

Electrical and functional test

FT King System Test

High TAKT Time Productivity System for appliance performance tests

FT King System Test

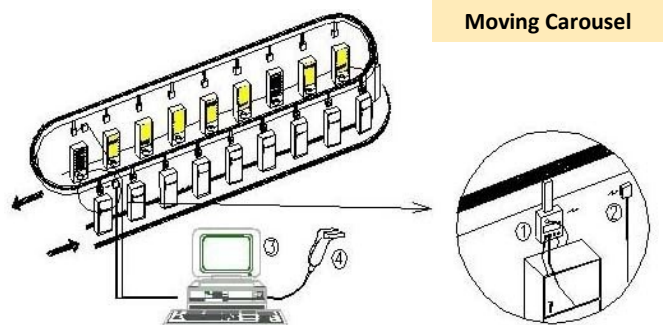
FT King System Test is designed for high speed production lines where many refrigeration units have to be tested at same time in a carousel room. FT King System Test consists of a central control unit (Server PC) and a number of acquisition boxes placed near the products to be tested.

Each acquisition box controls up to 5 temperature probes and the current absorbed by the unit under test (power load as an option). Finally, the management software creates and summarizes a final report of the temperature trend (visible in real time) and a power absorption diagram with the operating ratio based on the parameters stored for each model under test.

FT King System Test Data acquisition communication works by utilizing a radio communication on Industrial protocols RS-485 WiFi installed on the acquisition box and in the central Personal Computer that works as server receiver.

General Overview:

FT King System Test is a refrigerator temperature performance data acquisition and processing system, which is mainly used to detect the temperature inside the refrigerator and the pipeline temperature during the refrigeration process. The system can collect temperature and power data according to the device under test's setup cycle. At the outlet, the temperature and power data collected over a period of time is transmitted via radio to the computer. The computer displays the values and related curves so that the inspector can visually interpret the data. After the inspection is completed, the system can automatically determine whether the product is suitable according to the established standards. The generated reports can be exported in DB file so to be acquired by a quality elaboration system.





Technical Characteristics FT King System Test Features

- Server PC with pre-installed Software and relevant drivers
- Barcode reader for data input
- Realtime Temperature and Power consumption charts displayed on Monitor
- Up to 200 acquisition boxes that can be managed at same time for a 180 minutes test time
- Wireless Board for radio data broadcasting to acquisition box
- Wireless Data acquisition by continuous loop Boxes query
- Reports stored in Microsoft standard Databases with SQL standardized language with all relevant function of searching and order the results
- Pass/fail criteria related to particular type of fridge for model such as power consumption and temperature
- Test duration up to 180 minutes

型号	数量	合格数	不合格数	类型
BCD-216R30A	1422	1243	179	3
BCD-216R30B	2123	2050	73	5
BCD-216R30C	1730	1620	110	6
BCD-216R30D	96	90	6	2
BCD-216R30E	3010	2914	96	2
BCD-216R30F	274	262	12	2
BCD-216R30G	185	182	3	18
合计	7899	7349	550	18

型号	合格数	不合格数	不合格原因	不合格数
BCD-216R30A	6	157	0	3
BCD-216R30B	13	117	2	1
BCD-216R30C	1	31	0	5
BCD-216R30D	2	2	0	2
BCD-216R30E	22	103	0	1
BCD-216R30F	2	11	3	0
BCD-216R30G	0	25	6	4
合计	45	424	11	22

Technical Characteristics of the Acquisition Box

- Acquisition Box Dimension: L = 400mm, W= 300mm, H = 350mm
- up to 5 NTC digital temperature probes (range -50 ÷ +100 °C, +/-1 °C)
- N. 1 amperemeter to measure the current or power absorption (0-10A +/-1 f.r.)
- N. 1 Schuko electric plugs 230 V, 50 Hz (110 V 50/60 Hz on demand)
- N. 1 magnetic and thermic switch device
- N. 3 Service Lamps for working phases
- N. 1 Wireless Radio module for communication to Server PC
- On request: Onboard display for an immediate monitoring of running test

Company Profile

Vacuum and Charging units

HC Refrigerants handling systems

Special units

Vacuum and Charging Injectors

Refrigerant transfer pump

Pressure test units leak detectors

Preliminary evacuation

Electrical and functional test

Ultrasonic tube sealers

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