

MOB-KAT BREATHING AIR TRAILER SYSTEMS



Jordair QC Program

- ISO 9001:2008 Cert. 97-544
- CSA Cert. No. LR77799
- CRN Pressure Components
- B&PV Licence MA-2007

System Features:

- 5000 or 6000 PSIG Systems
- Road Certified
- External Halogen Light System
- Weatherproof Design

5300/6100 PSIG TRAILER UNITS

MODEL	PRESSURE	FLOW-RATE	HP	FILTER	SCBA FILLS
MOB-KAT5 1214-DPT	5300 PSIG	16.3 SCFM	10 HP	JBP41-7300-6-S	4
MOB-KAT5 151-DPT	5300 PSIG	22.0 SCFM	15 HP	JBP61-7300-6-S	4
MOB-KAT5 150-DPT	5300 PSIG	25.8 SCFM	15 HP	JBP61-7300-6-S	6
MOB-KAT5 180-DPT	5300 PSIG	33.3 SCFM	20 HP	JBP81-7300-6-S	6
MOB-KAT6 1214-DPT	6100 PSIG	16.3 SCFM	10 HP	JBP41-7300-6-S	4
MOB-KAT6 1511-DPT	6100 PSIG	23.9 SCFM	15 HP	JBP61-7300-6-S	4
MOB-KAT6 181-DPT	6100 PSIG	30.0 SCFM	20 HP	JBP81-7300-6-S	6

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

TRAILER OVERVIEW



CUSTOM DESIGNED TRAILER SYSTEMS

The trailers are designed to be fully self-contained and operate from shore power or an on-board generator system. Other design power methods are also available. Jordair provides a truly custom trailer program where the customer will have the ideal and perfect mobile solution. Trailer design includes non-corrosive materials for harsh conditions as well as the availability of operating the compressor in a recycling mode. The booster mode will avoid contaminated air entering the system when on a fire or hazardous site.

Jordair provides the customer with the ability to have the perfect trailer and avoid having to settle with an off the shelf design. Internal recharging of the SCBA cylinders provides for a comfortable working environment for the operator of the trailer. Alloy floors with removable mats provide a no-slip surface and mat removal for cleaning of dirt and water.

The customer also has the option to monitor other gases than CO such as CO₂ or H₂S ambient levels with auto switch over to booster mode if detected in higher than acceptable levels.

Safety first with an under the floor diesel generator rear exhaust and a mid-trailer telescopic air intake.

STANDARD FEATURES:

- PLC controlled compressor system able to operate from the unit mounted diesel generator or from the auxiliary shore power supply.
- Fully contained and road certified air trailer for breathing air.
- Dual rear access doors for ease of entry and service of the equipment
- Large upward opening access doors with pneumatic rams on both sides for unit operation, SCBA recharging and generator service capability.
- Dual high capacity fans to provide the correct cooling air flow for the compressor and generator set in high ambient temperatures.
- Internal heater to maintain correct winter temperatures and pre-operating cooling air flow for the compressor and generator set in high ambient temperatures.
- Internal heater to maintain correct pre-operating temperatures during outside storage in sub zero ambient conditions.
- Standard with three 6000 PSIG TC/DOT cylinder air storage system. Optional added storage.
- Fully independent diesel generator sized to operate the compressor and auxiliary power requirements.
- Independent control for starting the diesel generator with system fault monitoring and safety shut down features.
- Diesel fuel tank with 50 litres capacity
- Auxiliary power receptacles located at the side access door for operation of small power tools or extension cords.
- Secondary shore power fused disconnects and 25' of power cable for operation of the system without the diesel generator.
- Pneumatic telescoping light pole, automatically deploys when the light switch is engaged with four 500 Watt halogen lamps.
- External fresh air intake with dust removing pre-filter.
- Silent version high pressure compressor.
- Filter system includes the Securus cartridge moisture control monitoring system with warning and automatic shut down features.
- CO monitoring system with audible alarm and shut down features and includes calibration kit.



- NFPA 1901 certified fill station with automatic safety air control shut off valve when the SCBA access door is open.
- Fill pressures of 2216, 4500 or 5500 PSIG SCBA recharging is standard. Optional multiple fill pressures are available.
- Open storage area suitable for storing up to 20 spare SCBA cylinders and other items or tools.
- Control valves for air storage cascade system.
- All pressure components are CRN certified and registered in all provinces in Canada.
- The complete system is CSA certified.



UPGRADE OPTIONS:

- Dual ambient and/or booster compressor system is able to operate from the ambient air then switch over to the booster mode and use all the stored air in the cascade cylinders. The stored air can be used down to 100 PSIG and boosted up to the required SCBA fill pressure of 2216 PSIG or 4500 PSIG. This option provides the security to continue to refill SCBA cylinders with pure air when the ambient air is contaminated.
- CO2 inlet scrubber is very valuable when the ambient air has a high CO2 content.
- CO2 monitoring system is recommended to monitor the intake air after the CO2 scrubber with a high level alarm and switch over to booster mode or system shut down.
- Larger capacities of filter systems for extended filter cartridge life.
- Single or all fill points of the SCBA fill station available in dual 2216 PSIG and/or 4500 PSIG cylinder recharging.
- SCUBA cylinder 3000 PSIG or 3500 PSIG fill point available.
- PLC control for the fill station providing operator log in and exact fill rates for all cylinders at a rate of 300 PSIG per minute regardless of the pressure in the cylinder.
- Dual preset regulators for 2216 PSIG and 4500 PSIG SCBA cylinder recharging available.
- External connection point for recharging HP air storage cylinders on trucks, air trailers or air carts.
- Manual HP hose reel with 100 feet of 6000 PSIG hose and quick disconnect.
- Low pressure air system with manual or automatic retraction hose reels and 100 feet of breathing air hose available.

The MOB-KAT trailers are available in single and/or dual axle configuration depending on the payload weight. Custom systems will be designed to meet the exact customer's specific requirements.

Contact your Jordair representative or the factory to discuss your specific requirements and to customize a trailer system to meet them.

Jordair also provides compressors, air storage and NFPA 1901 compliant fill stations for installation in air light trucks for the fire service.

COMPRESSOR BLOCK TECHNICAL DATA

5000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK12.14	1450 RPM	16.3 SCFM	4	10.0	7.3	5000 PSIG
IK15.1	1450 RPM	22.0 SCFM	4	15.0	11.0	5000 PSIG
IK150	1320 RPM	25.8 SCFM	4	15.0	11.0	5000 PSIG
IK180	1500 RPM	33.3 SCFM	4	20.0	14.7	5000 PSIG

6000 PSIG BLOCKS

COMPRESSOR BLOCK	SPEED	FLOW RATE	STAGES	MOTOR		FINAL PRESSURE
				HP	kW	
IK12.14	1450 RPM	16.3 SCFM	4	10.0	6.7	6000 PSIG
IK15.11	1500 RPM	23.9 SCFM	4	15.0	11.8	6000 PSIG
IK18.1	1600 RPM	30.0 SCFM	5	20.0	14.1	6000 PSIG

COMPRESSOR BLOCKS USED IN THE MOBKAT

IK1214



IK181



IK151, IK1511



IK150, IK180



BAUER COMPRESSOR BLOCK FEATURES

- New 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.
- New reed valve on the first stage which offers higher efficiency and redesigned intake filter reduces intake valve noise.
- New final stage oil cooled cylinder and cylinder-head for lower air discharge temperature.