



# Installation & Owner's Manual

English

This Manual Covers the Following Models

HCS-BSF-HDEX

**Manufactured by:**  
ClairiTech Innovations Inc.  
1095 Ohio Rd.  
Boudreau-Ouest, NB  
Canada E4P 6N4

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## Service and Warranty

### For Customer Assistance

To aid in answering questions if you call for service or warranty purposes, please record below the model and serial number located on the side of the unit.

Product Name:
Model #:
Date of Manufacturing:
Date of Purchase:
Serial #:
Dealer Name (If Any):

**Please Note** the above information before contacting us.

**For the Following Inquiries:**

- Service
- Parts
- Accessories
- Additional Customer Information

**Please contact us by:**

Phone: 1-888-533-1348

Email: [support@humidex.ca](mailto:support@humidex.ca)

Website: [www.humidex.ca](http://www.humidex.ca)

**IMPORTANT**

To properly validate your warranty, you must fill out and return the warranty card as soon as possible. If your unit is not registered, a proof of purchase will be necessary should it require any services. You can also register your warranty online <http://www.clairitech.com/warranty> .

### Consumer Limited Warranty

ClairiTech Innovations Inc. warrants to the first consumer that this product, when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its discretion, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for the period(s) set forth below. The defective part must be returned to the manufacturer ClairiTech Innovations Inc. All transportation charges are the sole responsibility of the purchaser.

This warranty does not apply to any appearance items of the product nor to the additional excluded item(s) set forth below of which have been damaged, defaced, subjected to improper voltage, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser must fill out and return the warranty card as soon as possible. If your unit is not registered, a proof of purchase will be necessary should it require any services.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of ClairiTech Innovations Inc.

The warranties described herein shall be the sole and exclusive warranties granted by ClairiTech and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of ClairiTech to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, and strict liability or otherwise. In no event shall ClairiTech be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer, unless approved by ClairiTech in writing. Nor shall ClairiTech be liable or in any way responsible for any incidental or consequential economic or property damage.

Warranty Period for this product:	Ten (10) years on all mechanical parts and on cabinet. Five (5) years on all electrical components (excluding the control unit)
Additional Items Excluded from Warranty Coverage (If Any):	Appearance items of the product, Exterior vent and any printed material.
Where to obtain service:	From the Manufacturer. <b>(Refer to Page 2)</b>

**This warranty is non-transferable and applies to residential use only.**

To obtain supply, accessory or product information, contact us.  
**Refer to Page 2 for Contact Information.**

## Humidex

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### Pre-Installation

#### Included Components

Before installing your Humidex, make sure that you have the right model and accessories. The following items should be included in the accessory box. If parts are missing, contact our customer service at 1-888-533-1348.

1x Owner's Manual	6x #8 x 9/16" Screws
1x Warranty Card	4x #8 x 2" Screws
1x Universal Boot	4x #8 x 1/4" Truss Screws
4Ft. 6" Insulated Flex	2x 4" x 12" Toe Space Grill
2x Cable Ties	4x Plastic Anchors
1x Green connector	1x White Wire (50 ft.)

Additional grilles for replenishment air and interior rooms not included.

#### Tools Required for Installation

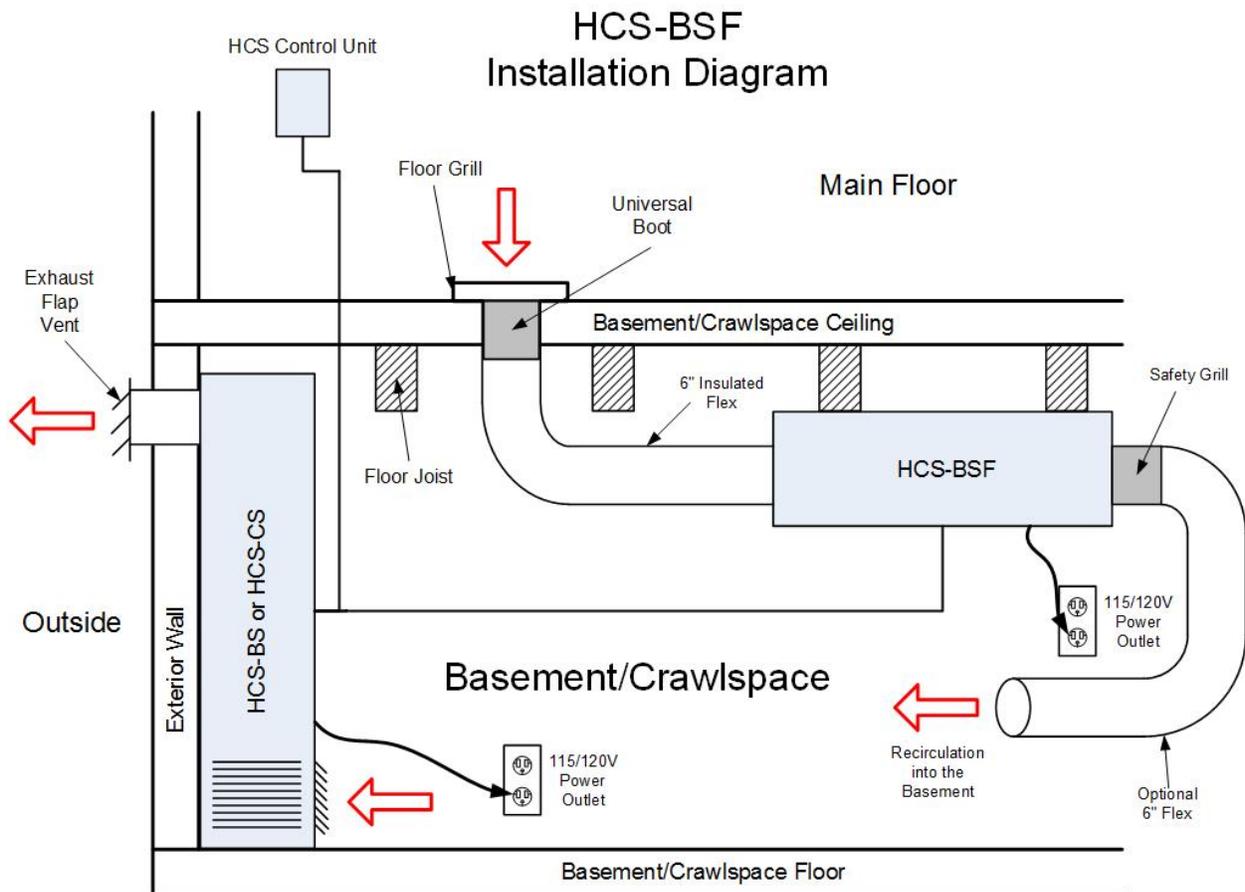
- Electric reciprocal or hole saw
- Phillips or Robinson Screw Driver
- Measuring Tape
- Hammer
- Pencil

## Installation

### Key Installation Facts

- 1) To minimize noise propagation, install at least 6 ft. of 6 in. insulated flex between the universal duct boot (connected to the floor register) and the HCS-BSF.
- 2) To further decrease noise propagation, 6 ft. of insulated flex can be used on the exhaust side of the unit. (Not Included)
- 3) Install the unit as far away as possible from the HCS exhaust system. If this cannot be done, please use 6 in. Flex to pipe the HCS-BSF away from the exhaust system.
- 4) If the building codes in your area require a backdraft damper to be installed, it must be placed on the exhaust side of the booster fan to limit the impact on the total airflow through the unit. (Not Included)
- 5) This unit is typically sold with an HCS exhaust system. If this is the case, then the HCS-BSF system is made to replace your Replenishment vent required by the HCS exhaust system.

### Typical Installation Diagram



## Preparing the Humidex for Installation

To allow the booster fan to draw air from the upper levels, a universal boot must be installed. First locate a safe place to cut out a hole to fit the universal boot. Once a safe and adequate area had been found, proceed by cutting the hole.

With the hole cut, install the universal booth which will allow the unit to pull the air down.

Now that the boot has been installed, the HCS-BSF can be mounted on a floor joist a minimum of 6 ft. away from the universal boot to reduce noise. Connect the universal boot to the booster fan with the 6 in. insulated flex provided.

If the building codes in your area require a backdraft damper to be installed, it must be placed on the exhaust side of the HCS-BSF to limit the impact on the total airflow through the unit.

**Note:** A T-junction duct and flex can be added to the exhaust side of the HCS-BSF to direct air into all areas of the crawl space

Now that the booster fan has been installed, it must be connected to the rest of the system. To do so, a wire must be run from the booster to either the main exhaust or the control unit.

**Note:** These steps must be completed before plugging in the booster fan.

After the white wire has been run it must be connected to the system. Make sure the main HCS exhaust unit is unplugged before connecting the booster fan.

If the booster is connected to the main exhaust, remove the green connector, strip the wire and connect it following the wiring guide. Reconnect the green connector once the wire has been inserted.

If the wire was run to the control, remove the bottom screw and open the control. Strip the wire and add it to the internal connector following the wiring guide. Once done, close the control.

**Wiring Guide:**

Yellow Wire – B

Green Wire – A

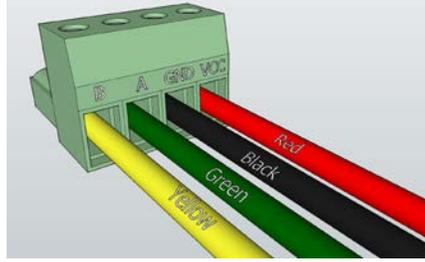
Black Wire – GND

Red Wire – VCC

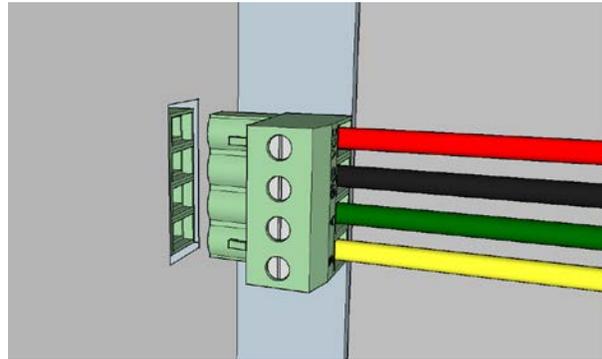
**Note:** The main exhaust unit must remain unplugged till the booster fan installation is complete.

## Humidex

On the booster fan end of the wire attach the green connector with the wiring matching the wiring guide above



Now that the connector has been wired, insert it into the Booster fan unit.



Now that the booster fan has been installed and connected to the main exhaust unit, the HCS-BSF can be plugged into any 115V outlet. With the BSF plugged in, the main exhaust unit can be plugged in.

**Note:** A grounded extension cord with a maximum length of 10 feet may be used if necessary.

## Specifications

### Technical Data

<b>Model</b>	<b>Amps (A)</b>	<b>Watts (W)</b>	<b>Airflow (CFM)</b>	<b>Capacity (Sq.Ft.)</b>
HCS-BSF-HDEX	0.30	34	230	2,400

All Units require a 115 VAC electrical outlet

### Dimensions

<b>Model</b>	<b>Height (In.)</b>	<b>Width (In.)</b>	<b>Depth (In.)</b>
HCS-BSF-HDEX	10.75"	11.5"	8.5"

\*A 24 Inch extension section is available if extra height is required