

UPC Chapter 8 Indirect Wastes

RV 1.11.2023

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Quiz 1

1. An indirect waste pipe _____ connect directly into a plumbing fixture, interceptor, or receptacle that is _____ connected to the drainage system.
 - does – directly
 - does not – directly
 - does – never
 - does not – never
2. Chapter 8 follows the provisions for discharge and disposal of _____.
 - condensate wastes
 - chemical wastes
 - industrial wastes
 - clear water wastes
 - all of the answers provided
3. An air gap is _____.
 - the distance between the crown of a P trap and the flood rim of the receptor
 - the vertical distance between the lowest opening of a pipe and the flood rim of the receptor
 - the horizontal distance between the cold water inlet on a water heater and the hot water outlet
 - the distance between the roof vent termination and the building drain outlet
4. A minimum air gap of _____ is required between the lowest point of an indirect waste pipe or a fixture outlet to the flood-level rim of a receptor.
 - none is required
 - 1 inch
 - 2 inches
 - 12 inches
 - none of the answers provided

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5. An air break is similar to an air gap except that the waste flows _____.
- into a receptor from a fixture
 - onto the floor from the drain
 - directly into the building sewer
 - into a water closet
 - none of the answers provided

Quiz 2

1. The pressure relief valve from a water heater must _____.
- use a cooper drain line
 - be at least 1" in diameter
 - be directly connected to the waste drainage system
 - drain into a 2" deep drip pan
 - none of the answers provided



Water Heater - 3/4" PTR valve

2. The minimum size drain line is _____ in diameter.
- 1/2 inch
 - 3/4 inch
 - 1 inch
 - 1-1/2 inches
 - 2 inches
3. The maximum length of the drain line is _____.
- 5 feet
 - 10 feet
 - 15 feet
 - 20 feet
 - unlimited
4. The discharge of the indirect drain must be through _____.
- an air gap
 - an air break
 - either an air gap or air break

5. The minimum size air gap for this water heater containing a discharge pipe with a 3/4" PTR valve is _____.
- 1 inch
 - 1-1/2 inches
 - 2 inches
 - 3 inches
 - none of the answers provided

Quiz 3

1. Pressurized wastes can be directly discharged into a drainage system.
- True, if the pressure is lower than 10 psi
 - True, if the piping is galvanized steel or copper
 - True, under all circumstances
 - False, under no circumstances
 - False, unless the AHJ has approved the design of the drainage system to accept pressurized wastes
2. Sterilizers shall discharge through a/an _____.
- air gap
 - P trap
 - S trap
 - direct drainage connection
 - sanitary tee
3. The maximum length of an indirect drain for a sterilizer is _____ feet.
- 5
 - 10
 - 15
 - 20
 - unlimited, if the drain is 1 inch or larger in diameter
4. Equipment and other apparatus not regularly classified as plumbing fixtures which have waste water shall discharge into a/an _____.
- approved open receptor
 - P trap
 - S trap
 - direct drainage connection
 - sanitary tee
5. Condensate from a condensing furnace is allowed to be discharged into a pipe made of _____.
- cast-iron
 - galvanized iron
 - plastic
 - all of the answers provided
 - none of the answers provided

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Quiz 4

**TABLE 810.1
PIPE CONNECTIONS IN BLOWOFF CONDENSERS AND SUMPS
(inches)**

BOILER BLOWOFF	WATER OUTLET	VENT
3/4 *	3/4*	2
1	1	2 1/2
1 1/4	1 1/4	3
1 1/2	1 1/2	4
2	2	5
2 1/2	2 1/2	6

* To be used only with boilers of 100 square feet of heating surface or less

- A boiler that has a 2 inch blowoff will need to have a water outlet of _____ and a vent size of _____.
 - 1 inch – 2-1/2 inches
 - 1-1/4 inches – 3 inches
 - 1-1/2 inches – 4 inches
 - 2 inches – 5 inches
 - 2-1/2 inches – 6 inches
- A boiler that has a 2-1/2 inch blowoff will need to have a water outlet of _____ and a vent size of _____.
 - 1 inch – 2-1/2 inches
 - 1-1/4 inches – 3 inches
 - 1-1/2 inches – 4 inches
 - 2 inches – 5 inches
 - 2-1/2 inches – 6 inches
- Water that may be under pressure in an open condenser will need to pass through an open sump before entering a drainage system.
 - True
 - False
- Sumps, condensers, and intercepting tanks that are constructed of concrete shall have walls and bottoms not less than _____ in thickness, and the insides shall be cement plastered not less than _____ in thickness.
 - 4 inches – 1/2 inch
 - 6 inches – 1 inch
 - 8 inches – 1 inch
 - 12 inches – 2 inches
 - none of the answers provided

- Condensers constructed of metal shall be not less than _____ U.S. standard gauge.
 - No. 8
 - No. 10
 - No. 12
 - No. 18
 - No. 22

Quiz 5

- Which of the following requires condensate to be discharged through an indirect waste pipe?
 - air washers
 - air-cooling coils
 - overflow from evaporative coolers
 - all of the answers provided
- The minimum slope of a condensate drain is _____ inch per foot.
 - 1/8
 - 5/16
 - 3/8
 - 1/4
 - none of the answers provided
- Condensate or wastewater _____ drain over a public way.
 - shall
 - shall not
- Condensate pump discharge shall rise _____ to a point where it is possible to connect to a gravity condensate drain.
 - 2 inches
 - horizontally
 - away
 - vertically

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5. Separate condensate pumps shall be connected to a single gravity indirect waste where equipped with check valves.
 - True
 - False