



# Holey Smokes

## Users Manual



256-229-5551

24-Hour Technical Support: 888-391-7669

[www.snowmasters.com](http://www.snowmasters.com)

Lifetime Warranty

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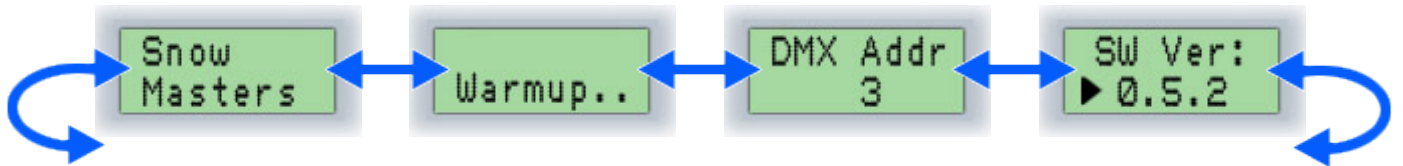
This manual provides instructions for the panel operation of the smoke ring generator Holey Smokes. Please read all the instructions.

## Holey Smokes Control Panel



Button Functions	
<b>BACK Button:</b> Returns to previous menu or cancels a value change	
<b>UP/DOWN Buttons:</b> Scrolls through available menu options	
<b>ENTER Button:</b> Selects menu option	
Implements selected values	

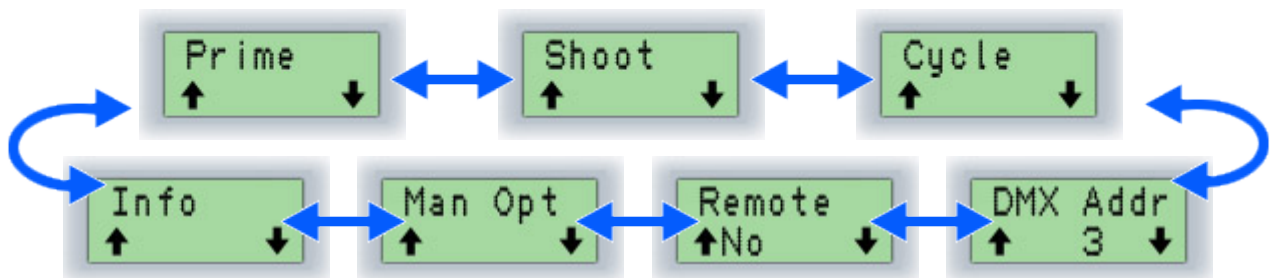
- With the machine plugged into a power source, turn on the red power switch. The LCD panel will light and the opening display will automatically alternate between the following: "SnowMasters", "Warmup..." or "Ready...", "DMX Addr X", and "SW Ver: 0.5.2". Also, the green power light will glow.



NOTE: When the machine is turned on, it begins an approximately 5-minute warm-up process. When the warm-up is complete, "Warmup..." will change to "Ready...".

- To begin, press the **Enter** button.

One of the main menu options appears on the display. The **Up** and **Down** buttons may now be used to scroll through all the options, including "Prime", "Shoot", and "Cycle", "DMX Address", "Remote", "Manual Options", and "Information". See the following steps for details on these options. To return to the opening display (#1), click **Back**.



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- 3 With the "Prime" option visible, click the **Enter** button.



The machine's chamber will fill with fog, and the display will read "Run".



When priming is completed, "Run" will change to "Done".



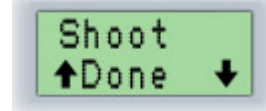
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- 4 With the "Shoot" option visible, click the **Enter** button.



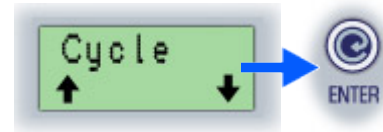
The machine will shoot one ring with each click of the **Enter** button, and the display will read "Run".



After each ring is shot, "Run" will change to "Done".



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- 5 With the "Cycle" option visible, click the **Enter** button.



The machine will run through one complete cycle of the settings made in "Manual Options" (see Step #8). While the cycle is in progress, the display will read "Run".



After the cycle is completed, "Run" will change to "Done".



NOTE: If you want to interrupt the cycle, click the **Back** button.

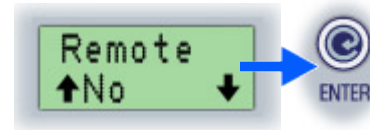
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- 6 With the "DMX Addr" option visible, click the **Enter** button.



A triangle will appear on the left side of the display. Using the **Up** and **Down** buttons, select the address you are using. Click **Enter**. (To cancel the value change, click **Back**.)



- 7 With the "Remote" option visible, click the **Enter** button.



A triangle will appear on the left side of the display. Using the **Up** and **Down** buttons, select "Yes" or "No". Click **Enter**. (To cancel the value change, click **Back**.)



- 8 With the "Man Opt" option visible, click the **Enter** button.



The **Up** and **Down** buttons will now take you through the 3 options in the sub-menu, "Ring Frequency", "Ring Count", and "Remote Shutdown". To return to the previous menu (#2), click **Back**.



- 9 With the "RingFreq" option visible, click the **Enter** button.



A triangle will appear on the left side of the display. Using the **Up** and **Down** buttons, select the frequency of ring production in seconds. [Range: 2—60 seconds.] (To cancel the value change, click **Back**.)



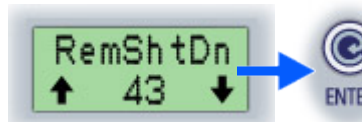
- 10 With the "RingCnt" option visible, click the **Enter** button.



A triangle will appear on the left side of the display. Using the **Up** and **Down** buttons, select the number of rings to shoot when "Cycle" is initiated. [Range: 1—20 seconds.] (To cancel the value change, click **Back**.)



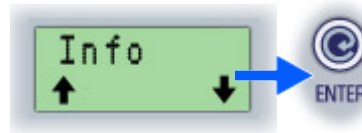
- 11 With the "RemShtDn" option visible, click the **Enter** button.



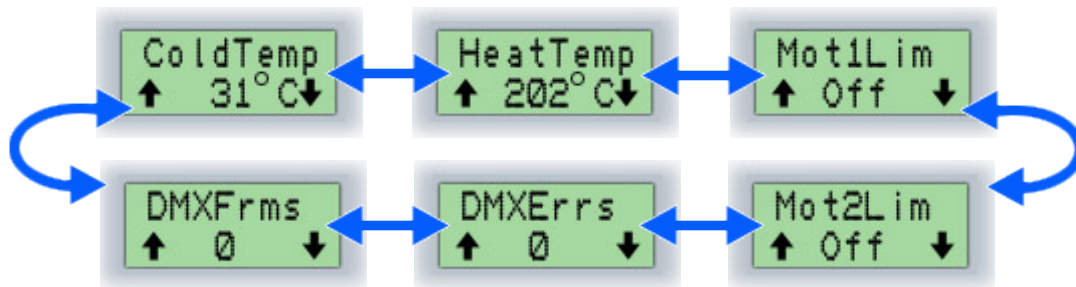
A triangle will appear on the left side of the display. Using the **Up** and **Down** buttons, select the number of minutes for the heater to continue running when rings are not being produced. [Range: 5—90 minutes.] (To cancel the value change, click **Back**.)



**12** With the "Info" option visible, click the **Enter** button.



The **Up** and **Down** buttons will now take you through the 6 displays in the sub-menu, "Cold Temperature", "Heat Temperature", "Motor 1 Limit", "Motor 2 Limit", "DMX Errors", and "DMX Frames". These items are for information purposes only; machine controls cannot be set in this section. Sample data is shown below. To return to the previous menu (#2), click **Back**.



*Cold Temperature:* Temperature of the board in °C

*Heat Temperature:* Temperature of the heater in °C

*Motor 1 Limit:* Motor 1 limit switch indicator

*Motor 2 Limit:* Motor 2 limit switch indicator

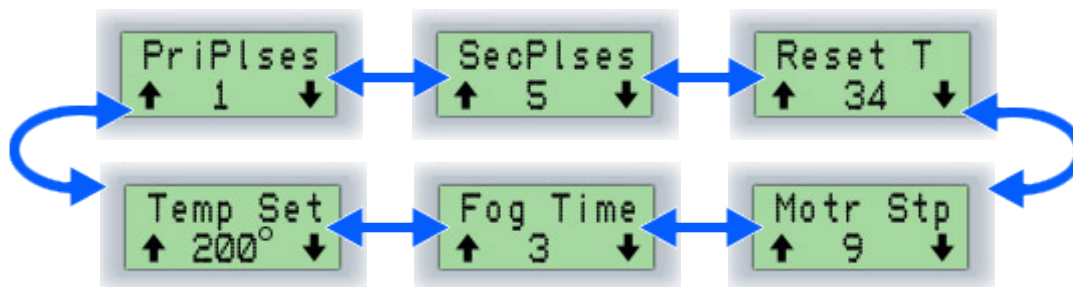
*DMX Errors:* Number of DMX errors since last power-up or reset. Pressing **Enter** will reset this to zero.

*DMX Frames:* Number of DMX frames since last power-up or reset. Pressing **Enter** will reset this to zero.

**13** Administrative settings are available. They are accessed by pressing the **Up** and **Down** buttons simultaneously while at the main menu (#2). (NOTE: If the main menu has not yet been accessed, the **Enter** button will have to be pressed first).



The **Up** and **Down** buttons will now take you through the 6 options in the sub-menu, "Prime Pulses", "Second Pulses", "Reset Time", "Motor Stop", "Fog Time", and "Temperature Settings". Sample data is shown below. The **Back** button will take you back to the main menu.



Using the method outlined in previous steps, you may change these settings within the provided ranges.

*Prime Pulses:* Number of pump pulses to load the fog chamber on the first ring ... [Range: 1-10]

*Second Pulses:* Number of pump pulses to keep the fog flowing evenly ..... [Range: 1-10]

*Reset Time:* Maximum time between rings before PriPlses again ..... [Range: 1-99 seconds]

*Motor Stop:* Time to stop motor after switch closure ..... [Range: 1-10 seconds]

*Fog Time:* Time of fog after trigger ..... [Range: 1-20 seconds]

*Temperature Settings:* Heater temperature setting ..... [Range: 150°–300° C]

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## APPENDICES

### Remote Operations

The SnowMasters hard wire remote will work with the Holey Smokes controller as well. Instructions on how to enable it are in Step #7 of this manual. Once enabled, the remote is powered. Turning the power switch to 'On' on the remote will start the fogger heating if it is not already at the appropriate temperature. The dial on the remote unit controls the amount of time between the rings. Turning the dial as far as it will go in a counter-clockwise direction will shoot zero rings, while turning it clockwise will increase the frequency of the rings [Frequency Range: 2-60 seconds].

### DMX Protocol

The Holey Smokes can be controlled by DMX-512. Setting the address of each unit is described in Step #6 of this manual. Using 3 sequential channels of DMX, the Mode, Frequency, and Volume can be changed. The values and effects of each are detailed below.

#### 1. Mode: sets the Holey Smokes to be off, fogging, or producing fog rings.

0 – 63 ..... Off  
64 – 127 ..... Fogging  
128 – 191 ..... Off  
192 – 255 ..... Shooting Rings

#### 2. Frequency: sets the time between rings

0 – 15 ..... No rings  
16 70 ..... Seconds between rings  
...  
239 ..... 2 seconds between rings  
240 – 255 ..... Continuous rings

#### 3. Volume: sets the amount of fog to use for fogging and for rings.

0 – 15 ..... Factory Default (mid-point on slider)  
16 – 239 ..... Less fog to more fog  
240 – 255 ..... Maximum fog

### Statuses / Troubleshooting

#### NOTIFICATIONS on opening display

1. "Warmup.." - Heater is warming up
2. "Ready.." - Heater is warmed up and machine is ready
3. "Sleep" - Heater is turned off to save power.

#### WARNINGS/ERRORS

If you see any of the following warning/error messages, turn the power switch off, wait 10 seconds, and turn it back on. If the message remains, call tech support.

1. "Ring TO" - Motor is taking too long to complete a revolution.
2. "Check TC" - No change in temperature was found after turning the heater on.
3. "OVERTEMP" - Heater temperature is too high and power has been shut off to the heater.
4. "HEATER" - Heater did not heat up, or heated too slowly.