

A graphic element for the ProTex II logo, featuring a series of parallel diagonal lines in red and orange, with a stylized flame icon in the center.

# **ProTex II<sup>®</sup>**

## **RESTAURANT FIRE SUPPRESSION SYSTEM**



## **OWNER'S MANUAL**

**ProTex II<sup>®</sup> Wet Chemical  
Restaurant Kitchen  
Fire Suppression System**

**Model L1600**

**Model L3000**

**Model L4600**

**Model L6000**

**T**HE NATIONAL FIRE Protection Association (NFPA) recommends that employees be instructed in personal safety and the operation of the system. Heiser Logistics provides this owner's manual with each ProTex II® Restaurant Fire Suppression System.

This owner's manual has been provided to help you understand:

- How your restaurant system works
- Your responsibilities for maintenance
- What to do in case of fire

This owner's manual is not intended to cover all requirements detailed in the ProTex II® System Technical Manual (Part# PMAN2). This manual is solely for the use of the end-user to become more knowledgeable with the fire suppression system and the steps necessary in the event of a fire.

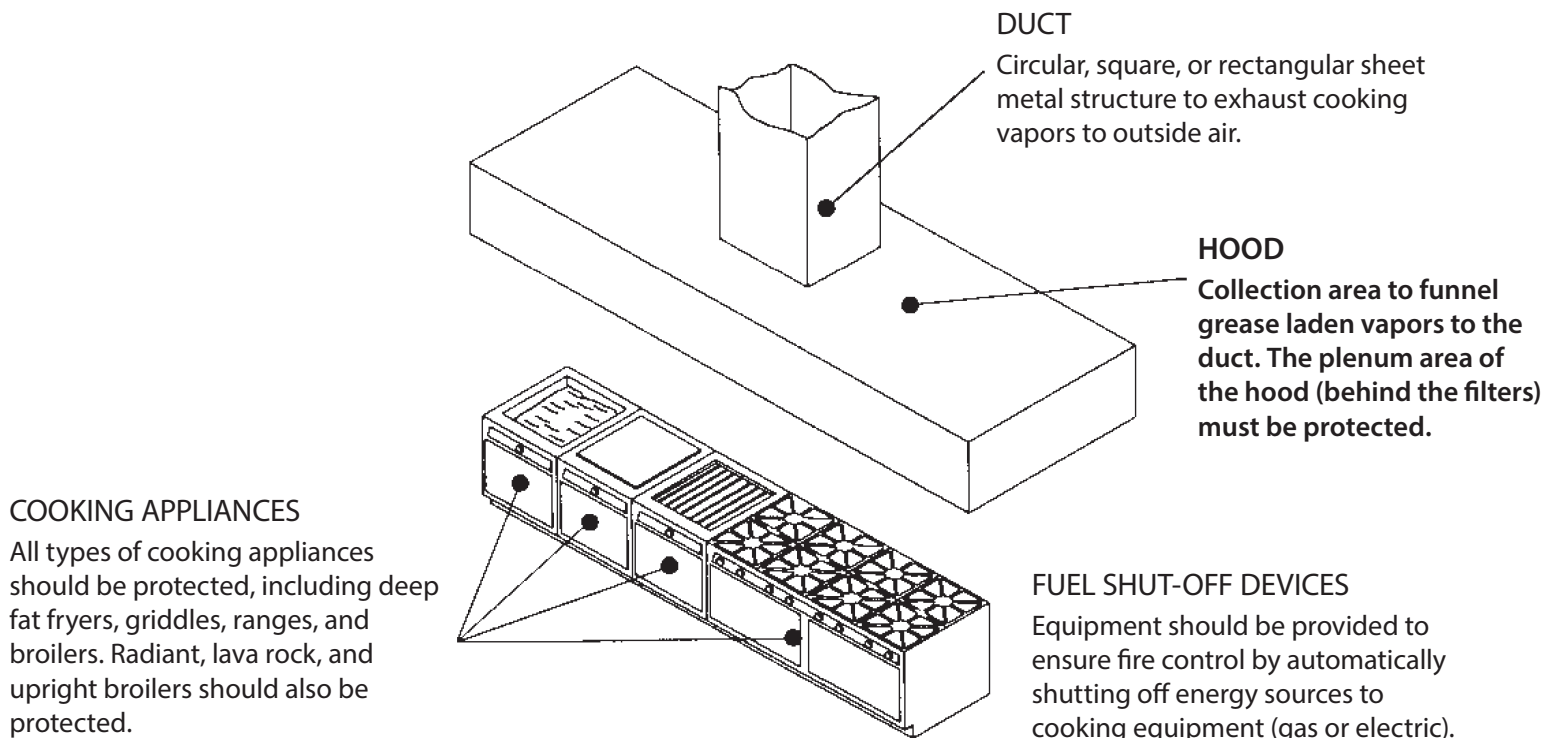
Should the end-user want to find out more information concerning the ProTex II® Restaurant Fire Suppression System, your authorized distributor can furnish a detailed Technical Manual

## Your Role in Fire Protection

Your ProTex II® Fire Suppression System is of the highest quality. It has been carefully engineered to be reliable, manufactured to exacting standards, and custom designed to protect your particular hazard.

If properly maintained, your system should provide years of protection. However, the primary objective of this manual is to provide enough basic information to help you to prevent a disastrous fire. By observing some fundamental rules, you can greatly reduce the risk of serious fire damage.

1. Keep all kitchen equipment free of grease build-up.
2. Never use flammable solvents or cleaners. Flammable residues could be left in the hazard area.
3. Never store flammable materials near cooking equipment or gas flue areas.
4. Make certain obstructions, such as utensils, pots, pans, cooking materials, etc. are not stored in areas that can obstruct the fire suppression system discharge.
5. Operate your exhaust system whenever the appliance is pre-heating, heating, cooking or cooling. This helps to prevent excessive heat build-up which could actuate the system.
6. Never operate filter-equipped exhaust systems without the filters in place. Excessive grease may build up in the hood and duct system. Cooking with filters removed can impact air movement and/or temperatures, which may result in system discharge. Use only UL listed filters.
7. Never restrict air intake passages; this can reduce the efficiency of your exhaust system. Cooking with filters that contain excessive amounts of grease can impact air movement and/or temperatures, which may result in system discharge.
8. Operate all UL tested grease extractors by the manufacturer's instructions to ensure effective grease removal from the hood and duct system.
9. Never tamper with the system components (i.e., detectors, nozzles, cylinder assembly(s) or control head(s)).
10. Before you revise your kitchen equipment layout or make changes which affect the basic configuration of the protected area, contact your trained, authorized ProTex II® Distributor for a system update evaluation. The system is made up of components tested within limitations contained in the technical manual. The system designer must be consulted whenever changes are planned for the system or area of protection.
11. Do not allow anyone except an authorized ProTex II® Distributor to perform maintenance on your ProTex II® Restaurant Fire Suppression System. Maintenance to your system must be performed semi-annually. It is essential that the system be maintained properly.
12. Post operating instructions in an obvious place in the kitchen and make sure your employees know what to do in case of fire.
13. Make certain that hand portable extinguishers are properly placed and compatible with the restaurant system. Class K extinguishers must be provided for hazards where there is a potential for fires involving combustible cooking media (vegetable or animal oils and fats). An authorized ProTex II® Distributor can assist your needs.



## How The ProTex II® System Operates

1. A fire starts in the protected area....
2. Heat sensitive fusible links activate the system.
3. Appliance energy sources are automatically shut off by accessory equipment appropriate for the type of fuel used by your cooking equipment.
4. The fire extinguishing wet chemical agent is discharged into the plenum and duct and onto the cooking appliances.
5. The agent and the hot grease mix to form a foam. This temporarily seals combustible vapors, helping to inhibit re-ignition. This seal must not be disturbed.

## Inspecting Your ProTex II® System

Your ProTex II® Restaurant Fire Suppression System should be inspected at least monthly. Should you discover any irregularities, contact an authorized ProTex II® Distributor immediately.

1. Never use corrosive cleaning solutions on the fusible links or cables. Check to make certain there is no corrosion to any of the detection system components. Certain high alkaline cleaners could cause corrosion.
2. Ensure that fusible links are replaced semi-annually. Deterioration of these fusible links could cause the system to be actuated or to malfunction in case of a fire.
3. Make certain the mechanical control head or master enclosure has not been tampered with, and that visual inspection seals are not broken or missing.
4. At daily intervals check your system for loose pipes and missing or grease-covered nozzle caps. Temporarily remove the nozzle cap and check to make certain it is not brittle, and snap back onto nozzle. Make certain nozzle caps are in place over the ends of each nozzle.

**Note:** *If nozzle caps are damaged or missing, contact your authorized ProTex II® Distributor for immediate replacement.*

5. Check each nozzle cap and make certain the cap can be turned freely on the nozzle.
6. Periodically check your visual indicator on the mechanical control head or master enclosure to make certain the system is in set position.
7. Have your system inspected by an authorized ProTex II® Distributor at a maximum of 6 month intervals and immediately after major hood and duct cleaning. Often fusible links are wired shut during the cleaning process to prevent accidental activation. This will prevent the system from operating automatically. Its also possible that your system might have been disconnected, damaged, or has accumulated excessive deposits of grease causing your system to become inoperative.
8. Check that the remote manual pull station is not obstructed, has not been tampered with, and is ready for operation.
9. Make certain that each cylinder and mechanical control head or master enclosure is mounted in an area with a temperature range of 32 °F to 120 °F.
10. Make certain the cylinder is not in an area in which the temperature can exceed 120 °F or can be heated to a temperature exceeding 120 °F due to conductivity through heated discharge piping.

## In The Event Of Fire In The Protected Area

1. Evacuate others from the premises. In a loud, clear voice say: "WE HAVE A FIRE — PLEASE LEAVE THE BUILDING CAREFULLY, BUT QUICKLY."
2. If the automatic actuation has not yet taken place, operate the system manually as follows:  
Pull handle or pull ring straight out on the remote manual pull station with enough force to actuate the fire suppression system. Once the fire suppression system is actuated, equipment to shut off the fuel supply to the cooking appliances will operate.
3. Call the local fire department or emergency number.

4. Stand by with a Wet Chemical hand portable fire extinguisher.

If you need to use it:

- a. Pull pin
- b. Stand back 10 ft
- c. Aim at base of fire, squeeze handle and sweep side to side

### CAUTION

1. Do not attempt to extinguish a grease fire with a hand portable fire extinguisher before the Fire Suppression System has been manually or automatically actuated.
2. Do not discharge wet chemical agent from the Wet Chemical hand portable fire extinguisher unless the fire suppression system will not operate or a re-flash has occurred.
3. Do not attempt to use a Class ABC Multipurpose Dry Chemical, CO<sub>2</sub>, or Water type hand portable fire extinguisher in/on an application with burning cooking oil or grease.

## Before Resuming Business

1. Immediately after discharge, call your authorized ProTex II® Distributor to inspect and recharge your Fire Suppression System.
2. Have your ProTex II® Distributor determine the cause of the system actuation.
3. Area must be cleaned up within 24 hours after discharge using warm water and cleaning detergents.
4. Allow to completely dry before re-energizing the equipment

## Cleanup Procedures

Although there is no unusual cleanup procedure for ProTex II® wet chemical agents, due to the alkaline nature of these agents, they should be cleaned from kitchen surfaces within 24 hours after system discharge. The reaction from the wet chemical agent on cooking grease or oil produces a foamy by-product that can be wiped up with a cloth or sponge. The following procedures should be followed:

### CAUTION

Before attempting any cleanup, make certain that all fuel sources to the equipment to be cleaned have been shut off. Make certain that the exhaust hood and all appliance electrical controls have been de-energized to avoid any chance of electrical shock resulting from the cleaning process or from electrically conductive alkaline liquid agent and/or its residue.

- a. Make certain all surfaces to be cleaned have cooled down to room temperature.
- b. Do not use water to clean any appliances that contain hot grease or cooking oils. Doing so may result in violent steaming and/or spattering.

1. The fire suppression system agent is non-toxic; however, food product and cooking grease/oil that has come in contact with the agent will no longer be suitable for human consumption and should be discarded.
2. Sponge as much of the agent as possible using sponges or clean rags. Dispose of these sponges or rags in a local sanitary land fill site in accordance with local authorities.

**Note:** *Wear rubber gloves during cleanup as sensitive skin may become irritated. If the ProTex II® wet chemical agent or its residue comes in contact with skin or eyes, flush thoroughly with clean water.*

3. Using hot, soapy water and either a clean cloth or sponge, wipe away all foamy residue and thoroughly scrub all surfaces that have come in contact with the agent.
4. After thoroughly cleaning all affected surfaces, adequately rinse and allow to completely dry before re-energizing the equipment.



## WARRANTY

A. Express Warranty. Heiser Logistics warrants to you, as the original purchaser, that the ProTex II® System shall be free of material defects resulting from inferior materials or poor workmanship for the periods listed below from the date of delivery, based on the supplier of the parts:

THREE YEAR WARRANTY	ONE YEAR WARRANTY	WARRANTY PROVIDED BY MANUFACTURER PLEASE CONTACT US FOR MORE INFORMATION
Alarm Initiating Switch	Cable	ASCO Mechanical Gas Valve
Agent Distribution Hose	Corner Pulley	ASCO Solenoid Gas Valve
Cylinder Mounting Bracket	Gas Valve Box	Evergreen Hood Seal
Electrical Switch/Microswitch	Jiffy Hood Seal	Globe Fusible Link
Flexible Conduit	Link Housing Detector Bracket	
Heiser Mechanical Gas Valve	Reset Relay	
Nozzle	Tee Pulley	
ProTex II® Cylinder		
ProTex II® Enclosure		
ProTex II® Mechanical Control Head		
ProTex II® Pneumatic Actuator Cylinder		
ProTex II® Remote Mechanical Pull Station		
Stainless Steel Actuation Hose		

No agent, sales representative or other employee of Heiser Logistics shall have the authority to modify or expand this express warranty in any way.

**B. EXCEPT AS EXPRESSLY PROVIDED IN A ABOVE, HEISER LOGISTICS DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, AS TO THE ProTex II® SYSTEM, AND IN PARTICULAR, DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES: (I) AS TO THE DESIGN, QUALITY OR CONDITION OF THE ProTex II® SYSTEM; (II) AS TO THE MATERIAL, EQUIPMENT OR WORKMANSHIP IN THE ProTex II® SYSTEM; (III) AS TO THE MERCHANTABILITY OR FITNESS OF THE ProTex II® SYSTEM FOR ANY PARTICULAR PURPOSE; (IV) AS TO THE SUITABILITY OF THE ProTex II® SYSTEM FOR YOUR PURPOSES OR THE IMPACT OF THE ProTex II® SYSTEM ON YOUR OPERATIONS.** Heiser Logistics makes no warranties or guarantees regarding the production or performance you or any other person or entity may obtain from the ProTex II® System.

C. Heiser Logistics' sole obligation for any non-conforming parts shall be, at Heiser Logistics' option: (I) to repair or replace such parts, or (II) refund any portion of the purchase price you have paid; provided that Heiser Logistics is not responsible for repairing or replacing parts not supplied by Heiser Logistics. Any parts not supplied by Heiser Logistics may be subject to additional requirements, constraints, or other warranty terms. Please contact Heiser Logistics or your authorized ProTex II® Distributor for more information. This limited remedy shall be your exclusive remedy.

**D. HEISER LOGISTICS SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST REVENUES AND PROFITS AND DAMAGES FOR BREACH OF CONTRACT, BREACH OF WARRANTY AND NEGLIGENCE.**

E. For repairs, parts, and service of the ProTex II® or any parts thereof, contact your authorized ProTex II® Distributor.