

AG OFCAS Scroll iQ

Direct drive Scroll compressor with integrated dryer

A scroll compressor uses two interleaving scrolls to compress air. Devices using this technology are known for operating more smoothly, quietly, and reliably than conventional piston compressors. Unlike pistons, the orbiting scroll's mass can be perfectly counterbalanced, with simple masses, to minimize vibration. The scroll's gas processes are also more stable and continuous. Additionally, a lack of volume gives an increased volumetric efficiency.

These Compressors can provide up to 200 l/min of compressed air at a pressure of 10bar (145psi).

The units equipped with Dryer can reach a Dew-point value $< -20^{\circ}\text{C}$ ($< -4^{\circ}\text{F}$). This module, installed internally, avoid the installation of supplementary external fridge module that requires specifically trained personnel.

The electronic controls and inverter technologies to control the motor make higher efficiency and reliability of the product. The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

The AirGen OFCAS Scroll iQ is the ideal compressor to supply the Nitrogen generators series NG CASTORE (membrane) and NG POLLUCE (PSA) for LC/MS applications.



Intelligent Quiet Technology



Main Applications

- Chemical and pharmaceutical industry
- Medical laboratories
- Food factory
- Laser equipments

Main advantages

- ✓ Parallel connection available
- ✓ Exclusive energy-saving algorithm
- ✓ Operation mode with:
 - PID pressure control
 - ON/OFF with power control
 - ON/OFF with normal logic
- ✓ Ultra silent technology: $< 50 \text{ dB(A)}$
- ✓ Oil less- low maintenance
- ✓ Reliable - No vibration
- ✓ Dew-point $< -20^{\circ}\text{C}$ ($< -4^{\circ}\text{F}$) (*not in BASIC models*)



Specifications



Model: AG OFCAS iQ	220 8	220 8 BASIC	200 10	200 10 BASIC	200 8	200 8 BASIC	180 10	180 10 BASIC
General data								
Dimensions (W x D x H)	59 x 92 x 73 cm							
Net weight	150 kg	140 kg	150 kg	140 kg	160 kg	150 kg	160 kg	150 kg
Noise level ^{*1}	< 50dB		< 52dB		< 48dB		< 50dB	
Heat value (BTU)	7510		8530		6145		6825	
Air outlet								
Free Air Delivery	220 L/min		200 L/min		200 L/min		180 L/min	
Max operating pressure	8bar (116psi)		10bar (145psi)		8bar (116psi)		10bar (145psi)	
Dew Point ^{*2}	<-20°C (<-4°F)	-	<-20°C (<-4°F)	-	<-20°C (<-4°F)	-	<-20°C (<-4°F)	-
Communication								
RS232	Standard							
RS485	Standard							
Digital I/O	Standard							
Electrical data								
Type of connection	IEC C20							
Power supply voltage	230 Vac (±10%) 47..63 Hz				-			
	-				100-250 Vac (±10%) 47..63 Hz			
Nominal power	2.2 kW		2.5 kW		1.8 kW		2.0 kW	
Connections								
Compressed air outlet	1/4" BSPP female fitting							
Condensate drain	1/4" BSPP female fitting							
Operating and storage conditions								
Operating temperature	2-35°C (35.6-95°F)							
Storage temperature	1-45°C (33.8-113°F)							
Humidity (max, non-condensing)	80% at 25°C (77°F)							
IP	IP20							
Altitude	< 1000 m							

¹ Measured at front of unit at a distance of 1 m, in accordance with ISO11201 (tolerance ±3 dB).

² Value intended at atmospheric pressure – Atmospheric Dew Point (ADP)

Ordering codes		
Gas Generators		
6920.47.220	AG OFCAS iQ 220 8	230 Vac only
6920.48.220	AG OFCAS iQ 220 8 BASIC	
6920.47.200	AG OFCAS iQ 200 10	
6920.48.200	AG OFCAS iQ 200 10 BASIC	
6920.47.220.1	AG OFCAS iQ 200 8	100-250 Vac Full range power supply voltage
6920.48.220.1	AG OFCAS iQ 200 8 BASIC	
6920.47.200.1	AG OFCAS iQ 180 10	
6920.48.200.1	AG OFCAS iQ 180 10 BASIC	
Consumable		
3709.04.175	Filter elements for AG OFCAS iQ	