

HHR1000

UL300A Exhaust Hoods



Form#: SS205_HHR1000-UL300A Exhaust Hood
Date: 03-2021 - Rev1

The HHR1000 hoods are the first fully integrated, pre-engineered fire suppression range hood systems introduced to the market. Using many components found in a full commercial hood, The HHR1000 hoods fulfill all of the theory and intent behind a Type I commercial hood with fire suppression, in a product designed for use over a residential grade appliance. Our hoods incorporate a suppression system that is proven effective by using a mechanical system, a wet chemical agent, hardwired disconnect options and alarm contacts. They're easy to install and are an ideal option for any cooking space using a residential style range.

Features & Benefits

- HMI touchscreen display
- Stainless Steel finish
- Wall mounted
- Ability to store multiple passwords for multiple users
- Multiple power disconnect options
- May be used as a standalone option or in conjunction with our hood systems

Applications

- Institutional & Limited Commercial Installations
- Common Kitchen Areas
- Colleges & Universities
- Day Care Centers
- Schools
- Elderly Communities Managed Care Facilities Group Homes
- Churches Fire Houses
- EMS Facilities
- Military Housing

Any cooking space using a residential style range in a not for profit application



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Features

- Fully Integrated Fire Suppression System
- 30 Inch Wide or 36 Inch Wide
- ETL Tested, UL300A & UL507 Compliance
- Options available to meet NFPA101 Life Safety Code. NFPA101 Compliant
- Optional Sealed Unit - National Sanitary Foundation (NSF) Approved Option
- Gas, Electric, DED, DRD Fuel Source Disconnects
- Mechanical "Fail-Safe" Actuation
- Fuel Source Disconnect Interlock
- Low pH Suppressant Agent (Amerex 660)
- 304 Stainless Steel Hood
- Optional Manual Pull Station
- Grease Baffle (NFPA 96 & 17A)
- Optional ADA Switch Compatible with handicap accesible controls
- ClockBox Compatible
- Front Recirculating & Rear Ventilation
- Roof & Wall Venting Options
- Inline Fan
- Variable Speed Motorized Impeller
- Tank Pressure Gauge
- High Pitch Audible Buzzer (90 dB)
- Stages of Pre-Suppression (2)
- NFPA101 Compliance
- National Sanitation Foundation (NSF)
- LED Visual Annunciation
- Plenum Nozzle
- Programmable Logic Controllers (PLC)
- Number of Nozzles (4/5***)
- Number of Fusible Links (3)
- Number of Alarm Contacts (3)
- Optional Gloss White Finish*
- Option of Power Coat Finish in Custom Colors
- Standard Warranty Period (3 Years)

*Upon Request (additional charge)

*** HHR1036=4, HHR1030 =5

The Timerbox

The TIMERBOX helps prevent unauthorized cooking and reduces the risk of unattended cooking. It works by disconnecting power to the range until the operator unlocks the system for a pre-set amount of time simply by entering a passcode. In addition to being used as a stand-alone product, the TIMERBOX can be used with the HHR1000 as part of Halton's NFPA101 upgrade and would allow for 120 minutes of use at one time. Whether or not a facility is required to monitor the use of the ranges within, the TIMERBOX is an excellent additional source of protection.



Timerbox



Timerbox Pro

Product Model Code

How to Build A Hood System

1. **Select Model** – What core model is required – HHR1030 or HHR1036
2. **Select Fan Type** – What type of fan is required – Recirculating, Rear Venting, Ducted or NFPA?
3. **Select a Disconnect** – What type of disconnect is required – Electric (E), Gas (G), or Dual Element (DED)?
4. **Select Options** – Do they need an Extended Warranty, Manual Pull Kit, ClockBox or ADA, etc.?

HHR10XX-D-RF-G-CLBX-ADA-MPK-EX

Core Model

HHR1030 = 30 Inch HHR1000
HHR1036 = 36 Inch HHR1000

Ventilation

D = Top Vented Ducted
F = Front Recirculating
R = Rear Vented

External Fan Type

IF = Inline Fan
RF = External Roof Mounted Fan
WF = External Wall Mounted Fan

Optional Components

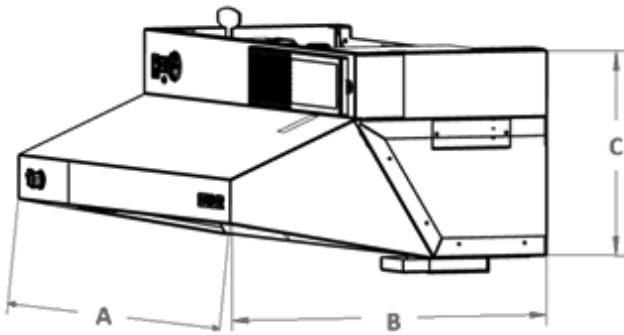
ADA = Handicap Accessible Fan & Light Controls
CLBX = Timerbox
CLBX Pro = Timerbox Pro
CC = Custom Color or Finish
EX = Extended Warranty
MPK = Manual Pull Station
NFPA = NFPA101 Compliance Upgrade
NFPA-PRO = NFPA101 Compliance Upgrade with upgrade to Timerbox Pro
LSC = Limiting Speed Control
FBO = Fan By Others
MACM = Make-Up Air or Damper Control Module
Strobe = Strobe Light & Alarm
CFCS = Common Fan Use
BPFC = Control Multiple Fans

Fuel Source Disconnect

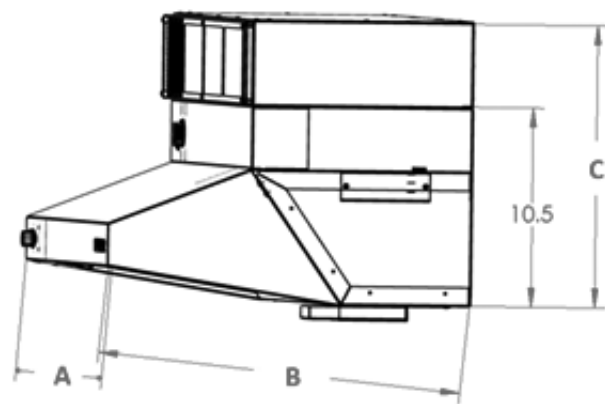
E = Electric Disconnect †
G = Solenoid Gas Valve Disconnect
DED = Dual Element Disconnect †
DRD = Dual Receptacle Disconnect †
† = NEMA selection required

Product Model Code

HHR1000 Standard



HHR1000 NFPA (Option)



HHR1030 = 30 Inch HHR1000
HHR1036 = 36 Inch HHR1000

F = Front Recirculating
R = Rear Vented
D = Top Vented Ducted

IF = Inline Fan
RF = External Roof Mounted Fan
WF = External Wall Mounted Fan

MODEL	MOUNTING CONFIG.	MOUNTING HEIGHT (in)	(A) LENGTH (in)	(B) DEPTH (in)	(C) HEIGHT (in)	WEIGHT (lbs)
HHR1030-F Standard	WALL	MIN: 24 MAX: 30	30	19.38	10.5	53.4
HHR1030-F NFPA					14.8	75
HHR1030-R Standard					10.5	53.4
HHR1030-R NFPA					14.8	75
HHR1030-D-IF Standard					10.5	53.4
HHR1030-D-IF NFPA						
HHR1030-D-RF Standard						
HHR1030-D-RF NFPA						
HHR1030-D-WF Standard						
HHR1030-D-WF NFPA						

MODEL	MOUNTING CONFIG.	MOUNTING HEIGHT (in)	(A) LENGTH (in)	(B) DEPTH (in)	(C) HEIGHT (in)	WEIGHT (lbs)
HHR1036-F Standard	WALL	MIN: 30 MAX: 36	36	19.38	10.5	56.8
HHR1036-F NFPA					14.8	78.8
HHR1036-R Standard					10.5	56.8
HHR1036-R NFPA					14.8	78.8
HHR1036-D-IF Standard					10.5	56.8
HHR1036-D-IF NFPA						
HHR1036-D-RF Standard						
HHR1036-D-RF NFPA						
HHR1036-D-WF Standard						
HHR1036-D-WF NFPA						

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Specification

Submittals

Submit product data and shop drawings on packaged exhaust hood.

General

- Hood system shall be installed as 300A compliant
- NFPA 101 compliance is an available option on the Halton HHR1000.
- The hood shall be operating at a minimum of 500 CFM when NFPA101 compliant.

Standards of Construction

- A. Hood shall be constructed of 18 gauge minimum, 300 Series stainless steel outer shell. Hood shall be either 30 in. long (to cover 30 in. range) or 36 in. long (to cover 36 in. range). Hood shell shall be manufactured and assembled with no visible outer welds or weld marks. All internal seams shall be sealed with NSF-approved caulk, standard. A metal baffle filter shall be provided. One (1) 60W Incandescent Shatterproof or equivalent LED hood light shall provide lighting on the range below.
- B. Kitchen ventilation hood shall be recirculating or exhaust only, and cover a domestic range in commercial environments used for light duty cooking purposes only. The hood shall be ICC evaluated and certified as compliant with International Mechanical Code (IMC), International Fire Code (IFC), and Uniform Mechanical Code (UMC). If provided with a fan, the fan shall be UL 507 listed or equivalent. Hood fire suppression shall be listed by ETL to the standards of the UL Subject 300A. Hood shall be configured as wall style (supplied with wall mounting bracket).
- C. Hood shall include factory-installed UL Subject 300A fire suppression system, including environmental monitoring, wire rope, fail-safe fusible links, and mechanical actuation. No electronic detection or actuation shall be accepted. Fire suppression shall be a fail-safe method and consist of three fusible links (212° for 30"; 280° for 36"), temperature switches that monitor the cooking surface and upon reaching the first set-point, send a signal to turn the fan ON, at the second set point sends a signal to maintain the fan ON, while also sending a signal to shut OFF power to the range and sounding a local alarm. When the set point of the fusible links

is reached, the tension on the actuator paddle releases pushing down on the actuator of the suppression tank; expelling the wet chemical agent from the pre-charged tank, a signal is sent to shut OFF power to the range and a local and (when connected) building fire alarm will be activated.

Tank pressure shall be monitored using tank pressure switch and a fault will cause the system alarm to beep and the LED status light will simultaneously flash 4 times.

All fire suppression and control components must be easily accessible by dropping the hood into a service position to allow for service without removing the hood from the wall. Thumb screws shall be utilized to hold the hood into place for normal operation. No latches are acceptable.

- D. Hood system shall include either an electric or gas shut off device that shall be field connected directly to the hood via factory-provided plug and play cables. Prior to fire suppression release, the shut off device shall be responsible for disabling the range upon detecting a high temperature. Gas disconnect (if provided) shall include a 3/4 in. gas valve supplied with plug and play cable, and a 120VAC control receptacle is available upon request. Other electric disconnect receptacle types are also available upon request.
- E. Hood system with NFPA 101 compliance, must include: a minimum of 500 CFM fan, locked (password protected) appliance disconnect with timed-automatic range deactivation, and manual pull station.
 - 1. Pull station shall be a mechanical pull station. Electronic pull station is not acceptable.
 - 2. Password protected access will be mounted remotely. Hood mounted password access is not acceptable.
- F. User controls shall be provided to control fan, and lights. A hood mounted touchscreen is not acceptable. The status LED and audible alarm may be used to determine any faults within the system. All hood controls must be accessed by switches and potentiometers on the hood itself unless supplied with an ADA Switch with factory provided plug and play cable or controlled in conjunction with a touchscreen that is mounted remotely.

- G. The hood system shall be configured with either a factory-supplied integral fan, factory-supplied external fan, or fan by others. Integral fan options include either front recirculating or rear discharge. Front recirculating style shall include an easily accessible charcoal filter and opening in the front of the hood for filtering the exhaust air before discharging back into the space. Rear discharge shall direct the air to exit the back of the hood, to discharge through a wall to the outside. External fan options include either a factory-provided inline fan (with plug and play cable), wall mount fan, roof fan or fan by others option with a top discharge hood configuration. Top discharge shall direct the air to exit the top of the hood, to discharge through a roof or wall to the outside. All factory provided fan options shall be listed to UL507 standards.
- H. Dry contacts are provided standard for integration to building alarm systems.
- I. Check, Test and Balance:
 - 1. The kitchen exhaust system shall be inspected, tested and balanced by a qualified contractor. The contractor shall ensure proper and satisfactory operation of the kitchen exhaust system and shall provide a written and detailed report of this check, test and startup to the Engineer and Owner.

Execution

The entire packaged kitchen exhaust hood shall be installed by qualified contractors meeting any licensing criteria in the jurisdiction they are installing.

The company has a policy of continuous product development, therefore we reserve the right to modify design and specifications without notice.

For more information, please contact your nearest Halton agency. To find it: www.halton.com