



The structure of I-Thermo-moisture balance is based on the Bel innovative concept of the DOUBLE CASE that characterizes the professional products of Bel Engineering.

The outer case in plastic composite material contains an inner cast aluminum case with two separate rooms that enclose, respectively, the weighing unit and electronic boards.

This innovative system, unlike other brands balances based on SINGLE aluminum case, allows double protection of the weighing unit from heat irradiated above, ensuring excellent conditions for weight loss detection.

The philosophy to adopt two microprocessors of the last generation and that is, high performance at competitive cost, enabled Bel Engineering to introduce in the market a product with brilliant benefits at a competitive cost. I-Thermo moisture balance is the right choice in terms of "quality and competitiveness".

The new models of moisture balances series I-Thermo is the summary of the latest technological innovation and the "Italian design" that have always characterized Bel Engineering products. Adopting two microprocessors, one for controlling all functions of the balance and the other for total control of the furnace heat, Bel Engineering came to realize the ideal equipment for moisture determination of raw materials and finished products in the food, cosmetics, dairy, pharmaceutical, chemical, ceramics and construction materials industries, in the agriculture, etc.

The moisture balance enclose the function to check and calibrate the temperature on the plate specimen holder whenever it is requested by using a separate thermometer.

This operation ensures that all samples tested over time are subjected to the same temperature, guaranteeing a process repeatability.

Features

- LCD with backlight with adjustable contrast
- RS232 serial interface
- Halogen Infrared lamp
- Time operating mode 1-99 minutes
- Autostop operating mode
- 5 drying programs can be stored
- Temperature range: 35-160°C/1°C
- Moisture, dry residue in percentage and ATRO indications
- Drying resolution 0,01%
- Print of weight and of drying results
- 10 test pans diam.100mm for samples
- Plastic protection cover



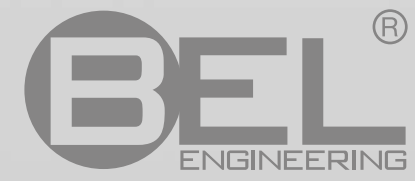
Accessories

- Calibration weight
- Serial Printer TLP-50 with date/time
- PC connection cable
- Thermometer calibration KIT, nod.STCi-01

TECHNICAL SPECIFICATION	I-THERMO 163M	I-THERMO 163L
WEIGHING SYSTEM		
Range (g)	160	160
Readability (g)	0.001	0.001
Repeatability (g)	0.0005	0.002
Linearity (g)	± 0.001	± 0.003
Operating Temp. Range	5°C...35°C	5°C...35°C
HEATER		
Heat source	Halogen Infrared lamp	
Temp. sensor	PT-100	
Temp. range	50°C...160°C	
Temp. step	1°C	
Temp. compensation [2 points]	80°C...150°C or selectable	
Temp. slew rate	~ 30°C/min	
MOISTURE ANALYSIS		
Moisture range	0.00%...100%	
Moisture readability	0.01%	
Dry residual range	100.00%...0.00%	
Dry residual readability	0.01%	
ATRO	100%...999%	
ATRO	0%...999%	
MOISTURE PRECISION		
Sample weight (2g...10g)	0.05%...0.5%	0.2%...1%
OPERATING MODES		
Time-temperature setting	1...99min by 1min step 50°C...160°C by 1°C step	
Autostop	0.1%...9.9% within 1 min 50°C...160°C by 1°C step	
MEMORY CAPACITY		
Number of programs	5	
PRINT OUT		
Data	Date, time, starting weight, final weight, moisture, temperature, interval time	
POWER SUPPLY		
Heater	230 Vac ±15% 50/60 Hz 115Vac ±15% 50/60 Hz (on demand) 400 Watt	
Balance	110 - 230 Vac ±15% 50/60 Hz 9V 1000mA	
Calibration	External	
Pan size (mm)	100 Ø	
Dimensions (WxLxH)	345x215x240h (mm)	
Weight (Kg)	5	4.7



IT 100
Thermometer for temperature calibration



I-THERMO SERIES



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