

Compound Cooling™ Compressors



New Technology Applied

Carlyle's innovative design makes it literally two compressors in one, with both high and low stages built into one compressor. Our new narrow-seat valve design makes it the most efficient low temperature compressor on the market in both HCFC and HFC applications in the 6½HP to 30HP range.

Optimizes System Operation

Compatible with HFC refrigerants and POE oil in single, multiplexed and parallel system design configurations. Utilizing liquid subcooling minimizes liquid temperature fluctuation to TXVs on systems incorporating floating condensing temperatures.

Higher Efficiency

Compound Cooling™ compressors are dedicated to low temperature applications, operating down to -40F (-40C) and below. Low compression increases capacity, reduces system HP requirement and lowers applied costs of condensers and controls.

Greater Reliability

Compound Cooling compressors are tolerant to increases in condensing temperatures with little change in capacity resulting in stable suction pressures. Eliminates stressful short cycling and does not need to use liquid injection into the cylinder as other manufacturers have embraced. Liquid injected directly into the compressor cylinder reduces efficiency and decreases compressor reliability.

Model No.	CFM	R-507/R-404A				R-22			
		-25/110°F	-15/110°F	-32/43°C	-26/43°C	-25/110°F	-15/110°F	-32/43°C	-26/43°C
		60Hz		50Hz		60Hz		50Hz	
06CC125	24	32,200	40,500	7.87	9.90	25,000	31,800	6.13	7.76
06CC228	28	37,200	46,900	9.07	11.45	29,900	38,000	7.33	9.28
06CC337	37	51,800	63,400	12.65	15.49	40,400	51,400	9.92	12.56
06CC550	50	62,700	81,600	15.30	19.92	56,900	76,900	13.99	18.79
06CC665	65	90,900	113,300	22.19	27.67	72,200	91,300	17.75	22.29
06CC675	75	101,800	126,900	24.84	30.98	81,500	103,900	20.03	25.37
06CC899	99	135,600	168,000	33.11	41.01	104,600	133,200	25.71	32.55

Open Drive Reciprocating Compressors

Money Saving Flexibility

The automatic unloaded start capability makes expensive high-torque motors unnecessary, reducing initial expense.

Energy Efficient Operation

The design of the crankcase casting, cylinder heads and valve plates allow for a smooth, unrestricted flow of refrigerant through the compressor, resulting in greater operating efficiencies.



Dependable Performance

Positive pressure lubrication extends compressor life. Compressors can be operated as a direct drive or belt drive and various motors can be used – electrical, natural gas, diesel, etc. Available in both internal hydraulic, and external electric capacity control configurations.

Simple To Maintain

Designed to be completely rebuilt on-site, including cylinder wall replacement.

Environmentally Friendly

Compatible with HCFC and HFC refrigerants.

Model No.	CFM	R-507/R-404A				R-22				R-134A	
		-25/105°F	+15/110°F	-32/40°C	-10/43°C	-25/100°F	+15/110°F	-32/38°C	-10/43°C	+40/110°F	+4/43°C
		60Hz		50Hz		60Hz		50Hz		60Hz	50Hz
5F40	39.8	33,000	104,500	8.09	25.61	32,800	107,200	8.02	26.19	121,700	29.75
5F60	59.6	49,700	157,000	12.18	38.47	49,000	161,400	11.97	39.45	182,200	44.54
5H40	92.4	79,800	245,900	19.57	60.25	78,300	259,100	19.15	63.34	288,500	70.51
5H60	138.4	120,100	36,900	29.45	90.43	117,200	389,000	28.65	95.08	432,700	105.77
5H80	184.7	160,600	492,400	39.36	120.65	157,300	518,400	38.44	126.71	576,700	140.96
5H120	276.8	241,300	738,500	59.17	180.96	235,300	778,700	57.52	190.34	866,200	211.73



Carlyle: The Complete Compressor Company

The roots of Carlyle Compressor wind deep into the very beginnings of the refrigeration and air conditioning industries. Originally formed by Dr. Willis H. Carrier and J. Irvine Lyle to be the “compressor arm” of Carrier Engineering Company, its inventions and achievements in technology are reflected in most of the products and services now taken for granted by modern society. The name ‘Carlyle’ was derived from a combination of the last names of Dr. Carrier and his partner, Mr. Lyle. Foresight and strategic planning have been Carlyle’s benchmarks over the last 80 years, always a gracious acknowledgement of its proud past.



The company’s engineering contributions have impacted all of the known compressor designs, including centrifugal, reciprocating (open drive, semi-hermetic, and hermetic), and screw technologies. Since Dr. Carrier invented the centrifugal refrigerating machine in 1921, the centrifugal compressor has been the focus of continual product enhancements to maintain its leadership position. The company’s major innovations and refinements in reciprocating technology over the last 80+ years are well documented and have resulted in the industry’s most advanced product offerings.



Visit our website for compressor selection tools, bulletins, application and installation instructions.
www.carlylecompressor.com