

HELIUM SERIES 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

STANDARD HELIUM COMPRESSOR FEATURES

The standard system includes a full customer touch screen HMI with real time monitoring of oil pressure, inlet pressure, final pressure and final stage discharge temperature.

Compressor service is accessible from a front removable panel for drive belt access and a rear panel for compressor service access. Oil pressure, inter-stage and final pressure gauges are located and installed on the compressor block.

SCOPE OF SUPPLY AND OPTIONS

- Fully enclosed vertical frame with front and back service access panels
- Auxiliary fan system to increase the compressor block cooling air flow by 150%
- Logo 8 PLC with panel mounted 6" x 8" HMI touch screen showing compressor fault data
- Low oil pressure transmitter with display and alarm with screen display of the fault
- High temperature RTD display with alarm and screen display of the fault
- Final pressure transmitter set for customers required shut down pressure
- Inlet pressure transmitter with display and alarm with screen display of the fault
- Inlet solenoid to close off the Helium supply at the compressor shut down
- Auto-run and stop mode operation with emergency shut down button
- Optional Flexy data modem connection to the customer and service technicians cell phone
- Pressure transmitters for real time display of the inlet pressure, final pressure and oil pressure
- Oil & inter-stage pressure gauges are mounted on the block and visible at the back side of the compressor
- Final CRN certified filter for drying and 100% removal of oil from the Helium
- Nationally certified CRN registered 7300 PSIG final coalescing separator with recovery connection for no gas loss
- Final separator cycle counter to ensure filter system safety and record pressure cycles
- Cycle count is displayed on the panel mounted display screen
- Final separator and filter life rated for 15 years
- Automatic condensate drain and silent collection system to recover all gas
- Fully enclosed frame and optional silent insulation
- Compressor sub-base for factory install of the gas recovery tank, and regulated gas return to inlet
- Inlet filter for compressor intake

HELIUM COMPRESSORS

3200 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (IN) H x D x W
H3-PE-1E	2.5 SCFM	3 HP	JS-7300-A-1008	485 LBS	62" x 33" x 42.5"
H3-PE-3E	2.5 SCFM	3 HP	JS-7300-A-1008	485 LBS	62" x 33" x 42.5"
H3-100-1E	3.0 SCFM	5 HP	JS-7300-A-1008	485 LBS	62" x 33" x 42.5"
H3-100-3E	3.0 SCFM	5 HP	JS-7300-A-1008	485 LBS	62" x 33" x 42.5"
H3-120-1E	6.0 SCFM	7.5 HP	JS-7300-A-1008	550 LBS	62" x 33" x 42.5"
H3-120-3E	6.0 SCFM	7.5 HP	JS-7300-A-1008	550 LBS	62" x 33" x 42.5"
H3-151-3E	14.0 SCFM	15 HP	JS-7300-A-1008	840 LBS	62" x 33" x 42.5"
H3-181-3E	18.4 SCFM	20 HP	JS-7300-A-1008	880 LBS	62" x 33" x 42.5"

5300 PSIG COMPRESSORS

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (IN) H x D x W
H5-151-3E	14.0 SCFM	15 HP	JS-7300-A-1008	840 LBS	62" x 33" x 42.5"
H5-157-3E	14.8 SCFM	15 HP	JS-7300-A-1008	880 LBS	62" x 33" x 42.5"
H5-181-3E	18.4 SCFM	20 HP	JS-7300-A-1008	880 LBS	62" x 33" x 42.5"

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 COMPRESSORS

MODEL	FLOW RATE	MOTOR	OIL & WATER SEPARATOR	WEIGHT	SIZE (IN) H x D x W
H6-151-3E	14.8 SCFM	15 HP	JS-7300-A-1008	840 LBS	62" x 33" x 42.5"
H6-181-3E	18.4 SCFM	20 HP	JS-7300-A-1008	880 LBS	62" x 33" x 42.5"

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

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

COMPRESSOR UPGRADE OPTIONS

COMPRESSOR FRAME COLOUR:

J-PCU	Change compressor frame powder coating colour
J-ODP-HNS	Outdoor Helium Package (See brochure for full scope)
J-IDP-HNS	Indoor Helium Package (See brochure for full scope)
CSA INSPECTION	CSA Special Inspection for non-standard custom designed systems

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-IDP-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
- Internal temperature monitor and auxiliary fan inter-lock
- Inlet filter/buffer system
- Inlet pressure gauge, solenoid, manual valve and relief valve
- Gas recovery tank with feedback to inlet

VARIABLE SPEED DRIVES:

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

COMPRESSOR CONTROLS & INLET ACCESSORIES:

J-BASE-SKID	Base skid for mounting of auxiliary items, inlet & recovery tanks and filters
J-TANK-60	Inlet Buffer Tank and Fittings
J-PG-PM-CBM-2.5-30+30-D	Inlet Pressure Gauge - (-30 to 30 PSI)
J-PR-125-1.5-3.5-3.8	Inlet Pressure Regulator - 1.5-3.5 PSI Outlet
J-E-SV-2-16-120-P	Inlet Solenoid Valve - 2 Way, 1" FNPT, 120V
J-E-SV-2-24-120-P	Inlet Solenoid Valve - 2 Way, 2" FNPT, 120V
EWON-FLEXY	Fault transmitter to report a compressor fault to Jordair, the customer, and the service provider

COMPRESSOR FILTER SYSTEM:

JBF-7300-6-16-A	Add bare filter chamber and fittings - 7300 PSIG, 16" Barrel
JBF-7300-6-22-A	Add bare filter chamber and fittings - 7300 PSIG, 22" Barrel
JBF-7300-6-22-S-A	Add bare filter chamber and fittings - 7300 PSIG, 22" Barrel, Securus Cap
JBF-7300-6-32-A	Add bare filter chamber and fittings - 7300 PSIG, 32" Barrel
JBF-7300-6-32-S-A	Add bare filter chamber and fittings - 7300 PSIG, 32" Barrel, Securus Cap
N15096-C	Securus Moisture Monitor
N15096-CU	Securus upgrade form JBP41 to the JBP61 filter system
FC-1008-SE	Separator Coalescing Element
FC-1008-SE-HF	Separator Coalescing Element, high purity of oil removal
80100	Cartridge, Bauer, For 16" Chamber, Drying & Oil
62504	Cartridge, Bauer, For 22" Chamber, Drying
62565	Cartridge, Bauer, For 22" Chamber, Drying & Oil
61686	Cartridge, Bauer, For 22" Chamber, Drying & Oil, Securus
58825	Cartridge, Bauer, For 32" Chamber, Drying
58826	Cartridge, Bauer, For 32" Chamber, for wet gases and oil removal
68622	Cartridge, Bauer, For 32" Chamber, for dry gases and oil removal
60036	Cartridge, Bauer, For 32" Chamber, Drying & Oil, Securus
67099	Cartridge, Bauer, Jumbo, For P121 System, Drying
67867	Cartridge, Bauer, Super Jumbo, For P141 System, Drying & Oil Removal
67812	Cartridge, Bauer, Super Jumbo, For P141 System, Oil Removal

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 and motor power consumption, is based on the actual flow meter measured capacity at 3000 PSIG and 20C.

Note: Technical specifications subject to change without notice

FILTRATION SYSTEM DESCRIPTION

The JS-7300-A-1008 separators are standard for all Helium 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 (e.g. IAB720-123-1E-230V)

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

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

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.

(Gas only) – For IK 100, 120 Models

QTY	Part Name	Part Number
1	Oil Filter	N25326
1	Separator Element	FC-1008-SE
2	Separator O-Ring	J-OR-2-326
2	Separator Backup Ring	J-OR-8-326
1	Synthetic Oil 4 Litre	J-C751-4

(Gas only) – For 151, 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
2	Synthetic Oil 4 Litre	J-C751-4

(Gas only) – For PE Model

QTY	Part Name	Part Number
1	Inlet Filter	N4823
1	O-ring	N26701
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 1 Litre	J-C751-1

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**3200 PSIG BLOCKS**

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
PE-100	2350 RPM	2.5 SCFM	3	3.0	2.2	3200 PSIG
IK100	900 RPM	3.0 SCFM	3	5.0	3.6	3200 PSIG
IK120	1250 RPM	6.0 SCFM	3	7.5	5.5	3200 PSIG
IK151	1230 RPM	14.0 SCFM	4	15.0	11.0	3200 PSIG
IK181	1320 RPM	20.0 SCFM	5	20.0	14.7	3200 PSIG

5000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK151	1230 RPM	14.0 SCFM	4	15.0	11.0	5000 PSIG
IK157	1230 RPM	14.8 SCFM	5	15.0	11.0	5000 PSIG
IK181	1320 RPM	18.4 SCFM	5	20.0	14.7	5000 PSIG

6000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK157	1230 RPM	14.8 SCFM	5	15.0	11.0	5000 PSIG
IK181	1320 RPM	18.4 SCFM	5	20.0	14.7	5000 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.

PE



IK100



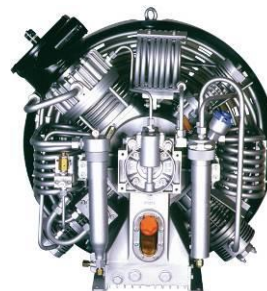
IK120



IK151



IK181



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.