

Defrostable Fan Assisted Ambient Vaporizers

Thermax Cryoduct-ED™ Cryogenic Vaporizers with Automatic Electric Defrosters
Save 85% on Energy • Continuous Operation
• All Weather • Complete Systems

Thermax Cryoduct-ed™ Fan Assisted Ambient Vaporizers System with Electric Defrost permits continuous vaporization for a 24/7 operation and operates continuously in below freezing temperatures. The completely automatic assembly permits the cryogen to pass through one of the vaporizers while the other vaporizer is in the defrost mode. The timer switched the flow after a pre-determined period allowing the flow to enter the freshly defrosted unit and starting the defrost cycle of the frosted vaporizer.

With a temperature sensitive defrost mode selector. In winter heaters are used for defrost via this automatic mode selector. In summer the fan is used which saves up to 75% of the defroster energy usage.

Single units available for night defrosts and intermittent service.

Standard Features

- ⊕ ASME B31.3, CRN (all provinces)
- ⊕ Aluminum corrosion resistant construction
- ⊕ Automatically starting fan via temperature switch
- ⊕ Automatic switching solenoid valve with timer control
- ⊕ Galvanized fan cover with birdcage grille
- ⊕ Heavy duty aluminum structural frame & air duct assembly
- ⊕ Thermax Thermafin HF series vaporizer core
- ⊕ Totally enclosed air cooled direct drive motor
Withstands 100 mph winds and Zone 4



Options

- ⊕ Electro-polished 316L SS internals for ultra-pure application
- ⊕ Flanged, tongue and groove, butt-weld end connections
- ⊕ Manual switching
- ⊕ Motor space heaters
- ⊕ Pressure building coil
- ⊕ Stainless steel, Monel or non-ferrous lined for service to 15,000 PSIG
- ⊕ Two solenoid valves in lieu of 3-way valve

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Standard Model Ratings and Dimensions

Model Ratings & Data			Overall Dimensions, Weights System					
Model	Peak Flow SCFH***	Electric Heater	Fan HP	Connection NPT	Width inch	Depth inch	Height inch	Weight lbs
	O ₂ /N ₂ /Ar	KW						
CD5-ED**	6,000	8	0.5	3/4	44	48	190	1000
CD10-ED**	12,000	15	1	3/4	50	40	172	1,200
CD20-ED**	21,000	22	2	1	84	48	190	2,000
CD25-ED**	25,000	25	2	1	90	50	197	2,200
CD30-ED**	33,000	35	3	1	90	50	198	2,400
CD40-ED	47,000	40	5	1 1/2	92	66	198	3,100
CD50-ED	55,000	50	5	1 1/2	132	70	184	3,400
CD60-ED	64,000	60	7 1/2	1 1/2	168	70	178	4,100
CD70-ED	73,000	70	7 1/2	1 1/2	168	78	178	4,600
CD80-ED	84,000	75	10	2	182	78	186	4,700
CD90-ED	95,000	85	10	2	190	80	186	5,200
CD100-ED	105,000	90	10	2	190	80	186	5,700
CD120-ED	120,000	90	15	2	190	80	216	6,800

* Systems includes 2 modules + Switching valves, header kit and controls.

** These systems ship fully assembled as a single-twin unit.

Thermax Inc. offers complete ambient and fan ambient systems including multiple unit headers, isolation valve, kits, cycling timers, truck mounted Cryoduct™

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. Cryoduct™ is a Thermax Inc. Trademark.

