Spray Dryer



ADL312SC



The new intelligent spray dryer with rich functions and easy operation.

Features

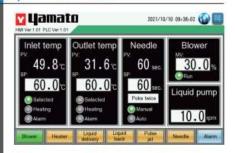
- Instantaneous heating of the microparticle sample ensures that even heat-stable samples are not oxidized and that a uniform fine powder is obtained.
- The sprayed micro-powders are low in moisture, non-oxidizing and non-contaminating.
- The product is dried directly from the solution or suspension sample into a fine powder without the pre-treatment and post-treatment operations of filtration, separation, and grinding associated with conventional drying methods, and eliminates the contamination problems caused by these operations.
- It can be connected to the GAS411C organic solvent recovery unit to handle organic solvents.
- The drying chamber, cyclone, etc. are of quickassembly construction, further enhancing operability.
- A lifting platform is provided as standard for attaching and detaching accessories.
- The machine is equipped with an outlet for stirrer power (2A) to facilitate stirring of suspensions while feeding samples.
- The unique peristaltic feed pump, nozzle cooling mechanism, pulsed nozzle cleaning mechanism, and anti-clogging stabbing needle provide a wide variety of spray conditions and stability.

Specifications

Model	ADL312SC Water soluble & organic solvents (when GAS411C is connected)
Corresponding sample	
Water evaporation	Max.1,500mL/h
Temperature adjustment range	40~240°C (Inlet temp.), 0~100°C (Outlet temp.)
Temperature accuracy	±1°C
Adjusting range for drying air	0~1.0m³/min
Spray air flow adjustment range	0~30L/min
Nozzle air pressure adjustment range	0~0.6MPa (Adjustable)

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N	ozzle washing function	Auto clean out needle, pulse jet cleaning
Te	emperature output	Inlet temp., Outlet temp. (4~20mA)
Te	emperature control	Multi-stage PID control
To	ouch screen	PID digital temperature adjusting device
To	ouch panel	Temperature adjustment, blower, heater, liquid feed pump, switch for pulse jet, automatic needle poking, alarm display operation
C	ontrol select switch	Select inlet temperature, outlet temperature control switching
Te	emperature sensor	PT100
He	eater	3.2KW
Sa	ample feed pump	One touch pedestal type
Sį	praying from Nozzle	Use air compressor for spraying (sold separately) or use GAS411C built-in compressor (N2) when connected to organic solvent recovery device GAS411C (sold separately
Se	ervice outlet	For stiller etc. : AC220V, 2A
BI	ower	Tube blowers (Can be switched to suction or push-out)
Fi	lter	Suction filter, exhaust filter
S	olvent recovery	Use of solvent recovery unit GAS411C (sold separately)
S	pray nozzle cooling structure	Fitting×2, outer diameter φ10.5mm (optional cooling water circulation device CF312L-B)
Ai	r connection for spraying	Outside diameter of connector, \$\phi7mm\$
S	praying air pressure	0.3MPa
E	khaust connection	Diameter ø50mm
Safety function		Inlet and outlet temperature overheating, pump reversal function, Overcurrent leakage protection switch, Nozzle connection abnormality (when connected to GAS411C)
E	kternal dimensions	W580×D420×H1,150mm
W	eight eight	80kg
Po	ower supply	AC200~230V 50/60Hz, 16~18A
Accessories		2 fluid supply hoses, 1 exhaust hose (with 1 hose tie), Exhaust adapter, Outlet temperature sensor, Fuse (250V 2A) De-static cable, Inlet hose 5m (with 2 hose ties), Nozzle adapter bushing, Stand assembly, Protective cover (COV20)
Option device		GWS410 (exhaust gas cleaning equipment), External filter, Dehumidification equipment, USB data storage, Various nozzle sizes

Operation Screen



- The new 7" large touch screen control panel is available in Chinese/Japanese/English for easy and convenient operation.
- High power heater greatly improves the temperature arrival time, and the temperature setting range is wider to meet more sample experiments.
- Switchable hot-air intake and push-out hot-air circulation systems.
- Both two-fluid and three-fluid nozzles are available.
- New automatic nozzle with cooling mechanism (optional).
- Remote control is available.
- Experimental data can be recorded and stored. (optional)



0~30L/min

System Diagram Suction method Sway Needle Valve Valve Pressure gauge Spray nozzle Cooling Fluid Pump Pressure Increasing System Drying Cap System Diagram Outlet Sample Pressure Gauge Cooperation Spray nozzle Drying Chamber Include Siter Product Coondamer Method can easy to change

