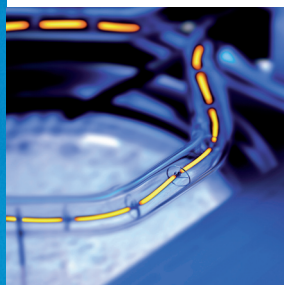


Perfect Results? Certainly.



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.



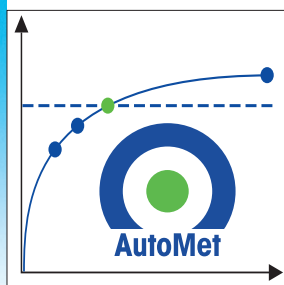
Precision & repeatability

The outstanding measurement performance of the HR83 is based on METTLER TOLEDO analytical weighing technology. For precise results with up to 0.001% MC resolution and highest measurement security.



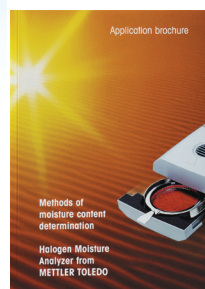
Full compliance to SOP's and regulations

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%.



Know-how that's professional and practical

You will find valuable background information and practical advice on specific applications in dedicated literature from METTLER TOLEDO. A host of carefully worked-out methods is also available at www.mt.com/moisture-methods



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.

Specifications HR83

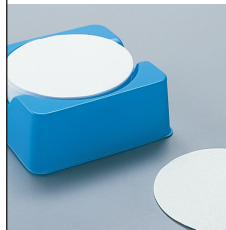
Measurement values		User support	
Readability moisture content	0.01% / 0.001%	Automatic method development	AutoMet
Repeatability (sd) with 2 g sample	0.05%	Automatic sample chamber	✓
Repeatability (sd) with 10 g sample	0.01%	Method memory	40
		Method designation (alphanumeric)	✓
		Comment lines (alpha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

Accessories

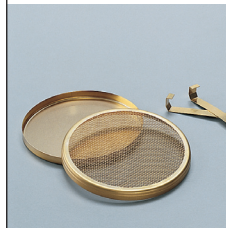
	MT part no.	Remarks
Sample handling (∅90 mm)		
Aluminum sample pan, HA-D90	13865	Set of 80
Prof. aluminum sample pan (extra strong)	11113863	Set of 80
Reusable sample pan (steel, height 6 mm) HA-DR1	214462	Set of 3
Reusable sample pan (steel, height 15 mm)	13954	1 nos.
Textile weighing pan, HA-CAGE (gold cage for voluminous samples)	214695	1 nos.
Glass-fiber disks, HA-F1	214464	Set of 100
Printers		
Printer paper (self-adhesive)	11600388	Set of 3 rolls
Printer paper	72456	Set of 5 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
Adjustment weight 50 g (Class F1)	15865	
Accessories		
Chemical-resistant protective cover	214533	Set of 2
Barcode reader	21900879/21900924/229065	
110 V model	21900883	
230 V model	21900882	
Sample-pan handler, HA-PH	214526	Set of 3
Interface cable LC-RS9 (RS232/9 pole)	229065	



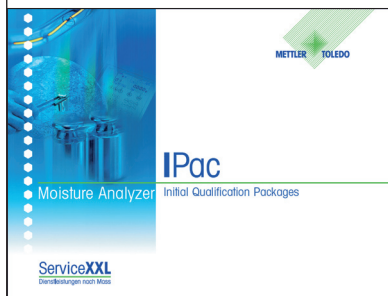
Thanks to its perfect surface finish, the METTLER TOLEDO aluminum sample pan is best suited for all applications.



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.



IPac Moisture

The IPac Moisture is 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

—MOISTURE DETERMINATION—

PHARMA CO.
LABORATORY 124

METTLER-TOLEDO
Halogen Moisture Analyzer
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
C3: AFTER PURIFICATION
C4: BOB MILLER
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
2:00 min	-0.86 %MC
2:30 min	-0.92 %MC
3:00 min	-0.98 %MC

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

End result -0.994 %MC
User signature:

.....
---09/08/03---21:41---

Reports: GMP/GLP-compliant

The reports provide full documentation for each and every measurement. The content is determined by you.