

# RDC-204

## Name FURNACE FOR WATER CONTENT COKE

Material type  
**GRANULAR  
PITCH  
ELECTRODES  
LINING**

Utilization  
**R&D  
IN-PLANT  
LAB**

General description  
Due to the cutting operation when removing the material from the delayed coker drums, green cokes usually show a high water content. This excess water would be removed during the calcination step, which would increase the fuel consumption or reduce the calcination degree of the coke. Depending on the storage and shipment conditions, calcined cokes could also potentially contain some moisture. In addition, from a commercial point of view, the presence of water in the green or calcined coke would mean buying water at a very high price. Last but not least, any moisture must be removed before performing any material analysis.

For this purpose, the water content in granular carbon can be measured and moisture can be removed by using the RDC-204 apparatus. A given quantity of granular carbon sample is weighted and heated in a furnace at a specific temperature for a given period of time. The weight loss is measured and expressed as a percentage of the initial sample weight for the calculation of the water content.

Technical information	Standard Method:	ISO 11412
	Property:	
	Water Content	[%]
	Sample:	Max. 5 kg of granular carbon
	Installation:	Workbench
	Process Time:	~ 14 hours
	Dimensions (LxWxH):	57 x 64 x 82 cm
	Weight:	55 kg
	Electrical Property:	230 V 1/N/PE, 50 Hz 3 kW, 13 A
	Database Connection:	No

### Additional Recommended Equipment:

Weighing scale with an accuracy of 0.1 g

