OTHER REFRIGERATION SYSTEMS: STEAM-JET; AIR-CYCLE AND SCREW COMPRESSOR

Steam jet refrigerating apparatus was invented by Leblanc in 1905 while the origins of air-cycle units can be traced back to the 1920’s. The screw compressor is a positive displacement machine with two contra-rotating helical “gears” which compress the refrigerant gas. It was patented by Professor A Lysholm in 1934.

Ingersoll-Rand steam-jet system 1940’s
250 TR (875 kW) Worthington steam-jet unit in an oil refinery, 1940’s

Air-cycle refrigeration unit for Douglas attack plane, USA c.1950
Air-cycle air refrigeration unit for DC-6B airliner, c.1950

Frick 250 hp ammonia screw compressor probably 1970’s
Frick ammonia screw compressor supplied by York to a food manufacturing plant 1990’s