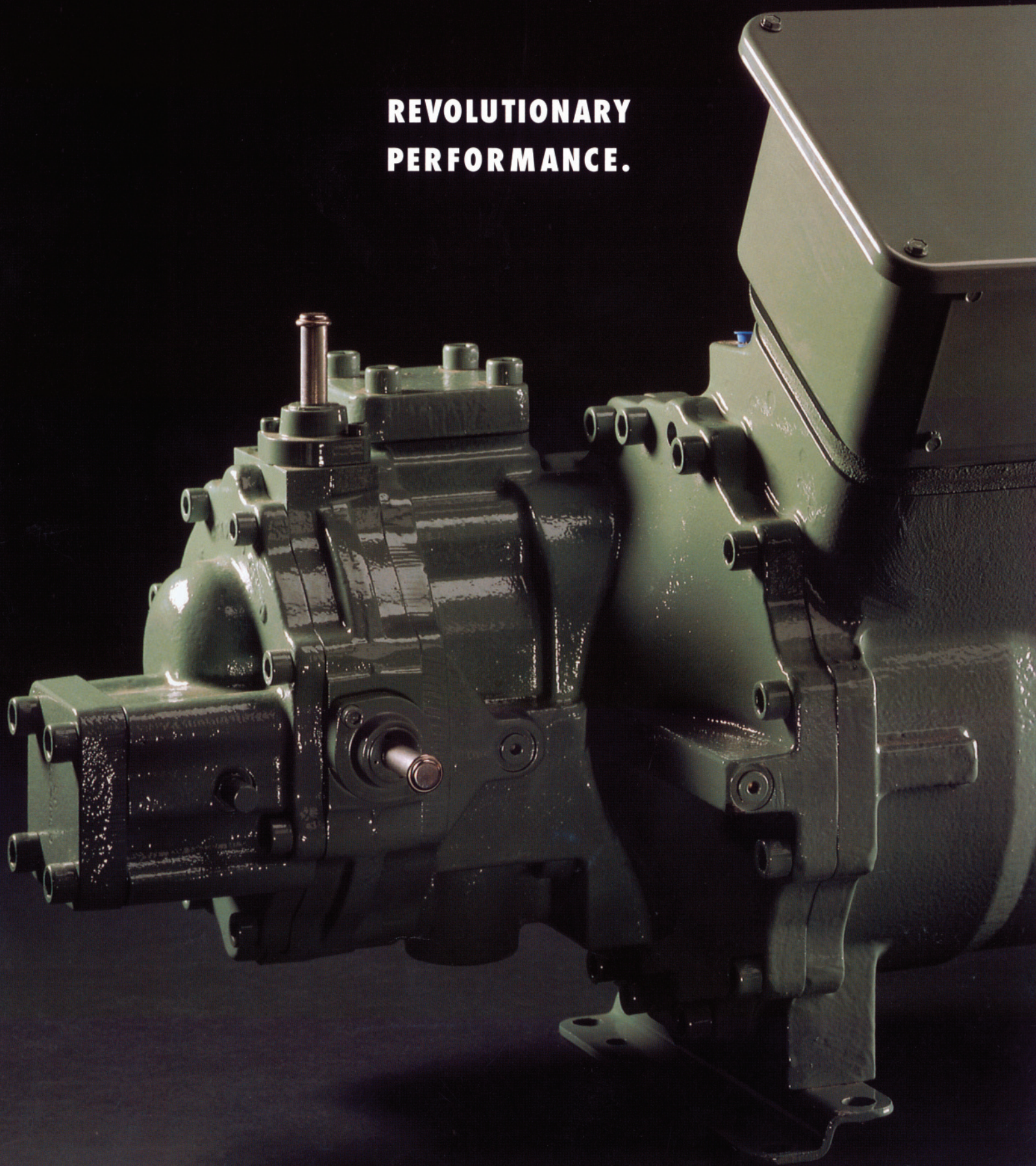


**REVOLUTIONARY
PERFORMANCE.**



INTRODUCING THE NEXT GENERATION IN COMPRESSOR TECHNOLOGY.

The Twin Screw compressor is more than just another addition to the Carlyle family of compressors. It's a whole new concept in compressor technology.

Its revolutionary Twin Screw design packs all the performance of standard reciprocating compressors into a fraction of the space — and with 85% fewer moving parts. That means greater reliability. Less vibration. And less noise.

But that's only the beginning. The Twin Screw was designed from the ground up to meet your needs now and in the years to come. It has no suction or discharge valves, so it handles liquid floodback better than anything on the market today. Its gear-driven design results in a small cubic volume compressor that yields a high specific output, allowing you to use fewer compressors per rack. It provides exceptional seasonal energy efficiency. And it's compatible with R-22, R-134a and other

new HFC refrigerants.

Simply put, the Twin Screw compressor is more than just the most high-tech, high-performance compressor available today. It's the future of compressor technology.

Superior reliability.

When you're looking for a compressor to provide reliable performance both today and in the future, look to the Twin Screw. Constructed with fewer moving parts than comparable reciprocating compressors and utilizing a soft compression technology, the Twin Screw is relatively vibration-free. That means less chance of line breakage and refrigerant loss. Plus, with no discharge or suction valves, the Twin Screw is much more tolerant of system transients that can occur at the end of defrost cycles and during expansion valve malfunctions.

Another feature that makes the Twin Screw's reliability second to

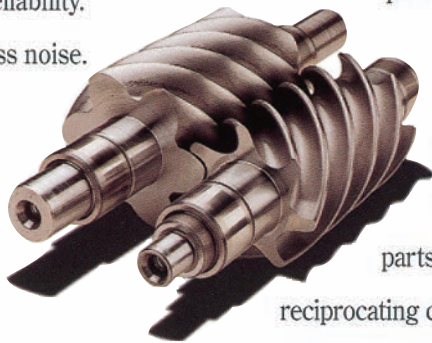
none is its high pressure oil feed. That makes its lubrication system more reliable — and it completely eliminates the potential for servicing and changing oil pumps in the field.

Refrigerant flexibility.

With environmental guidelines changing as often as they do these days, you need compressors that offer refrigerant flexibility. That's why we've designed the Twin Screw to be compatible with R-22, R-134a, and other new HFC refrigerants, as well as to allow for easy retrofitting as new refrigerants are introduced. What's more, the Twin Screw's tight-sealing O-rings will keep whatever refrigerant you choose from leaking into the atmosphere. And that's good news for all of us.

Small size. Big savings.

Perhaps the most noticeable — and most important — feature of the Twin Screw is its size and high specific output. For instance, a





65 CFM (1.53 m³/min.) screw compressor will yield capacities greater than a 99 CFM (2.34 m³/min.) reciprocating compressor. At a fraction of the size of comparable reciprocating compressors, the Twin Screw, with its high specific output, allows for smaller rack sizes and fewer compressors — while supplying all the performance of larger units. Plus, all Twin Screw models have the same footprint, dimensions and connection locations — so rack manufacturing is easier than ever. That means you'll save more than just space. You'll save time and money, too.

A wide range of applications.

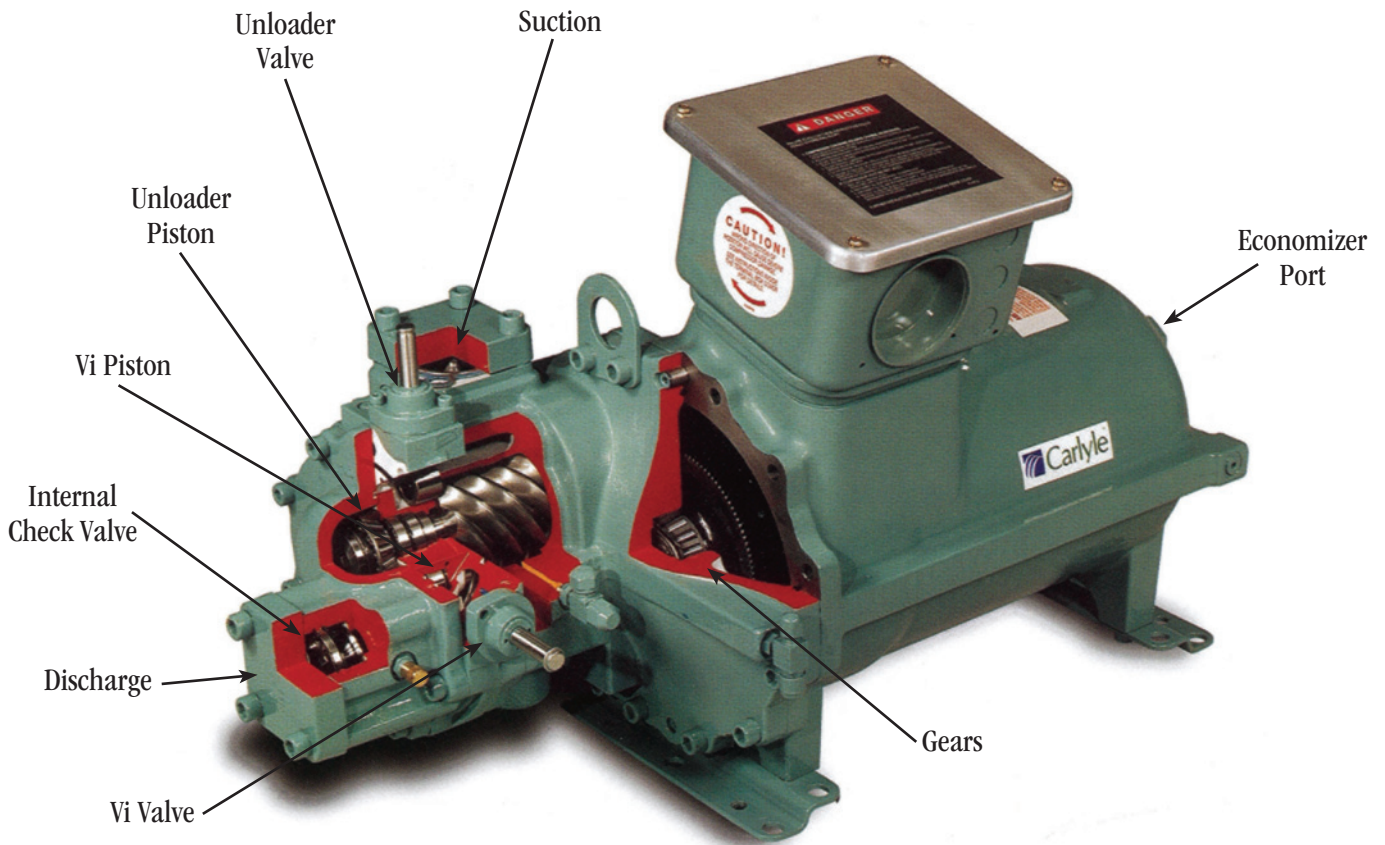
The Twin Screw compressor was designed to be used in a variety of applications, including commercial refrigeration, environmental chambers, and air conditioning. Please see our application guide for more information.

Features of the Twin Screw compressor.

- 15-40 hp sizes for low- and medium-temperature applications
- Suitable for alternative refrigerants such as R-134a
- No suction or discharge valves provide smooth, quiet, vibration-free operation

- Low-clearance screw design for lower oil circulation rates
- Ideal for variable speed applications
- Precision long-life bearings
- Capacity control
- Economizer cooled motor provides high efficiency operation
- Uses O-ring seals
- End-users and rack manufacturers can decide which refrigerant/oil combination to use in their system
- Internal discharge check valve
- No oil pump
- 2-step V_i for low temperature models, to maximize efficiency over a wide operating range of head pressures





CAPACITY (Btu/hr) @ 60 Hz					
Refrigerant	R-22	R-507/404A	R-22	R-507/404A	R-134a
Conditions*	-25/110/65	-25/110/65	20/110/65	20/110/65	45/130/65
06T**033	49,500	64,400	132,100	154,300	128,000
06T**039	61,700	79,100	161,100	189,100	156,700
06T**044	70,600	89,600	181,900	213,700	177,800
06T**048	79,200	99,600	202,100	237,800	194,400
06T**054	90,800	114,200	230,100	271,900	222,900
06T**065	113,200	143,800	287,200	338,600	284,200
06T**078	134,600	173,000	344,800	404,800	342,600
06T**088	149,000	195,500	387,400	452,800	387,700

* Economized (°F)

CAPACITY (kW) @ 50 Hz					
Refrigerant	R-22	R-507/404A	R-22	R-507/404A	R-134a
Conditions*	-30/45/18	-30/45/18	-5/45/18	-5/45/18	10/55/18
06T**033	12.05	15.26	32.56	37.57	33.97
06T**039	15.38	19.13	39.88	45.55	41.58
06T**044	17.91	22.03	45.64	53.00	47.14
06T**048	20.10	24.90	50.78	59.07	51.53
06T**054	23.45	28.97	58.61	68.22	59.07
06T**065	29.70	37.11	73.34	85.70	75.33
06T**078	35.15	45.46	88.97	103.50	90.77
06T**088	38.29	52.09	100.42	115.81	102.69
06T**108	46.23	60.65	118.84	138.34	118.15

* Economized (°C)

