

HACS

Air Temperature Control Electric Heating System



- Portable, Forced Air Temperature Control System
- 50, 100, and 150 kW Heating Capacity
- 480 V, 3 Phase, 60 Hz
- Corrosion Resistant Painted Steel Construction
- Heavy Duty 0.475" Dia. INCOLOY® Sheath Tubular Elements
- 3,000 – 7,000 SCFM of Airflow from Industrial-Grade Fans
- Multi-stage Contactor System for Accurate Temperature Control
- NEMA 4 Electrical Enclosure for Outdoor Weather Protection
- Fork Lift Accessible
- Four-Point Lug Lifting System
- Use with Standard 20" Flexible Duct
- Stackable to Maximize Storage
- Emergency Stop Button and Fan Delay on Shutdown
- Optional SCR Power Control System for High Accuracy

Description

Chromalox Air Temperature Control Systems provide durable, accurate temperature control for large capacity temporary heating applications. Welded steel construction, tubular elements, and industrial fan offer superior durability and performance under heavy usage and rough environments.

Applications

- Temporary on-site comfort heat for large capacity special events.
- Interim comfort heating system during commercial construction prior to permanent HVAC installation.
- Curing plaster and drying of paint in commercial construction.
- Spot heating for personnel and freeze protection for equipment in the event of a plant shutdown.

Options

- Special Voltage and Wattage requirements
- Special Form Factor and Envelope
- SCR Power Control Panel
- 304 Stainless Steel Construction
- Variable Speed Fan Motor
- Camlok Power Connections
- Voltmeter, Ammeter, and kW Meters
- Phase Reversal Switch

Advantages

- Chromalox Electric Heating Systems are environmentally friendly, 100% efficient, and produce zero emissions.
- Electrically generated heat produces no moisture, and therefore no humidity.
- INCOLOY® sheathed tubular heating elements provide long life and durability during transport and setup.
- Painted Carbon Steel construction ensures weather resistance, with Stainless Steel available for extreme environments.
- Multi-stage, contactor-based control system for accurate temperature control.
- High limit temperature control and low limit airflow control ensures proper safety during operation.
- All electrical enclosures are easily accessible and are protected to NEMA 4 construction.
- Chromalox HACS systems are built to resist the rough handling and transportation of the rental market. Various control and fan options allow for maximum flexibility to meet the varying needs of rental companies and their clients.

AIR HANDLER

Standard Models

kW	BTU	Volts	Phase	Dimensions (In.)			Rated Airflow	Motor HP	Model	Stock Status	Wt. (Lbs.)
				L	D	H					
50	170,600	480	3	72	48	50	3,000 SCFM @ 2" WG	2	HACS-0501CCP4	NS	1,700
100	341,200	480	3	75	49	50	5,000 SCFM @ 2" WG	5	HACS-1002CCP4	NS	1,780
150	511,800	480	3	80	55	50	5,000 SCFM @ 5" WG	7-1/2	HACS-1503CCP4	NS	1,930

Stock Status: S = stock AS = assembly stock NS = non-stock
To Order—Specify model, volts, phase, kW, PCN and quantity.

Packaged Systems

HACS

Air Temperature Control Electric Heating System (cont'd.)

Code Options

- A Variable Speed Fan Motor*
- B Camlok Power Connections
- C Phase Reversal Switch
- D Running Time Meter
- E Multifunction Digital Meter (Amps, Volts and Watts/Phase)
- F Single-Volt Meter with Phase Selection Switch
- G Three-Volt Meters
- H Single Ammeter with Phase Selection Switch
- I 3 Ammeters
- J kW Meter
- K Control Panel Cooling Fan
- L Anticondensation Heater

*SCR Control Method is required for selecting Variable Speed Fan Motor option.

Note: Add each letter as suffix to model number. Use all that apply.



Ordering information

Model						
HACS Air Temperature Control System						
Code		Power/Kilowatt Rating				
050		50 kW				
100		100 kW				
150		150 kW				
Code		Fan Output				
1		3,000 SCFM @ 2" WG				
2		5,000 SCFM @ 2" WG				
3		5,000 SCFM @ 5" WG				
4		7,000 SCFM @ 5" WG				
Code		Control Method				
C		Multi-Circuit Contactor Control				
S		SCR Power Control				
Code		Outer Skin				
CP		Carbon Steel, Painted				
SS		Stainless Steel				
Code		Voltage				
4		480 Vac				
HACS-	100	3	C	CP	4	Typical Model Number

Accessories

FX-20 Flexible Duct

Chromalox heavy duty, flexible duct is constructed of 100% polyester based fabric and is 20" diameter and 25' long. It is built for use in rugged environments and is suitable for temperatures from -40 to 220°F. The duct is internally supported with a steel wire helix. It can be used on the air intake end of the heater and will not collapse under the negative pressure.

Model	Description	Stock	PCN	Wt (lbs)
FX-20	20" Dia. Flexible Duct 25'	S	295865	45

Flexible Duct Splice Kit

The flexible duct splice kit is designed to splice two or more 25' lengths of flexible duct to create longer lengths.

Model	Description	Stock	PCN	Wt (lbs)
FDS-20	20" Dia. Duct Splice Kit	S	295881	40

Duct Clamp (not shown)

The stainless steel band is designed to fit over the flexible duct for a secure attachment to the adapter ring or flexible duct splice.

Model	Description	Stock	PCN	Wt (lbs)
DC-20	20" Dia. Duct Clamp	S	295890	3