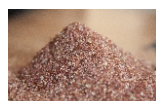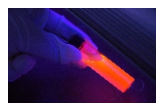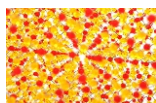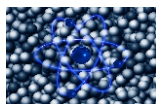# Automated Surface Area & Pore Size Analyzer

全自动比表面积与孔径分析仪

YKPM7120

YKPM7100 Series

Catalyst

New energy

Carbon material

Medical

Ceramics   . . .

Shanghai Yuke Industry Co.,Ltd

YKPM 7100 Series

PM7140 is the conventional standard model of PM7100 series, PM7100 series automated surface area & pore size analyzer is a multi-station fast analysis instrument with an independent 8-station degasser, touch screen programmed temperature control. The instrument provides 1/2/3/4 optional analysis stations with high cost performance, space saving, upgradable, computer-controlled full analysis. A variety of analysis methods and data processing are provided for users to choose different calculation data as requirement.

Instrument Features

· Number of analysis station on the host：1/2/3/4

· The analysis station and degassing station operate independently without interference to each other.

· 8 - station automatic lifting degassing station, each group is temperature controlled independently.

· Independent pressure sensor on each sample analysis station.

· An independent 1000 torr pressure sensor to test P_0 values in real time on P_0 station.

· Sensitive temperature compensation mode optimizes dead volume data.

· Available gas: nitrogen, argon, methane, carbon dioxide, hydrogen, etc

· The pressure point P/P0 can be set arbitrarily, and the adsorption amount of any point can be provided.

· Data can be uploaded to computer via cable, WiFi and Bluetooth.

· When the instrument encounters power failure or liquid nitrogen evaporates, the data tested will be automatically saved

· One set of software can control multiple hosts, and the difference among the instrument stations is < 1%

The Magnetic protection door reduces the evaporation rate of liquid nitrogen and icing.
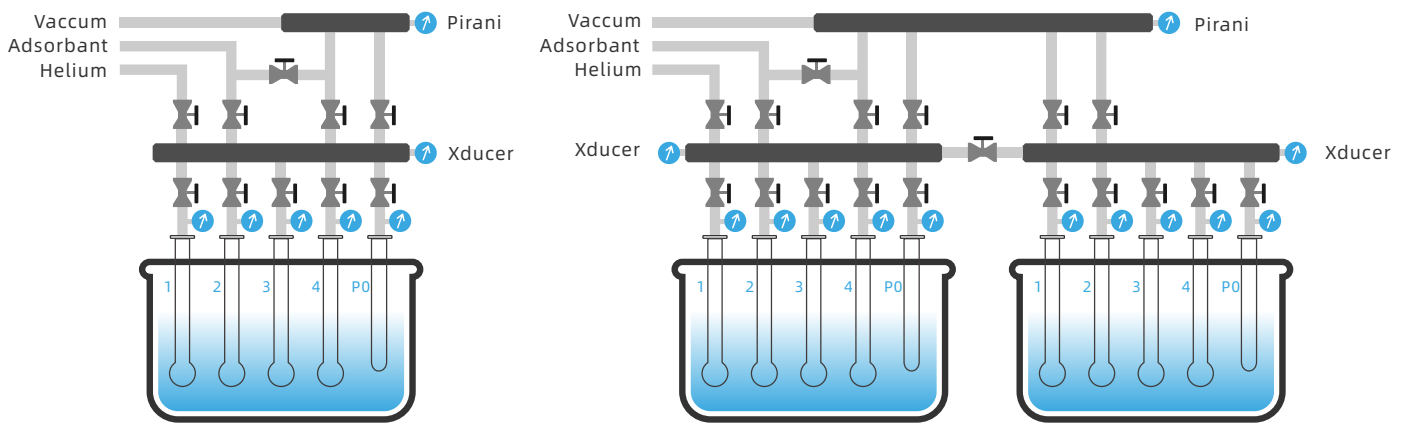
Model Selection

Model	Analysis stations	Degassing stations	P_0 Station	Surface area range	Pore size range	Min pore volume	Low pressure BET
YKPM7110	1	8	1	0.0001㎡/g-no cap	0.35nm-500nm	0.0001cc/g	√
YKPM7120	2	8	1	0.0001㎡/g-no cap	0.35nm-500nm	0.0001cc/g	√
YKPM7130	3	8	1	0.0001㎡/g-no cap	0.35nm-500nm	0.0001cc/g	√
YKPM7140	4	8	1	0.0001㎡/g-no cap	0.35nm-500nm	0.0001cc/g	√

Software and data report

- 3 levels of software management: operator, administrator, after-sales engineer
- The software can remotely colect the real-time testing data of the instrument for checking at any time.
- Simplified operation mode: Only click and fill up in once to start the experiment.
- The tested data is listed in the software for easy checking.
- The statistical function is convenient for users to compare internal data.

序号	样品编号	测试时间	样品站	样品重量	总孔体积(ml/g)	BET(㎡/g)	压力点	分析条件	微孔面积(㎡/g)	外表面积(㎡/g)	微孔体积	平均孔径(nm)
1020	CF-22-34	2022-07-01 08:50	#4	0.6562	0.0272	23.5546	49/49	Zeolite	DB:15.5976	7.9570	0.0069	4.6179
1019	CF-22-33	2022-07-01 08:50	#3	0.6358	0.0120	1.6079	49/49	Zeolite	DB:1.6079		0.0011	29.7294
1018	CF-22-32	2022-07-01 08:50	#2	0.6422	0.0188	6.9782	49/49	Zeolite	DB:6.0909	0.8873	0.0026	10.8046
1017	CF-22-28	2022-07-01 08:50	#1	0.6400	0.0183	1.6890	49/49	Zeolite	DB:1.6890		0.0011	43.4024
999	220427-1	2022-06-28 08:48	#4	0.0266	1.2613	1164.6298	49/49	Zeolite	DB:910.1288	254.5010	0.3978	4.3322
998	220530-2	2022-06-28 08:48	#3	0.0278	1.8038	1020.3076	49/49	Zeolite	DB:286.4016	733.9060	0.2092	7.0717
997	220516-3	2022-06-28 08:48	#2	0.0332	0.7634	941.7092	49/49	Zeolite	DB:855.4179	86.2913	0.3840	3.2425
996	220516-2	2022-06-28 08:48	#1	0.0191	1.4601	1143.6851	49/49	Zeolite	DB:930.8542	212.8309	0.3748	5.1067
1794	20220411-2-2	2022-04-21 17:15	#2	0.3892	0.3571	932.9129	49/49	Zeolite	DB:917.8288	15.0841	0.3231	1.5310
1793	20220217-L	2022-04-21 17:15	#1	0.3842	0.3472	889.5293	49/49	Zeolite	DB:877.7388	11.7905	0.3237	1.5613

Expansion mode of the amalysis station host

Optional degassing stations

LX 7881

- 8-station degassing
- Room temperature -400℃ adjustable
- Temperature accuracy: 0.1℃
- Batch treatments
- Program temperature control
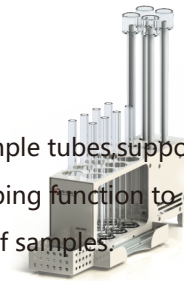- Length, width and height :55cmX45cmX60cm
- Weight: 15kg

GM 7842

- Degassing can be scheduled

Automatic backfill after degassing completion

- Intelligent judgment on degassing is completion
- Two groups, each group is temperature controlled independently, room temperature to -400℃ adjustable
- Temperature accuracy: 0.1℃
- Elevator for automatic lifting
- Length, width and height: 54cmX47cmX94cm
- Weight: 55kg

Optional Accessories

MA7900Series Thermostatic Heat Flow Drying Sample Tube Rack

Thermostatic Heat Flow Drying Sample Tube Rack can simultaneously accommodate 4 sample tubes,supporting var

ious instruments to use glass or quartz sample tubes. It featuresa hot air blowing and sweeping function to quickly d

ry cleaned sample tubes for reuse which is apply for continuous testing of a large number of samples.

MA9001Series Liquid Nitrogen Transfer System

MA9001 series liquid nitrogen transfer system is used for various analytical instruments that require filling liquid nitrogen. Instead of the traditional manual filling liquid nitrogen,it effectively avoids strenuous manual labor and reduces the risk of liquid nitrogen injuries. The li quid nitrogen transfer system can transfer liquid nitrogen or liquid argon from a storage Dewar flask to small containers used in the labor atory under atmospheric pressure. This system is designed for filling Dewar flasks for gas adsorption instruments and also applicable for o ther refrigerations with manual and automatic options .Power lithium battery is built in automatic liquid nitrogen

device without external power cord.