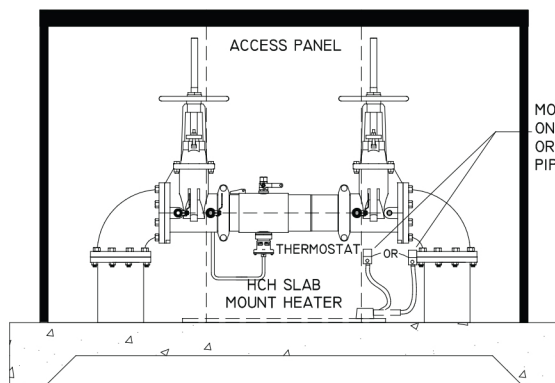
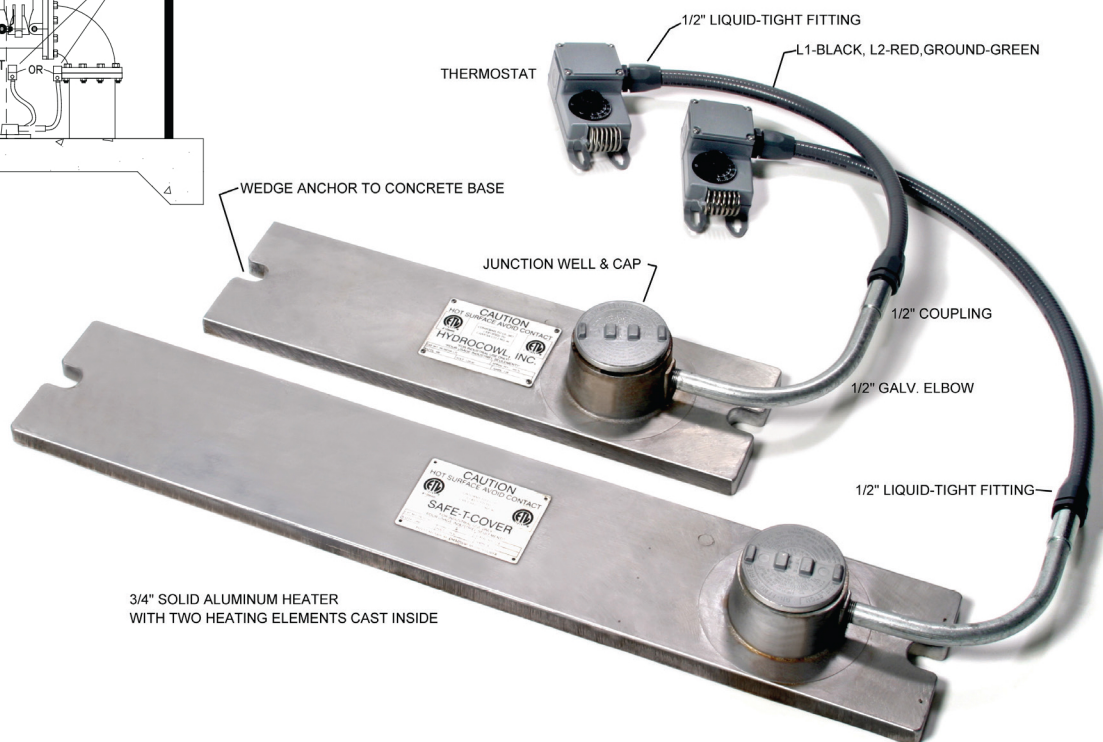


Electric HCHS/HCH Heating Systems



Note: Remove heater from carton and check for shipping damage. Damage Claims should be entered immediately with carrier.



3/4" SOLID ALUMINUM HEATER
WITH TWO HEATING ELEMENTS CAST INSIDE



READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS AND SAFETY INFORMATION COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE! RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

Maintenance & Servicing

- 1. DANGER — Hazard of electric shock! Disconnect all power before attempting to service this heater.**
- After long periods of idleness, accumulated combustible particles should be removed.

Specifications

Catalog No.	Voltage	Wattage	BTUH	Phase	Amps
HCHS500-120	120	500	1707	Single	4.16
HCHS1000-120	120	1000	3413	Single	8.33
HCHS1000-240	240	1000	3413	Single	4.16
HCH2000-120	120	2000	6824	Single	16.66
HCH2000-240	240	2000	6824	Single	8.33

DANGER!

DO NOT DEPEND UPON THE THERMOSTAT AS THE SOLE MEANS OF DISCONNECTING THE POWER WHEN INSTALLING OR SERVICING THE PRODUCT IT IS CONTROLLING. ALWAYS DISCONNECT POWER AT THE MAIN CIRCUIT BREAKER. FAILURE TO DO SO CAN RESULT IN FATAL ELECTRIC SHOCK.



DANGER!

NE DÉPENDEZ PAS DU THERMOSTAT COMME LES SEULS MOYENS DE DÉBRANCHER LE POUVOIR EN INSTALLANT OU EN ASSURANT L'ENTRETIEN DU PRODUIT QU'IL CONTRÔLE. DÉBRANCHEZ TOUJOURS LE POUVOIR AU DISJONCTEUR PRINCIPAL. L'ÉCHEC DE FAIRE PEUT AVOIR POUR RÉSULTAT AINSI LE DÉCHARGE ÉLECTRIQUE FATAL.

INSTALLATION INSTRUCTIONS



Note: Read entire instructions before installation. Installation must be made by trained, experienced service person.



PROVIDE GROUND-FAULT INTERRUPTER DEVICE IN ELECTRICAL CIRCUIT. ALL WIRING SHOULD BE AS PER THE GOVERNING LOCAL AND NATIONAL CODES AND ORDINANCES.

Do not use connection methods which are non-watertight or that are not approved for NEMA 4X installation. Failure to prevent water entry may result in electrical failure with risk of fire, property damage or fatal injury.

1. Install 1/2" Galvanized elbow into threaded hole of junction well on the heater. **NOTE:** Because of the heat, ONLY the 1/2" Galvanized elbow should be installed in the junction well.
2. Install 1/2" coupling on the end of the Galvanized elbow.
3. Install 1/2" male "liquid tight" fitting into coupling. **NOTE:** These joints should be "liquid tight".
4. Remove desired knock-out from thermostat and install "liquid tight" fitting.
5. Install desired length of flexible conduit.
6. Remove threaded cap from junction well of heater and feed wires thru conduit. **NOTE:** Wire and terminal ends must be rated for high temperature use. Wire as per wiring schedule for required wattage. (See Wiring, TABLE 1)
7. Wire thermostat as per thermostat manufacturer's installation instructions. Ground wire must be used.
8. Replace cap and tighten to seal. The torque for the cover is 13 Nm.

MOUNTING INSTRUCTIONS

1. Do **not** attempt to cut, saw or alter in any way the size of the heater.
2. Place and **center** the heater directly on concrete **underneath** the installed device.
3. **Center heater** on concrete **between side walls** of the enclosure.
4. Mount heater to concrete using two (2) fasteners w/large washers. **NOTE:** Leave heater **loosely mounted** to allow for expansion and contraction.
5. Mount thermostat on vertical support adjacent to the access opening of the enclosure or wire-tie to the nearest riser pipe
6. For heater to be most effective, thermostat should be 8"-12" above the slab.

OPERATION INSTRUCTIONS

Caution: HAZARD OF FIRE. Keep combustible materials at least 6" away from heater.

Prudence: HASARD DE FEU. Gardez des matières combustibles au moins 6" loin du réchauffeur.

Danger: HAZARD OF FIRE. This heater is not intended for use in hazardous atmospheres where flammable vapors, gases, liquids, or other combustible atmospheres are present as defined in the National Electric Code. Failure to comply can result in explosion or fire.

Danger: HASARD DE FEU. Ce réchauffeur n'est pas destiné pour l'utilisation dans les atmosphères dangereuses où les vapeurs inflammables, les gaz, les liquides, ou d'autres atmosphères combustibles sont présents comme défini dans le Code Électrique national. L'échec de se conformer peut avoir pour résultat l'explosion ou le feu.

Danger: PERSONAL INJURY OR DEATH could result from electric shock. Disconnect all power to heater at main panel before attempting to install, service or repair this device.

Danger: la BLESSURE PERSONNELLE OU LA MORT pourraient provenir du décharge électrique. Débranchez tout le pouvoir du réchauffeur au comité principal avant d'essayer d'installer, assurer l'entretien ou réparer cet appareil.



WIRING (Table 1)

As per following diagrams	
Model No.	Drawing No.
HCHS500-120	Fig. 1
HCHS1000-120	Fig. 2
HCHS1000-240	Fig. 3
HCH2000-120	Fig. 2
HCH2000-240	Fig. 3

Fig. 1

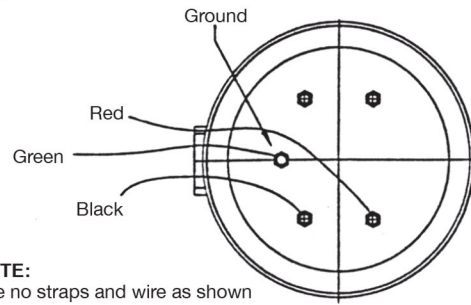


Fig. 2

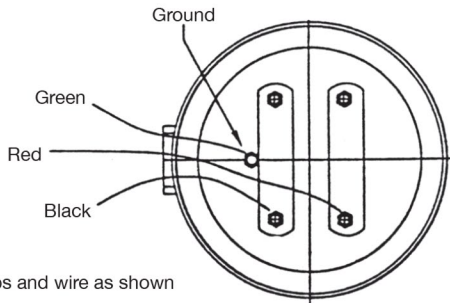
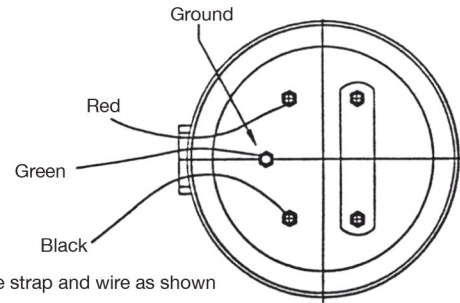
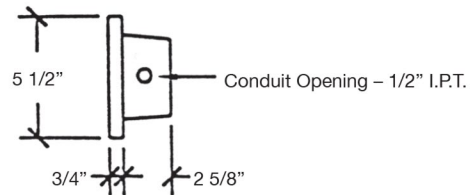
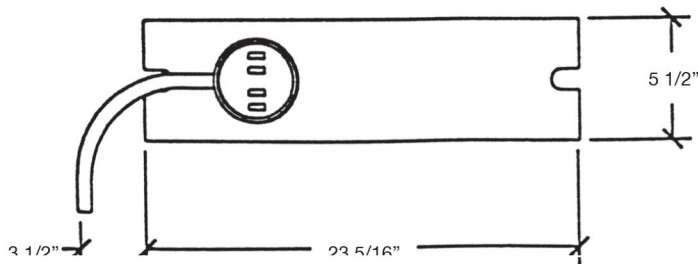


Fig. 3

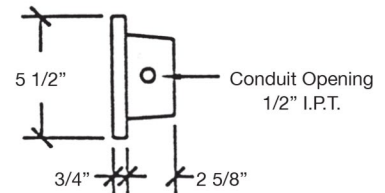
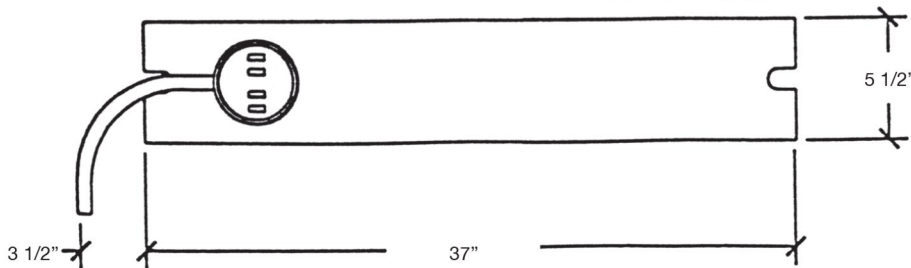


HEATER DIMENSIONS

Model Nos. HCHS500 and HCHS1000



Model Nos. HCH2000



Thermostat Wiring Instructions

Scan the QR code to view the thermostat wiring instructions or visit the website below.
<https://www.safe-t-cover.com/hubfs/Brochures-and-Guides/ThermostatWiring2022.pdf>



Thermostat Wiring Instructions

Replacement Parts Identification

Item	Part Name	Qty	Catalog No.
1	Heater	1	HCHS001
2	Thermostat w/mounting screws	1	HCHS002
3	Wiring kit	1	HCHS003

Replacement Parts Identification

Item	Part Name	Qty	Catalog No.	Item	Part Name	Qty	Catalog No.
1	Fasteners	1	HCHS004	6	Ground screw	1	HCHS009
2	1/2" x 10" nipple	1	HCHS005	7	12 ga. high temp wire L-1 (black)	48"	HCHS010
3	1/2" coupling	1	HCHS006	8	12 ga. high temp wire L-2 (white)	48"	HCHS011
4	1/2" "liquidtight" fitting	2	HCHS007	9	12 ga. high temp wire ground (green)	48"	HCHS012
5	1/2" "liquidtight" conduit	28"	HCHS008	10	High temperature terminal ends	3	HCHS013

LIMITED WARRANTY

THREE YEAR LIMITED WARRANTY: Safe-T-Cover by HydroCowl warrants to the original purchaser for a period of three (3) years from the date of original shipment that the HCH Heater is free from defects in materials and workmanship. For limited warranty claim procedures, see CLAIM DISPOSITION below.

LIMITATION OF LIABILITY: In no event shall Safe-T-Cover by HydroCowl be liable for incidental or consequential damages. Safe-T-Cover by Safe-T-Cover by HydroCowl's liability in all events is limited to, and shall not exceed, the purchase price paid.

WARRANTY DISCLAIMER: Safe-T-Cover by HydroCowl makes no other representation or warranty of any kind, expressed or implied, in fact or in law, including without limitation, the warranty of merchantability or the warranty of fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof.

PRODUCT SUITABILITY: Many states and localities have codes and regulations which may vary from those in neighboring areas. Safe-T-Cover by HydroCowl attempts to assure that its products comply with such codes, however, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Review the product application, all national and local codes and regulations, and be sure that the product, installation and use will comply with them.

CLAIM DISPOSITION: The limit of Safe-T-Cover by HydroCowl's liability for failure of this product to meet the foregoing warranty shall be, at Safe-T-Cover by HydroCowl's sole option, for repair or replacement of the defective product and shall exclude any damage caused by accident, misuse or abuse of the product. For any product believed to be defective within the limited warranty time, write or call the supplier from whom the product was purchased. If unable to obtain satisfactory results, call Safe-T-Cover by HydroCowl at telephone number listed below. Furnish name of the supplier, address, date and number of supplier's invoice. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.



800-245-6333