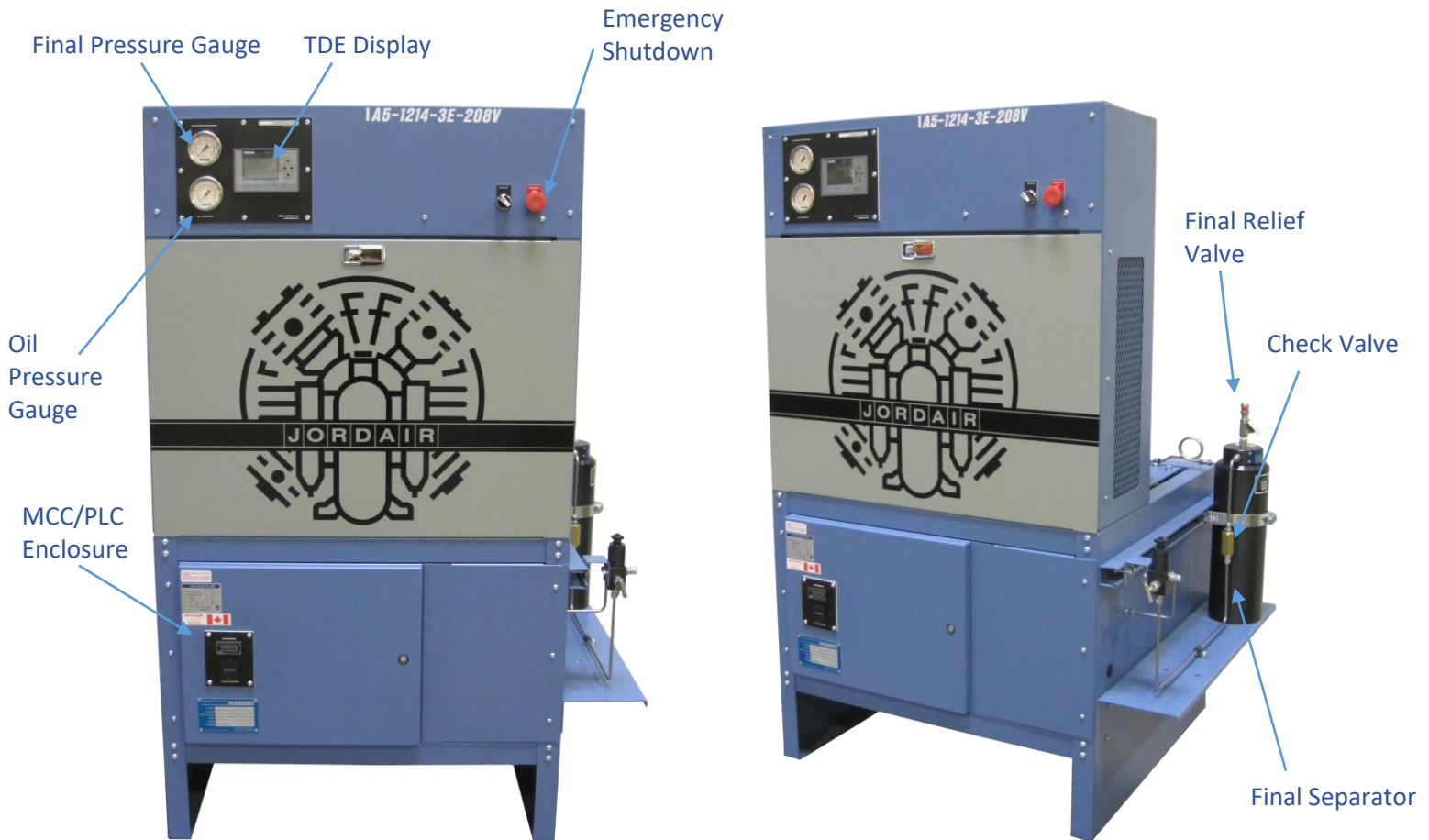


## NITROGEN SERIES COMPRESSOR SYSTEMS



### Features a 2-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

#### 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.

## STANDARD NITROGEN COMPRESSOR FEATURES FOR 2021

The 2021 Nitrogen Compressor 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 interface. Includes nationally certified 7300 PSIG filter systems for added safety and extended component life of 35 operating years.

### **SCOPE OF SUPPLY:**

Logo 8 PLC with panel mounted 4" x 4" TDE 6 line screen showing compressor fault data

Low oil alarm and screen display of the fault

High temperature alarm and screen display of the fault

Final ASCO pressure switch set for customers required shut down pressure

Auto-run and manual mode operation with emergency shut down button

Optional Flexy data modem connection to the customer and service technicians cell phone

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

Inlet solenoid and pressure gauge with inlet relief valve

Nationally certified CRN registered 7300 PSIG final coalescing oil/water separator on 5300 PSIG units with silent collector

Nationally certified CRN registered 1100 PSIG final coalescing oil/water separator on 580/720 PSIG units with silent collector

Final separator cycle counter to ensure filter system safety and record pressure cycles

The hour meter is mounted on the door of the MCC control box

The separator pressure cycle counter is mounted on the door of the MCC control box

Final separator life rated for 35 years or 100,000 pressure cycles

Final drying and oil removal CRN certified filter for 100% oil removal

Automatic condensate drain and silent collection system

Larger capacity compressors up to 250 KW are available upon request. Please consult with a Jordair Compressors representative for technical data and factory quote.

## NITROGEN COMPRESSORS

### 5300 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (CM) H x D x W
N5-100-1E	4.4 SCFM	5.0 HP	JS-7300-A-1008	220 KG	120 x 85 x 99
N5-100-3E	4.4 SCFM	5.0 HP	JS-7300-A-1008	220 KG	120 x 85 x 99
N5-120-1E	7.6 SCFM	7.5 HP	JS-7300-A-1008	250 KG	120 x 85 x 99
N5-120-3E	7.6 SCFM	7.5 HP	JS-7300-A-1008	250 KG	120 x 85 x 99
N5-1214-1E	10.3 SCFM	10.0 HP	JS-7300-A-1008	320 KG	120 x 85 x 99
N5-1214-3E	10.3 SCFM	10.0 HP	JS-7300-A-1008	320 KG	120 x 85 x 99
N5-151-3E	15.0 SCFM	15.0 HP	JS-7300-A-1008	380 KG	152 x 85 x 137
N5-150-3E	18.0 SCFM	15.0 HP	JS-7300-A-1008	380 KG	152 x 85 x 137
N5-180-3E	22.0 SCFM	20.0 HP	JS-7300-A-1008	400 KG	152 x 85 x 137
N5-220-3E	33.0 SCFM	30.0 HP	JS-7300-A-1008	N/A*	N/A*
N5-230-3E	52.0 SCFM	50.0 HP	JS-7300-A-1008	N/A*	N/A*
N5-250-3E	67.0 SCFM	75.0 HP	JS-7300-A-1008	N/A*	N/A*
N5-280-3E	125.0 SCFM	100.0 HP	JS-7300-A-1008	N/A*	N/A*

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

### 6100 PSIG

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (CM) H x D x W
N6-100-1E	3.5 SCFM	5.0 HP	JS-7300-A-1008	220 KG	120 x 85 x 99
N6-100-3E	3.5 SCFM	5.0 HP	JS-7300-A-1008	220 KG	120 x 85 x 99
N6-120-1E	6.0 SCFM	7.5 HP	JS-7300-A-1008	250 KG	120 x 85 x 99
N6-120-3E	6.0 SCFM	7.5 HP	JS-7300-A-1008	250 KG	120 x 85 x 99
N6-1214-1E	10.3 SCFM	10.0 HP	JS-7300-A-1008	320 KG	120 x 85 x 99
N6-1214-3E	10.3 SCFM	10.0 HP	JS-7300-A-1008	320 KG	120 x 85 x 99
N6-1511-3E	15.0 SCFM	15.0 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N6-181-3E	19.5 SCFM	20.0 HP	JS-7300-A-1008	450 KG	152 x 85 x 110
N6-220-3E	33.0 SCFM	30.0 HP	JS-7300-A-1008	N/A*	N/A*

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

### 6500 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (CM) H x D x W
N6.5-1511-1E	10.0 SCFM	10 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N6.5-1511-3E	10.0 SCFM	10 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N6.5-1511-3E	15.0 SCFM	15 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N6.5-181-3E	18.0 SCFM	20 HP	JS-7300-A-1008	450 KG	152 x 85 x 110

All 7300 PSIG systems are supplied with the new Jordair 7300 PSIG filter system and protected with a 7500 PSIG relief valve.

## 7000 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (CM) H x D x W
N7-1511-1E	10.0 SCFM	10 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N7-1511-3E	10.0 SCFM	10 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N7-1511-3E	15.0 SCFM	15 HP	JS-7300-A-1008	430 KG	152 x 85 x 110
N7-181-3E	18.0 SCFM	20 HP	JS-7300-A-1008	450 KG	152 x 85 x 110
N7-181-3E	67.0 SCFM	60 HP	JS-7300-A-1008	N/A*	N/A*
N7-181-3E	80.0 SCFM	75 HP	JS-7300-A-1008	N/A*	N/A*

\*Information available upon request

## NITROGEN BOOSTER COMPRESSORS

### 720 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	SUCTION PRESSURE	FINAL PRESSURE	OIL & WATER SEPARATOR	WEIGHT	SIZE (CM) H x D x W
NB720-123-1E	16/26 SCFM	7.5 HP	72 PSIG	217/580 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-123-3E	16/26 SCFM	7.5 HP	72 PSIG	217/580 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-123-1E	42/25 SCFM	7.5 HP	109 PSIG	217/720 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-123-3E	42/25 SCFM	7.5 HP	109 PSIG	217/720 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-123-1E	55/38 SCFM	7.5 HP	145 PSIG	290/720 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-123-3E	55/38 SCFM	7.5 HP	145 PSIG	290/720 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-124-1E	70/54 SCFM	10.0 HP	188 PSIG	362/720 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB720-124-3E	70/54 SCFM	10.0 HP	188 PSIG	362/720 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99

### 5000 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	SUCTION PRESSURE	FINAL PRESSURE	OIL & WATER SEPARATOR	WEIGHT	SIZE (CM) H x D x W
NB5-122-1E	7.0 SCFM	7.5 HP	72 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-3E	7.0 SCFM	7.5 HP	72 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-1E	10.4 SCFM	7.5 HP	101 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-3E	10.4 SCFM	7.5 HP	101 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-1E	13.8 SCFM	7.5 HP	130 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-3E	13.8 SCFM	7.5 HP	130 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-1E	17.0 SCFM	7.5 HP	159 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-122-3E	17.0 SCFM	7.5 HP	159 PSIG	5000 PSIG	JS-7300-A-1008	320 KG	120 x 85 x 99
NB5-153-3E	18.0 SCFM	15.0 HP	101 PSIG	5000 PSIG	JS-7300-A-1008	380 KG	152 x 85 x 137
NB5-153-3E	21.0 SCFM	15.0 HP	116 PSIG	5000 PSIG	JS-7300-A-1008	380 KG	152 x 85 x 137
NB5-153-3E	23.0 SCFM	15.0 HP	130 PSIG	5000 PSIG	JS-7300-A-1008	380 KG	152 x 85 x 137
NB5-153-3E	26.0 SCFM	15.0 HP	145 PSIG	5000 PSIG	JS-7300-A-1008	380 KG	152 x 85 x 137

*Note: Crated size will add 6" to all unit dimensions and 100 lbs to unit weight*

## ELECTRONIC MONITORS



### 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 one hour 88 cubic (ft<sup>3</sup>) SCBA cylinder from the alarm pressure to 4500 PSIG. Note: Technical specifications subject to change without notice

### FILTRATION SYSTEM DESCRIPTION

The JS-7300-A-1008 separators are standard for all Nitrogen models. Separator element should be changed every three months in order to minimize oil carry over in the air stream.

### 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. IAB720-123-1E-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 color
<b>J-USP-LF</b>	Complete set of Enclosed Panels - Non Insulated (Large Frame) - 151 to 181
<b>J-CFIP-LF</b>	Complete silent insulation package for the compressor frame
<b>J-E-FAN-16-A</b>	Cooling fan for fully enclosed unit - 100 to 1214
<b>J-E-FAN-24-A</b>	Cooling fan for fully enclosed unit - 151 to 181

**Note: when enclosing a compressor frame, include the auxiliary fan for perfect cooling of the unit**

<b>J-ODP-HNS</b>	Outdoor Nitrogen Package (See brochure for full scope)
<b>J-IDP-HNS</b>	Indoor Nitrogen Package (See brochure for full scope)

### Outdoor Package Features (J-ODP-HNS)

- Fully enclosed silent temperature insulated compressor frame mounted on an extended base
- Structural uprights and roof covering the complete system with cooling air duct and louver
- 1500 Watt heater
- Internal temperature monitor and auxiliary fan inter-lock
- Inlet filter/buffer
- Inlet pressure gauge, solenoid, manual valve and relief valve
- Gas recovery tank with feedback to inlet

### Indoor Package Features (J-ODP-HNS)

- Fully enclosed silent temperature insulated compressor frame mounted on an extended base
- Structural uprights and roof covering the complete system with cooling air duct and louver
- 1500 Watt heater
- Internal temperature monitor and auxiliary fan inter-lock
- Inlet filter/buffer
- Inlet pressure gauge, solenoid, manual valve and relief valve
- Gas recovery tank with feedback to inlet

### VARIABLE SPEED DRIVES:

<b>6SL3210-1PC22-2UL0</b>	Variable Speed Drive for 5 HP models
<b>6SL3210-1PC22-8UL0</b>	Variable Speed Drive for 7.5 HP models
<b>6SL3210-1PC24-2UL0</b>	Variable Speed Drive for 10 HP models
<b>6SL3210-1PC25-4UL0</b>	Variable Speed Drive for 15 HP models
<b>6SL3210-1PC26-8UL0</b>	Variable Speed Drive for 20 HP models

### COMPRESSOR CONTROLS & INLET ACCESSORIES:

<b>J-LOGO-TUG</b>	Logo 8 module upgrade for oil, final and temperature transmitters
<b>J-S-TP700</b>	Siemens TP700 screen required with the Logo 8 PLC update
<b>J-E-KIT-SWITCH-INLET-1</b>	Inlet Pressure Switch, -30 to 14 PSI
<b>J-E-KIT-SWITCH-INLET-2</b>	Inlet Pressure Switch, 2 to 18 PSI
<b>WIKA-A10</b>	Inlet Pressure Transmitter, -30 +30 PSI
<b>WIKA-A10</b>	Oil Pressure Transmitter
<b>WIKA-A10</b>	Final Pressure Transmitter for Start/Stop
<b>BAY1</b>	Final Temperature Transmitter

<b>J-BASE-SKID</b>	Base skid for mounting of auxiliary components (required for certain add-ons)
<b>J-TANK-60</b>	Inlet Buffer Tank and Fittings
<b>J-PG-PM-CBM-2.5-30+30-D</b>	Inlet Pressure Gauge - (-30 to 30 PSI)
<b>J-PR-125-1.5-3.5-3.8</b>	Inlet Pressure Regulator - 1.5-3.5 PSI Outlet
<b>J-E-SV-2-16-120-P</b>	Inlet Solenoid Valve - 2 Way, 1" FNPT, 120V
<b>J-E-SV-2-24-120-P</b>	Inlet Solenoid Valve - 2 Way, 2" FNPT, 120V
<b>EWON-FLEXY</b>	Transmitter to report faults to Jordair, the customer, and the service provider

## COMPRESSOR FILTRATION SYSTEM:

<b>JBF-7300-5.5-16-A</b>	Add bare filter chamber and fittings - 7300 PSIG, 16" Barrel
<b>JBF-7300-5.5-24-A</b>	Add bare filter chamber and fittings - 7300 PSIG, 24" Barrel
<b>JBF-7300-5.5-33-A</b>	Add bare filter chamber and fittings - 7300 PSIG, 33" Barrel
<b>80100</b>	Cartridge, Bauer, For 16" Chamber, Drying & Oil
<b>62504</b>	Cartridge, Bauer, For 22" Chamber, Drying
<b>62565</b>	Cartridge, Bauer, For 22" Chamber, Drying & Oil
<b>61686</b>	Cartridge, Bauer, For 22" Chamber, Drying & Oil, Securus
<b>58825</b>	Cartridge, Bauer, For 32" Chamber, Drying
<b>58826</b>	Cartridge, Bauer, For 32" Chamber, Drying & Oil
<b>60036</b>	Cartridge, Bauer, For 32" Chamber, Drying & Oil, Securus

## 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.

For IK 100, 120, 1214 Models

For 151, 1511, 150, 180, 181 Models

QTY	Part Name	Part Number
1	Oil Filter	N25326
1	Separator Element	FC-1008-SE
2	Separator O-Ring	J-OR-2-334
2	Separator Backup Ring	J-OR-8-334
1	Synthetic Oil 4 Litre	J-C751-4

QTY	Part Name	Part Number
1	Oil Filter	N25326
1	Separator Element	FC-1008-SE
2	Separator O-Ring	J-OR-2-334
2	Separator Backup Ring	J-OR-8-334
2	Synthetic Oil 4 Litre	J-C751-4

**Note:** Jordair recommends changing both O-rings and backup rings for the filter and separator top and base caps 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.

## COMPRESSOR BLOCK TECHNICAL DATA

### 5000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK100	1270	4.4 SCFM	3	5.0	3.6	5000 PSIG
IK120	1470	7.6 SCFM	3	7.5	5.5	5000 PSIG
IK1214	1470	10.3 SCFM	4	10.0	7.3	5000 PSIG
IK151	1320	15.0 SCFM	4	15.0	11.0	5000 PSIG
IK150	1230	18.0 SCFM	4	15.0	11.0	5000 PSIG
IK180	1320	22.0 SCFM	4	20.0	14.7	5000 PSIG
IK220	1320	33.0 SCFM	4	30.0	20.5	5000 PSIG
IK230	1400	52.0 SCFM	4	50.0	34.0	5000 PSIG
IK250	1180	67.0 SCFM	4	75.0	41.0	5000 PSIG
IK280	1180	125.0 SCFM	4	100.0	72.0	5000 PSIG

### 6000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK100	1050	3.5 SCFM	3	5.0	3.6	6000 PSIG
IK120	1200	6.0 SCFM	3	7.5	5.5	6000 PSIG
IK1214	1470	10.3 SCFM	4	10.0	7.3	6000 PSIG
IK1511	1320	15.0 SCFM	4	15 HP	11.0	6000 PSIG
IK181	1490	19.5 SCFM	5	20 HP	15.0	6000 PSIG
IK220	1320	33.0 SCFM	4	30 HP	22.0	6000 PSIG

### 6500 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK1511	1320	10.0 SCFM	4	10.0	7.3	6500 PSIG
IK1511	1320	15.0 SCFM	4	15.0	11.0	6500 PSIG
IK181	1320	18.0 SCFM	5	20.0	15.0	6500 PSIG

### 7000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK1511	1320	10.0 SCFM	4	20.0	14.7	7000 PSIG
IK1511	1320	15.0 SCFM	4	15.0	11.0	7000 PSIG
IK181	1320	19.5 SCFM	5	20.0	14.7	7000 PSIG
IK259	1180	67.0 SCFM	5	60.0	45.0	7000 PSIG
IK2518	1100	80.0 SCFM	5	75.0	55.0	7000 PSIG



## 720 PSIG BOOSTER BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		SUCTION PRESSURE	FINAL PRESSURE
				HP	kW		
<b>BK123*</b>	1300 RPM	16/26 SCFM	1	7.5	5.5	72 PSIG	217/580 PSIG
<b>BK123</b>	1300 RPM	42/25 SCFM	1	7.5	5.5	109 PSIG	217/720 PSIG
<b>BK123</b>	1300 RPM	55/38 SCFM	1	7.5	5.5	145 PSIG	290/720 PSIG
<b>BK124</b>	1300 RPM	70/54 SCFM	1	10.0	7.3	188 PSIG	362/720 PSIG

## 5000 PSIG BOOSTER BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		SUCTION PRESSURE	FINAL PRESSURE
				HP	kW		
<b>BK122</b>	1230 RPM	7.0 SCFM	2	7.5	5.5	72 PSIG	5000 PSIG
<b>BK122</b>	1230 RPM	10.4 SCFM	2	7.5	5.5	101 PSIG	5000 PSIG
<b>BK122</b>	1230 RPM	13.8 SCFM	2	7.5	5.5	130 PSIG	5000 PSIG
<b>BK122</b>	1230 RPM	17.0 SCFM	2	7.5	5.5	159 PSIG	5000 PSIG
<b>BK153</b>	1140 RPM	18.0 SCFM	2	15.0	11.0	101 PSIG	5000 PSIG
<b>BK153</b>	1140 RPM	21.0 SCFM	2	15.0	11.0	116 PSIG	5000 PSIG
<b>BK153</b>	1140 RPM	23.0 SCFM	2	15.0	11.0	130 PSIG	5000 PSIG
<b>BK153</b>	1140 RPM	26.0 SCFM	2	15.0	11.0	145 PSIG	5000 PSIG

\* Paired rows share the same compressor block. The model number with the \* is the actual block number. The other compressor blocks run at different speeds and therefore have been given a different number.

## 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**



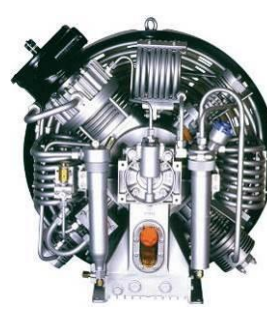
**IK151, IK1511**



**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.