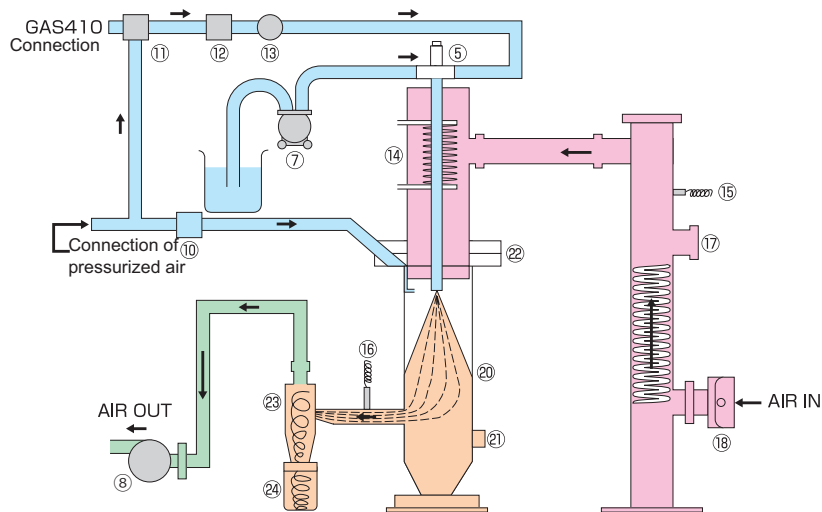


Diagram



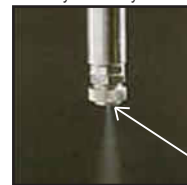
No.	Part name	No.	Part name
(1)	Heater	(16)	Outlet temperature sensor
(5)	Spray nozzle	(17)	Blind
(7)	Liquid sending pump	(18)	Suction port, suction filter
(8)	Blower, exhaust filter	(19)	Nozzle cooling connection port
(10)	Solenoid valve	(20)	Drying chamber
(11)	3-way solenoid valve	(21)	Cap
(12)	Needle valve	(22)	Distributor
(13)	Pressure meter	(23)	Cyclone
(14)	Nozzle cooling port	(24)	Product collecting container
(15)	Inlet temperature sensor		

Spraying Nozzle



The tip of the nozzle comprises of a nozzle for liquid and a nozzle for gas.

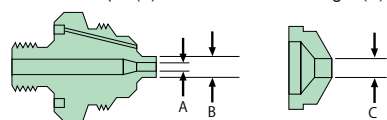
Two-way nozzle system



Easy to take apart for cleaning to prevent contamination

Nozzle for liquid(F)

Nozzle for gas(A)



Model	Nozzle No.	Size (µm)	Particle size
1A (Standard)	(F)1650	A 406 B 1270	1~40µm
	(A)64	C 1626	
1	(F)2050	A 508 B 1270	5~40µm
	(A)64	C 1626	
2A	(F)2050	A 508 B 1270	5~50µm
	(A)70	C 1778	
2	(F)2850	A 711 B 1270	10~40µm
	(A)70	C 1778	
3	(F)2850	A 711 B 1270	10~50µm
	(A)64	C 1626	

Particle sizes may vary on samples used and parameter settings.

Applications



- Food and medicinal products: Powdered milk, egg yolks, soy sauce, coffee, starches, proteins, hormones, serums, antibiotics, enzymes, fragrant materials, essences, etc.
- Organic chemistry: Waxes, dyes, cleaning agents, surface acting agents, agricultural chemicals, antiseptic agents, synthesized resins, pigments, etc.
- Inorganic chemistry: Ferrites, ceramics, photocopy toners, magnetic tape materials, photosensitive materials, various industrial chemicals, waste fluid of samples, etc.

Optional items

Product name	Product code
Fine grain sample collecting cyclone	212780
Safety cover	212784
Static removal brush set	212788
Air filter + Mist separator + Regulator set	212789
Supply air filter box (for 0.3 µm collection)	212791

Handling



The one touch removal system has made the removal and cleaning of the drying chamber, the cyclone, and the product container much easier.



Solvent Recovery Unit GAS410

Repeatability of spray drying test

Test No.	Sample name	Sample density (%)	Drying conditions				Test sample amount (g)	Sent amount of sample liquid (g/min)	Test time (min)	Yield (g)	Recovery rate (%)
			Inlet temp. (°C)	Outlet temp. (°C)	Dry air amount (m ³ /min)	Spray air pressure kPa(kg/cm ²)					
1	Coffee solution	5	150	80	0.45	147(1.5)	198	6.6	30	8.1	81.8
2	Coffee solution	5	150	80	0.45	147(1.5)	198.7	6.6	30	8.1	81.5
3	Coffee solution	5	150	80	0.45	147(1.5)	200.6	6.7	30	8	79.8
4	Coffee solution	5	150	80	0.45	147(1.5)	198.1	6.6	30	8.2	82.8
5	Coffee solution	5	150	80	0.45	147(1.5)	199.3	6.6	30	8.4	84.3