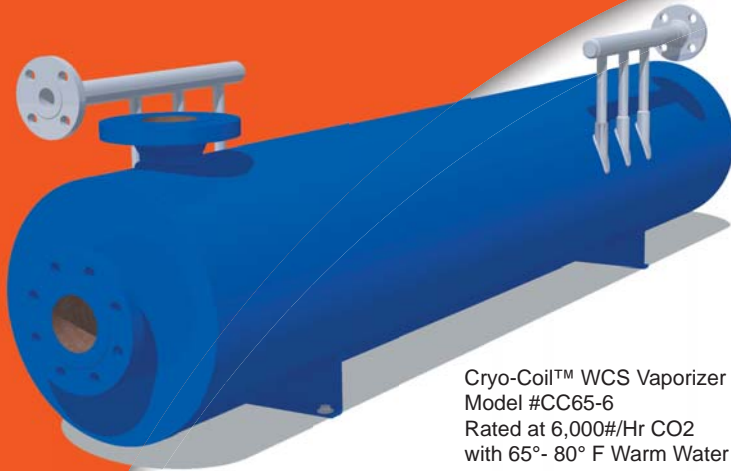


## CRYOCOIL™ VAPORIZERS + COOLERS



Cryo-Coil™ WCS Vaporizer  
Model #CC65-6  
Rated at 6,000#/Hr CO<sub>2</sub>  
with 65°- 80° F Warm Water

### Features

- ⊘ Stainless steel tubes
- ⊘ Thermax Vortex Flow™ Anti-surge action
- ⊘ Full combination tube spacer – supports to control velocity distribution and tube wear
- ⊘ Carbon steel or stainless steel shells
- ⊘ ASME B3.1.3 / VIII Design Codes also meeting CRN +EU/PED requirements
- ⊘ All welded construction for ZERO leakage
- ⊘ Thermax proven stable-iced tube designs on cold 50°F water

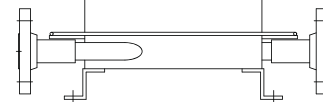
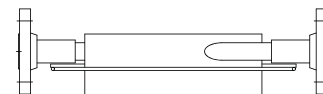
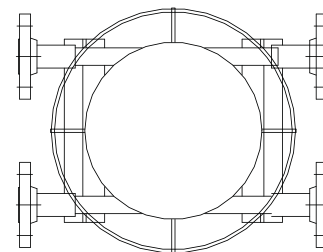
### Options

- ⊘ Choice of Design Codes
- ⊘ Alternate materials of construction such as Monel 400
- ⊘ Piping/ valving accessories, fluid switches, LTCO Valve Kits



### Thermax Inc. Cryocoil™

Style Vaporizers and Cryogenic Fluid Coolers offer high performance cryogenic heat exchanger configurations. Stainless Steel Vortex Flow™ Vaporizer coils are fitted into a carbon or S.S. shell in such a way as to provide TRUE counter current flow with controlled high velocity of both fluids. The Thermax Vortex Flow tube coils control the vaporization process, overcome film boiling and provide surge protection. The external transverse fluid flow across each tube coil adds to performance not available in existing “Helical Flow” designs. The result is a very compact vaporizer/heat exchanger unit well suited to handle cryogenic tube pressures from 50 to 15,000 PSIG with a wide variety of process fluids including water in vaporizer applications and Freon, Syltherm, Toluene, etc. in cryo-cooler applications using vaporizing LN<sub>2</sub> or CO<sub>2</sub> as the cooling means.

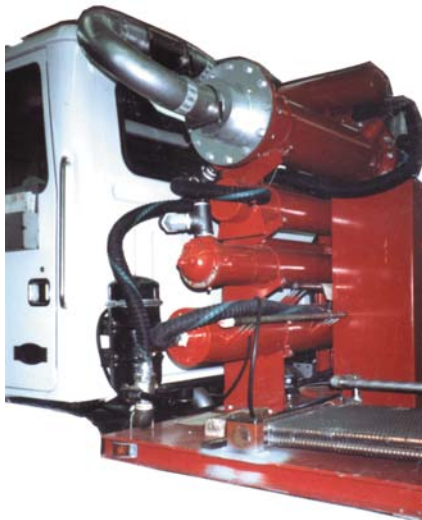


**CRYOCOIL™ VAPORIZERS + COOLERS**

## STANDARD MODEL RATINGS AND NOMINAL DIMENSIONS

WARM WATER VAPORIZERS ON 65°F WATER / 5°F DROP OR 80°F WATER / 10°F DROP								
Model	CO <sub>2</sub> lb/hr	N2/O2 SCFH	Water GPM		L x W x H (inches)	Water Nozzle (inches)		Wt. lbs.
			65°F/5°F	80°F/10°F		65°F/5°F	80°F/10°F	
CC 1/2A	500	5,000	40	20	52x8x14	1-1/2	1-1/2	175
CC-1A	1,000	10,000	65	35	60x10x16	2	1-1/2	175
CC-2A	2,000	20,000	130	65	60x12x18	3	2	250
CC-4A	4,000	40,000	260	130	80x20x26	4	3	400
CC-6A	6,000	60,000	385	200	80x20x26	6	4	600

COLD WATER VAPORIZERS ON 50°F WATER / 5°F DROP						
Model	CO <sub>2</sub> lb/hr	N2/O2 SCFH	Water GPM	L x W x H (inches)	Water Nozzle (inches)	Wt lbs.
CC 1/2	500	5,000	40	52 x 8 x 14	1-1/2	175
CC-1	1,000	10,000	65	60 x 10 x 16	2	250
CC-2	2,000	20,000	130	60 x 12 x 18	3	400
CC-4	4,000	40,000	260	80 x 20 x 26	4	600
CC-6	6,000	60,000	385	110 x 20 x 26	6	700



### CRYOCOIL

Truck mounted high pressure 90,000 SCFH vaporizer is the lower of the 4 exchangers on this oil field service rig, the tank pressure build vaporizer is shown at lower left (Also available from Thermax)

### CRYOCOIL STACK 0°F LOX – LIN – LAR VAPORIZERS

Cylinder filling service

- Compact arrangement,
- 3,500 psig
- 30,000 SCFH each

Water recirculating system

This economic concept now finds use in steel making for GOX-insert gas mix "blows" to reduce energy demand level.



### CRYOCOIL SKID

High performance dual CO<sub>2</sub> vaporizers;

- 12,000 lbs/hr capacity
- 350 psig ASME code construction
- 600 GPM water flow rate
- Modular skid mounted construction for ease of installation and transportation



Over 30 years of experience rating systems for the cryogenic user enables us to select the proper arrangement. We also offer THERMACAST™ and Electric Vaporizers/Trim heaters for CO<sub>2</sub>, Propane and related liquid gases.

All the labels shown here are intended as guides reflecting our experience on these models. Actual performance may vary. This product and/or data was designed and/or developed by Thermax Inc. and shall not be used in any way injurious to the interest of Thermax Inc. Vortex Flow™ is a Thermax trademark.

All tables shown on this Datasheet are intended as a guide that reflect our experience on these models. Actual performance may vary. Please call Thermax Inc. for specific applications. This product and/or data was designed and/or developed by Thermax Inc. and shall not be used in any way injurious to the interests of Thermax Inc.



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