

AG OFCAS Scroll iQ

Direct drive Scroll compressor with integrated dryer



Intelligent Quiet Technology



Scroll Technology: Superior Efficiency and Performance

The scroll compressor utilizes two interleaving scrolls to compress air, ensuring **smoother, quieter, and more reliable** operation compared to traditional piston compressors. Unlike pistons, the orbiting scroll's mass can be **perfectly counterbalanced** with simple weights, minimizing vibration. Additionally, the compression process is **more stable and continuous**, providing **higher volumetric efficiency**. This compressor line delivers up to **870 l/min of compressed air**, at pressures up to **10 bar (145 psi)**. The compressor features an **integrated refrigeration dryer** capable of achieving a **dew point below -20°C (<-4°F)**. This built-in solution eliminates the need for additional modules, simplifying installation. With advanced **electronic controls** and **inverter technology**, the motor ensures **higher efficiency and reliability**. The **touch-screen LCD interface** offers simple and user-friendly management of all unit functions. The **AG OFCAS Scroll iQ** is the ideal compressor for powering nitrogen generators from the **NG CASTORE** (membrane) designed for **LC/MS applications**.

Main Applications

- Chemical and pharmaceutical industries
- Medical laboratories
- Food production facilities
- Laser equipment

Main advantages

- ✓ Parallel connection available
- ✓ **Exclusive energy-saving algorithm**
- ✓ Flexible operating modes:
- ✓ **PID pressure control**
- ✓ **ON/OFF with power control**
- ✓ **ON/OFF with standard logic**
- ✓ **Ultra-quiet technology: < 60 dB(A)**
- ✓ **Oil-free: low maintenance**
- ✓ **Highly reliable: direct drive with no belt**
- ✓ **Integrated refrigeration dryer**



R Evolution
in Gas Generators



Specifications

Model:	AG OFCAS iQ 600.8	AG OFCAS iQ 600.10	AG OFCAS iQ 900.8	AG OFCAS iQ 900.10
General data				
Dimensions (WxDxH)	125 x 82 x 126 cm			
Net weight	330 kg		340 kg	
Noise level ⁽¹⁾	< 60dBA	< 63dBA	< 69dBA	< 72dBA
Heat value (BTU)	18800		25600	
Cooling air required	800 m³/h		1100 m³/h	
Air outlet				
Outlet flow	630 L/min	600 L/min	870 L/min	810 L/min
Max operating pressure	8 bar (116 psi)	10 bar (145 psi)	8 bar (116psi)	10 bar (145 psi)
Air quality	ISO 8573-1:2010 class 2:4:1			
Communication				
RS232	Standard			
RS485	Standard			
Digital I/O	Standard			
Electrical data				
Type of connection	Power cable pre-connected with 32A plug (3m) – IEC 60309-2, 3P+N+E, 6h (400 VAC version)			
Power supply voltage ⁽²⁾	Three-phases 4-wires (+ one ground wire) / Y 400 VAC ±10% 50/60 Hz			
Nominal motor power (shaft)	5.5 kW		7.5 kW	
Connections				
Compressed air outlet	1/2" 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% [5-35°C (41-95°F)]			
IP	IP20			
Altitude ⁽³⁾	< 1000 m			

- (1) Measured at front of unit at a distance of 1 m, in accordance with ISO11201 (tolerance ±3 dB).
 (2) Adding the suffix ".1" to the standard code configures the unit for three-phase 480VAC ±10% supply voltage
 (3) Derating: rated flow rates apply up to 1000 m a.s.l. with a maximum ambient temperature of 35°C.
 For installation above 1000 m or above the declared ambient temperature limit, consult the manufacturer.

Ordering codes	
Gas Generators	
6920.47.600	AG OFCAS iQ 600.8
6920.47.600.1	AG OFCAS iQ 600.8.480
6920.47.900	AG OFCAS iQ 900.8
6920.47.900.1	AG OFCAS iQ 900.8.480
6920.47.601	AG OFCAS iQ 600.10
6920.47.601.1	AG OFCAS iQ 600.10.480
6920.47.901	AG OFCAS iQ 900.10
6920.47.901.1	AG OFCAS iQ 900.10.480
Consumable	
3709.04.190	Filter elements for AG OFCAS iQ 600-900



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