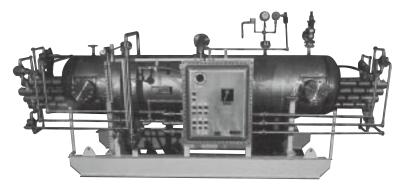
## **Packaged Systems**

# **CHTV**

### Heat Transfer Fluid Vaporizer

- Heat Transfer Fluids (Vapor Phase) to 750°F
- 15 300 kW (51 1,024 Mbh)
- 240 and 480V, 3 Phase, 60 Hz
- Pressurized Operation ASME Certified to Section VIII, Div. 1 150 psig @ 750°F
- 300 Lb Carbon Steel Construction
- OCE Open Coil Elements Removable w/o Draining Tank
- Hartford Loop Piping Prevents Siphoning of Fluid in Gravity Return Systems
- Pressure Control and Sequencer for Process Control
- Operating Pressure Gauge
- Over-Pressure Cutout Switch
- Fluid Level Switch Locks Out Heating Elements if Low-Fluid Level Occurs
- Reflex Type High Pressure Liquid Level Sight Glass
- 5" Dia. Dial Type Thermometer with Thermowell
- ASME Relief Valve
- NEMA 1 Electrical Enclosure Complete with Circuit Breaker, Contactors, Fusing, Switches, Transformers and Pilot Lights

WARNING — In hazardous areas, pipe surfaces could achieve temperatures high enough to cause auto-ignition of the hazardous materials present. Consult Article 500 of the National Electrical Code for further information on the maximum allowable temperatures for a specific application.



#### **Applications**

Chromalox CHTV Heat Transfer Fluid Vaporizers are designed for use in textile, chemical, petrochemical and other industries requiring high temperatures and low operating pressures in their manufacturing processes. They operate to 750°F using Dowtherm® A or J, Therminol® VP-1 and other organic vapor phase heat transfer fluids.

#### **Advantages**

Vapor systems transfer more heat energy per pound of heat transfer medium than comparable liquid phase systems. As the fluid vapor condenses to a liquid in the process piping, it releases the latent heat of vaporization. Unlike steam, heat transfer fluids operate at relatively low pressures at elevated temperatures. Dowtherm® A only has a pressure of 102 psia @ 695°F.

#### **Features**

No pumps are needed for gravity return systems. Low operating pressures. Hartford loop piping for gravity return systems. Wiring and fusing conform to NEC requirements.

#### **Options**

- Alternate Voltage and kW Ratings
- Electronic Solid State (SCR) Power Controllers. Digital Communication Interface available
- Condensate Return Pumps
- NEMA 4 (CHTVW) or Class I, Group D, Div. 1 Electrical Enclosures (CHTVX) available
- Available without Control Panel or without Hartford Loop Piping
- Other Applications for Fluid Vaporization including Kerosene, Propane or Gasoline and Cryogenic Applications for Liquified Natural Gas and Nitrogen

#### Specifications and Ordering Information

		Operating Vol.	Dimensions (In.)			Tank	No.				Wt.
kW	Btuh	(Gal.)	Н	W	D	Dia.	Circ.	Model	Stock	PCN	
15	51,180	15.7	50	36	80	16	1	CHTV-316-15	NS		750
20	68,240	19.4	50	36	94	16	1	CHTV-316-20	NS	—	850
25	78,500	23.6	50	36	110	16	1	CHTV-316-25	NS	—	975
30	102,360	27.2	50	36	124	16	1	CHTV-316-30	NS	—	1,075
40	136,480	35.6	50	36	156	16	2	CHTV-316-40	NS	—	1,375
50	157,000	43.5	50	36	186	16	2	CHTV-316-50	NS	<u> </u>	1,600
40	136,480	75	60	48	95	24	2	CHTV-624-40	NS		1,400
50	157,000	106	60	48	111	24	2	CHTV-624-50	NS	—	1,650
60	204,720	137	60	48	125	24	2	CHTV-624-60	NS	—	1,800
75	235,500	168	60	48	149	24	3	CHTV-624-75	NS	—	2,150
100	341,200	218	60	48	187	24	3	CHTV-624-100	NS	—	2,600
100	341,200	218	66	54	111	30	3	CHTV-1230-100	NS	_	2,650
125	392,500	222	66	54	129	30	4	CHTV-1230-125	NS	—	3,000
150	511,800	263	66	54	149	30	4	CHTV-1230-150	NS	—	3,400
175	549,500	300	66	54	167	30	6	CHTV-1230-175	NS	—	3,850
200	682,400	340	66	54	187	30	6	CHTV-1230-200	NS	—	4,300
225	767,700	379	72	60	149	36	6	CHTV-1836-225	NS	_	5,000
250	853,000	417	72	60	162	36	6	CHTV-1836-250	NS	—	5,600
275	938,300	455	72	60	175	36	6	CHTV-1836-275	NS	—	6,000
300	1,023,600	490	72	60	187	36	6	CHTV-1836-300	NS	_	6,400

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



Represented By: Ross & Pethtel Phone: 225-273-2202 Website

# **Packaged Systems**

# **Ordering Guidelines**

## **Heat Transfer Systems**

#### Ordering Information

To Order— Specify model, volts, phase, kW, PCN (where available) and options desired. Complete model number using the matrix provided.

Model	Heat Tra	nsfer Svs	tems										
Model  CMX CWG CWGW CWGX OTCS COS COSW COSX PFC PFCW PFCX CLD CLDW CLDX CLS CLSW CLSX	Non-Pressurized Water System with Centrifugal Pump and Standard Enclosures Non-Pressurized Water/Glycol System with Centrifugal Pump and Standard Enclosures Non-Pressurized Water/Glycol System with Centrifugal Pump and Weather Resistant Enclosures Non-Pressurized Water/Glycol System with Centrifugal Pump and Explosion Resistant Enclosures Non-Pressurized Compact Oil Temperature Control System with Positive Displacement Pump Non-Pressurized Oil System with Positive Displacement Pump and Standard Enclosures Non-Pressurized Oil System with Positive Displacement Pump and Weather Resistant Enclosures Non-Pressurized Oil System with Centrifugal Pump and Standard Enclosures Non-Pressurized Oil System with Centrifugal Pump and Weather Resistant Enclosures Non-Pressurized Oil System with Centrifugal Pump and Explosion Resistant Enclosures Pressurized Oil System with Centrifugal Pump and Standard Enclosures Pressurized Oil System with Centrifugal Pump and Explosion Resistant Enclosures Pressurized Oil System with Centrifugal Pump and Explosion Resistant Enclosures Pressurized Oil System with Centrifugal Pump and Explosion Resistant Enclosures Pressurized Oil System with Centrifugal Pump, Standard Enclosures and Piping for Hot Expansion Tank Pressurized Oil System with Centrifugal Pump, Weather Resistant Enclosures and Piping for Hot Expansion Tank Pressurized Oil System with Centrifugal Pump, Explosion Resistant Enclosures and Piping for Hot Expansion Tank									Tank xpansion Tank			
	Code Temperature Rating (°F) 250 CWG-A, CMX 650 COS-B												
	550 600	** ****											
		Code	Version										
		Α	В	С	D Blank (OTCS)								
			Code	Kilowat	t Rating								
			4	6	9	12	15	18	20	24	30		
			40 250	60	80	100	125	150	200	250	300		
			350 	400	450	500	600						
	Code Options  Classed Language Code (CMC and OTCC)												
				C XX 	Closed Loop Cooling (CWG and OTCS) Other Options, Voltage, Phase, ASME, Pumps, Cooling, etc.								
COS	650	В	100	XX	Typical	Model Nu	mber						

## **Vaporizers**

#### Ordering Information

To Order— Specify model, volts, phase, kW, PCN (where available) and options desired. Complete model number using the matrix provided.

Model	Vaporizers												
CHTV CHTVW CHTVX	Heat Transfer Fluid Vaporizer Heat Transfer Fluid Vaporizer with Weather Resistant Enclosures Heat Transfer Fluid Vaporizer with Explosion Resistant Enclosures												
	Code Number of Heating Tubes												
	3	6	12	18									
		Code	ode Diameter of Tank (In.)										
		16	24	30	36								
			Code	Kilowatt Rating									
			15 125	20 150	25 175	30 200	40 225	50 250	60 275	75 300	100		
				Code	Option	Options							
				XX	Voltag	Voltage, Phase, Controls, Hartford Loop, etc.							
CHTV	3	16	50	XX	Typical Model Number								

Note — Refer to heat transfer systems and vaporizer product pages in this section for details, version letter and available options.

