BASIC 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:

0 *AGENT/:*
PARTNER:
Name/
Date:

CUSTOMER/
INSTALLER:

INSTALLATION/-
PLACE:

1. PROJECT/REFERENCE: _____

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: _____

3. CONFIGURATION:
☐ **Direct evaporation**
☐ Direct condensation
☐ **Cooling mediumt** _____
☐ Heat transfer medium _____
☐ **Cascade** _____
☐ Other: _____

4. 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)

Application Information Bulletin
Number: 019.2

Products: *FrigoPack (E)* FU+ / *FrigoPack(E)* FMV / *FrigoPack*(E) FEP
Keywords: Selection of inverters for refrigeration systems, criteria

KIMO
RHVAC Controls

5. 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)**

☐ Isesco energy-saving intelligent control

6. 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:

Note: Please pay special attention to the passages in **BOLD** letters!