ESSENTIAL INFORMATION FOR FAULT FINDING AND PROBLEM SOLVING IN INSTALLATIONS WITH *FRIGOPACK* FEP

Basic installation data and settings are needed for effective trouble-shooting, analysis and problem-solving:

1. **REFERENCE/ CUSTOMER:** _____

2. **INVERTER DATA:** Type[1]: _____

   Software version[2]: _____

   Please press key **„E“** several times to reach start menu level
   [1]) note content of 1st display line
   [2]) note content of 2nd display line

   Serial number: _____
   (see type plate)

   Trip message as displayed: _____

   Further comments on trip occurrence (how often, special time of day?): _____

   Anything special about installation? _____

   Please enter data given in parameter „DIGITAL I/O“ (Menu *Diagnostics*): _ _ _ _

3. **INSTALLATION:**

   Refrigerant: **R** _____

   Compressor: Manufacturer: _____

   Compressor VsC1 (variable speed): _____ (type)

   Compressor FsC2 (fixed speed): _____ / _____ (type/number)

   Compressor with capacity control (CC): _____

   Type of installation:

   - □ Low temp. (LT) Temp./Op. points: _____
   - □ Medium temp. (MT) Temp./Op. points: _____
   - □ A/C Temp./Op. points:: _____
   - □ Chiller
   - □ Heat pump
   - □ Condenser
   - □ Other:

4. CONFIGURATION:

- □ Direct evaporation _____ (temperature)
- □ Direct condensation _____ (temperature)
- □ Cold medium _____ (temperature)
- □ Heat medium _____ (temperature)
- □ Cascade _____
- □ Other: _____

5. CONTROLLING:

- □ Suction pressure control with pressure sensor
- □ Evaporation pressure control with pressure sensor
- □ External control with 0… +10 V signal
- □ External controls with setpoint adjustment 0 … +10 V
- □ Temperature control of chiller medium
- □ Outside temperature guided condensation (floating control)
- □ Time-controlled evaporation temperature (night-time increase)
- □ ***Isesco*** energy-saving intelligent control system

6. TRIP DIAGNOSIS

Please enter values in menu „Diagnostics/…Trips/FIRST TRIP…TRIP 1..10“ into table on page 3 and send to supplier

7. CIRCUIT DIAGRAMS

Please send electrical wiring/circuit diagrams of installation to KIMO !

8. COMMENTS:

Diagnose

DIAGNOSTICS menu at level 1 (M / E)

Digital inputs:

Trips:

State indications:

DRIVE FREQUENCY = YY.YY Hz	Internal value	Variable-speed Compressor: Motor Frequency	
DIGITAL I/O = YYYY >	Value	Digital inputs and outputs	
ACTIVE TRIPS = YYYY >	Trips	Active trips: First set	
ACTIVE TRIPS+ = YYYY >	Trips	Active trips: Second set	
WARNINGS = YYYY >	Warnings	Warnings: First set	
WARNINGS+ = YYYY >	Warnings	Warnings: Second set	
FIRST TRIP = YYYY >	Trip	Trip which caused shut down	
TRIP 1 (NEWEST) = YYYY >	Trip	Trip 1 (newest) which caused shut down	
TRIP 1 TIME =TYY:YYYYYYYYY	Time	Time trip 1 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 2 = YYYY >	Trip	Trip 2	
TRIP 2 TIME =TYY:YYYYYYYYY	Time	Time trip 2 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 3 = YYYY >	Trip	Trip 3	
TRIP 3 TIME =TYY:YYYYYYYYY	Time	Time trip 3 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 4 = YYYY >	Trip	Trip 4	
TRIP 4 TIME =TYY:YYYYYYYYY	Time	Time trip 4 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 5 = YYYY >	Trip	Trip 5	
TRIP 5 TIME =TYY:YYYYYYYYY	Time	Time trip 5 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 6 = YYYY >	Trip	Trip 6	
TRIP 6 TIME =TYY:YYYYYYYYY	Time	Time trip 6 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 7 = YYYY >	Trip	Time trip 7 occured	
TRIP 7 TIME =TYY:YYYYYYYYY	Time	Time trip 6 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 8 = YYYY >	Trip	Trip 8	
TRIP 8 TIME =TYY:YYYYYYYYY	Time	Time trip 8 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 9 = YYYY >	Trip	Trip 9	
TRIP 9 TIME =TYY:YYYYYYYYY	Time	Time trip 9 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TRIP 10 (OLDEST = YYYY >	Trip	Trip 10 (oldest) which caused shut down	
TRIP 10 TIME =TYY:YYYYYYYYY	Time	Time trip 10 occured	Days ago: 0,00 d Approx. Time: 0.1.00 0:00
TIME IN SERVICE = YYYY >	Time	Time powered up	Days: 0,00 d
TIME RUNNING =TYY:YYYYYYYYY	Time	Time VsC running	Days: 0,00 d
START COUNT = YYYY >	Value	Number of VsC starts	
ATTEMPTS LEFT =TYY:YYYYYYYYY	Value	Autorestart logic: Attempts left	
TIME LEFT =TYY:YYYYYYYYY	Value	Autorestart logic: Time to next start attempt	
SEQUENCER STATE = YYYY >	Status	Operating status: Sequencer control state	
MOTOR STATE =TYY:YYYYYYYYY	Status	VsC operating status: Sequencer control state	

Important installation data:

Please fill in all yellow fields.
If cell AT116 is filled in correctly, then the correct times will be calculated

End Customer:	
Endkunde:	
Installation:	
Section:	
Date / Time:	
Person:	