HR83 Halogen

Perfect Results?
Certainly.



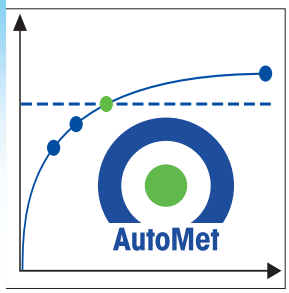
Ultra-fast drying
The circular halogen lamp and gold-plated reflector ensure exceptional reproducibility and rapid heating of the sample. For results you can rely on, within minutes.



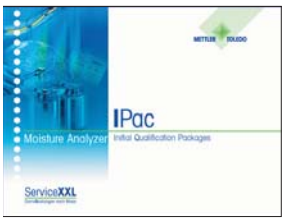
Precision & repeatability
The outstanding measurement performance of the HR83 is based on METTLER TOLEDO analytical weighing technology. For precise results with up to 10 ppm MC resolution and highest measurement security.



Full compliance to SOP and regulations
The HR83 is ideal for regulated areas. All features required to achieve compliance are provided. Includes password protection, sample identification and the fully traceable instrument check – a clever solution, exclusive to METTLER TOLEDO HR83.



AutoMet – Reduces development time
Obtaining a result which matches the reference value is effortless with AutoMet. To develop a method simply specify the target value and leave the rest to the HR83. AutoMet can cut development time by 50%.



IPac Moisture
The fastest way to ensure quality and regulatory compliance.
- Save time: immediately start working with a qualified instrument
- Ensure productivity and safe working processes by user familiarization
- Compliance: limit the risk of non-compliance during audits and QM system assessments



HR83 Halogen Moisture Analyzer
The professional solution for R&D and regulated environments

Regardless which samples you need to analyze – the HR83 gives you all the analytical power you expect from a METTLER TOLEDO instrument.
With a readability of 0.001%, password protection and traceable sample identification, the HR83 offers secure and documented results – for full regulatory compliance. The unique feature "AutoMet" substantially accelerates method development and further increases productivity.

METTLER TOLEDO

Specifications HR83

Measurement values	
Readability moisture content	0.01% / 0.001%
Repeatability (sd) with 2 g sample	0.05%
Repeatability (sd) with 10 g sample	0.01%
Evaluation	
Moisture and dry content in %	•
Dry content in g	•
ATRO Dry, ATRO Wet	•
Statistics function	Can be activated
Journal function	Can be activated
Balance	
Max. sample weight	81 g
Min. sample weight	0.1 g
Readability	1 mg / 0.1 mg
Drying unit	
Technology	Halogen
Temperature range	40–200 °C
Adjustment increments	1 °C
Temperature programs	4
Switch-off	
Time controlled (minutes)	0,5–480
Automatic (in 5 steps) + free criteria	•
User support	
Automatic method development	AutoMet
Automatic sample chamber	•
Method memory	40
Method designation (alphanumeric)	•
Comment lines (alpha numeric) per sample	4
Free factor	•
Method linking	•
Standby temperature	•
LC display (backlit)	•
Printer	Can be built in
Quality management	
Balance test	0.1 g–80 g
Weighing-in guide	Active / passive
Password	3-level
Change protection	•
GLP/GMP-compliant printouts	•
Heating module test	2-point test/point of use

Accessories

	MT part no.	**Remarks**
Sample handling (90 mm)		
Aluminum sample pan, HA-D90	13865	Set of 80
Prof. aluminum sample pan (extra strong)	11113863	Set of 80
Reusable sample pan (steel, height 6 mm) HA-DR1	214462	Set of 3
Reusable sample pan (steel, height 15 mm)	13954	1 piece
Textile weighing pan, HA-CAGE (gold cage for voluminous samples)	214695	1 piece
Sample-pan handler, HA-PH	214526	Set of 3
Glass-fiber disks, HA-F1	214464	Set of 100
Printers		
Printer paper	72456	Set of 5 rolls
Printer paper (self-adhesive)	11600388	Set of 3 rolls
Printer ribbon, black	65975	Set of 2
Quality management		
Temperature adjustment set, HA-TCC (incl. traceable test certificate)	214528	40 °C to 200 °C
Certified adjustment weight 50 g Class F1	11119530	
Tweezer	11116540	
Accessories		
Chemical-resistant protective cover	214533	Set of 2
Barcode reader	21901297	MT Heron-G D130
RS232 F Cable (CAB-327)	21901305	
Null Modem Adapter 9P M/M	21900924	



Thanks to its perfect surface finish, the METTLER TOLEDO aluminimum sample pan is best suited for all applications.



The absorbent glass-fiber filter is beneficial for liquid or pasty substances. For a further reduction in analysis time.



The gold-plated cage is the ideal solution for voluminous samples such as textiles.

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-MOISTURE DETERMINATION-

PHARMA CO.
LABORATORY 124

METTLER-TOLEDO
Halogen MoistureAnalyzer
Type:                HR83
SNR:           1113143294
SW:                  2.10
Balance Adjustment      2
Dryer Unit Adjustm.     3

Measurement             3
Method:
01              MEFENAMIN
C1:   PRODUCTION LINE A1
C2:            CHARGE 394
Switchoff mode      F
          1 mg /  45 sec
Standard drying
Drying temp.      105 °C
Display     0...-100 %MC
Wet weight     5.0002 g
  0:30 min      -0.44 %MC
  1:00 min      -0.64 %MC
  1:30 min      -0.76 %MC

Total time       3:26 min
Dry weight     4.9505 g
Moisture       0.0497 g

End result     -0.994 %MC
User signature:

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Reports: GMP/GLP-compliant
The reports provide full documentation for each and every measurement. The content is determined by you.

ISO 9001 registered
ISO 14001 registered

Fisher Scientific

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