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## **FIRE FLEX SYSTEM CONFIGURATION SHEET**

### **"ULC"**

The present form is to define the operational modes of the FireFlex system according to your own specifications. Just a few minutes is required to complete this form properly. All you have to do is check the boxes of the selected options and define delays when necessary and then return the completed form to your local distributor.

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_

System Id.: \_\_\_\_\_

System Size: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### **SYSTEM TYPE**

#### ◆ **PREACTION SYSTEM**

The automatic sprinkler piping network is supervised by air pressure, and will remain supervised even during a total electrical power loss (AC & DC ).

1  **SINGLE INTERLOCK**

The activation of a detector causes the filling of the system piping. Discharge occurs as soon as a sprinkler head is fused. An air pressure loss on the system without activation of the detection zones does not cause filling of the system piping. Only a low air trouble signal will sound.

2  **DOUBLE INTERLOCK**

The activation of a detector **AND** the fusing of a sprinkler head initiate discharge. Filling of the system piping or discharge don't occur by detection or an air pressure loss alone.

3  **DELUGE SYSTEM**

The sprinkler piping is not supervised. All sprinkler heads are of the open type. Total flooding will **ONLY** occur once the detection system is operated.

**DETECTION CONDITIONS**

- 4  **DETECTION BY AT LEAST ONE ZONE** (zone A **OR** zone B of the system)  
The activation of detection zone A **OR** B causes detection conditions.
- 5  **DETECTION BY CROSSED ZONES** (zones A **AND** B of the system)  
Both detection zones A **AND** B must be activated to satisfy detection conditions.
- 6  **DETECTION BY A SINGLE ZONE** (zone A of the system)  
Discharge is only initiated by zone A. When a single detection zone is required, zone B can be used as an independent conventional detection zone, without affecting discharge conditions.
- 7  **NORMALLY CLOSED INITIATING DEVICES ON ZONE A** (Available with items 5 and 6 only)  
Normally closed (N.C.) initiating devices on zone A should be used in conjunction with Automatic Discharge Termination Modes ( Contact FireFlex Systems Inc. for more information ).  
Only zone A can use N.C. initiating devices.

**ELECTRICAL PULL STATION**

The operation of a pull station will immediately open the flow control valve, and has priority over any other type of discharge release.

**PRE-DISCHARGE CONDITIONS**

- 8  **PRE-DISCHARGE DELAY**  
Discharge does not occur as long as this delay is not completed. This timer is controlled by the detection network.  
**PRE-DISCHARGE DELAY OF** \_\_\_\_ min \_\_\_\_ sec (from 15 sec. up to 1 min. 45 sec. in 15 sec. increments)
- 9  **ABORT STATION**  
Discharge is withheld as long as the abort station is maintained depressed. An abort station is generally used where a pre-discharge delay or crossed zones mode are selected. When a pre-discharge delay is selected together with the abort station, delay continues when the abort station is in operation. A "deadman type" switch (momentary contact) should be used in order to increase safety.
- 10  **SHUT-DOWN CONFIRMATION**  
A shut-down request signal is sent from the FireFlex system to the protected electrical equipment in order to shut-down electrical power. This signal is transmitted as soon as the discharge is required. Discharge is then delayed as long as a shut-down confirmation signal from the equipment is not received back by the FireFlex unit.

**DISCHARGE MODE**

The FireFlex system allows discharge control depending on the status of detection and discharge conditions.

**MANUAL DISCHARGE TERMINATION**

This mode requires the discharge termination by closing the main water inlet valve, regardless of the status of detection or discharge conditions. This is the basic configuration used if the option for automatic discharge termination is not selected.

**AUTOMATIC DISCHARGE TERMINATION**

Normally closed initiating devices on zone A should be used in conjunction with Automatic Discharge Termination Modes (refer to item 7).

11  **COMPLEMENTARY MODE**

Discharge continues as long as discharge conditions are maintained. When these conditions no longer appear, a programmable timer with a pre-determined delay is activated. Discharge is terminated at the end of the timer cycle.

12  **CYCLING MODE**

This mode allows a discharge cycle for a pre-determined time which starts as soon as discharge conditions are met. At the end of the cycle, if discharge conditions still exist, a new discharge cycle of the same time duration as before takes over. Otherwise, discharge is terminated.

**COMPLETE DISCHARGE TERMINATION AFTER \_\_\_\_\_ (1 to 15) CYCLES** (unlimited if not indicated)

The discharge termination is effected when the pre-selected number of discharge cycles is reached, regardless of the detection status. **The operation of a pull station will cause a discharge to start again.**

**TIMER DELAY FOR AUTOMATIC TERMINATION OF A DISCHARGE CYCLE**

The timer is valid for both complementary and cycling modes.

**DELAY OF \_\_\_\_\_ min \_\_\_\_\_ sec** (from 30 sec. up to 15 min. 30 sec. in 30 sec. increments)

**DISCHARGE BY TROUBLE**

If trouble occurs on the detection wiring of zone A or B once the discharge has stopped, the discharge starts again and continues as long as the trouble condition is active. If the "detection by a single zone" mode is selected, only a trouble on zone A will cause the discharge to start again.

**AVAILABLE OPTIONS**

Other options for special applications and additional information about the system are available. Please contact your local distributor or FireFlex Systems Inc. directly.

Form completed by: \_\_\_\_\_ Date: \_\_\_\_\_

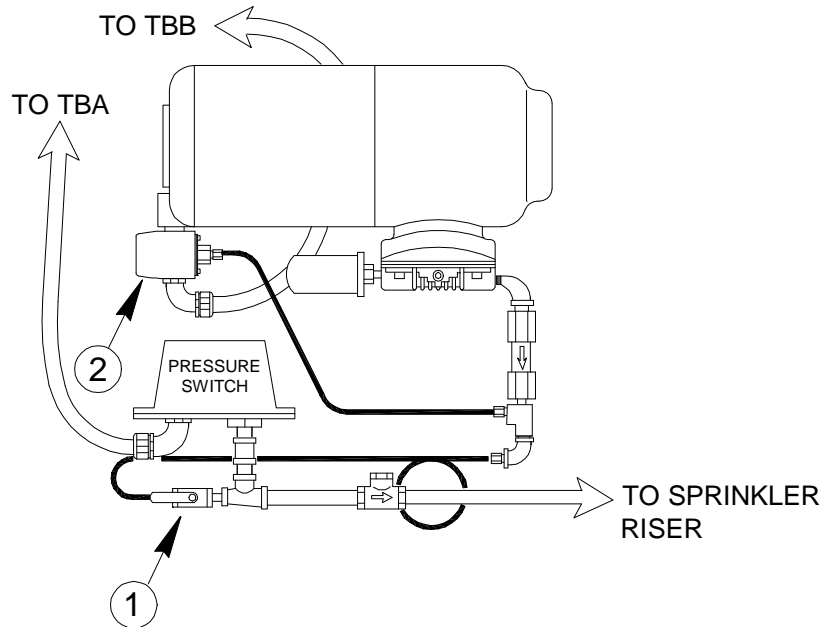
## Optional Air Supply Configurations

### AVAILABLE CONFIGURATIONS

- Option A - Direct Tankless/Automatic Air Compressor
- Option B - Air Pressure Maintenance Device (Viking Model D-2)

#### GAST Compressor (120 Vac only)

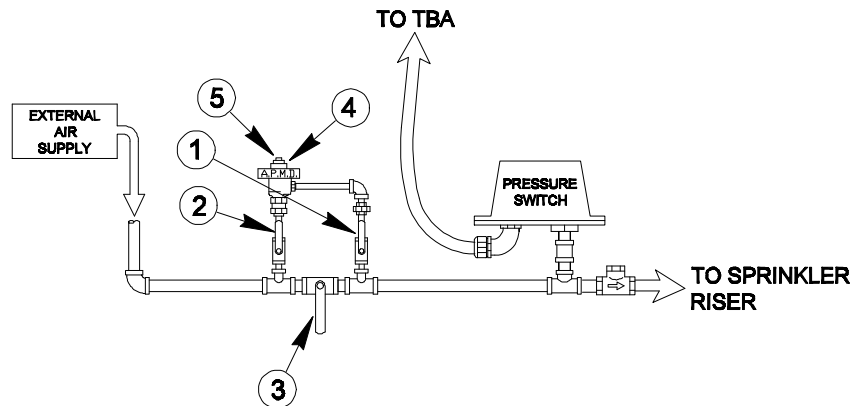
<u>Size of Air Compressor</u>	<u>System Capacity</u>
<input type="checkbox"/> 1/6 HP	Maximum 90 US gallons.
<input type="checkbox"/> 1/3 HP	Maximum 180 US gallons.
<input type="checkbox"/> 1/2 HP	Maximum 300 US gallons.
<input type="checkbox"/> 1 HP	Maximum 600 US gallons.

**OPTION A - DIRECT TANKLESS AUTOMATIC AIR COMPRESSOR**

FM-061H-0-31 B

**OPTION B - AIR PRESSURE MAINTENANCE DEVICE KIT**

Viking Air Pressure Maintenance Device, Model D-2



50-061D-0-32 A