

Micro Carbon Residue Tester *acr-100m*



NEW

- LCD Touch Screen
- Connectable to Electronic Balance
- Equipped with Printing Function
- Interlock Safety Function

Features

NEW!

Interlock

Cannot be started unless the lid is in place.



NEW!

N₂ Gas Flow

Both the flow meter and the digital pressure display are available on the front panel for easy verification.



NEW!

LCD Touch Screen

For simple and easy operation.

Main Screen

Mode1	REM	12 h 12 m
STEP 12		
TEMP	12 °C	Sample Input
START	Sample Set	RET

Test Result

#01	ABCDEFGHIJKLMN	17/09/25 13:49
m1	123.4567 g	Cal.
m2	123.4567 g	Print
m3	123.4567 g	Import
CR	123.45 %	Export
		TEMP
		RET

I/O Check

I/O Check		Invalid	RET
S.Valv	150mL/min	Buzzer	Enabl
Heater	OFF	Pressure Switch	Enabl
Heater SV	500 °C	Photoelectric Sensor	Enabl
Buzzer	Start End Alarm		

NEW!

Connects to an Electronic Balance and Automatically Calculates the Result

This unit can automatically calculate carbon residue by inputting the weights of the glass vial before and after testing. Furthermore, sample weight can be input with just one touch when using an electronic balance connected with appropriate serial cable.



1

Connect an electronic balance with serial communication capability

2

Set sample vial on the electronic balance

3

Weight values can be imported and test results are calculated automatically

Introduction Video On YouTube



※The electronic balance in the photo is an example only.

※Please note that required connection cables vary by model of the electronic balance and communication specifications.

※The serial cable receptacle of acr-100m is a 9-pin male plug.

Specification



Product Name	Micro Carbon Residue Tester acr-100m
Test Methods	ASTM D4530, ISO 10370, JIS K2270-2 etc.
Furnace Temperature Range	Ambient ~ 500 °C
Test Sequence	<ul style="list-style-type: none"> Performs the heating sequence specified by standards Test parameters can be customized for each mode
Display	3.8 inch touchscreen color LCD display
Process Control	Programmable logic controller
Thermocouple	JIS J-type Class 1
Heating/Cooling	Heating: Pipe heater Cooling: Fan
Nitrogen Gas Switching	Automatic flow rate switching: 150 mL/min, 600 mL/min
Safety Function	Heater output is turned OFF in the following cases <ul style="list-style-type: none"> Nitrogen gas pressure drops during the test Lid is lifted during the test Abnormal temperature inside the unit during the test Furnace temperature becomes 550 °C or higher Temperature warning function <ul style="list-style-type: none"> Test Start: 100 °C or below Sample Set: 200 °C or below Lid Removal: 250 °C or below
Data Storage	6 tests
External Output	SD card x 1 / Ethernet x 1 / Serial port (D-sub 9-pin male) x 1
Power Supply	AC 100 V to 120 V 1500 VA 50/60 Hz AC 200 V to 240 V 1500 VA 50/60 Hz
Dimensions	W 390 mm x D 480 mm x H 480 mm
Weight	25 kg
Minimum Footprint	W 400 mm x D 580 mm x H 700 mm

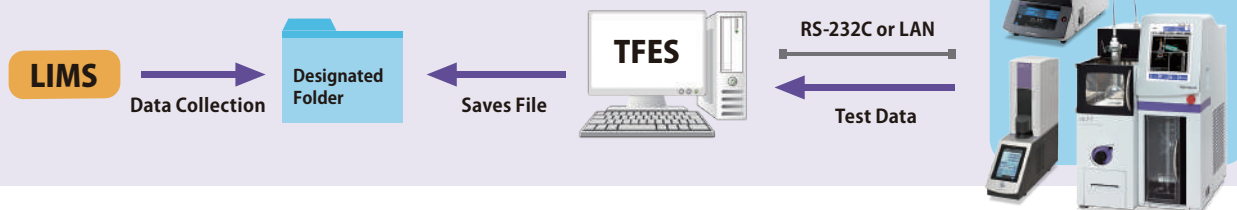
TANAKA reserves the right of changes without prior notice.

Data File Export System (TFES)

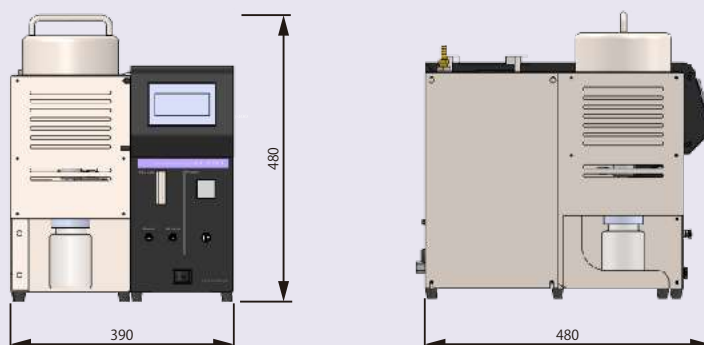
Tanaka File Export System (TFES) is a PC software that collects test data from Tanaka instruments and saves it to a designated folder as a text or CSV file.

If a LIMS or other data management systems are set up to collect the data from the folder, the data can be incorporated into LIMS.

*Tanaka does not support set up of LIMS.



Dimensions



Standard Accessories

Part Number	Part Name	QTY	Remark
1000076	Small Vials (100/box)	1	
1000075	Large Vials (50/box)	1	
1001074	Condensate Trap (vinyl laminated)	1	
1007439	Holder for Small and Medium Vials	1	Small: 6 vials Medium: 6 vials
1007438	Holder for Large Vials	1	Large: 6 vials
1007443	Oven Seal Lid Assembly	1	
	Anti-tip Leg	1	
1005398	Braided Hose for Nitrogen Gas $\phi 8 \times 3m$	1	
1000360	Wire Band $\phi 16$	2	Necessary quantity : 2
1008082	Hose for Exhaust 3m	1	
1008081	Gas Hose Band T-14	1	
1001070	Holder Handle	1	
1006922	AC Power Cord 100/120V 2.0m (L type)	1	
1006930	AC Power Cord 220/240V 2.0m (L type)	1	
	USB Flash Drive	1	Instruction & Maintenance Manual

Optional Accessories

Part Number	Part Name	QTY	Remark
1000075	Large Vials (50/box)	1	
1000076	Small Vials (100/box)	1	
1007440	Holder for Mixed Vials	1	

Suggested Spare for 2 Years

Part Number	Part Name	QTY	Remark
1001069	Packing for Condensate Trap	1	

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