

Inspection and Technical Services

Installation of Gas Fired Equipment: Flame Safeguard Relays and Remote Resets

ITS 21-039

The purpose of this bulletin is to provide further clarification and guidance on the installation of gas fired equipment in Manitoba.

In particular, because hazardous conditions may be created by repeated attempts to ignite the burner from a remote area, all gas fired equipment must be installed in a manner that prevents the equipment from being reset, after a flame failure, at a location that is not in sight of the burner. Interruption of the power supply must not override the manual reset of a burner control.

Examples of appliances or installations no longer allowed to be remotely reset by power interruption or other means:

- a) Direct fired air make ups or burners installed for use with paint booths, spray rooms, drying ovens, bake ovens, powder coating or curing, mixing rooms, mould ovens, sandblasting areas/ rooms, bakery ovens, any combination of the above, or other such installations;
- b) Make up air heaters for commercial and Industrial buildings (refer to Figure 1);
- c) Appliances with sealed combustion chambers;
- d) Pressure vessels;
- e) Vaporizers;
- f) Commercial and industrial process boilers, heating boilers, domestic water boilers;
- g) Generators;
- h) Any appliance, installation of an appliance or process using gas, propane, oil, etc. believed to create a potential hazard due to remote resets.

Exception: Certified appliances with an input of 400,000 BTU per hour or less that meet with and are installed according to all current codes and standards by a qualified person(s) with good engineering practices (as determined by an ITS Inspector or inspection authority acceptable to the Department).

ACCEPTABLE WARNING PLATE LETTERING

WARNING; Due to potential hazards associated with repeated ignition attempts, contact a qualified, licensed contractor if heater does not light or provide heat.

AVERTISSEMENT ; en raison d'éventuels dangers associés aux tentatives répétées d'allumage contacter un entrepreneur patenté qualifié si chauffe-eau ne pas de lumière ou fournir chaleur.

Exception: Commercial kitchens with an input at or under 400,000 btu per hour may be exempt from the remotereset requirement if a permanent warning plate is used with readable lettering in both English and French (see Figure 1 above), on permanent material, embossed, cast, stamped or otherwise formed in part not affected by age, moisture, grease or chemicals.. The warning plate must be permanently attached on or near the control panel, with lettering in boldfaced type, size 14 font, red in color, on a white base/background.