

## ECO-KAT HORIZONTAL COMPRESSOR SYSTEMS



### Features a 5-year System and 10-year Block Warranty

The compressor models shown in this brochure and their electrical controls are registered under CSA and certified accordingly. Changes to any of the electrical controls or components will void the existing CSA certification. A Special Inspection will need to be performed by CSA to certify any custom compressor package. Please consult a Jordair representative for CSA Special Inspection pricing.

Please consult a Jordair representative for a breakdown of all additional costs that may be incurred on a custom compressor.

**Jordair breathing air compressors and filter systems meet or exceed the latest CSA standard CAN/CSA-Z180.1-19**

## 5300 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	FILTRATION SYSTEM & CAPACITY*	WEIGHT	SIZE (IN) H x D x W
ECO-KAT5-151-3E	26.2 SCFM	15.0 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	31" x 28" x 50"
ECO-KAT5-150-3E	33.8 SCFM	15.0 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	31" x 28" x 50"
ECO-KAT5-150-D	33.8 SCFM	18.8 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	31" x 28" x 50"
ECO-KAT5-180-3E	38.5 SCFM	20.0 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	880 LBS	31" x 28" x 50"
ECO-KAT5-180-D	38.5 SCFM	22.0 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	880 LBS	31" x 28" x 50"

All 5300 PSIG systems are supplied with the new Jordair 7300 PSIG filter system and protected with a 5300 PSIG relief valve.

## 6100 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	FILTRATION SYSTEM & CAPACITY*	WEIGHT	SIZE (IN) H x D x W
ECO-KAT6-100-1E	6.7 SCFM	5.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	225 LBS	31" x 28" x 50"
ECO-KAT6-100-3E	6.7 SCFM	5.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	225 LBS	31" x 28" x 50"
ECO-KAT6-100-G	6.7 SCFM	6.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	225 LBS	31" x 28" x 50"
ECO-KAT6-100-D	6.7 SCFM	6.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	225 LBS	31" x 28" x 50"
ECO-KAT6-120-1E	11.9 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	300 LBS	31" x 28" x 50"
ECO-KAT6-120-3E	11.9 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	300 LBS	31" x 28" x 50"
ECO-KAT6-120-G	11.9 SCFM	9.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	300 LBS	31" x 28" x 50"
ECO-KAT6-120-D	11.9 SCFM	8.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	300 LBS	31" x 28" x 50"
ECO-KAT6-1214-1E	16.3 SCFM	10.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	340 LBS	31" x 28" x 50"
ECO-KAT6-12140-3E	16.3 SCFM	10.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	340 LBS	31" x 28" x 50"
ECO-KAT6-1214-G	16.3 SCFM	13.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	340 LBS	31" x 28" x 50"
ECO-KAT6-1214-D	16.3 SCFM	12.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	340 LBS	31" x 28" x 50"
ECO-KAT6-181-3E	30.0 SCFM	20.0 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	880 LBS	31" x 28" x 50"
ECO-KAT6-181-D	30.0 SCFM	22.0 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	880 LBS	31" x 28" x 50"

All 6100 PSIG systems are supplied with the new Jordair 7300 PSIG filter system and protected with a 6500 PSIG relief valve.

## 7300 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	FILTRATION SYSTEM & CAPACITY*	WEIGHT	SIZE (IN) H x D x W
ECO-KAT7-1511-3E	23.9 SCFM	15 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	950 LBS	31" x 28" x 50"
ECO-KAT7-1511-D	23.9 SCFM	15 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	950 LBS	31" x 28" x 50"
ECO-KAT7-181-3E	30.0 SCFM	20 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	1000 LBS	31" x 28" x 50"
ECO-KAT7-181-D	30.0 SCFM	20 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	1000 LBS	31" x 28" x 50"

All 7300 PSIG systems are supplied with the new Jordair 7300 PSIG filter system and protected with a 7300 PSIG relief valve.

\* Filter Capacity is based on 20°C; for a 10°C increase in temperature decrease capacity by 50%

Weights and Sizes are approximations and are subject to change without notice. For exact weights and dimensions please consult a Jordair representative.

## TECHNICAL DATA

### STANDARD COMPRESSOR FEATURES

All ECO-KAT Series compressors are PLC controlled and run in automatic start modes, and include oil, inter-stage and discharge pressure gauges as well as an hour meter and "Power On" light. CO monitor, High air temperature and low oil pressure shut down alarms as well as inter-stage and final pressure relief valves protect the compressor and its components. Our compressors are designed to auto drain every 15 minutes into a silent collection system. Jordair's standard aluminum alloy filtration systems are all rated for 7300 PSIG\* service and include an oil and water separator, check valve, purifier, pressure maintaining valve, manual drain valve and auto drain cycle counter.

*Note: Units with a gas or diesel engine are supplied with a battery system and electric start.*

### CAPACITY CALCULATIONS

Compressor Flow Rate, or "Charge Rate", is based on filling a 88 cubic (ft3) SCBA cylinder from the alarm set point of 1550 PSIG to 4500 PSIG

Note: Technical specifications are subject to change without notice

### FILTRATION SYSTEM DESCRIPTION

<b>JBP41-7300-6</b>	Consists of 1 x JS-7300-A-6-1008 Separator & 1 x JBF-7300-6-22 (67224, 22" Tower)
<b>JBP61-7300-6</b>	Consists of 1 x JS-7300-A-6-1008 Separator & 1 x JBF-7300-6-32 (58827, 32" Tower)
<b>JBP81-7300-6</b>	Consists of 1 x JS-7300-A-6-1008 Separator & 2 x JBF-7300-6-32 (58827, 58825, 32" Towers)
<b>JBP91-7300-6</b>	Consists of 1 x JS-7300-A-6-1008 Separator & 3 x JBF-7300-6-32 (58827, 58825 x 2, 32" Towers)

*Note: All standard filtration systems use the FC-1008-SE separator element*

### ORDERING INFORMATION

Single Phase Voltages Available: (-1E) 208V, 230V  
Three Phase Voltages Available: (-3E) 208V, 230V, 460V, 575V

*When placing an order, add the voltage at the end of the model number (eg. ECO-KAT6-1E-230V)  
Standard production is 60Hz, consult the factory for 50 Hz requirements and other voltages*

## ELECTRONIC MONITORS



### Optional Securus Cartridge Moisture Monitor

The optional Securus filter cartridge and monitor ensures optimal filter cartridge life and the highest degree of safety. The overall cartridge life for removal of water, oil and other contaminants is primarily based on temperature at 20°C. A rise in ambient and filter air temperature will reduce cartridge life. The Securus filter cartridge monitor removes the guess work and ensures consistent air quality to the current CSA Z180.1-19 breathing air standard. The monitor's green light verifies the correct cartridge is installed and the CSA air standard is being met. The yellow light advises the cartridge is due for change and the red light confirms it is depleted and shuts down the compressor.



### CO Monitor

CSA standard Z180.1-19 requires breathing air compressors to have a CO monitoring system. All AIR-KAT series compressors are supplied with a CO monitor as a standard feature.

The monitor is self-calibrating when attached to the calibration test kit. The CO monitor ensures the breathing air is within the CSA limits and will shut down the compressor if the CO exceeds 600 PPM. Panel mounted CO monitors are available for existing compressors systems. Please add the calibration kit to the order when ordering a new compressor system.



### Optional eWON Flexy Fault Data Transmitter

The FLEXY data transmitter model provides direct access to the compressor and advises when a fault occurs. The transmitter will interface to a smart phone or to a computer system. In the event of a compressor fault and shutdown the data will be transmitted to Jordair, the customer, and the service group for the system. This assists the compressor operator to have immediate knowledge in the event a fault occurs and the shortest response time to resolve the issue.

## COMPRESSOR UPGRADE OPTIONS

### COMPRESSOR FRAME COLOUR:

<b>J-PCU</b>	Change compressor frame powder coating colour
--------------	---

### CO & MOISTURE MONITORS:

<b>J-CALKIT-4021</b>	CO Monitor Calibration Kit
<b>J-CALGAS-4021-IFA</b>	Zero gas for CO monitor calibration
<b>N15096-C</b>	Securus Moisture Monitor Kit and Cap
<b>N15096-CU</b>	Securus with upgrade from the JBP41 to the JBP61 filter system
<b>J-TEL-IN</b>	Telescopic intake assembly for mounting compressors in a trailer

### COMPRESSOR FILTRATION SYSTEM:

<b>JBF-7300-6-24-1U</b>	Upgrade from 1 x JBF-7300-5-11 Filter to 1 x JBF-7300-6-22
<b>JBF-7300-6-32-U</b>	Upgrade from 1 x JBF-7300-6-22 Filter to 1 x JBF-7300-6-32
<b>JBF-7300-6-32-A</b>	Add 1 x JBF-7300-6-32 filter chamber

### WHEELS:

<b>C-CWPN10SW1PLBB-AG</b>	Set of 4 removable 10" pneumatic wheels available on models 100 to 1214
---------------------------	---



## COMPRESSOR SERVICE PARTS LISTS

### IK 100, 120, 121, 12, 1214 Models

QTY	Part Name	Part Number
1	Oil Filter	N25326
1	Inlet Filter Element	N25950
1	Filter Cartridge	67224
1	*Securus Filter Cartridge	*61687
1	Separator Element	FC-1008-SE
4	Filter/Separator O-Ring	J-OR-2-334
4	Filter/Separator Backup Ring	J-OR-8-334
	Synthetic Oil 3 Litres	J-C751

### IK 150, 151, 1511 Models

QTY	Part Name	Part Number
1	Oil Filter	N25326
1	Inlet Filter Element	N25886
1	Filter Cartridge	58827
1	*Securus Filter Cartridge	*60037
1	Separator Element	FC-1008-SE
4	Filter/Separator O-Ring	J-OR-2-334
4	Filter/Separator Backup Ring	J-OR-8-334
	Synthetic Oil 5 Litres	J-C751

### IK 180, 181 Models

QTY	Part Name	Part Number
1	Oil Filter	N25326
1	Inlet Filter Element	N3029
1	Drying Cartridge	58825
1	Filter Cartridge	58827
1	*Securus Filter Cartridge	*60037
1	Separator Element	FC-1008-SE
6	Filter/Separator O-Ring	J-OR-2-334
6	Filter/Separator Backup Ring	J-OR-8-334
	Synthetic Oil 5 Litres	J-C751

\*For compressors with Securus Moisture Monitors

## COMPRESSOR BLOCK TECHNICAL DATA

### 5300 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	KW	
<b>IK100</b>	1400 RPM	7.5 SCFM	3	5.0	3.6	5300 PSIG
<b>IK120</b>	1600 RPM	12.7 SCFM	3	7.5	5.5	5300 PSIG
<b>IK121</b>	1800 RPM	14.3 SCFM	3	10.0	7.3	5300 PSIG
<b>IK1214</b>	1450 RPM	15.1 SCFM	4	10.0	7.3	5300 PSIG
<b>IK151</b>	1450 RPM	26.2 SCFM	4	15.0	11.0	5300 PSIG
<b>IK150</b>	1320 RPM	33.8 SCFM	4	15.0	11.0	5300 PSIG
<b>IK180</b>	1500 RPM	38.5 SCFM	4	20.0	14.7	5300 PSIG

### 6100 PSIG BLOCKS

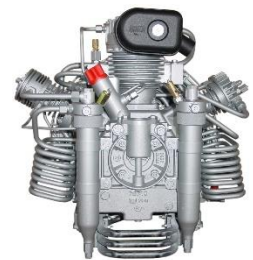
COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	KW	
<b>IK100-420</b>	1300 RPM	6.7 SCFM	3	5.0	3.6	6100 PSIG
<b>IK120-420</b>	1300 RPM	11.9 SCFM	3	7.5	5.5	6100 PSIG
<b>IK1214</b>	1450 RPM	16.3 SCFM	4	10.0	7.3	6100 PSIG
<b>IK181</b>	1600 RPM	30.0 SCFM	5	20.0	14.7	6100 PSIG

### 7300 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	KW	
<b>IK1511</b>	1350	23.9 SCFM	4	15.0	10.6	6500/7300 PSIG
<b>IK181</b>	1450	30.0 SCFM	5	20.0	13.6	6500/7300 PSIG

## BAUER COMPRESSOR BLOCK FEATURES

- High velocity, full flow cooling fan assembly that produces high velocity airflow over the coolers, pressure cylinders and crankcase to cool the compressed air and lubricating oil.
- Drive gear designed for an operating life of up to 30,000 hours.
- Stainless steel inter and after-coolers for high efficiency cooling and corrosion free operation.
- Cylinders are hardened through a plasma-nitrate process for up to 10,000 hours of operating life and low wear with excellent lubricating oil retention.
- Redesigned rings for the HP piston are synthetic material for low wear and a long operating life with very little oil carry over.
- Single-piece crankcase made of a high strength aluminum alloy for higher stability, larger oil capacity, and low vibration.
- Full flow oil system with a crankshaft-driven gear pump and full flow oil filter.
- Visual oil level indicator is designed show the accurate oil level.
- Reed valve on the first stage which offers higher efficiency and redesigned intake filter reduces intake valve noise.
- Final stage oil cooled cylinder and cylinder-head for lower air discharge temperature.

**IK100, IK100-420****IK120, IK120-420****IK1214****IK151, IK1511****IK150, IK180****IK181**

**NOTE:** Jordair reserves the right to change models or scope of supply at its own discretion and without notice; obtaining current factory technical product descriptions is recommended