

# Jun-Air Oilless Air Compressor Model 600-25MD

## Product Specification



897-0029

- Oilless, dry, clean – no potential source of contamination
- Quiet and vibrationless
- CE, UL, and IEC listed

The Jun-Air Model 600-25MD compressor is quiet and reliable. Highly efficient cooling enables you to run the compressor continuously. This unit is ideal for use with zero air generators available from Supelco.

The Model 600-25MD compressor is equipped with a desiccant dryer, ensuring clean, dry, bacteria-free air. Condensate from the dryer and the prefilter is drained into a drain bottle mounted on the inside or the outside of the cabinet.

### Site Preparation

Place the compressor in a dust-free, dry, and cool but frost-free room. Do not install in an enclosed area (e.g., a closed cupboard). If the compressor is placed under a table, a minimum of 20cm in free height must be available above the unit, or an opening should be cut in the table to correspond to the fan opening at the upper part of the compressor cabinet or above the cylinder head of the compressor. The dryer requires a minimum operating pressure of 4 bar.

### Operating and Control Equipment



897-0029

- A. Tank pressure gauge
- B. Regulator pressure gauge
- C. Regulator on/off light
- D. Fan on/off light
- E. Compressor on/off light
- F. Main switch
- G. Power meter

### Specifications

Flow	
4 bar:	42 liters/min
Maximum Pressure:	120psi (8 bar)
Motor:	0.66 HP, 0.50 kW
Noise:	48 dB at 90psi (6 bar)
Power Consumption	
At 115V/60Hz:	17.0A
At 220V/50Hz:	8.0A
Tank:	24.5 liters <sup>▲</sup>
	rust-preventing inner coating
Dimensions (L x W x H):	30.9 x 17.3 x 22.5" (78.5 x 45 x 57cm)
Weight:	191lb. (86.5kg)
Electrical Requirements:	115VAC/60Hz 220VAC/50Hz 380VAC/50Hz
Output Air Quality:	Removes dust particles >0.01µm diameter Removes >99.9999% oil mist Dewpoint: -40°C
Flow Rate:	115VAC: 72L/min 220VAC: 60L/min

Note: The dryer requires a minimum operating pressure of 4 bar.

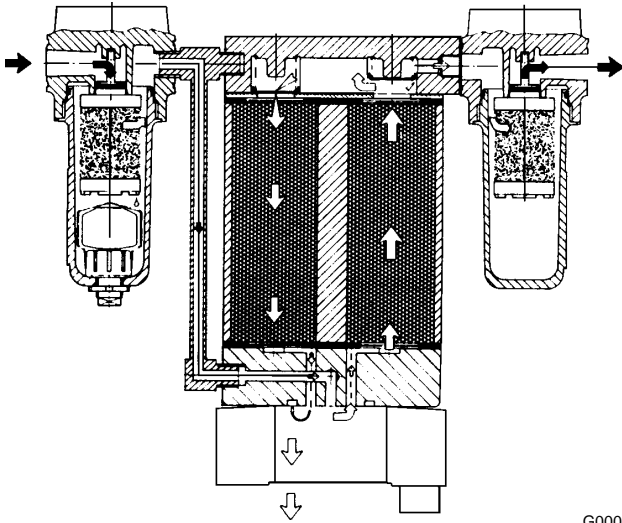
<sup>▲</sup>Tanks are available in various sizes. Please inquire.

## Operation

The Jun-Air oilless compressor has very few maintenance requirements. Following the simple instructions for installation and maintenance yields many years of trouble-free service and reliable, high-quality delivery of compressed air.

## Dryer Operation

The compressed air from the Jun-Air compressor passes through a 3.5-meter (137.8 inch) copper cooling pipe, then through a filter with 0.01 micron porosity, which retains all liquid water particles. The filter is equipped with an automatic filter drain that purges when a float is activated. The filtered air enters the adsorption dryer, which consists of two desiccant columns each containing 0.3kg (0.66 lb.) of molecular sieve. The compressed air is directed upward through the bed of one column, and the remaining water vapor is adsorbed. Simultaneously, a small amount of dried air flows down through the second column and to the exhaust, desorbing moisture and thus regenerating the desiccant. While the compressor is running, a cam timer activates every 2.0 minutes, reversing the functions in each desiccant column and thereby ensuring a continuous supply of dry air.



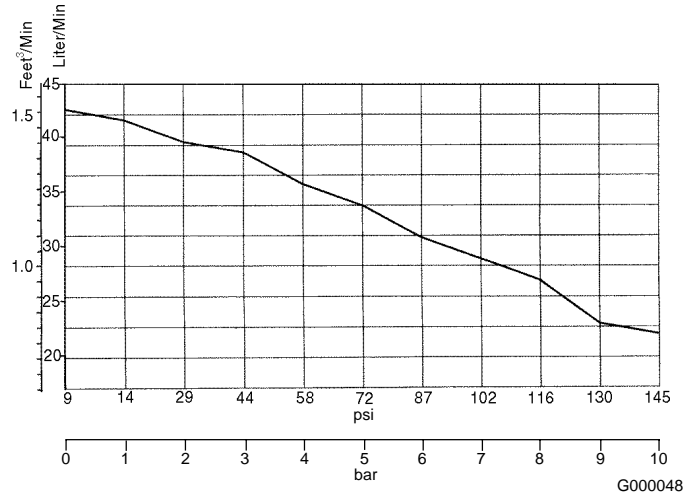
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The relative humidity of the air leaving the dryer is less than 1%, corresponding to a dewpoint below  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ); the compressed air must be cooled to that temperature before any condensation whatsoever can take place.

The dry air passes through another 0.01 micron filter which retains any desiccant particles that might have been carried from the dryer. The now completely clean and dry air is fed into the air receiver, where a rust-preventing internal coating ensures this quality is maintained.

For more information on installing and using gas generators, request free technical bulletin 898.

## Output of Model 600-25MD Generator at 0-145psi\*



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\* Model 600-25MD with dryer, 110VAC/60Hz.

## Ordering Information:

Description	Cat. No.
<b>Jun-Air Air Compressor Model 600-25MD<sup>■</sup></b>	
115VAC*	503762
220VAC*	503770
<b>Replacement Inlet Filter**</b>	<b>503797</b>

\*Two-week delivery.

\*\*Compressor requires two filters.

■CE approved.

Contact our Technical Service Department  
(phone 800-359-3041 or 814-359-3041, Fax 800-359-3044 or  
814-359-5468) for expert answers to your questions.

For more information, or current prices, contact your nearest Supelco subsidiary listed below. To obtain further contact information, visit our website ([www.sigma-aldrich.com](http://www.sigma-aldrich.com)), see the Supelco catalog, or contact Supelco, Bellefonte, PA 16823-0048 USA.

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