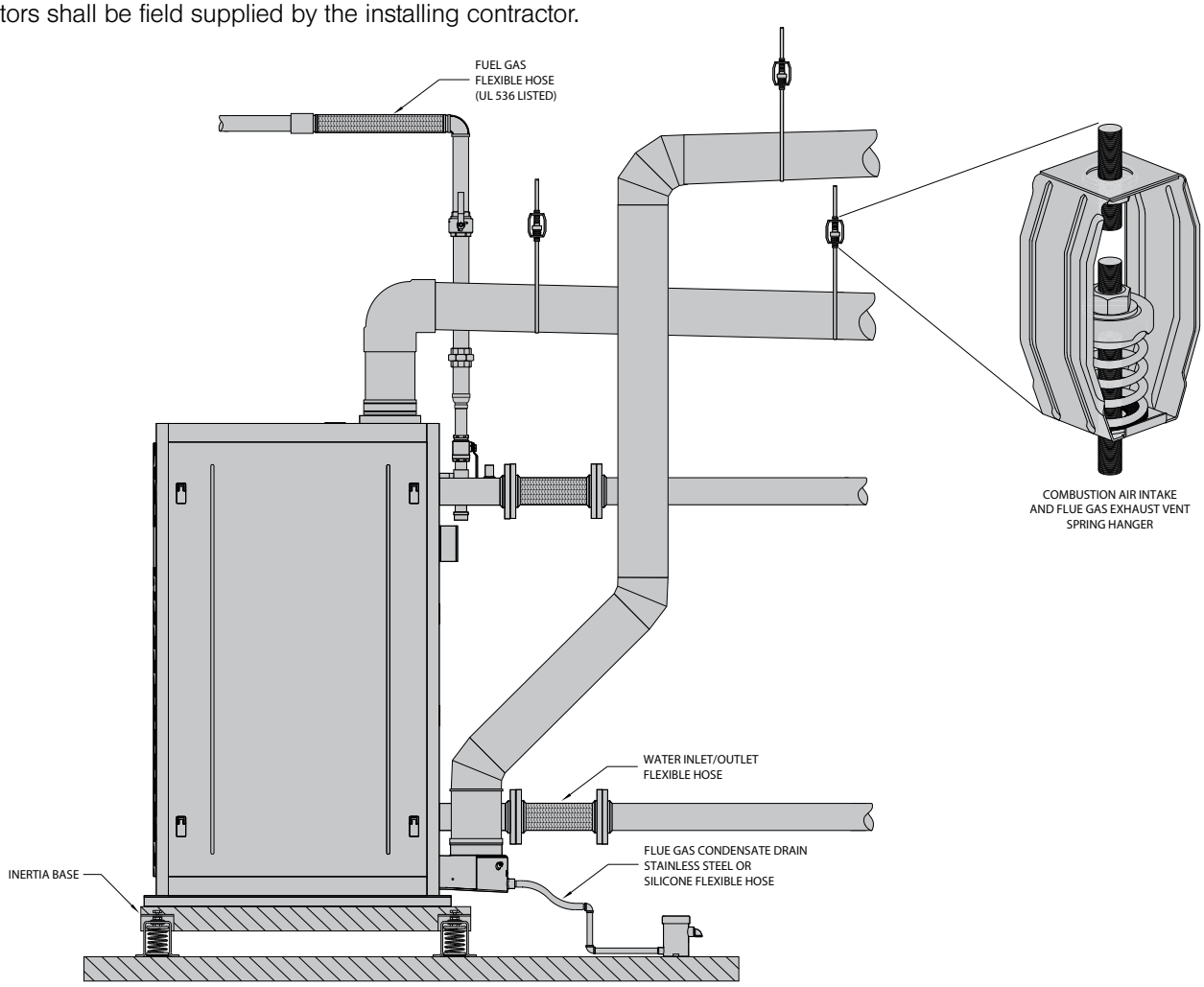
SUBJECT:
Isolation Bases

APPLIES TO:
Condensing Hydronic Boilers

Fulton's Endura XE (EXE), Endura (EDR), Endura+ (EDR+) and Vantage (VTG) firetube condensing boilers are intended for mounting on a rigid steel or concrete housekeeping pad, and do not require devices such as isolation pads or springs. It is not typical to install the boiler on springs, therefore a rigid housekeeping pad is recommended for the vast majority of installations.

However, certain local jurisdictions or installation specific requirements may necessitate installing the boiler on springs. For these cases, additional considerations must be made to ensure the boiler base is evenly supported and level, and no load is placed on boiler connections when filling and draining the pressure vessel.

To comply with this, mount the boiler on a properly sized inertia base such that it is evenly supported. The inertia base will be mounted on springs. Do not mount the boiler directly on springs. Adjustments may be required to ensure the boiler remains level when filled with water.

In addition, all connections to the boiler must be made with flexible connectors. This includes the water inlet, water outlet, pressure vessel drain, flue gas condensate drain, fuel gas, fuel oil (where applicable), and electrical conduits. Ensure flexible connectors are selected such that they are able to accomodate the full deflection of the springs between dry and filled boiler weights and are installed in a horizontal orientation only. Where flexible connections for combustion air ducting and flue gas venting are not readily available, the use of spring hangers may be used as an alternate method to accomodate the spring deflection.

The devices described above and detailed in Figure 1 below, including the inertia base, springs, spring hangers and flexible connectors shall be field supplied by the installing contractor.