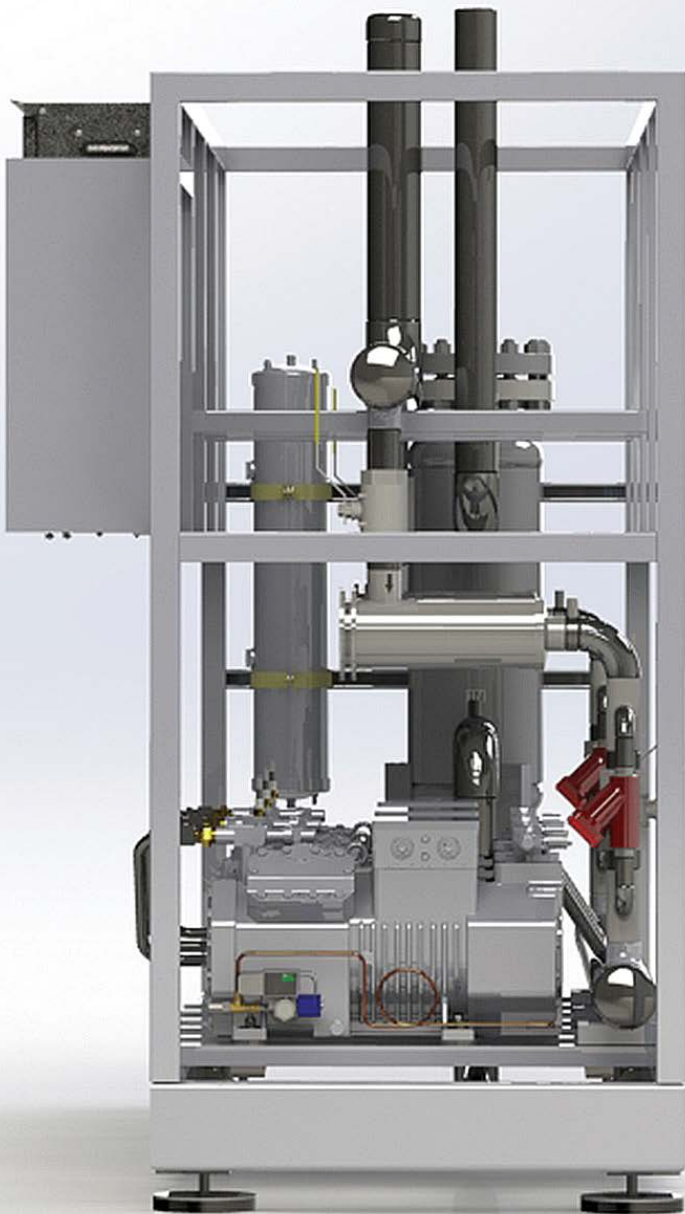


**Hillphoenix**

Industrial  
Refrigation

# CO<sub>2</sub> Cascade Systems *A Cascade of Benefits!*



## **Parallel Rack Technology Doubles Down on Efficiency.**

The Hillphoenix® CO<sub>2</sub> Cascade refrigeration product line combines one of nature's most abundant elements — CO<sub>2</sub> — with a secondary refrigerant of choice (ammonia, glycol, HFC etc.) in a parallel rack design that increases redundant capacity and refrigeration system availability.

## CO<sub>2</sub> Cascade Systems Industrial Refrigeration

CO<sub>2</sub> Cascade Systems Rack Specifications

Number of Compressors	2	2	2	3	3	3	4	4
Capacity (Tons of refrigeration)	4	23	43	65	79	98	115	144
Total Brake Horsepower	4	20	36	53	65	81	95	119
L x W x H	96" x 48" x 80"	96" x 48" x 80"	96" x 48" x 80"	120" x 48" x 80"	120" x 48" x 80"	120" x 48" x 80"	144" x 48" x 80"	144" x 48" x 80"
Weight	1,577 lbs	1,785 lbs	1,927 lbs	2,174 lbs	2,304 lbs	2,461 lbs	2,681 lbs	2,500 lbs

*Operating Conditions - R-744 Refrigerant, -20°F saturated suction temp, 20°F condensing temperature, no sub cooling*

Hillphoenix has spent years developing and refining the compressor technology employed in the CO<sub>2</sub> Cascade systems. The compressors are durable and reliable and will deliver long, uninterrupted operations. But when service is required, the parallel rack design has a distinct, built-in advantage.

Multiple compressors linked in parallel eliminate the costly inconvenience of downtime — scheduled or otherwise — because one compressor can be isolated for maintenance while the others in the system pick up the slack by adjusting their output to match load demands. There will be no interruption or degradation of service whatsoever. Maintenance is a breeze and serviceability enhanced when compressors are linked in a parallel rack configuration.

### Save Energy.

Compressors in our Cascade System are carefully selected to match refrigeration loads precisely so that only a minimal amount of electrical energy will be required at any one time.

### Save Space.

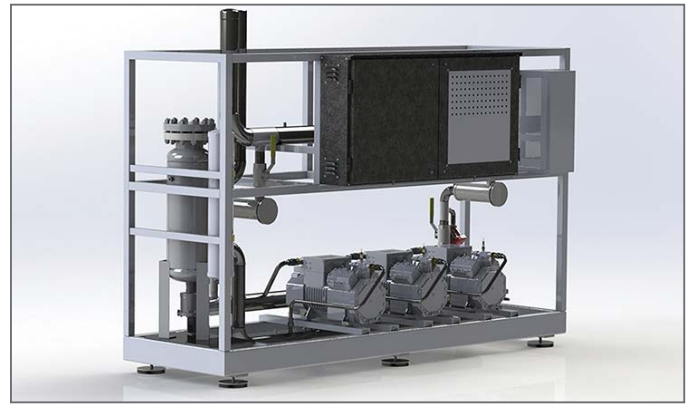
Hillphoenix designs its parallel rack systems with integrated power and control enclosures pre-installed which results in a more compact footprint. As a result, valuable floor space is freed up that can be made available for other uses.

### Save Hassle.

Every parallel rack assembly is configured, built, installed and tested at the factory before it is shipped. The system is mounted on a skid and the entire, one-piece assembly is shipped right to the job site without hassles or hiccups.

### Multiple Applications

End users concerned with reducing the overall operating costs as well as the amounts of refrigerant required by the systems in their cold storage, process cooling, biopharma and ice rink applications will find that benefits and peace of mind go hand-in-hand with a CO<sub>2</sub> Cascade parallel rack system from Hillphoenix.



*Integrated power and control enclosures are pre-installed which results in a more compact footprint.*



*Multiple compressors linked in parallel eliminate the costly inconvenience of downtime.*

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