HAZARDOUS CHEMICALS STORAGE TECHNOLOGY

- Chemical Storage Cabinets
- Chemical Storage Buildings
- Customized Enclosures- Temperature Controlled and Fire Rated Designs
- Storage Lockers
- Steel Spill Decking Systems
- Automatic Doorway Spill Barriers
- Large Capacity Containment Berms- The HazBerm

»Solutions for storing hazardous substances in compliance with the law«
DENIOS ENGINEERING

For over 20 years DENIOS has been the worldwide leader in the design and manufacture of custom engineered chemical storage structures. Working directly with our customers we help assess risks and provide solutions for the safe storage and containment of hazardous chemicals and processes.

DENIOS ENGINEERING provides you

A complete understanding of hazardous chemicals and chemical processes. Our Technical Sales and Engineering Staff know specific chemicals and the risks they pose to facilities, personnel, and the environment. They will work with you every step of the way in designing a safe storage solution for your individual applications.

A partner in safety and environmental protection. When we put a DENIOS label on your product it’s to let you know we stand behind what we design and manufacture, and that we’re here for you well after the sale is completed.

DENIOS – "Working for a safer workplace & environment"

Responsibility
For your facilities. For your personnel. For your community.

The DENIOS Vision-

DENIOS is the worldwide leader in hazardous materials storage, industrial environmental protection, and workplace health and safety. Our highly motivated and skilled team is constantly searching for new ideas and creative innovations, making a positive impact in shaping the future. We provide customer benefits through exceptional product quality, prompt delivery and outstanding customer support and communication.

DENIOS pledges to be a confidence inspiring project partner and reliable problem solver for all environmental protection and workplace safety applications.
DENIOS ENGINEERING Product Range – an overview

Secured Hazmat Storage from DENIOS
DENIOS provides a complete range of Hazmat Storage Technology. Within this brochure you will find detailed information for storage systems and containers, with or without fire protection, as well as temperature control capabilities and other design/performance accessories. Take advantage of DENIOS expertise. Our highly skilled Sales and Engineering teams will be happy to advise you in these specific areas either by telephone or on site. From sumps to fire protection containers - we provide the largest range of Hazmat storage products available.

Chemical Storage Cabinets
The perfect storage enclosure for palleted drums or IBC Totes
- Numerous designs / configurations provide for storage capacities of 8 to 144 drums
- Suitable for indoor and outdoor placement
- All models include built-in, compliant spill containment sump
- Full face opening doors (hinged, sliding, and roll-up choices) allow ease of material handling

Chemical Storage Buildings
Heavy duty, secured enclosures designed to house hazardous chemicals and processes
- Great for secured storage and dispensing of frequently handled chemicals - fertilizers, fuels, oils and lubricants, and waste chemicals
- 25 standard sizes store up to 95 drums.
- Suitable for indoor and outdoor placement
- Designed for occupancy
- All models include built-in, compliant spill containment sump
- Can be designed with shelving systems for more flexible storage

Customized Enclosures- Temperature Controlled and Fire Rated Designs
- Two and four hour fire rated designs
- Numerous door style choices
- Fire suppression systems also available
- Heated and cooled temperature control systems
- Heating systems available for chemical processing operations

Storage Lockers
The perfect storage enclosure for palleted drums or IBC Totes
- Designs for 2-14 drums, 1-2 totes
- Full Face opening doors allow for ease of handling of palleted drums and IBCs.
- Lockers can also be occupied by personnel for chemical mixing and dispensing
- Locker heights allow for attaching pumps for dispensing. Shelf packages also available
- Easily relocated by forklift or crane
- Designed for indoor or outdoor placement
- All models include built-in, compliant spill containment sump

Steel Spill Decking Systems
- Provides spill containment for mixing and dispensing areas
- Modular system allows for multiple configurations
- Easy to transport or reconfigure as needs change

Automatic Doorway Spill Barriers
Products which can create indoor spill contained areas.
- Spill Barriers- Automatic or manual operation spill barriers transform a storage area into a containment room without interrupting normal traffic
- HazBerm- Creates a contained area around tanks or drums without requiring footers or any concrete pouring.
- Spill Decks- Modular spill contained decks allow chemical mixing and dispensing over a compliant spill sump.

Large Capacity Containment Berms- The HazBerm
- Modular berm system allows for custom sizes and configurations
- Polymer concrete segments highly chemical and fire resistant
- Requires no forms, footers, or on-site concrete pouring

Personalized Consumer Service
We produce Chemical Storage Containers tailored to your individual requirements. Contact our Technical Sales team for a free consultation - We look forward to assisting you.

Phone: 800-216-7776
Fax: 502-933-1560
E-Mail: info@denios-us.com
Internet: www.denios-us.com
Chemical Storage Cabinets

DENIOS is the pioneer in the development of Drum and IBC Storage Cabinets as a safer and more efficient alternative to buildings for chemical storage. The non-occupancy design of Cabinets, features full-face opening door styles, allows all materials to be moved via forklift, and relieves personnel from having to enter a potentially hazardous environment to maneuver containers by hand.

Product characteristics:
- Rigid steel frame structure, robust and reliable for daily industrial operations
- Suitable for flammable/inflammable liquids. A heat-insulated version is available for the frost-free storage of goods
- A wide range of standard sizes and configurations allow for numerous storage capacities
- Optional hinged, roll-up or sliding doors are available

DENIOS Cabinets – General Information
DENIOS Drum & IBC Storage Containers are all designed with a welded steel frame structure. The wall and roof are covered with high-quality metal sheets and are painted to ensure optimal corrosion protection. The spill sump, firmly welded to the frame, provides protection for the environment and groundwater.

Two tiered storage cabinet with hinged doors holds 16 drums.

Single tiered storaged Cabinet with sliding Doors for 6 IBCs.
Chemical Storage Cabinets

Choose from numerous standard design styles

Store hazardous substances in compliance with environmental requirements.
DENIOS manufactures the widest variety of styles of Cabinets available on the market today. Choose between single or multi-tiered designs with either one or two sided access. Cabinets are suitable for indoor or outdoor placement and provide complete physical separation of stored chemicals from the surrounding facility and/or from other incompatible chemicals or ignition sources.

Standard non-combustible construction of an 11 gauge tubular frame with 16 gauge steel walls. 2 and 4hr fire rated construction also available.

Choose between 1, 2, and 3 tier models

Perfect for storing and handling palletized drums and IBC totes

Compliant spill containment sump sits below galvanized grating

Feet for forklift access allow for easy relocation

Lifting eyes allow for easy relocation

A versatile range of accessories is available to meet your requirements on further individual equipment (see page 14).

*Cabinets only to be lifted when empty.

Cabinets are generally delivered in a single unit, ready for placement and are easily relocated as facility requirements change.

Common Applications for Cabinets:
- Segregated indoor or outdoor storage of flammable or other process chemicals
- Separation of flammable liquids from general warehousing areas
- Temperature controlled indoor or outdoor storage of raw materials
- Higher volume waste accumulation and storage areas

DENIOS ENGINEERING typical options

- Cooling unit / air conditioning
- Heat insulation
- Heating system
- Special dimensions
- "Frost-free" version for temperature-sensitive substances
- 2 and 4hr fire rated models

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Storage Cabinet
Product characteristics
- Steel profile structure
- Can be accessed by fork lift truck
- Supplied fully-assembled

Standard
- Spill sump made of steel
- Lifting eyes*
- Rigid rear stopping safeguard
- Completely painted version

Equipment
- Double design depth
- Lockable hinged, roll-up or sliding doors
- Sump made of plastics / stainless steel
- Horizontal drum storage
- Choose between blue, tan, and white paint colors.

Additional designs / styles
- Double design depth
- Lockable hinged, roll-up or sliding doors
- Sump made of plastics / stainless steel
- Horizontal drum storage
- Choose between blue, tan, and white paint colors.

DENIOS ENGINEERING
Equipment

A compliant spill containment sump sits below galvanized grating

Multiple door styles (hinged, sliding, and roll up) all provide full-face opening for easy access to drums/IBCs

Perfect for storing and handling palletized drums and IBC totes

Choose between I, 2, and 3 tier models

- Cooling unit / air conditioning
- Heat insulation
- Heating system
- Special dimensions
- "Frost-free" version for temperature-sensitive substances
- 2 and 4hr fire rated models

*Cabinets only to be lifted when empty.
**Chemical Storage Cabinets**

**IBC Storage Cabinets**

**Optimal Storage of IBCs**

These Cabinet designs have been modified to accommodate IBC totes. Bay lengths of 120 and 154 inches allow for storage of 2 or 3 totes per bay. Bay heights of 60, 80, and 84 inches all allow ample room for storage flexibility. IBC Cabinets can also be used for storing 55 gallon drums or drums on pallets.

**The choice is yours:**
- Up to 2 shelving levels
- Lengths of max. 27 feet as standard (6 totes)
- Varying widths for loading from one side or from both sides
- Front with hinged, roll-up or sliding doors
- Max. storage capacity for 24 IBCs per container
- Increased sump capacity exceeds mandatory federal regulations

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**Excerpt from our complete program:**

<table>
<thead>
<tr>
<th>Total Capacity per Cabinet (IBCs)</th>
<th>Sizes</th>
<th>Number of Storage Tiers</th>
<th>Number of Storage Bays</th>
<th>350-gals Totes per Bay (lbs)</th>
<th>Length L</th>
<th>Depth D</th>
<th>Height H</th>
<th>Load Capacity per Bay (lbs)</th>
<th>Sump Volume (gal)</th>
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<tbody>
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<td>1</td>
<td>3</td>
<td>154</td>
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<td>84</td>
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<td>154</td>
<td>50</td>
<td>60</td>
<td>14575</td>
<td>465</td>
</tr>
</tbody>
</table>

Storage cabinets are also available with double design depth with two sided access, increasing storage capacity 100%.
Standard options can provide for numerous, unique applications

DENIOS Cabinets can be designed utilizing many options, providing for the safe storage of most hazardous chemicals. Whether your needs require fire rated storage, temperature control, or the storage of acids and corrosives, DENIOS standard options provide the necessary engineered enhancements assuring safe, compliant storage of most chemicals.

Options include:
- 2 and 4 hour fire rated construction
- Hinged, sliding, and roll-up door styles
- Fire suppression systems
- Temperature controlled systems
- For more standard options, please see pages 20-21.

<table>
<thead>
<tr>
<th>Total Capacity per Cabinet (55-gal drums)</th>
<th>Sizes L x W x H</th>
<th>Number of Storage Tiers</th>
<th>Number of Storage Bays</th>
<th>Capacity per Bay (55-gal drums)</th>
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<td>27 x 10 x 15</td>
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<td>12</td>
<td>12</td>
</tr>
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</table>

Excerpt from our complete program:

Fire Rated Cabinets allows for easy loading/unloading of stored drums, keeping personnel out of a potentially hazardous environment.

Two-tiered cabinet out-fitted for horizontal placement of drums and with an optional vinyl curtain door.
DENIOS Chemical Storage Building designs provide more storage flexibility, enhancing the efficiency of the structure over competitive models. Numerous size options add up to 25 standard sizes to choose from in providing the optimal space for storing your hazardous chemicals or processes. Designed for occupancy by personnel, DENIOS also provides numerous options to enhance safety, efficiency, and security in all our Buildings. Most DENIOS Chemical Storage Buildings carry FM Approval.

**Sizes and Styles**
- Available in 8, 10 and 12 foot widths with lengths from 8 to 50 feet
- All units are built to accommodate indoor or outdoor placement. Door styles include hinged doors and roll-up doors and can be designed in multiple configurations
- Non-Combustible, fire rated, and temperature controlled models available

DENIOS Buildings – General Information
DENIOS Buildings are all designed with a welded steel frame structure. The wall and roof are covered with high-quality metal sheets and are painted to ensure optimal corrosion protection. The spill containment sump, firmly welded to the frame, provides protection for the environment and groundwater.

16 x 8 Storage Building can be engineered for the storage of chemicals or housing of chemical processes.

DENIOS also manufactures a light duty “Basic” Storage Building for non-hazardous applications.

This 28 x 8 Storage Building holds up to 38 drums. Seen here with optional door sets and integrated shelving package.
DENIOS Storage Buildings are modular structures designed for housing hazardous chemicals or processes. Standard Buildings provide storage for non-combustible chemicals. A wide range of options and wall/door constructions are available, allowing for the storage of flammables and combustibles or hazardous processes such as pumping or process heating.

Applicable Regulations:
DENIOS designs its HazMat storage buildings to be compliant with all recognized National Codes and generally accepted national standards. In addition to federal and local regulations, risk management organizations such as Factory Mutual (FM Global) have developed their own standards.

Store, mix, and dispense hazardous chemicals in a separate enclosure away from facilities and personnel

**Chemical Storage Buildings**

DENIOS Equipment

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Store, mix, and dispense hazardous chemicals in a separate enclosure away from facilities and personnel
Numerous Building configurations enhance your ability to create the right enclosure for any application

Choices of 8, 10, and 12 foot widths and lengths from 8 to 50 feet allow more flexibility to add shelving systems, combine storage and mixing/dispensing functions, or to enclose and secure hazardous processing equipment like pumps. While inside the enclosure, personnel are able to work with materials over a compliant spill containment sump.

Typical Applications
- Storage of multiple, manually handled drums and small containers
- Housing and enclosing of hazardous processes such as pumping, mixing, and dispensing
- Secured, isolated storage of toxic or dangerous chemicals
- Satellite supply storage for fuels or lubricants.
- Waste collection and sorting

Excerpt from our complete program:

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Excerpt from our complete program:
Buildings for Housing Hazardous Processes

Process Buildings
With the addition of standard and custom options and engineered construction, DENIOS Buildings are frequently utilized to house hazardous processes like pumping, mixing, heating, and dispensing. Designs include 2 and 4 hour fire rated construction as well as damage limited wall panels.

Process Applications include:
- Paint kitchens
- Pumping operations
- Battery Testing Enclosures
- Fuel Component Enclosures

Excerpt from our complete program:

Heated and cooled Storage Building with fire suppression system, fire rated construction, and explosion-relief panels designed to house automotive paint pumping equipment.

Heated and cooled Storage Building with optional door sets, fire rated construction, and heating system.

<table>
<thead>
<tr>
<th>Storage Capacity (55-gal drum)</th>
<th>Load Capacity (lbs)</th>
<th>Sizes L x W x H</th>
<th>Sump Volume (gal)</th>
<th>Floor Space (sq ft)</th>
<th>Inside Dimensions (in)</th>
<th>Door Opening (in)</th>
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<td>276 125 84</td>
<td>54 80</td>
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<td>364</td>
<td>420 125 84</td>
<td>54 80</td>
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<td>142100</td>
<td>40 x 12 x 9</td>
<td>1519</td>
<td>405</td>
<td>468 125 84</td>
<td>54 80</td>
</tr>
</tbody>
</table>
DENIOS Engineering leads the industry in the design and manufacture of customized enclosures designed for the safe storage of chemicals

We provide solutions for the safe storage of
- Flammables or flammable/explosive processes
- Acids or caustic chemicals
- Temperature sensitive chemicals, whether for preservation heating/cooling or process heating/cooling
- Completely customized enclosures provide added access for personnel, material handling equipment, or the incorporation of the structure into your existing processes or facilities

DENIOS Engineering provides you
- A complete understanding of hazardous chemicals and chemical processes
- Expert knowledge of regulations and fire codes
- A technical sales staff and engineering department working with you every step of the way in designing a safe storage solution for your unique application

Custom Engineered Options may include

- A crane system to ease drum handling.
- Emergency shower for personnel safety.
- Optional explosion proof lighting, fiberglass grating, and fire rated rollup doors.
- Shelves allow for efficient storage of smaller containers and tools.
- Acid resistant sump liner to protect the sump when storing aggressive chemicals.
- Enhance visibility and safety by adding lighting.

Temperature controlled cabinets provide process heating or cooling capabilities for stored chemicals.
Customized Enclosures – Temperature Control

DENIOS Temperature Controlled Enclosures can be Designed for Preservation Heating / Cooling of Temperature Sensitive Chemicals or Provide Higher Temperatures for Process Heating

- Designs provide thermostatically controlled steam or electrical heat and air cooling systems
- Air circulation/ventilation systems ensure proper heat/cooling distribution
- Enclosures are constructed with fully insulated, fire resistant walls and doors
- Typically employ hinged doors with perimeter gasketing and multi-point latching locks to maintain internal temperatures
- As with all DENIOS enclosures, structures feature an enclosed, compliant spill containment sump

Designed and Manufactured for Safe Chemical Processing
Process heating/cooling of chemicals has inherent dangers. DENIOS enclosures address many of those risks through their standard construction and with many safety options.

- Insulated, 2-hour fire rated wall construction (standard on all models)
- Explosion relief panels
- Over temperature controls/alarm systems
- Explosion-proof mechanical exhaust ventilation
- In addition, all models are suitable for outdoor placement, away from personnel and facilities

Call for a free, no obligation consultation 800-216-7776

Heated Cabinet for frost free storage of two IBC Totes.

Heating Cabinets with electric heating and circulating air fan for optimal air circulation.
Great for distribution facilities with inventories of flammable products/chemicals. Cabinets can easily be placed in existing storage aisles- easing material handling and eliminating the need for costly reconstruction.
Customized Enclosures – Fire Rated

Choose either Building or Cabinet designs to best fit your application

DENIOS Fire Rated Buildings
- Primarily used for storing flammable chemicals or processes
- Provide pre-engineered rooms separating flammable chemicals and/or processes such as pumping, dispensing, or mixing
- Designs allow for indoor or outdoor placement. Interior walls can be added to separate dangerous chemicals from processes

DENIOS Fire Rated Cabinets
- Primarily designed for the storage of flammable chemicals or products
- Provides for indoor or outdoor placement. Designs provide for multiple storage tiers and one or two sided access.
- Cabinet with self closing doors to keep fires outside of or limited to the inside of the enclosure

Call for a free, no obligation consultation 800-216-7776

Single-tiered, double-sided Cabinet with fire suppression, a heated bay, and roll-up doors.

16 x 10 Fire Rated Building holds up to 28 drums. Shown here with optional door sets and integrated shelving package.
Chemical Storage Lockers

DENIOS provides the most complete drum Locker program available. Designed for small volume storage of drums and IBC Totes, DENIOS’ Locker Program manufactures a variety of models; from secured, basic storage of non-combustible chemicals to more robust designs for hazardous applications, including 2-hr fire rated construction.

Sizes and Styles
- Locker capacities from 2-14 drums, 1-2 IBC totes
- All units are built to accommodate indoor and outdoor placement. Door styles vary and include hinged doors and roll-up doors
- Locker and door heights allow added headroom for attachment of mixers or pumps for dispensing/processing
- Non-Combustible, fire rated, and temperature controlled models available

Common Applications for Lockers:
- Outdoor storage of small volumes of hazardous chemicals
- Rail, marine, truck, and DOT terminals, storing/dispensing lubricants and oils
- Parks, turf, and nursery centers for storage of fertilizers and pesticides
- Temperature controlled outdoor storage of raw materials
- Hazardous waste accumulation centers

The majority of DENIOS Lockers are FM Approved – see individual pages for details.

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The majority of DENIOS Lockers are FM Approved – see individual pages for details.
Storage Lockers

K-Series Lockers
These light duty, economy Lockers provide for 1, 2, 4, and 8 drum capacities.
Great for secured storage of non-hazardous chemicals.
- Steel construction provides strength and durability
- 66 gallon sump meets EPA and UFC requirements
- Four way forklift access makes relocation easy
- Lockable hinged door provides added security and opens wide for easy access to drums/containers

PK-Series Lockers
- 72” interior headroom allows accessing vertically placed drums for pumping / dispensing
- Easily removable, galvanized steel grating
- Sump volumes meet EPA and UFC requirements
- Lockable hinged doors with inside release
- Add shelving for smaller containers
- Passive ventilation
- Exterior grounding lug
- Anchoring point
- NFPA 701 placard
- Choose between blue, tan, or white painted finish
Also available: Non-combustible and 2-hr fire rated construction models handle 2, 4, 6, and 8 drum capacities.
FM Approved
- Options include:
  Ramp, interior and exterior lighting, shelves, and a fire bottle
Our most complete Drum Locker series, features non-combustible, damage limiting construction, and 2-hr fire rated construction models, 2-14 drum capacities, and numerous options. FM Approved. 90 and 150 MPH rated designs.

- 10, 12, and 14 drum models feature multiple door sets to ease access to and handling of drums. Lockable door handles feature inside release mechanism for added safety/security.
- Designs are FM Approved.
- Features the same, quality construction advantages of our PK Series, but provides added capacities and options (see below).

### N-Series Lockers

2-14 Drum Locker shown with optional white color and dry chemical fire suppression (sold separately).

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions L x W x H (in)</th>
<th>Nominal Interior Dim. L x D x H (in)</th>
<th>Door Opening W x H (in)</th>
<th>Sump Capacity (gal)</th>
<th>Load Capacity (lbs)</th>
<th>Shipping Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Drum</td>
<td>96 x 58 x 96</td>
<td>56 x 42 x 81</td>
<td>52 x 79</td>
<td>77</td>
<td>1200</td>
<td>3000</td>
</tr>
<tr>
<td>4 Drum</td>
<td>96 x 70 x 98</td>
<td>56 x 52 x 81</td>
<td>52 x 79</td>
<td>99</td>
<td>2400</td>
<td>3400</td>
</tr>
<tr>
<td>6 Drum</td>
<td>118 x 71 x 98</td>
<td>77 x 52 x 81</td>
<td>52 x 79</td>
<td>125</td>
<td>3600</td>
<td>4000</td>
</tr>
<tr>
<td>8 Drum</td>
<td>143 x 71 x 98</td>
<td>102 x 52 x 81</td>
<td>52 x 79</td>
<td>165</td>
<td>4800</td>
<td>4800</td>
</tr>
<tr>
<td>10 Drum</td>
<td>168 x 71 x 98</td>
<td>127 x 52 x 81</td>
<td>2 x 52 x 79</td>
<td>205</td>
<td>6000</td>
<td>5500</td>
</tr>
<tr>
<td>12 Drum</td>
<td>193 x 71 x 98</td>
<td>152 x 52 x 81</td>
<td>2 x 52 x 79</td>
<td>245</td>
<td>7200</td>
<td>6400</td>
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<tr>
<td>14 Drum</td>
<td>238 x 71 x 98</td>
<td>195 x 52 x 81</td>
<td>3 x 52 x 79</td>
<td>315</td>
<td>8400</td>
<td>7800</td>
</tr>
</tbody>
</table>

### Specialty Lockers

2-hr, fire rated construction with automatic closing roll-up doors. 2 to 8 drum capacities. FM Approved. 90 and 150 MPH rated designs.

- Lockers have the same extended height allowing ample room for pumping and other activities.
- Rollup door has fuse link, automatically closing the door in case of fire.

Doors are UL Labeled and rated for 1 1/2 hours in accordance with FM Standards and NFPA regulations.

Options for N-Series and Specialty Lockers include:

- Ramp and Shelves
- Fire Bottle (FE-241)
- Dry Chemical fire suppression system
- 1.8 or 3.6kw electric heater with R-10 insulation
- 14,000 BTU air conditioner with R-10 insulation
  - Interior light (300W) with fan (350 CFM)
  - Exterior light (500W) with photo eye
  - Fiberglass grating and poly sump liner for storing acids/caustics

Lockers for 2-14 Drum, 2-hr fire rated design is constructed with UL Approved firewalls.
Storage Lockers

**IBC Tote Lockers**

Non-combustible, 2 hr fire rated, and special dispensing models highlight these 1-2 tote capacity designs. Numerous options also available. Most models FM Approved and provide 90 and 150 MPH rated designs.

- **Built to carry higher loads from IBCs**
- **Sump volumes meet or exceed EPA and UFC requirements**
- **Lockable hinged doors provide full face opening, easing material handling in and out of the Locker**
- **DLC (Damage Limiting Construction) wall construction available**

Available options include:
- **Fire Bottle (FE-241)**
- **Dry Chemical fire suppression system**
- **1.8 or 3.6kw electric heater with R-10 insulation**
- **14,000 BTU air conditioner with R-10 insulation**
- **Exterior light (500W) with photo eye**

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions L x W x H (in)</th>
<th>Nominal Interior Dim. L x D x H (in)</th>
<th>Door Opening W x H (in)</th>
<th>Sump Capacity (gal)</th>
<th>Load Capacity (lbs)</th>
<th>Shipping Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 MPH 1-IBC</td>
<td>99 x 70 x 100</td>
<td>69 x 62 x 61</td>
<td>56 x 61</td>
<td>559</td>
<td>5000</td>
<td>2300</td>
</tr>
<tr>
<td>90 MPH 2-IBC</td>
<td>153 x 70 x 88</td>
<td>123 x 62 x 61</td>
<td>55 x 61</td>
<td>501</td>
<td>10000</td>
<td>3100</td>
</tr>
<tr>
<td>150 MPH 1-IBC</td>
<td>99 x 70 x 100</td>
<td>87 x 61 x 61</td>
<td>56 x 61</td>
<td>506</td>
<td>5000</td>
<td>2300</td>
</tr>
<tr>
<td>150 MPH 2-IBC</td>
<td>153 x 70 x 88</td>
<td>121 x 61 x 64</td>
<td>110 x 61</td>
<td>501</td>
<td>10000</td>
<td>2900</td>
</tr>
<tr>
<td>150 MPH/DLC 1-IBC</td>
<td>99 x 70 x 100</td>
<td>67 x 61 x 61</td>
<td>54 x 60</td>
<td>560</td>
<td>5000</td>
<td>2300</td>
</tr>
<tr>
<td>150 MPH/DLC 2-IBC</td>
<td>153 x 70 x 88</td>
<td>121 x 61 x 64</td>
<td>108 x 60</td>
<td>501</td>
<td>10000</td>
<td>2900</td>
</tr>
</tbody>
</table>

**Heated Lockers**

Heated Lockers Provide Temperatures up to 350°F for Chemical Process Heating Applications. Choose between electric and steam heat, spill sump and floor level models.

**Great for Pre-Heating, Melting, or Normalizing Products Prior to Processing.**
Fire alarm components

Smoke / heat detectors & fire alarms
For the protection of fire proof containers it is important that an early warning system is installed. DENIOS uses certified multi sensors for this purpose. Smoke and fire detection is quick and reliable and can be installed in conjunction with a siren. The alarm system can be connected to the main alarm system.

Alarm beacons
In addition to audible alarms DENIOS can provide alarm beacons to work in conjunction with the main alarm system, enhancing the warnings effectiveness to personnel.

Sprinkler systems
Sprinkler systems provide extra safety in containers used to store flammable and non-flammable substances. DENIOS offers several types of sprinkler systems. We can provide, standard, heavy foam, powder, Novec or CO2 systems.

Fire dampers
Where air circulation is required, fire dampers can be installed featuring automatic closing air vent mechanisms. These close automatically as soon as fire is detected, thus cutting off the supply of oxygen to the fire source in the container.

Gauge technology

Temperature regulators
When stored, many substances require a constant temperature to avoid loss of quality or to prevent dangerous reactions. DENIOS uses the most up-to-date temperature regulators to ensure user friendly programming of required temperatures. The majority of DENIOS regulators can be programmed and adjusted on the main control box on the exterior of the container.

System monitoring
To monitor important features such as temperature, pressure, air quality etc., it is possible to install an assortment of sensors to the container. A continuous monitoring system can be installed to your specific requirement and standards. The system can be monitored in situ or attached to the main computer system which ensures a regular and safe way to monitor air flow etc.

Gas detectors
When storing dangerous substances, inappropriate use can result in severe health problems, as well as dangerous environmental damage. If poisonous gases are allowed to escape then early detection is a vital requirement. DENIOS can provide gas warning detectors where a pre-set level can be set and when reached an audible or visual alarm or both will occur.

Leakage Sensor
Leakage sensors can be installed in sumps to detect any leakage from container contents. The alarm can be audible, visual or both. Early detection allows prompt action to be taken.
Additional accessories

**PE and stainless steel sump liners**
When storing acids, alkalis or other aggressive substances, it is recommended that sump liners be installed, these can be manufactured both in PE and stainless steel. Further information regarding sumps can be found in our main catalog.

**Grating**
DENIOS fire proof containers are fitted with galvanized grating as standard. Alternative grating are available however and when storing aggressive substances, stainless steel grating or synthetic material grating can be provided.

**Grounding kits**
Grounding kits are required to avoid an electric discharge between the container and other conductive units. All DENIOS hazmat containers can be fitted with an accessory to avoid discharges. These are highly recommended for containers storing explosive materials.

**Special paint finishes**
DENIOS offers internal as well as external multi color finishes.

Climate control technology

**Heating / cooling**
Many substances require optimal heating or cooling storage to maintain quality. DENIOS provides heating systems using electric or steam heat.

**Insulation**
The walls of our hazmat insulated system containers guard against loss of energy, temperature and frost damage. DENIOS use different types of material ranging from a thickness of 60 to 125 mm.

**Air conditioning units**
DENIOS engineering provide precise solutions to temperature control, such as cooling units and air conditioning systems. With DENIOS expertise we always have a solution for your needs.

**Fire prevention air vents**
Where air circulation is required, fan-forced air vents can be installed featuring automatic closing air vent mechanisms. These close automatically as soon as fire is detected, thus cutting off the supply of oxygen to the fire source in the container.
Steel Spill Decking Systems

Provide compliant, modular containment for in-house dispensing operations

DENIOS Pre-engineered spill decks provide compliant, modular spill containment for in-plant dispensing operations.

Individual decks are 5” deep and sized from 4’ x 5’, 5’ x 5’, 4’ x 6’, to 5’ x 6’. This provides for multiple configurations and the flexibility to build around walls, columns, bollards, etc. Custom sizes also available.

Optional ramps ease material handling on and off the deck surface.

Galvanized grating is mounted above the spill sump, providing a storage base for drums, totes, dispensing racks, shelving.

In case of a spill, grating can be easily removed for clean-up / recovery.

Exclusive 5” decking provides secure spill containment and leak barrier for larger volume dispensing.

Joining components and anchoring hardware available for systems, please call for quote.
Durable steel construction provides added safety when dispensing flammables

5” Deep Modular Spill Decking provides economical compliance solutions for pre-existing areas

- Simplifies general house-keeping and maintenance in storage and dispensing areas
- Sump volumes are compliant with EPA and UFC spill containment regulations for 55-gallon drums
- Constructed of heavy gauge, corrosion resistant galvanized steel
- Welds are 100% inspected with low-viscous test to insure leak tightness
- Relocatable and expandable
- Easy to install and clean up
- Binder and anchor accessories secure systems in place
- For forklift and truck traffic, please call for a free consultation- 800-216-7776

<table>
<thead>
<tr>
<th>Spill Decking</th>
<th>Outside Dimensions (in)</th>
<th>Overall Height (in)</th>
<th>Sump Volume (gal)</th>
<th>Load Capacity (lbs)</th>
<th>Shipping Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4’ x 5’</td>
<td>49 x 61</td>
<td>5</td>
<td>66</td>
<td>350 psf</td>
<td>432</td>
</tr>
<tr>
<td>5’ x 5’</td>
<td>61 x 61</td>
<td>5</td>
<td>77</td>
<td>350 psf</td>
<td>513</td>
</tr>
<tr>
<td>4’ x 6’</td>
<td>49 x 73</td>
<td>5</td>
<td>74</td>
<td>350 psf</td>
<td>501</td>
</tr>
<tr>
<td>5’ x 6’</td>
<td>61 x 73</td>
<td>5</td>
<td>93</td>
<td>350 psf</td>
<td>595</td>
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</table>

<table>
<thead>
<tr>
<th>Ramp</th>
<th>Outside Dimensions W x L (in)</th>
<th>Overall Height (in)</th>
<th>Shipping Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4’</td>
<td>48 x 25</td>
<td>5</td>
<td>67</td>
</tr>
<tr>
<td>5’</td>
<td>60 x 25</td>
<td>5</td>
<td>83</td>
</tr>
<tr>
<td>6’</td>
<td>72 x 25</td>
<td>5</td>
<td>109</td>
</tr>
</tbody>
</table>

Ramps provided in lengths matching standard spill decking dimensions.

Decking systems can be quickly and easily set-up, reconfigured, or relocated as requirements dictate.
Federal Regulations along with Local Jurisdictions require that sprinkler water in combination with regulated or hazardous materials be prevented from being released into the environment via sewers, streams, or ground contamination. When a release occurs, fines and clean-up costs can be staggering.

**NFPA-30 4.4.2.5**
Curbs, scuppers, special drains, or other suitable means shall be provided to prevent the flow of liquids under emergency conditions into adjacent building areas.

**UFC-60.4.6.3.4**
Secondary containment for indoor storage areas shall be designed to contain a spill from the largest vessel plus the design flow volume of fire-protection water calculated to discharge from the fire-extinguishing system over the minimum required system design area or area of the room… for a period of 20 minutes.

**OSHA 1910.106 (e) (3) (iv) (a)**
Emergency drainage systems shall be provided to direct flammable or combustible liquid leakage and fire protection water to a safe location. This may require curbs, scuppers, or special drainage systems to control the spread of fire.
Fully automatic operation ensures barrier will close even in cases of power loss

Features of the Automatic Doorway Spill Barrier Include:

- Solid welded stainless steel construction
- Self-contained one piece system design
- Fully automatic operation, no external power source or factory compressed air required
- Easy installation in existing doorways; stores horizontally in the floor, permitting unobstructed vehicular and personnel traffic until a spill occurs
- Open barrier provides up to 6.5 tons axle weight capacity
- Designed to fit in doorways between 3 and 16 feet, with barrier heights of 12 to 24 inches

Automatic Doorway Spill Barriers are often utilized as containment equipment for Flammables Storage Rooms.

Operation- Flow of liquid triggers the Barrier to automatically shut

Nominal Width of Door (ft) | Model Number - 12-Inch Liquid Retention Height | Model Number - 18-Inch Liquid Retention Height | Model Number - 24-Inch Liquid Retention Height | Opening Span (in) | Sealed Width (in)
---|---|---|---|---|---
3 | R11-0312 | R11-0318 | R11-0324 | 36 | 40
4 | R11-0412 | R11-0418 | R11-0424 | 48 | 52
6 | R11-0612 | R11-0618 | R11-0624 | 72 | 76
8 | R11-0812 | R11-0818 | R11-0824 | 96 | 100
10 | R11-1012 | R11-1018 | R11-1024 | 120 | 124
12 | R11-1212 | R11-1218 | R11-1224 | 144 | 148
14 | R11-1412 | R11-1418 | R11-1424 | 168 | 172
16 | R11-1612 | R11-1618 | R11-1624 | 192 | 196

When not deployed, barrier door stores flat in floor, eliminating the need for ramps or berms. Automatically closes with introduction of liquid in the built-in collection sump, creating a liquid tight seal and containing the spill in the room where it originated.
DENIOS’ Exclusive HazBerm creates large, modular containment areas within facilities – a more efficient alternative to conventional berms and curbs

Patent-Pending modular design allows for custom sizing for each application
Polymer concrete segments are highly chemical and fire resistant
Use in combination with Doorway Spill Barriers to allow easy transport in and out of the Berm Area

Segments seal together to form a virtually leak-proof barrier.
HazBerm is both chemical and fire resistant.

The HazBerm is also effective for exterior chemical containment.

Combine with Manual or Automatic Doorway Spill Barriers to allow easy access to stored chemicals.

Systems are easily supplied and installed
Easily relocated or altered as needs change – no need to jackhammer and replace the existing system
Available in tan or black
Does not require floor footers, forms, or on-site concrete pouring.

Description | 3' Straight | 1' Straight | 1' Corner and 1' reverse Corner
--- | --- | --- | ---
Dimension - L x D x H (in) | 36 x 4 x 18 | 12 x 4 x 18 | inside dimension 8 x 4 x 18 outside dimension 12 x 4 x 18
Shipping Weight (lbs) | 90 | 29 | 44
Order No.- Tan | R05-0230 | R05-0210 | R05-0290
Order No.- Black | R05-0231 | R05-0211 | R05-0292 (Rev)

The HazBerm is available in 1 and 3 foot segments as well as the 1 foot corner segment. Hardware included, but not shown.
Compliance is just a click away!

The new DENIOS website provides comprehensive chemical storage products and information—helping keep your facilities safe and in compliance.

www.denios-us.com

Updated Site: new products, easier navigation

Take a look at our site and bookmark the page as a favorite in your browser.

- **Easy-to-use search engines:** You’ll always find what you’re looking for!
- Place an order whenever you want: **Open twenty-four hours a day!**
- Easy to navigate site highlights the most innovative chemical storage products!
- Success stories, **technical brochures** and much more!
- Presentation of innovative developments, including **product videos**!
- **Info pages with extracts from current regulations**!

NEW on our web site: Demonstration videos of our Automatic Doorway Spill Barrier and HazBerm—see how they can save you clean up and repair costs in case of a catastrophic spill.

Telephone: 800-216-7779 / Fax: 502-933-1560 or E-mail: info@denios-us.com • www.denios-us.com
The DENIOS Catalog
Our complete catalog provides over 1000 products supporting safe chemical storage and handling, spill containment, and overall workplace and environmental safety.

- Spill sumps and pallets
- IBC tote storage and containment
- Gas cylinder storage
- Drum handling
- Hazmat cabinets
- Pumps
- Parts cleaners
- Absorbents
- And much more

DENIOS provides the most complete line of hazardous chemical storage and containment equipment available.

From one drum sumps to large volume storage cabinets, DENIOS is your Number One source for equipment and guidance for keeping your facility in compliance.

PLEASE CALL FOR A FREE COPY!

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France	Tel. + 33 (820) 56 78 90
Italy	Tel. + 39 (010) 96 36 743
The Netherlands	Tel. + 31 (172) 50 64 66
Austria	Tel. + 43 (662) 663 105
Poland	Tel. + 48 46 832 60 76
Sweden	Tel. + 46 (36) 39 56 60
Switzerland	Tel. + 41 (0) 56 417 60 60
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Czech Republic	Tel. + 420 (383) 313 222
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