

GAS BLENDERS

ACME 1000 SERIES VARIABLE RATIO GAS BLENDER (MINI-BLENDER)

Engineered for on-site blending, the 1000 Series gas blender is designed to mix two non-reactive gas streams and achieve accuracy to within +/- 4% of the minor gas component.

The unit is supplied with a calibrated mixing valve, which will deliver the desired blend ratio at the percentage indicated on the blender front panel. The supply gases are typically furnished in cylinders, dewars, or small bulk tanks. In a typical application of providing shield gas for welding processes, the 1000 Series gas blender can supply between 14 and 50 welding stations.

The unit is designed primarily for indoor applications and its compact size makes it easy to wall or bench mount. One of the main features of this blender is its simplicity of operation. Controls consist of an on-off switch and a mixture ratio selector.



Specifications

Flow Capacity	1000 SCFH (1500 optional)
Inlet Pressure	100-250 PSIG
Outlet Pressure	5-50 PSIG (5-100 optional)
Accuracy / Repeatability	± 4% / ± 2% (60-80° F)
Connections	½" OD tube compression fittings
Surge Vessel Size	5 gallon, carbon steel, ASME coded
Weight	60 lbs
Dimensions	20"W x 32"H x 11"D

Features

- Indoor/Outdoor Construction
- Electric Controls with 115 VAC, 60 Hz, 1.0 Amp Supply
- Direct Reading Mixing Valve
- Tank Filling Indicator
- Lockable Controls
- Wall or Table Mounted
- Simple, Field Proven Design

Optional Equipment

- Low Pressure Shutdown
- Heat Exchanger for Temperature Compensation
- Customized Blender Options
- Completely Pneumatic Control System
- Alternate Gas Combinations
- Fixed Gas Percentage Models
- Extra Long Life Solenoid Valve
- 30 Gallon Vertical Tank (1500 Series)

Ordering Information

See page 3 for ordering matrix.

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ACME 1000 SERIES THREE GAS BLENDER (FIXED RATIO)

Engineered for on-site blending, the Acme 1000 Series gas blender is designed to mix three non-reactive gas streams and achieve accuracy to within +/- 4% of the minor gas component.

The unit is supplied with a calibrated mixing valve, which will deliver the desired blend ratio and the percentage indicated on the blender front panel. The supply gases are typically furnished in cylinders, dewars or small bulk tanks.

The unit is designed for indoor or outdoor applications and its compact size makes it easy to wall or bench mount.

In a typical application of providing shield gas for welding processes, the 1000 Series blender can supply between 14 and 50 welding stations.



Specifications

Flow Capacity	350-1500 SCFH
Inlet Pressure	100-250 PSIG
Outlet Pressure	5-50 PSIG (5-100 PSIG Optional)
Accuracy / Repeatability	± 4% / ± 2% (60-80° F)
Connections	½" OD tube compression fittings
Surge Vessel Size	5 gallon, carbon steel, ASME coded
Weight	60 lbs
Dimensions	20" W x 32" H x 11" D

Features

- Indoor/Outdoor Construction
- Electric Controls with 115 VAC, 60 Hz, 1.0 Amp Supply
- Direct Reading Mixing Valve
- Tank Filling Indicator
- Lockable Controls
- Wall or Table Mounted
- Simple, Field Proven Design

Optional Equipment

- Low Pressure Shutdown
- Heat Exchanger for Temperature Compensation
- Customized Blender Options
- Completely Pneumatic Control System
- Alternate Gas Combinations
- Fixed Gas Percentage Models
- Extra Long Life Solenoid Valve
- 30 Gallon Vertical Tank (1500 Series)

Ordering Information

See page 3 for ordering matrix.

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ACME 1000 SERIES GAS BLENDER ORDERING INFORMATION

Model	Capacity	Type	Gas Mix	Optional Equipment		
261	10 (1000 SCFH)	1 - Electric (2 Gas)	1 - (0-40%) CO ₂ /Ar	0 - Brass / Copper	0 - Standard Solenoid Valve	0 - Wall Mount (Standard)
	15 (1500 SCFH, 30 Gallon Vertical Tank)	2 - Electric (3 Gas)	2 - (0-40%) O ₂ /Ar	1 - Stainless Steel		1 - Bottom Mount (Table Shelf)
		3 - Pneumatic (2 Gas)	3 - (0-10%) He/Ar	2 - UHP	1 - Long Life Solenoid Valve	2 - Inlet Pressure Alarm(s)
		4 - Pneumatic (3 Gas)	4 - (0-50%) CO ₂ /N ₂			3 - Inlet Pressure Shutdown(s)
			5 - (0-50%) N ₂ /CO ₂			4 - Outlet Pressure Alarm
			6 - (0-15%) H ₂ /N ₂			5 - Outlet Pressure Shutdown
			7 - (0-10%) O ₂ /Ar			6 - Inlet Heat Exchanger(s)
			8 - (0-15%) H ₂ /Ar			7 - Inlet, Outlet and Vent Valves
			9 - (0-50%) H ₂ /Ar			8 - 80 PSIG Outlet Pressure
			10 - 90% Ar / 8% CO ₂ 2% O ₂			9 - 100 PSIG Outlet Pressure
			11 - (0-50%) H ₂ /N ₂			
			12 - (0-10%) CO ₂ /Ar			
			13 - (0-25%) CO ₂ /Ar		Ordering Example 261-1013-004= 1000 Series Gas Blender, 1000 SCFH, Electric, 2-Gas Model for a Mixture of Helium and Argon, featuring Brass/Copper Construction, Standard Solenoid Valve and Outlet Pressure Alarm	
			14 - (0-5%) H ₂ /N ₂			
			15 - 5% CO ₂ 95% Ar			

Note: Other configurations and gas services available. Consult Acme for details. Customer must indicate fixed or variable ratio models (as applicable) upon ordering.