

# GEW101-14

## 607.5

**Proponent:** Gary Klein, Affiliated International Management, LLC, representing self (gary@aim4sustainability.com)

**Delete and substitute as follows:**

~~**607.5 Waste water heat recovery system.** The following building types shall be provided with a waste water heat recovery system that will preheat the incoming water used for hot water functions by not less than 10°F (5.6°C):~~

- ~~1. Group A-2, restaurants and banquet halls;~~
- ~~2. Group F, laundries;~~
- ~~3. Group R-1, boarding houses (transient), hotels (transient), motels (transient);~~
- ~~4. Group R-2 buildings;~~
- ~~5. Group A-3, health clubs and spas; and~~
- ~~6. Group I-2, hospitals, psychiatric hospitals and nursing homes.~~

~~**Exception:** Waste water heat recovery systems are not required for single-story slab-on-grade and single-story on-crawl-space buildings.~~

**607.5 Waste water heat recovery system.** One or more drain water heat exchangers shall be installed in the drain piping system for the indicated plumbing fixtures and appliances in the following the building occupancies:

1. Laundry washing machines for laundry services in Group F occupancies.
2. Laundry washing machines that are connected to hot and cold water supplies, for boarding houses with transient occupants, hotels with transient occupants and motels with transient occupants in Group R-1 occupancies.
3. Shared shower facilities and laundry washing machines in Group R-2 occupancies.
4. Laundry washing machines that are connected to hot and cold water supplies, and showers for health clubs and spas in Group A-3 occupancies.
5. Laundry washing machines that are connected to hot and cold water supplies, patient showers for long-term care patients and staff showers for hospitals, mental hospitals and nursing homes in Group I-2 occupancies.

**Exceptions:** Drain water heat exchangers shall not be required for:

1. Laundry washing machines that are used by guests.
2. Laundry washing machines that are supplied with cold water only provided that space and access are available for adding a drain water heat exchanger to the drain system in the future.
3. Fixtures and appliances that are located on a concrete slab on grade.
4. Applications where a drain water heat exchanger cannot increase the incoming water temperature by 36 percent of the temperature difference between the incoming cold water and the drain water.

5. Applications where any portion of a drain water heat exchanger would be required to be located in a sump below grade.
6. Applications where a drain water heat exchanger would convey grease-laden waste that requires the installation of a grease or oil separator in accordance with Section 1003 of the *International Plumbing Code*.

**Reason:** The current wording in the 2012 IgCC was not clear as to what functions within the specified occupancies drain water heat exchangers should be installed on. In addition it is not practical to verify the percent reduction in energy usage for all hot water when only a few functions will be connected to the heat exchangers.

This proposal makes the requirements more specific, provides clearer exemptions and makes inspection easier to implement.

**Cost Impact:** Will not increase the cost of construction. These provisions are already in the 2012 IgCC.

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