

CRITERIA FOR CORRECT SELECTION OF REFRIGERATION INVERTERS IN SYSTEM DESIGN

The collection and analysis of the following data is necessary for correct refrigeration system design, evaluation and quoting:

1. APPLICATION:

- Refrigeration**
 - No. of cooling outlets _____
 - Largest cooling outlet _____ kW
 - Smallest cooling outlet _____ kW
- A/C
- Chiller
- Heat pump
- Condenser
- Ship/isolated net with generator operation
- Other application: _____

2. CONFIGURATION:

- Direct evaporation**
- Direct condensation
- Cooling mediumt** _____
- Heat transfer medium _____
- Cascade** _____
- Other: _____

3. PROCESS:

- Refrigerant:** R _____
- Evaporating temperature:** _____ °C
- Temp. of cooling medium::** _____ °C
- Condensation temperature:** _____ °C
- Temperature of heat transfer medium:** _____ °C
- Ambient temperature, max./min.: _____ / _____ °C
- Expansion valves: Thermal _____
Electronic _____
- Refrigeration cooling or heating power: _____ kW (pto)

4. CONTROLLING:

- Suction pressure with pressure sensor**
- Evaporation pressure with pressure sensor
- External control with 0 ... +10 V signal**
- External control with setpoint adjustment of 0 ... +10 V signal**
- Temperature control of coolant (chiller)**
- Outdoor temperature-controlled condensation (floating control)**
- Time-controlled evaporation temperature (night-time increase)**

5. COMPRESSOR:

- Manufacturer:** _____
- Compressor VsC1 (variable speed):** _____ (Type)
- Compressor FsC2 (fixed speed):** _____ (Type)
_____ (Number)
- Compressor capacity control**
- Compressor motor connection:**
 - Star
 - Delta
 - Part-Winding
- Special features:** _____

7. FAN:

- Manufacturer:** _____
- Variable-speed fan Group VfG1:** _____ (Type)
- Number:** _____
- Special features:** _____

8. PUMP:

- Manufacturer:** _____
- Number in parallel circuit:** _____
- Special features:** _____

9. COMMENTS: