1. DESCRIPTION

TRIMPAC® Model B-6 and B-6B is a factory assembled trim package for a double interlocked preaction system with an electric/pneu-lectric release in a metal enclosure. The standard trim normally required on a deluge valve has been moved to a single cabinet. TRIMPAC® Model B-6 and B-6B provides access doors for the emergency release (B1) and alarm test valve (B7) for manual operation of these trim valves. TRIMPAC® Model B-6 and B-6B is equipped with priming water pressure and water supply gauge view-ports for easy monitoring of water pressures. TRIMPAC® Model B-6 and B-6B eliminates the installation of alarm trim piping and release trim piping at the deluge valve. The enclosure protects trim valves from inadvertent operation. The included stainless steel hoses (or field provided hard piping) from the valve body to the enclosure assembly allows the assembly to be installed remote of the sprinkler system riser. TRIMPAC® Model B-6 and B-6B can be utilized for systems regardless of valve size. A valve drain package for the deluge valve is required and is ordered based on the deluge valve size. See Figures 14-16 for drain trim charts.

2. LISTINGS AND APPROVALS

- cULus Listed - VLTR & VLTR7
- FM Approved - Preaction Sprinkler Systems, Refrigerated Area Sprinkler Systems

3. TECHNICAL DATA

Specifications:
- Rated Water Working Pressure: 250 psi (17.2 bar)
- Gauges: 0-300 PSI (0-20.7 bar)
- Weight: 34 lbs. (15.4 kg.)
- Dimensions: 16-1/8” (409 mm) high x 29-1/8” (748 mm) wide x 8-25/32” (223 mm) deep
- U.S. Patent Number: 6,848,513

Material Standards:
- Enclosure: 16 gauge steel, painted red: Epoxy Powder Coat
- Gauges: Brass 1/4” NPT, Plastic Body
- Solenoid Valve (1 NC): Brass Body ½” (1.27 cm), 24 Volt DC, 250 psi (17.2 bar) NEMA Rated 1, 2, 3, 3S, 4 or 4X, 9 Watt
- PORV: Brass Body, 250 PSI (17.2 bar), ½” NPT inlet, ½” NPT drain, ½” NPT sensing side
- Ball valves: ½” NPT female ends
- Strainer: Brass Body, ½” NPT inlet and outlet, 50 mesh stainless steel screen
- Restricted orifice: Brass Body, ½” NPT male inlet and outlet, 0.0625” orifice
- Spring Loaded Check Valve: Brass Body, ½” NPT female inlet and outlet
- Drain Check Valve: Brass Body, ½” NPT female inlet and outlet, EPDM clapper rubber
- Hoses (4): Flexible braided stainless steel hoses with steel fittings and connectors, PTFE lined
- Drain Hose (1): PVC Hose 60” long with brass hose connector x 1/2” NPT
- Trim Piping: ½” Galvanized or 1/2” brass
- Fittings: ½” Galvanized

Ordering Information:
- Part No. - Galvanized 13796B-6
- Part No. - Brass 13796B-6B (Brass available by special order only)

1. Accessories:
   a. Vertical Mounting Plate Kit - Part No. 11900
   b. Horizontal Mounting Plate Kit - Part No. 11901
   c. Hose Assembly Kit (Includes (4) Stainless Steel Hoses and (1) PVC Drain Hose) - Part No. 12072
   d. Individual 5’-0” Stainless Steel & PTFE Hose: Part No. 16558 (4) (included with Part Nos. 13796B-6 and 13796B-6B)
   e. Individual PVC Hose: Part No. 12071 (1) (included with Part Nos. 13796B-6 and 13796B-6B)
   f. Drain Package
      i. Galvanized - 1-1/2” - 11894-1
      ii. Galvanized - 2” - 11894-2
      iii. Galvanized - 2-1/2” & 3” - 11894-3
      iv. Galvanized - 4”, 6” & 8” - 11894-4
      v. Brass - 1-1/2” - 11894-5
      vi. Brass - 2” - 11894-6
      vii. Brass - 2-1/2” & 3” - 11894-7
      viii. Brass - 4”, 6” & 8” - 11894-8

Viking Technical Data may be found on The Viking Corporation's Web site at http://www.vikinggroupinc.com. The Web site may include a more recent edition of this Technical Data Page.
4. INSTALLATION (Refer to Figures 3 - 12 for identification of trim components. Refer to Figure 13 for wall mounting.)

1. TRIMPAC® Model B-6 and B-6B Trim Assemblies may be installed with angle style Model E Deluge Valves, sizes 1-½", 2", 3", 4" and 6", as well as straight through style Model F Deluge Valves, sizes 1-1/2", 2", 3" 4", 6", and 8".

2. TRIMPAC® Model B-6 and B-6B trim assembly and valve must be installed in an area not subject to freezing.

3. TRIMPAC® Model B-6 and B-6B trim assembly must be installed to facilitate drainage.

4. TRIMPAC® Model B-6 and B-6B trim assembly must be installed above the elevation of the drip check valve (C.2).

5. TRIMPAC® Model B-6 and B-6B trim assembly can be installed with the furnished hose package or ½" non-corrosive metallic piping. The maximum distance the TRIMPAC® Model B-6 and B-6B may be installed away from the deluge valve is 5'-0".

6. The deluge valve equipped with TRIMPAC® Model B-6 and B-6B must be installed in accordance with Viking Technical data. The required drain package must be installed in accordance with Figures 14-16.
   a. Remove all plastic thread protectors from the openings of the deluge valve and the TRIMPAC® Model B-6 and B-6B trim assembly.
   b. Apply a small amount of pipe-joint compound or tape to the external threads of all pipe connections required. Take care not to allow any compound, tape, or other foreign matter inside any of the nipples or openings of the valve or trim components.
   c. Verify that all system components are rated for the water working pressure of the system.

Hydrostatic Test:

The Viking deluge valve is manufactured and listed for use at a maximum Water Working Pressure of 250 PSI (17.2 bar). The valve is factory tested at 500 psi (34.5 bar). The Viking deluge/flow control valve may be hydrostatically tested at 300 PSI (20.7 bar) and/or 50 PSI (3.5 bar) above the normal Water Working Pressure, for limited periods of time (2 hours) for the purpose of acceptance by the Authority Having Jurisdiction. If air testing is required, DO NOT exceed 40 psi (2.8 bar) air pressure.

Trim Note: (Refer also to System Data and/or Trim Chart.)

Discharge piping from the auxiliary drain valve (C.1), the flow test valve (C.4), and all system drains should be kept separate. DO NOT connect the outlet of the drip check (C.2) to any other drain.

7. The priming line must be connected upstream of the system water supply main control valve (E.1).

8. After the deluge valve is set, operation of the deluge valve requires the release of priming water from the priming chamber. For TRIMPAC®, the release of the priming water from the priming chamber will be automatically controlled by the electric release system that is installed in the hazard area and the loss of air pressure on the system piping. Upon activation of the automatic electric release system and relieving air pressure from the system piping, the normally closed solenoid (B.12) will be opened, which will then relieve priming water pressure from the priming chamber.

CAUTION: OPERATION OF VIKING DELUGE VALVE BY PRESSURIZING THE PRIMING CHAMBER WITH AIR PRESSURE OR ANY OTHER PRESSURIZED GAS IS NOT RECOMMENDED OR APPROVED.

9. Placing the System in Service: (Refer to Figures 3 - 12.)
   a. Verify:
      i. The system Main Water Supply Control Valve (E.1) is closed and that the TRIMPAC® Model B-6 and B-6B and required drain package is installed according to Viking Trim Charts and schematic drawings for the system used.
      ii. The system has been properly drained.
      iii. Auxiliary Drain (C.1) is open.
      iv. The Emergency Release (B.1) is closed. Note: Emergency release (B.1) is closed when the handle is In-Line with the pipe. This allows the door to close when the valve is in the normal position.
      v. The system water supply piping is pressurized up to the closed Main Water Supply Control Valve (E.1) and the priming line is pressurized up to the closed Priming Valve (B.2).
   b. Establish air pressure in the system piping. Refer to Viking Technical Data describing double interlocked preaction systems with electric/pneu-lectric releases for air pressure options. (Air pressure is required in the system to open the supervisory air pressure switch so the release control panel may be re-set.)
   c. Set the electric release system. (Listed release control panel (F.1) must be in the reset position so the normally closed solenoid valve (B.12) is closed allowing the priming chamber to become pressurized, thereby setting the valve in the closed position.)
   d. Open priming valve (B.2).
   e. Open Flow Test Valve (C.4).
   f. Partially open Main Water Supply Control Valve (E.1).
   g. When full flow develops from the Flow Test Valve (C.4), close the Flow Test Valve. Verify that there is no flow from the open Auxiliary Drain Valve (C.1).
   h. Close Auxiliary Drain (C.1).
   i. Fully open and secure the Main Water Supply Control Valve (E.1).
   j. Verify that the Alarm Shut-off Valve (B.10) is open and all other valves are in their normal operating position.
   k. Depress the plunger of Drip Check (C.2). No water should flow from the Drip Check when the plunger is pushed.
6. INSPECTIONS, TESTS, AND MAINTENANCE

It is imperative that the system be inspected and tested on a regular basis. The frequency of the inspections may vary due to contaminated water supplies, corrosive water supplies, or corrosive atmospheres. Also, the alarm devices, detection systems, or other connected trim may require a more frequent schedule. For minimum maintenance and inspection requirements, refer to NFPA 25. In addition, the Authority Having Jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed. Refer to the specific Viking deluge valve data page for periodic testing.

Maintenance:
TRIMPAC® Model B-6 and B-6B should be inspected, tested, and maintained in accordance with the latest edition of NFPA 25, The Standard for Inspection, Testing, and Maintenance of water based fire protection systems, and in accordance with the Authority Having Jurisdiction.

NOTE: THE OWNER IS RESPONSIBLE FOR MAINTAINING THE FIRE PROTECTION SYSTEM AND DEVICES IN PROPER OPERATING CONDITION. THE DELUGE VALVE MUST BE KEPT FROM FREEZING CONDITIONS AND PHYSICAL DAMAGE THAT COULD IMPAIR ITS OPERATION. WHERE DIFFICULTY IN PERFORMANCE IS EXPERIENCED, THE VALVE MANUFACTURER OR AUTHORIZED REPRESENTATIVE SHALL BE CONTACTED IF ANY FIELD ADJUSTMENT IS TO BE MADE.
WARNING

Any system maintenance that involves placing a control valve or detection system out of service will impair the fire protection capabilities of that system. Prior to proceeding, appropriate impairment procedures per NFPA 25 shall be followed with the notification of all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected areas.

Failure to follow these instructions could cause improper system operation, resulting in serious personal injury and/or property damage.

After Each Operation:
1. Sprinkler systems that have been subjected to a fire must be returned to service as soon as possible. The entire system must be inspected for damage, and repaired or replaced as necessary.
2. Deluge valves and TRIMPAC® Model B-6 and B-6B that have been subjected to brackish water, salt water, foam, foam/water solution, or any other corrosive water supply should be flushed with good quality fresh water before being returned to service. Refer to specific deluge valve for maintenance schedule.

Figure 1 - Isometric View
7. AVAILABILITY
The Viking TRIMPAC® Model B-6 and B-6B is available through a network of domestic and international distributors. See the Viking Corp. Web site for closest distributor or contact The Viking Corporation.

8. GUARANTEE
For details of warranty, refer to Viking’s current list price schedule or contact Viking directly.
### Component Description

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<th>Component</th>
<th>Description</th>
<th>Part Numbers</th>
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<td>A</td>
<td>System Valve</td>
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| B.1 - B.12 | Trimpac® Components | Refer to Figure 12. |

#### Trimpac® Drain Package

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<td>Auxiliary Drain Valve (NC)</td>
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<td>C.2</td>
<td>Drip Check Valve</td>
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<td>C.3</td>
<td>Drain Cup</td>
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<td>C.4</td>
<td>Flow Test Valve (NC)</td>
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#### Water Flow Alarm Equipment

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<th>Description</th>
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<th>Corresponding Data Pages</th>
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<td>Alarm Pressure Switch</td>
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<td>Strainer</td>
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#### Riser

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#### Check Valve

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<td>3” - 8” - Easy Riser Check Valve</td>
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#### Release System

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<td>VFR-400 Multi-Hazard Release Control Panel</td>
<td>14152-1</td>
<td>290 a-h</td>
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<td>G.2</td>
<td>Electric Detection System</td>
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#### Table 1 - Trimpac® System Components

Refer to Figures 3 through 12 for component identification.

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**Note:** When viewing this Data Page online, **blue** text represents hyperlinks and will open the desired data page when clicked.

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**Legend for Figures 3 - 10**

- Dotted lines indicate electrical system wiring required but not listed in "System Components" Table. For additional wiring requirements refer to technical data for components used.
- Dashed lines indicate pipe required but not included with TRIMPAC trim packages. Minimum 1/2" nominal piping recommended.
- Smaller diameter hoses are the (4) included flexible braided stainless steel hoses. Also available as a kit (P/N 12072).
- Larger diameter hose is the included PVC Drain Hose. Also available separately (P/N 12071).
- **1/2" (15 mm) NPT for non-interruptible Alarm Pressure Switch (Optional)**
Figure 3

Double Interlocked Preaction System with Electric/Pneumatic Release

1-1/2" Angle Style Valve
Figure 4
Double Interlocked Preaction System with Electric/Pneum-electric Release

2", 3", 4" & 6" Angle Style Valve
Figure 5
Double Interlocked Preaction System with Electric/Pneu-lectric Release
1-1/2” & 2” Straight Through Vertical Valve
Figure 6

Double Interlocked Preaction System with Electric/Pneulectic Release

2-1/2” - 6” Straight Through Vertical Valve
Figure 7
Double Interlocked Preaction System with Electric/Pneu-electric Release
8” Straight Through Vertical Valve
Double Interlocked Preaction System with Electric/Pneu-lectric Release

1-1/2" & 2" Straight Through Horizontal Valve

Figure 8

Double Interlocked Preaction System with Electric/Pneu-lectic Release

A System Valve
A.1 Deluge Valve
B Trimpac
B.1 Trimpac Components (See Figure 12)
C Trimpac Drain Package
C.1 Auxiliary Drain Valve (NC)
C.2 Drip Check Valve
C.3 Drain Cup
C.4 Flow Test Valve (NC)
D Water Flow Alarm Equipment
D.1 Alarm Pressure Switch
D.2 Water Motor Alarm (F-2) (Optional)
D.3 Strainer
D.4 Electric Alarm Bell
E Riser
E.1 Water Supply Control Valve
F Check Valve
F.1 1-1/2" & 2" L-1 or M-1 Check Valve
F.2 Check Valve Trim
G Release System
G.1 Par-3 or VFR400 Release Control Panel
(VFR400 Panel available 1st qtr. 2008)
G.2 Electric Detection System
(Heat Detector shown for clarity)
G.3 Accelerator Model E-1 (Optional)
G.4 Ball Valve

SEE DETAIL DRAWINGS ON FIGURE II FOR VALVE CONNECTIONS

To Air Supply (Point A pg. 261-a-b)

To Pressure Switch (Air Supply)
Figure 9
Double Interlocked Preaction System with Electric/Pneu-lectric Release
2-1/2” - 6” Straight Through Horizontal Valve
Figure 10

Double Interlocked Preaction System with Electric/Pneu-lectric Release

8” Straight Through Horizontal Valve
Figure 11 - Valve Connections
**Figure 12 - Trimpac® Components (Items B.1 - B.12)**

1. **Emergency Release (B.1)** is closed when the handle is in-line with the pipe. This allows the door to close when the valve is in the normal position.

**Figure 13 - Mounting Dimensions**

**Wall Mounting Notes:**

1. Mounting Fasteners are supplied by the contractor.
2. Recommended Fasteners - Minimum ¼" x 1-1/2 Lg. Hex Head lag screws with washers.
3. When installing into concrete, drywall or metal, use typical grommet.
4. Approximate Weight of TRIMPAC® Model B-6 and B-6B and Flexible Hoses: 34 lbs. (15.4 kg)
**TRIMPAC® Drain Package Part Numbers**

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<th>Valve</th>
<th>Size</th>
<th>Galvanized</th>
<th>Brass</th>
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<td>Angle</td>
<td>6” (DN150)</td>
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**1-1/2” (DN40)**

Angle Style Valve

Drain Package Trim Chart

Figure 14

**2”, 3”, 4” & 6” (DN50, DN76, DN100 & DN150)**

Angle Style Valve

Drain Package Trim Chart

Figure 14
TECHNICAL DATA

September 16, 2013

Trimpac 251r

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

TRIMPAC® MODEL B-6 AND B-6B
DOUBLE INTERLOCK PREACTION
SYSTEM WITH ELECTRIC/PNEULECTRIC RELEASE

TRIMPAC® DRAIN PACKAGE PART NUMBERS

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1-1/2" 2", 2-1/2", 3", 4", & 6" (DN40, DN50, DN80, DN100, & DN150)

Straight Through Vertical Valve
Drain Package Trim Chart

1-1/2" 2", 2-1/2", 3", 4", & 6" (DN40, DN50, DN80, DN100, & DN150)

Straight Through Horizontal Valve
Drain Package Trim Chart

Figure 15
TRIMPAC® DRAIN PACKAGE PART NUMBERS

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8" (DN200) Straight Through Vertical Valve

Drain Package Trim Chart

8" (DN200) Straight Through Horizontal Valve Drain Package Trim Chart

Figure 16