

5H OPEN-DRIVE COMPRESSORS

AMMONIA (R-717) REFRIGERANT

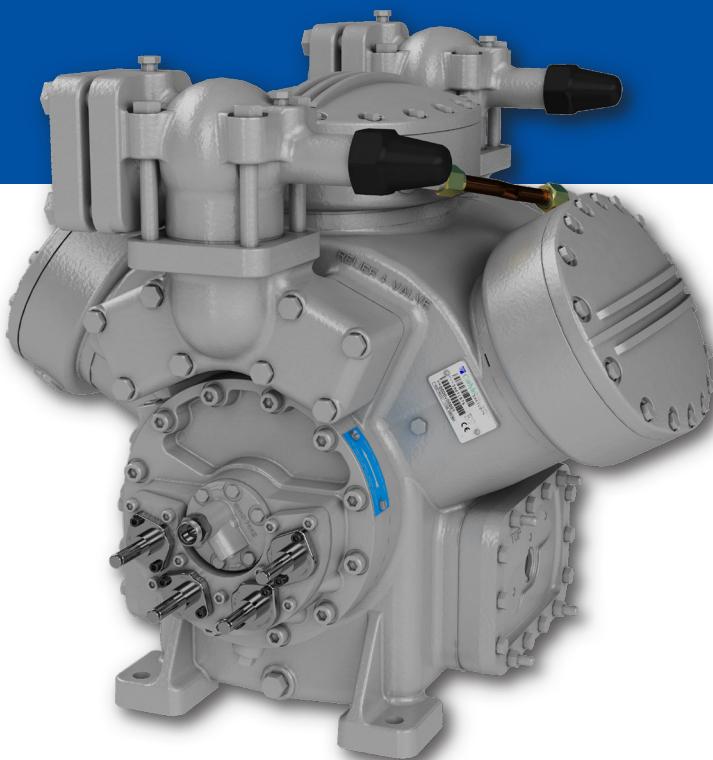
5H COMPRESSORS ARE PROVEN IN THOUSANDS OF APPLICATIONS WORLDWIDE, READY TO RUN AN ORIGINAL NATURAL REFRIGERANT



NON-OZONE DEPLETING, SUSTAINABLE REFRIGERANT PROVEN FOR OVER 70 YEARS – READY FOR THE FUTURE!

Ammonia (R-717) is a carbon neutral, non-ozone depleting refrigerant and addresses today's concerns about the global warming potential (GWP) of common hydrofluorocarbon (HFC) refrigerants. Ammonia is part of a small family of natural refrigerants found in the natural environment.

- ODP = 0 and GWP = 0. **ZERO!**
- Non-ozone depleting
- Protected against current phaseouts, taxes and F-gas regulations
- Cost-effective, available worldwide, requires no special disposal
- Non-miscible with oil – won't mix with the oil in the compressor crankcase
- Suitable for both direct expansion evaporators and flooded coolers
- Lower mass flow means smaller pipes and reduced installation costs
- Abundant refrigerant supply at lower prices than CFC and HCFC gases

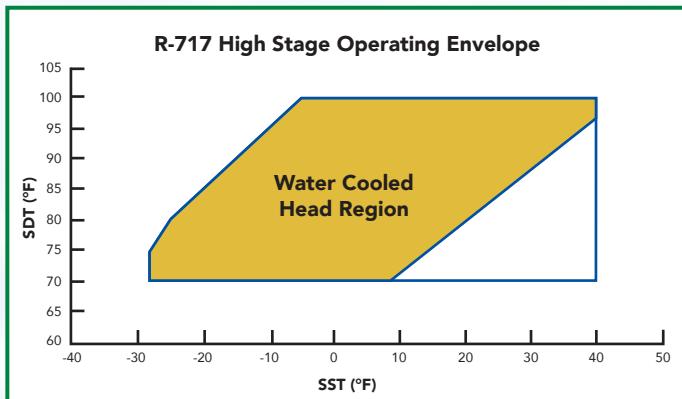


5H FOR AMMONIA AT A GLANCE:

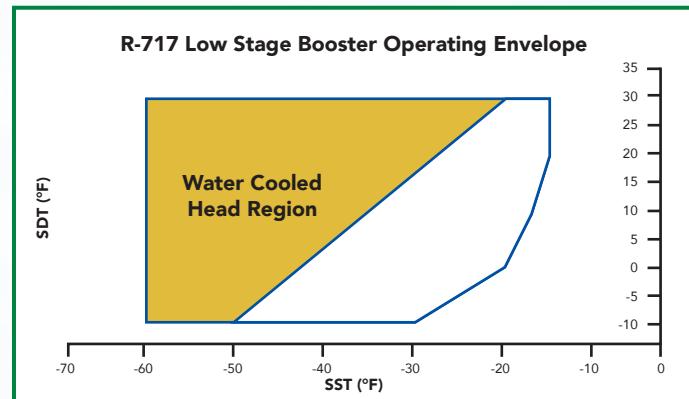
- All components qualified for Ammonia operation
- Factory Installed Features:
 - Electric Solenoid Unloading
 - Oil Pressure Safety Switch
 - Suction & Discharge Service Valves
- Optional Accessories:
 - Mufflers
 - Oil Cooler Kit
 - VFD (Variable Frequency Drive)

With the 5H for Ammonia, Carlyle brings to market reliability, efficiency and versatility that have been the hallmarks of reciprocating compressors. Now with the environmental and efficiency benefits of Ammonia refrigerant.

AMMONIA (R-717) HIGH STAGE OPERATING ENVELOPE



AMMONIA (R-717) LOW STAGE OPERATING ENVELOPE



Compressor Model – Ammonia (R-717)	5H41	5H61	5H81	5H121
Nominal HP	25	40	50	75
Maximum Speed - Single High Stage Maximum Speed - Low Stage Booster	rpm	1,275	1,275	1,275
		1,600	1,600	1,600
Displacement @ 1,275 rpm Displacement @ 1,600 rpm	CFM	67	101	135
		85	127	169
Minimum Speed For Unloading Minimum Speed For Lubrication	rpm	800	900	900
		400	400	400
Recommended Oil Differential Pressure	psid	45	45	45
Recommended Oil Type: CAMCO 717-LTSC	pints	18	21	41
Capacity Control Steps, Unloading 2 of 4 Capacity Control Steps, Unloading 4 of 6 Capacity Control Steps, Unloading 5 of 8	%	100/50	-	-
		-	100/66/33	-
		-	-	100/63/38
				400-1,275 400-1,600

Ammonia (R-717) benefits versus R-404A					
Percent Difference with Ammonia, 20°F/95°F/30°F/0°F Condition @ 1,275 rpm					
Models	Tons	BHP	EER	Mass flow (lb/hr)	Discharge Temp Delta (°F)
5H41, 5H61, 5H81 and 5H121	+3.9%	-8.3%	+11.8%	-688%	+86°



COUNT ON CARLYLE

Carlyle is a world leader in compressor technology. Our products can be found around the world – from the first nuclear sub to your grocer's freezer to entire bus fleets. That's because when it comes to refrigeration and air conditioning, the world relies on Carlyle.

For more information or to find a distributor in your area, please visit us online at www.carlylecompressor.com



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