

Point of Manufacture – Curitiba, Mocksville, Naroda, Shanghai, Unicov

DETAILED SCOPE

ENERGY RECOVERY SYSTEM

GENERAL DESCRIPTION

Energy Recovery System (ERS) is designed around the concept of recovering the thermal energy rejected to cooling oil during compression process. This energy can be used for various applications. Energy recovery systems provide a cost-effective way for compressed air users to reduce their energy bills and benefit the environment by capturing the thermal energy rejected during compression and putting it to work.

APPLICATION

Energy Recovery System uses a Brazed plate type heat exchanger. Cooling water passes through alternating plates and the hot oil through the adjacent plates. The heat exchangers are constructed of ANSI 316 stainless steel plates with copper braze. The heat exchanger passages may be cleaned with the proper chemical cleaning agents. For maximum efficiency it is recommended to pipe oil and water in counter flow through the heat exchanger.

System has water inlet and outlet port for customer connections. Standard female NPT ports are provided for the same. An optional female BSPT connection is also available.

System has been designed considering Ultra coolant as the compressor oil. In case any other oil is used in the system, ERS efficiency will be affected. Ingersoll Rand ERS is designed to recover thermal energy in the form of hot water. Depending upon the package and operating conditions specific water flow rates have been recommended. Refer respective performance curves for the same. Water quality plays a key role in efficiency of ERS. Refer water quality guidelines on sales library for more details.

FLEXIBILITY

Energy Recovery system is available in both factory fitted and field fitment kit versions.

Field assembly kit numbers –

Package	Kit CCN
R90-R110 kW	23548217
R132-R160 kW 1/2 Stage	23582075