

## Moisture Analyzers IR-120, IR-60 and IR-30

Premium



Standard



Basic



# Premium

The IR-120 is the new premium moisture analyzer from Denver Instrument. A first, this analyzer uses the new, revolutionary heat source called the CQR. It guarantees the highest reproducibility and the fastest results.



The IR-120 has a motorized sample chamber cover that substantially reduces the effects of the surrounding environment when applying a sample and starting a measurement.

A highly accurate weighing system featuring 1-mg resolution up to a sample weight of 120 g, a readout accuracy of 0.01%, 100 program memory locations and easy operator guidance by symbols – these are the features you can expect in a premium product and will find in the IR-120.

This analyzer has a built-in printer that makes it exceptionally easy to generate GLP-/GMP-compliant printouts.

Simple operation using the 5 language menu and the extensive, integrated software provided give the user a high level of flexibility. The IR-120 is easy to clean thanks to its practical design and removable sample chamber base plate.

For the first time, Denver Instrument uses a newly developed CQR (Coiled Quartz Radiator) heater in the analyzer, a new generation quartz glass heater featuring novel technology that combines all the advantages of available heat sources, while eliminating their disadvantages. The CQR heating element offers the speed similar to that of all known heat sources, yet distributes heat rays much more evenly over the sample surface.

## Performance Specifications of the IR-120

Weighing capacity	120 g
Accuracy of the weighing system	1 mg
Readability	0.01 %
Reproducibility	Initial sample weight $\geq$ 1 g (%) +/- 0.10 Initial sample weight $\geq$ 5 g (%) +/- 0.02
Temperature settings adjustable in 1-degree steps	30–210 °C
Standby temperature	40–100 °C
Heat source	CQR quartz glass radiator
Program memory locations	100
Sample pan	90 mm
Analysis modes	Fully automatic Semi-automatic g/sec. Semi-automatic %/sec. Time-out 3 x 1 – 99 Time-out + Automatic
Serial port for data output to printer or computer	RS232

# Standard

The IR 60 sets new standards in the compact category of moisture analyzers. High sample weighing capacity, easier-than-ever operation, space-saving design and a new, revolutionary heat source make the IR-60 an unbeatable analyzer in its class.

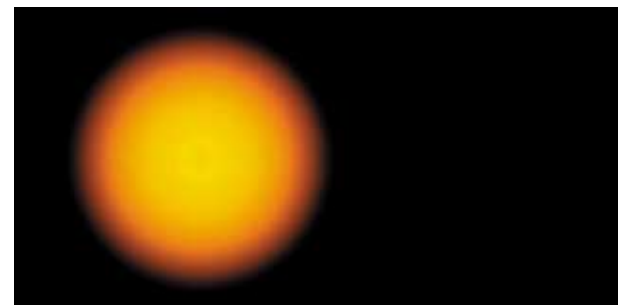


Just like its smaller “cousin,” the IR-30, we placed a premium on creating a space-saving design. At the same time, we decisively expanded the performance range of the IR-60. We extended its temperature range to 210°C. The maximum initial sample weighing capacity of 60 g and intuitive operator guidance make the IR-60 unique in its performance class. Guided by symbols, the user can navigate effortlessly through the menu and easily select the settings that are optimal for his or her specific needs.

The IR-60 is a further example of the incredibly simple operating design engineered by Denver Instrument.

## Performance Specifications of the IR-60

Weighing capacity	60 g
Accuracy of the weighing system	1 mg
Readability	0.01 %
Reproducibility	Initial sample weight $\geq 1$ g (%) +/- 0.20 Initial sample weight $\geq 5$ g (%) +/- 0.05
Temperature settings adjustable in 1-degree steps	30–210 °C
Standby temperature	40–100 °C
Heat source	CQR quartz heater
Program memory locations	5
Sample pan	90 mm
Analysis modes	Fully automatic Semi-automatic 0–20 mg/24 sec. Time-out 0 – 99
Serial port for data output to printer or computer	RS232



The customer benefits of this design are clear: faster response times with higher reproducibility of the results provided by the new CQR heat source, along with fast and even distribution of heat on the surface of a sample.

# Basic

The all-around analyzer for moisture analysis of organic and inorganic substances. Whether you need to determine the moisture content of water, alcohol, fat, grease or oil in foods, building materials, wood or paper – this analyzer can be universally used in the chemical, pharmaceutical, environmental analysis and sewage treatment industries.



With the IR-30, moisture analysis is quick, reliably and fully automatic – and the analyzer features total ease of operation. It delivers absolute reproducibility with high milligram accuracy. The results can be printed out by the optional printer, and are displayed in a choice of % moisture, % solid (dry weight), % moisture/dry weight ratio or in change of weight.

The rugged and space-saving design of the IR-30 makes it versatile for use in many applications.

## Performance Specifications of the IR-30

Accuracy of the weighing system	1 mg
Reproducibility	Initial sample weight $\geq 1$ g (%) +/- 0.20
	Initial sample weight $\geq 5$ g (%) +/- 0.05
Readability	0.01 %
Weighing capacity	30 g max.
Time-out	0.1 – 99 min
Temperature settings adjustable in 5-degree steps	40 – 160 °C
Serial port for output to printer or computer	RS232C
Housing (W x D x H)	270 x 283 x 165 mm

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