

Spray Dryer

GA32

Water Evaporation
Max.1300 ml/h
Operating Temperature Range
40deg.C to 200deg.C
Liquid Sample Flux
up to 28 ml/min.
Spraying Nozzle
for Liquid and Air

A small sized dryer for laboratory use which produces uniformized fine particles.

The GA32 is a compact spray dryer using a spray dry method which enables simple use for laboratory experiments. It can be used for a wide variety of drying operations, from preliminary examinations for pilot plants to drying operation in general laboratories.

- No danger of damaging foodstuffs, medical products and products that are sensitive to biochemical-heat.
- No oxidation takes place and the water content of the formed powders is low, so that there is no contamination.
- Even a solid body of ca.0.5g can be dried.

Control panel



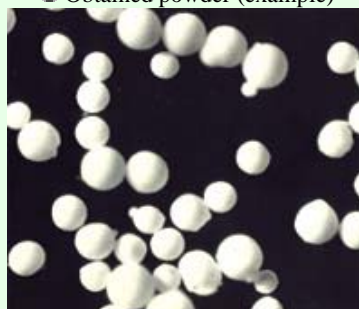
● Inlet temperature, outlet temperature and drying air volume are displayed digitally. Condition setting dials and stage level control switch are located on the front panel for easy use.



● In this Spray Dryer, the sample are dried and transformed into a uniform fine powder of amorphous form, so both its solubility and reactivity are extremely high in comparison to crystal.



● Obtained powder (example)



Easy operation and maintenance



● Inlet temperature, outlet temperature and drying air volume are displayed digitally. Condition setting dials and stage level control switch are located on the front panel for easy use.

● Drying chamber, cyclone, product vessel can be easily detached and cleaned.



Spraying nozzle

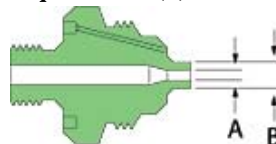
Nozzle size (μm)

Model		1A	1	2A	2	3
Nozzle No.		1650	2050	2050	2850	2850
(F)	A	406	508	508	711	711
	B	1270	1270	1270	1270	1270
Nozzle No.		64	64	70	70	64
(A)	C	1626	1626	1778	1778	1626

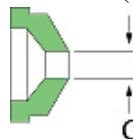
Model 1A : Standard nozzle



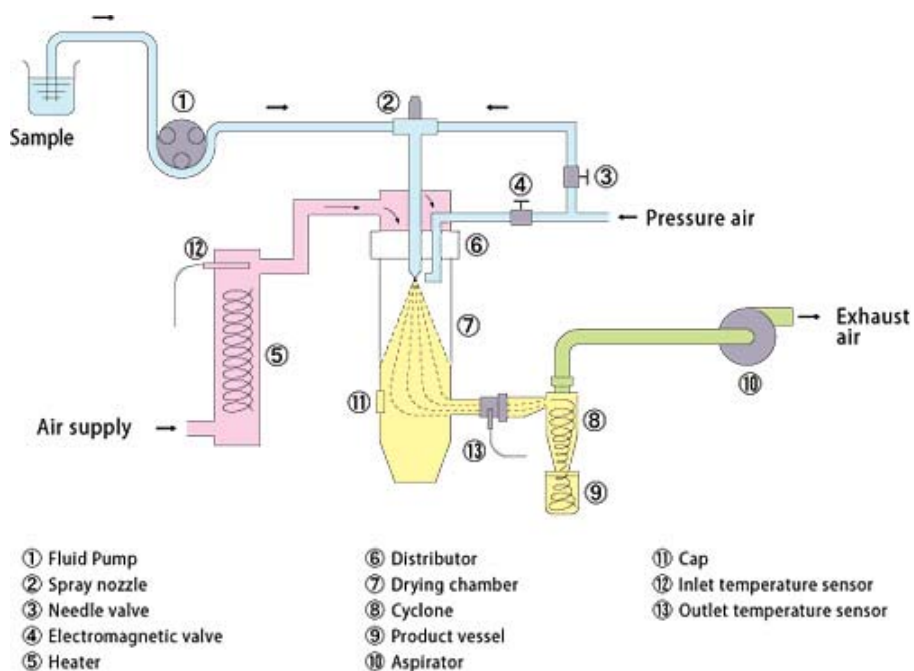
Liquid nozzle (F)



Air nozzle (A)



System diagram



Specifications

GB22 (Basic Unit)	
■ Structure	
Heater	2 kW
Aspirator	Bypass-type blower
Sample liquid feed pump	Quantitative peristaltic pump, flow rate variable up to 28 $\frac{\text{ml}}{\text{min}}$.
Stirring system	Using an induction motor
Compressed air blowing system	Pulse jet system, an electromagnetic valve and electronic timer
Temperature control range	40deg.C to 200deg.C
Temperature control accuracy	± 1 deg.C
Temperature setting and display method	Digital
Dry air flow meter	Digital display
Spray pressure gauge	Bourdon tube pressure gauge, measuring range : 0 to 0.3MPa (0 to 3kg/cm ²)
■ Standard	
Power source (50/60Hz)	AC 200/220V, single phase 14A/12.7A
External dimensions(W×D×Hmm)	760×420×1,345
Weight	Approx. 110kg

GF32 (Pulvis Mini Spray Attachment)	
■ Structure and Standard	
Water evaporation rate	Max. approx. 1,300ml/H
Spray nozzle	Two-liquid nozzle, 1A
Drying chamber	Super-hard glass
Cyclone	Super-hard glass
Product vessel	Super-hard glass
Nozzle orifice cleaning	Pulse jet system (using a compressed air blowing system of Model GB22)
Weight	Approx. 13kg

Dimensions (Unit:mm)

