

**The multi compressor racks are built with:**

- Reciprocating compressors:
  - Semi hermetic type, compressor brands:
    - Bitzer.
    - Dorin.
  - Open type, compressor brand:
    - Bitzer.
- Screw compressors:
  - Semi hermetic type, compressor brand:
    - Bitzer.
  - Open type, compressor brand:
    - Bitzer.

**The plug & play compressor racks can be designed for the commonly used refrigerants like:**

- R134a.
- R449A.
- R717.

**Standard scope of supply:**

- Central suction line, in this line we can mount:
  - Shutoff valve (optional).
  - Suction filter (optional).
  - Suction accumulator (optional, possibility depending on line dimension and refrigerant).
- **Suction header.**
- **Suction line to each compressor, in these lines we can mount:**
  - Suction filter (optional).
  - Suction accumulator (optional, possibility depending on line dimension and refrigerant).
- **Compressor, with:**
  - Oil sump heater.
  - Oil safety switch (for reciprocating compressors).
  - High-pressure switch.
- **Discharge line from each compressor; in these lines we can mount:**
  - Muffler (optional).
  - Non-return valve (optional).
- **Discharge gas collector.**
- **Oil separator.**
- **Oil return system.**
- **Oil cooler for screw compressor racks.**
- **Central discharge line, in this line we can mount:**
  - Non-return valve (optional).
  - Main valve (standard for screw compressor rack).
  - Shutoff valve (optional).
- **Instrumentation:**
  - Low-pressure part:
    - Low-pressure gauge.
    - Low-pressure switch.
    - Low-pressure probe 4-20 mA (optional).
    - Service shutoff valve.
  - High-pressure part:
    - High-pressure gauge.
    - High-pressure probe 4-20 mA (optional).
    - Service shutoff valve.
  - Oil-pressure part (only for reciprocating compressors with an oil pump):
    - Oil-pressure gauge (for each compressor with an oil pump).

- Service shutoff valve (for each oil-pressure gauge).
- Economiser-pressure part (only for screw compressor racks with economizer operation):
  - Economiser-pressure gauge.
  - Economiser-pressure probe 4-20 mA (optional).
  - Service shutoff valve.
- **Liquid receiver** (as an option, built on the same rack or supplied on a separate base frame)
  - Liquid return line to the receiver, in this line we can mount:
    - Shutoff valve.
    - Non-return valve.
  - The liquid receiver can be supplied with:
    - Safety valve (single or dual).
    - Low level sensor.
  - Liquid outlet line, in this line we mount:
    - Filter-drier.
    - Sight glass.
    - Shutoff valve.

**For the correct design of the compressor rack we need to know:**

- Evaporating temperature.
- Suction superheat for the system design:
  - Direct expansion systems.
  - Flooded system.
- Condensing temperature.
- Subcooling.
- Minimum and maximum design capacity.
- Total number of compressors (preferred is that the compressor selection is already done by the Beijer Ref company).
- Capacity control (if yes how, frequency controlled, mechanical capacity control).
- For screw compressor racks where oil cooling is needed, we need to know how the oil cooling needs to be designed, including the right temperatures.

**Optional for complete plug & play:**

- Electrical control cabinet and wiring for controlling the compressor rack (optional possible, with Dixell controllers. The Dixell controllers are with factory settings)
- Condenser
- Evaporators direct expansion or pumped.
- Flooded evaporator with accessories.
- Pump receiver with pump and other accessories.