

Phase Separators

Technifab PS Series Phase Separators

Delivering Liquid Nitrogen at the Pressure and Temperature You Need



Technifab's Phase Separators are used for delivering high quality, lower temperature, saturated, pure liquid nitrogen.

We offer three phase separator models the PS-22, PS-42, and the PS-67.

- The PS-22 and PS-42 are used in lower cryogenic flow situations and when an overhead mounting solution is required. It features a compact size, vertical and horizontal outlet configurations, and a gravity feed/naturally aspirated version.
- The PS-67 provides higher flow rates and can be used when floor or tank pad mounting is desirable.

All three models utilize Programmable Logic Controllers (PLCs) for ease of use and better liquid control than competitors.

Features

With a liquid level probe and Programmable Logic Controller (PLC), the PS series of liquid nitrogen phase separators provides you with:

- Consistent liquid nitrogen delivery, dramatically improving process control and efficiency.
- Delivers up to 30 gallons per minute of liquid nitrogen with our patented design.
- Easily adjustable output pressure.
- Easy to use operator controls that can be mounted on the unit or remotely.
- The ability to use one bulk storage tank for high pressure gas & low pressure liquid delivery.
- A vacuum jacketed vessel which minimizes heat leak into the liquid.
- Both vertical and horizontal tank designs to minimize floor space or for overhead suspension.



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Specifications

All models

Maximum inlet pressure	150 psig (10 bar)
Maximum Outlet Pressure	75 psig (5 bar) ¹
Power Requirements	110-240 VAC, 50-60 Hz
Power Usage	200 watts @ 110VAC nominal 1.7 amp maximum
Control Box Dimensions	11.5" w x 13.5" h x 6" d (29.2 cm x 34.3 cm x 15.2 cm)
Control Box Temperature Range	32°F - 120°F (0°C - 49°C)
Control Box Mounting Distance	250 feet (76 meters) maximum from pressure vessel.
Certifications	Nema 4X, IP65

Model	PS-22	PS-22	PS-42	PS-67
Number of Liquid Outlets	1	2 or 4	6 or 8	1
Maximum Withdrawal Rate ¹	10 gallons/minute (38 liters/minute) total			30 gallons/minute (120 liters/minute)
Vessel Liquid Nitrogen Capacity	5.8 gallons (22 liters)	5.8 gallons (22 liters)	11 gallons (42 liters)	17.6 gallons (67 liters)
Dimensions, Main Vessel (without valves & probe)	46"l x 22"w x 27"h (117cm x 56cm x 86cm)	33"l x 22"w x 34"h (84cm x 56cm x 86cm)	53"l x 22"w x 34"h (135cm x 56cm x 86cm)	99"h x 32"w x 15"d (251cm x 81cm x 38cm)
Assembly Weight (empty)	105 lbs (48 kg)	115 - 135 lbs (52 - 61 kg)	135 - 155 lbs (61 - 70 kg)	270 lbs (122 kg)
Assembly Weight (full)	143 lbs (65 kg)	176 - 196 lbs (80 - 89 kg)	200 - 220 lbs (91 - 100 kg)	490 lbs (222 kg)

¹Dependent upon the system and input pressure. Consult a cryogenic specialist for correct application to your system.

Options include a vent heater (PS-22/PS-42 only) and an external alarm for out of condition notification.

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