

PSA Oxygen Generator **Regalia**



Regalia™ 10 LPM oxygen concentrators offer the simplicity of the Advanced Technology Fractionator® (ATF) oxygen module in a system that is quiet, lightweight, and easily transportable, making it a perfect fit in applications in which the concentrator may be next to the consumer or user. Regalia concentrators are ideal for applications that do not require a prescription, but can benefit from the sound reduction of plastic housing, the convenience of a handle and casters, the unique elegance of the EZ interface, and the reliability of the ATF technology.

With the EZ interface, simply set the desired flow and the oxygen concentrator will make the necessary adjustments to meet that flow. If the unit is turned off, it returns to the most recent setting when the unit is next turned on. If a downstream flow constriction like a flowmeter or torch valve constricts the flow, it is no problem for the Regalia. When the constriction is removed, the Regalia returns to the target flow.

Features

- Maintenance-free ATF oxygen module
- Valve purge noise eliminated for quiet operation
- Easy-to-read backlit flow display
- Simple keypad controls: On/off and O₂ increase/decrease arrows
- Oxygen concentration monitor (with 3-light display)
- Locking casters

Typical Applications

Glass Industry

- Glass Work/Blowing

Medical

- Ozone Therapy
- Health Spas and Clubs

Additional

- Veterinary
- Hyperbaric
- Cosmetic

Specifications

Regalia

Product Characteristics	
Product Flow ¹	Variable 1 to 10 LPM (½ liter increments)
Product Pressure (nominal)	7 psig (48 kPa)
Product Concentration (nominal)	90-95%
Product Dew Point	-100°F (-73°C)
Dimensions (W x D x H) (nominal)	15 x 19 x 26 in (38 x 48 x 66 cm)
Weight	57 lb (26 kg)
Physical Connections	
Product Gas Outlet	DISS fitting
Ambient Operating Conditions	Locate the oxygen concentrator system in a well-ventilated area that is protected from weather elements and remains between 40°F (4°C) and 130°F (54°C) inside room or operating enclosure; 0°F (-18°C) and 140°F (60°C) in storage
Power Requirements (Single Phase)	120 V ~ ±10%, 60 Hz, A or 220 V ~ ±10%, 50/60 Hz, A
Typical Power Consumption	Approximately 600 W
Alarms	Power failure; O ₂ concentration (optional)



¹ LPM (Liters per minute) gas measured at 1 atmosphere and 21°C / SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F

The ATF Advantage

ATF oxygen modules incorporate proven pressure swing adsorption (PSA) principles into a unique patented design, which allows these systems to be compact, efficient, rugged, and lower in cost. The ATF module offers unparalleled design flexibility and enables applications where on-site/on-board oxygen generation was previously impractical.

A patented single rotary distribution valve built into the ATF module is continuously rotated at low speed by a small motor. The valve is maintenance free, self-cleaning, insensitive to contamination, and invulnerable to wear. It sequentially directs the flow of compressed air to a group of four sieve beds (adsorption), while at the same time another four beds are purged into the atmosphere through the valve (desorption). The remaining four of the twelve beds are interconnected through the valve to equalize pressure as the sieve beds sequentially transition between adsorption and desorption. The small amplitude pressure swings generated by the ATF's twelve sieve beds eliminate loud noise pulses, eliminate the need for a pressure regulator, and reduce compressor wear.



Ordering Information

Model	Part Number	Description
Regalia	5161	With oxygen concentration monitor (LED indicator) 120 V ~ ±10%, 60 Hz
	5162	120 V ~ ±10%, 60 Hz
	5163	With oxygen concentration monitor (LED indicator) 220 V ~ ±10%, 50/60 Hz
	5164	220 V ~ ±10%, 50/60 Hz
Shipping Information		Regalia
Class		92.5
Commodity Classification Number		8421.39.8040
Dimensions (W x D x H)		24 x 20 x 30 in (61 x 51 x 76 cm)
Gross Weight		67 lb (30 kg)

Warranty: 1 Year Parts and Factory Labor*

* An unprotected or inadequately ventilated environment, or improper control power may cause damage to the oxygen generator not covered under warranty.

All performance ratings based on an ambient temperature up to 100°F (38°C), up to 1,000 feet elevation, and 80% relative humidity.

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AIRSEP®

A Chart Industries Company

260 Creekside Drive

Buffalo, NY 14228-2075 U.S.A.

Tel: 800-482-2473 • (770) 721-7759 • Fax: (770) 721-7758

www.airsep.com • customerservice.usa@chartindustries.com

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