

# IBC Storage Unit

For High Flash Point Liquids  
Product Datasheet

# SAFESPILL SYSTEMS



“Plug and play” protection for ignitable liquid storage

## PRODUCT FEATURES

- The unit is based on Safespill’s High Flow Flooring System
- Allows 18 IBC’s to be stored stacked 3x2x3 (WxDxH)
- Deluge sprinkler system activated by heat detection and/or flame detection
- 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 and can be supplied with a thread, flanged or grooved fitting.

## SPECIFICATIONS

### Overall Dimensions (LxWxH)

25 ft x 15 ft x 14 ft (7.6m x 4.7m x 4.4m)

### System Footprint

400 ft<sup>2</sup> / 38 m<sup>2</sup>

### Product Storage Capacity

18 - 275 gal or 350 gal IBC’s

### Drainage Capacity

630 GPM / 2385 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

80 GPM @ 35 psi / 302.8 LPM @ 2.41 Bar

### Sprinkler Water Demand

400 GPM @ 100 psi / 1700 LPM @ 6.9 Bar

### Discharge Pumps

8 – 3” air operated diaphragm or 3hp electric centrifugal pumps  
1 - 4” connection

### Power Demand

24 Amps @ 480 V / 3 phase

### Price

Starting at \$160,000 including installation

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## 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 storage unit will need to be connected through piping to an external containment tank. The tank will be used to contain any pumped spilled liquids, and in case of a fire, sprinkler water. Sizing of the external containment tank should be based on the following:

- o Total volume of stored IBC's (18 X 275gal = 4,950gal)
- o 20 minutes of sprinkler deluge activation and flushing system activation (400gpm + 80gpm X 20min = 9,600 gal)
- o Total tank capacity should be  $\geq 14,550$ gal

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

## DISPOSAL OF SPILLED LIQUIDS

In case clients are concerned about disposal costs for the contents of the containment tank, a simple water remediation system can be installed to separate water from hydrocarbons to permissible contaminant levels, significantly reducing disposal costs. A typical water remediation system used for hydrocarbon-based liquids is approximately \$15,000.

## INSPECTION & CLEANING SERVICES

We offer our clients the option of having a trained service technician visit their facility, on a recurring basis, to inspect and clean their system ensuring proper function. Inspection programs are site specific.

