

IBC Dispensing Unit

For Ignitable Liquids
Product Datasheet



Inside view of unit without sidewall

“Plug and play” protection for ignitable liquid dispensing

PRODUCT FEATURES

- The unit is based on Safespill’s High Flow Flooring System
- Three-walled enclosure with mechanical ventilation and deluge sprinkler protection
- Deluge sprinkler system consists of a combination of targeted sprinkler nozzles for each IBC and upright sprinklers for overall coverage
- Deluge activated by heat detectors and/or flame detectors
- In case of a spill without ignition, liquid detection will activate spill removal only
- The unit is chemically compatible with all hydrocarbons, alcohols and solvents (nickel plating is offered for aggressive acids and caustics)

CONNECTION POINTS

The water supply connection for the deluge sprinkler, floor flushing system and the discharge piping connection are located at the left or right rear corner of the unit. They can be supplied with threaded, flanged or grooved fittings.

SAFESPILL SYSTEMS



SPECIFICATIONS

Overall Dimensions (LxWxH)

15 ft x 20 ft x 10 ft (4.6 m x 6.1 m x 3.1m)

System Footprint

300 ft² / 28.1 m²

Product Storage Capacity

5 - 275 gal or 350 gal IBC’s

Drainage Capacity

400 GPM / 1,514 LPM

Floor Load Capacity

200 psi / 1.38MPa

Water Supply Connection

1” pipe connection – Flushing System

3” pipe connection – Deluge Sprinklers

Flushing System Water Demand

23 GPM @ 80 psi / 87.1 LPM @ 5.5 Bar

Sprinkler Water Demand

250 GPM @ 80 psi / 950 LPM @ 5.5 Bar

Discharge Pumps

4 - 3”, air operated diaphragm or 5hp electric centrifugal pumps

Power Demand

400 SCFM @ 100 psi / 32 Amps @ 480 V / 3 phase

Price

Starting at \$135,000 including installation

FIRE ALARM INTEGRATION

Integration into facility's fire alarm system is determined by client's safety philosophy. For example, in the case of a spill without a fire and flushing/suction is activated, client can decide whether to have the unit trigger the facility's fire alarm, have a signal sent to appropriate personnel, or have a signal activate from the unit.

EXTERNAL CONTAINMENT TANK

The IBC Dispensing Unit will need to be connected through piping to an external containment tank. The tank will be used to contain any removed liquids, and in case of a fire, sprinkler water. Sizing of the external containment tank should be based on the following:

- Total volume of stored IBC's (5 X 350 gal = 1,750 gal)
- 20 minutes of sprinkler and flushing system activation (250 gpm + 23 gpm X 20 min = 5,460 gal)
- Total tank capacity should be $\geq 7,210$ gal

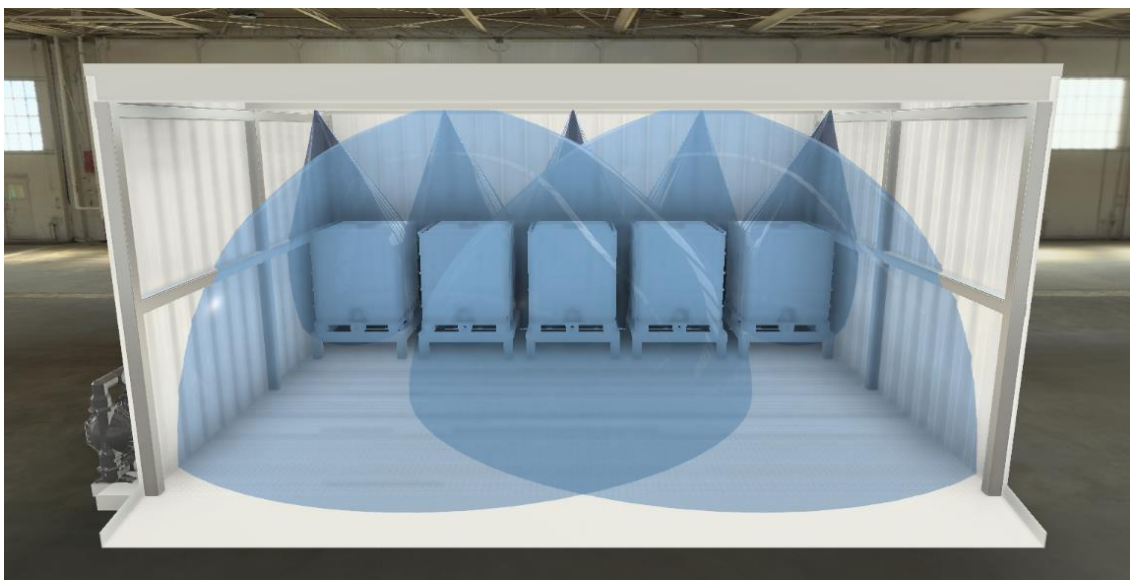
In case the facility does not have this containment capacity, a simple and quick solution could be to use a frac tank for containment; providing 21,000 gallons of additional capacity. New frac tanks are readily available at approximately \$23,000 and used frac tanks are approximately \$10,000-\$15,000.

DISPOSAL OF SPILLED LIQUIDS

A simple water remediation system can be installed to separate water from hydrocarbons creating permissible contaminant levels and significantly reducing disposal costs. A typical water remediation system used for hydrocarbon-based liquids can cost approximately \$15,000.

INSPECTION SERVICES

We offer our clients the option of having a trained service technician visit your facility, on a recurring basis, to inspect and certify that your system is functioning properly. Inspection programs are site specific.



Rendering of targeted sprinkler and upright sprinkler layout