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.

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".

TECHNICAL SPECIFICATION	i-THERMO 163M	i-THERMO 63L
WEIGHING SYSTEM:		
Range (g)	160	60
Readability (g)	0.001	0.001
Repeatabilty (g)	0.0005	0.002
Linearity (g)	±0.001	±0.003
Operating Temp. Range	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)	0.04%...0.5%	0.2%...1%
OPERATING MODES:		
Temperature time:		
Temperature setting	50°C...160°C by 1°C step	
Time setting	1...99min by 1min step	
Autostop	0.1%-9.9% within 1 min	
MEMORY CAPACITY:		
Number of programs	5	
PRINT OUT:		
Data	Date, time, starting weight, final weight, moisture, temperature internal time	
POWER SUPPLY:		
Heater	230 Vac ±15% 50/60 Hz 115Vac ±15% (on demand) 400 Watt	
Balance	External power supply Output: 24V/cc - 24Va 9V/cc - 9Va Input: 230Vac ±15% 50-60Hz 115Vac ±15% 50-60Hz (on demand)	
MISCELLANEOUS:		
Display	Back lite LCD	
Calibration	External	
Pan size (mm)	100 Ø	
Dimensions (WxLxH)	325x205x200	
Weight (Kg)	5.8	4

Accesories:

- Single use sample plate
- Printer
- PC connection cable
- Dust cover