

811.8 The provisions in this section relative to materials and methods of construction shall not apply to installations such as photographic or X-ray dark rooms or research or control laboratories where minor amounts of adequately diluted chemicals are discharged.

812.0 Clear Water Wastes.

Water lifts, expansion tanks, cooling jackets, sprinkler systems, drip or overflow pans, or similar devices that discharge clear wastewater into the building drainage system shall discharge through an indirect waste.

813.0 Swimming Pools.

Pipes carrying wastewater from swimming or wading pools, including pool drainage and backwash from filters, shall be installed as an indirect waste. Where a pump is used to discharge waste pool water to the drainage system, the pump discharge shall be installed as an indirect waste.

814.0 Condensate Wastes and Control.

814.1 Condensate Disposal. Condensate from air washers, air-cooling coils, fuel-burning condensing appliances, the overflow from evaporative coolers, and similar water-supplied equipment or similar air-conditioning equipment shall be collected and discharged to an approved plumbing fixture or disposal area. If discharged into the drainage system, equipment shall drain by means of an indirect waste pipe. The waste pipe shall have a slope of not less than 10mm/m (1/8 in./ft.) or 1 percent slope and shall be of approved corrosion-resistant material not smaller than the outlet size as required in Table 8-2 for air-cooling coils or condensing fuel-burning appliances, respectively. Condensate or wastewater shall not drain over a public way.

814.2 Size. Air-conditioning condensate waste pipes shall be independent of any drainage and waste system and shall not be smaller than shown in Table 8-2.

The size of condensate waste pipes is for one unit or a combination of units, or as recommended by the manufacturer. The capacity of waste pipes assumes 10mm/m (1/8 in./ft.) or 1 percent slope, with the following pipe conditions:

Outside Air – 20%		Room Air – 80%	
DB	WB	DB	WB
32°C	23°C	24°C	17°C

SI: $1.8^{\circ}\text{C} + 32 = \text{F}$

Condensate drain sizing for other slopes or other conditions shall be approved by the Authority Having Jurisdiction.

Air-conditioning waste pipes shall be constructed of materials specified in Chapter 7.

814.3 Point of Discharge. Air-conditioning condensate waste pipes shall connect indirectly to the drainage system through an airgap or airbreak to a properly trapped and vented receptors dry wells, leach pits, or the tailpiece of plumbing fixtures.

Condensate waste shall not drain over a public way.

TABLE 8-2
Minimum Condensate Pipe Size

Equipment Capacity in Tons of Refrigeration	Minimum Condensate Pipe Diameter
(kW)	(mm)
Up to 70	20
71 - 140	25
141 - 320	32
321 - 440	40
441 - 800	50

SI: 1kW = 0.28 tons; 1mm = 0.04 in.