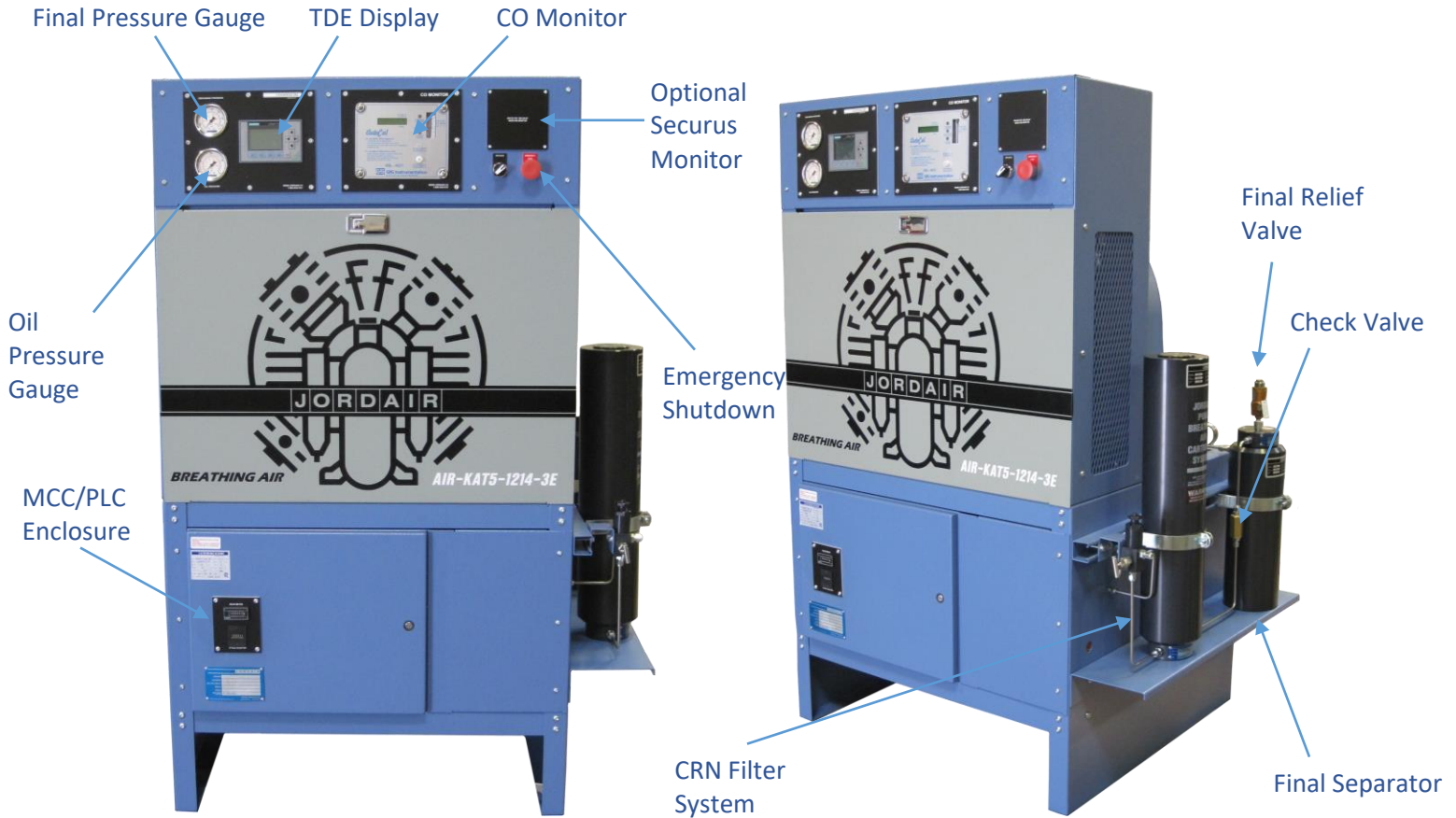


## 2021 AIR-KAT™ SERIES COMPRESSOR SYSTEMS



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

#### Jordair QC Program

- ISO 9001:2015 Cert. FM664273
- CSA Cert. No. LR77799
- CRN Pressure Components
- B&PV Licence MA-2007

#### System Features:

- Balanced Design
- Low Noise
- 35 Year Filter Chambers
- Extended Cartridge Life

#### Block Features:

- Low Oil Consumption
- Oil Filter Cartridge
- High Tech HP Piston
- Heavy Duty Crank

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-Z180.1-13 (approved January 2013).**

## STANDARD AIR-KAT COMPRESSOR FEATURES FOR 2021

The 2021 AIR-KAT features a new identity with two tone colour and ease of service from the rear of the unit. Many new features provide a service friendly and technically advanced design with active customer inter-face. Includes nationally certified 7300 PSIG filter systems for added safety and extended component life of 35 operating years. Now with a 5-year system and 10-year block warranty.

### SCOPE OF SUPPLY AND OPTIONS

- Logo 8 PLC with panel mounted 4" x 4" TDE 6 line screen showing compressor fault data
- Panel mounted CO monitor with regulator
- Low oil alarm and screen display of the fault
- High temperature alarm and screen display of the fault
- Final pressure switch set for customers required shut down pressure
- Auto-run and off mode operation with emergency shutdown button
- Optional FLEXY connection to the customer and service technicians cell phone
- Optional Securus monitor requires a filter upgrade to JBF61 or larger for IK100 to IK12.14 series units
- Panel mounted pressure gauge display for final pressure and oil pressure
- Inter-stage pressure gauges are mounted on the block and visible at the back side of the compressor
- Nationally certified CRN registered 7300 PSIG filter system cartridge life matched to the compressor capacity
- Final separator cycle counter to ensure filter system safety and record pressure cycles
- Cycle count is displayed on the panel mounted display screen
- Filter system life rated for 35 years or 100,000 pressure cycles
- Automatic condensate drain and silent collection system

### 5300 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	FILTRATION SYSTEM & CAPACITY*	WEIGHT	SIZE (IN) H x D x W
AIR-KAT5-100-1E	8.4 SCFM	5.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	485 LBS	62" x 32.5" x 41.5"
AIR-KAT5-100-3E	8.4 SCFM	5.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	485 LBS	62" x 32.5" x 41.5"
AIR-KAT5-120-1E	12.7 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	510 LBS	62" x 32.5" x 41.5"
AIR-KAT5-120-3E	12.7 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	510 LBS	62" x 32.5" x 41.5"
AIR-KAT5-121-1E	14.3 SCFM	10.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	705 LBS	62" x 32.5" x 41.5"
AIR-KAT5-121-3E	14.3 SCFM	10.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	705 LBS	62" x 32.5" x 41.5"
AIR-KAT5-151-3E	26.2 SCFM	15.0 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	62" x 32.5" x 41.5"
AIR-KAT5-150-3E	33.8 SCFM	15.0 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	62" x 32.5" x 41.5"
AIR-KAT5-180-3E	38.5 SCFM	20.0 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	880 LBS	62" x 32.5" x 41.5"
AIR-KAT5-220-3E	51.9 SCFM	30.0 HP	JBP91-7300-6 286,000 FT <sup>3</sup>	1450 LBS	62" x 32.5" x 41.5"

All 5300 PSIG systems are supplied with the new Jordair 6500/7300 PSIG filter system and protected with a 5500 PSIG relief valve.

Note the AIR-KAT5-12 and the AIR-KAT5-1214 are replaced by the 6100 PSIG models; specify 4700, 5300 or 6100 PSIG final pressure relief valve settings when ordering. Confirm the final pressure shutdown as required to protect downstream items. Example: a 4500 PSIG air storage system.

## 6100 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	FILTRATION SYSTEM & CAPACITY*	WEIGHT	SIZE (IN) H x D x W
AIR-KAT6-100-1E	6.7 SCFM	5.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	485 LBS	62" x 32.5" x 41.5"
AIR-KAT6-100-3E	6.7 SCFM	5.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	485 LBS	62" x 32.5" x 41.5"
AIR-KAT6-120-1E	11.9 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	510 LBS	62" x 32.5" x 41.5"
AIR-KAT6-120-3E	11.9 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	510 LBS	62" x 32.5" x 41.5"
AIR-KAT6-12-1E	12.6 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	705 LBS	62" x 32.5" x 41.5"
AIR-KAT6-12-3E	12.6 SCFM	7.5 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	705 LBS	62" x 32.5" x 41.5"
AIR-KAT6-1214-1E	16.3 SCFM	10.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	705 LBS	62" x 32.5" x 41.5"
AIR-KAT6-1214-3E	16.3 SCFM	10.0 HP	JBP41-7300-6 47,600 FT <sup>3</sup>	705 LBS	62" x 32.5" x 41.5"
AIR-KAT6-1511-3E	23.9 SCFM	15.0 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	62" x 32.5" x 41.5"
AIR-KAT6-157-3E	25.6 SCFM	15.0 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	840 LBS	62" x 32.5" x 41.5"
AIR-KAT6-181-3E	30.0 SCFM	25.0 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	880 LBS	62" x 32.5" x 41.5"
AIR-KAT6-220-3E	47.5 SCFM	30.0 HP	JBP91-7300-6 286,000 FT <sup>3</sup>	1450 LBS	62" x 32.5" x 41.5"

All 6100 PSIG systems are supplied with the new Jordair 6500/7300 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
AIR-KAT7-1511-3E	23.9 SCFM	15 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	950 LBS	62" x 32.5" x 41.5"
AIR-KAT7-157-3E	25.6 SCFM	15 HP	JBP61-7300-6 79,000 FT <sup>3</sup>	950 LBS	62" x 32.5" x 41.5"
AIR-KAT7-181-3E	30.0 SCFM	20 HP	JBP81-7300-6 186,000 FT <sup>3</sup>	1000 LBS	62" x 32.5" x 41.5"

All 7300 PSIG systems are supplied with the new Jordair 7300 PSIG filter system and protected with a 7000 PSIG relief valve. Filter Capacity is based on 20°C; for a 10°C increase in temperature decrease the rated capacity by 50%

**Note:** Crated size will add 6" to all unit dimensions and 120 lbs to unit weight

## 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 Z180.1-13 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 Z180.1-13 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.

## TECHNICAL DATA

### CAPACITY CALCULATIONS

Compressor Flow Rate, or “Charge Rate”, is based on filling a 88 cubic (ft<sup>3</sup>) 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. AIR-KAT5-100-1E-230V)*

*Standard production is 60Hz, consult the factory for 50 Hz requirements and other voltages*

## COMPRESSOR UPGRADE OPTIONS

### COMPRESSOR FRAME COLOUR:

<b>J-PCU</b>	Change compressor frame powder coating colour
<b>J-USP-LF</b>	Complete set of Enclosed Panels - Non Insulated (Large Frame) - 100 to 181
<b>J-E-FAN-20-1/2</b>	Cooling fan for fully enclosed unit - 100 to 1214
<b>J-E-FAN-20-1</b>	Cooling fan for fully enclosed unit - 151 to 181

**For a fully enclosed silent compressor see the AIR-KAT Silent brochure for added features**

### 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 <i>(Note: only for JBP61 and larger systems)</i>
<b>N15096-CU</b>	Securus with upgrade from the JBP41 to the JBP61 filter system
<b>EWON-FLEXY</b>	Fault data transmitter to report a compressor fault to Jordair, the customer, and the service provider

### COMPRESSOR FILTRATION SYSTEM:

<b>JBF-7300-6-32-1U</b>	Upgrade from 1 x JBP-7300-6-22 Filter to 1 x JBP-7300-6-32
<b>JBF-7300-6-32-2U</b>	Upgrade from 1 x JBP-7300-6-32 Filter to 2 x JBP-7300-6-32
<b>JBF-7300-6-32-3U</b>	Upgrade from 2 x JBP-7300-6-32 Filter to 3 x JBP-7300-6-32

**Note: Above upgrades include filter cartridges**



## COMPRESSOR SERVICE PARTS LISTS

**Note:** The following service parts list are for the default model of compressor, models with any changes or upgrades to the filtration system will differ. Consult your compressors original Test Report in the manual to find your systems service parts.

### 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, 157 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

### IK 220 Models

QTY	Part Name	Part Number
1	Oil Filter	N15839
1	Inlet Filter Element	N3029
2	Drying Cartridge	58825
1	Filter Cartridge	58827
1	*Securus Filter Cartridge	*60037
1	Separator Element	FC-1008-SE
8	Filter/Separator O-Ring	J-OR-2-334
8	Filter/Separator Backup Ring	J-OR-8-334
	Synthetic Oil 8 Litres	J-C751

\*Only for compressors with a Securus Moisture Monitor

**Note:** the service kits are supplied with O-rings and backup rings for the filter and separator top and base caps. Jordair recommends changing both during service as well as inspecting the barrels from both sides for any damage or deterioration. It also provides the opportunity to ensure all threads are in good condition and lubricated.

**Note: Contact Jordair or your Jordair Dealer for current service kit costs and updates.**

## COMPRESSOR BLOCK TECHNICAL DATA

### 5300 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
<b>IK100</b>	1400 RPM	8.4 SCFM	3	5.0	3.6	5300 PSIG
<b>IK120</b>	1600 RPM	12.7 SCFM	3	7.5	5.2	5300 PSIG
<b>IK121</b>	1800 RPM	14.3 SCFM	3	10.0	5.9	5300 PSIG
<b>IK151</b>	1500 RPM	26.2 SCFM	4	15.0	10.5	5300 PSIG
<b>IK150</b>	1500 RPM	33.8 SCFM	4	15.0	10.9	5300 PSIG
<b>IK180</b>	1500 RPM	38.5 SCFM	4	20.0	13.6	5300 PSIG
<b>IK220</b>	1350 RPM	51.9 SCFM	4	30.0	21.0	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	3.5	6100 PSIG
<b>IK120-420</b>	1300 RPM	11.9 SCFM	3	7.5	4.2	6100 PSIG
<b>IK12</b>	1150 RPM	12.6 SCFM	4	7.5	5.3	6100 PSIG
<b>IK1214</b>	1490 RPM	16.5 SCFM	4	10.0	6.7	6100 PSIG
<b>IK1511</b>	1400 RPM	23.9 SCFM	4	15.0	11.8	6100 PSIG
<b>IK157</b>	1500 RPM	25.6 SCFM	5	20.0	13.2	6100 PSIG
<b>IK181</b>	1500 RPM	30.0 SCFM	5	20.0	14.1	6100 PSIG
<b>IK220-420</b>	1300 RPM	47.5 SCFM	4	30.0	20.9	6100 PSIG

### 6500/7300 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
<b>IK1511</b>	1400	23.9 SCFM	4	15.0	10.6	6500/7300 PSIG
<b>IK157</b>	1500	25.6 SCFM	5	15.0	10.6	6500/7300 PSIG
<b>IK181</b>	1500	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-coolers 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.
- Bauer compressor blocks provide the highest level of reliability and virtually no oil carryover into the compressed air stream. This ensures perfect filtration with original Bauer filter cartridges and the longest cartridge life.

**IK100, IK100-420**



**IK120, IK120-420**



**IK1214**



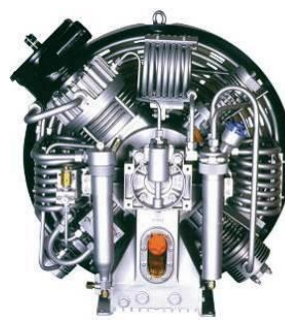
**IK151, IK1511**



**IK150, IK180**



**IK181**



**IK220**



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



