

NATIONAL COMPRESSED AIR

BOOSTER COMPRESSORS



NCA
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FEATURES THAT BOOST PRODUCTIVITY

NCA Screw-Type Booster Compressors (Patent Pending) are designed and engineered to achieve one prime goal — boost user productivity. They are the end product of a long-term development program involving years of work experience, underground testing and improvement. The engineering personnel at National Compressed Air analyse and respond to the continuous feedback and evaluation from their field technicians who visit drillers at operating mines on a daily basis. NCA also receives extensive input from the drillers of National Drilling Systems, a sister company, which provides contract drilling services.

The result of these combined efforts is an extremely reliable production compressor that has proven itself in mines throughout the world. By combining the advantages of screw-compressor technology, and an innovative stepless control system, NCA boosters provide excellence in reliability, low maintenance, operator friendliness and efficiency.

NCA boosters offer the following features to improve your productivity:

- ⊙ newly-developed rotor profile for maximum efficiency
- ⊙ electric or diesel drive
- ⊙ operator friendly
- ⊙ environmentally safe - no cooling water required
- ⊙ reduced inrush amperage motor starter
- ⊙ runs with minimum cycling for better hole accuracy
- ⊙ rugged skid or trailer-mounted design
- ⊙ compact size
- ⊙ low discharge air temperature (180 degrees F/ 80 degrees C)
- ⊙ no out-of-balance forces
- ⊙ low maintenance
 - 80% less compared to reciprocating-type boosters
 - no belts to maintain
 - no PLC required
- ⊙ standard mine air raised quietly and efficiently to 350 PSIG—maximum discharge pressures of 450 PSIG with some models
- ⊙ flexible design to boost compressed air at various suction inlet pressures
- ⊙ capacity up to 3,500 SCFM

Optional features available include:

- ⊙ auxiliary lighting
- ⊙ auxiliary power source (various voltages)
- ⊙ alarm horn or light
- ⊙ phase protection
- ⊙ ground fault protection

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MODELS TO MEET EVERY NEED

NCA screw-type booster compressors can operate quietly at a variety of inlet pressures under continuous-duty conditions while maintaining an operating pressure of up to 350 PSIG.

Higher operating pressures are available for some models. The low noise level of the compressors is the result of low circumferential speeds and the attenuation effect of the injected oil. The rotors and gears are the only moving parts, helping to ensure a long service life and a minimum of maintenance. Low air discharge temperatures (85 degrees C) mean no aftercooler is required. The compressors are electrically or diesel driven and can be air or water cooled.



Model NCA 19-24GTE-B

SCFM: 700

PSIG: 350

The 700 booster was specifically designed for 4 1/2 inch drilling



Model NCA 31-24GSE-B

SCFM: 1100

PSIG: 350

The 1100 booster can be used for 6 1/2 inch and 8 inch drilling



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STANDARD MODELS AVAILABLE

Volume SCFM (M ³ /Min)	Inlet PSIG (BARG)	MODEL	Discharge (PSIG/ BARG)	MODEL	Discharge
700(19.8)	85(5.9)	NCA19-17GSE-B	250(17.2)	NCA19-24GSE-B	150(124)
1100(31.1)	85(5.9)	NCA31-17GSE-B	250(17.2)	NCA31-24GSE-B	150(124)
1400(39.6)	85(5.9)	NCA40-17GSE-B	250(17.2)	NCA40-24GSE-B	150(124)

Note: Most models are available with 50 or 60 Hz motors or diesel drives. Specific designs are available with capacities to 3500 SCFM (99 M³/Min) subject to suction and final discharge pressure.



With more than 40 years experience, National Compressed Air (NCA) is an industry leader in the development, manufacture, maintenance and servicing of compressors and compressor systems. NCA compressors are used at mining and exploration locations around the world. Offices and manufacturing facilities are located in Mississauga and Lively (Sudbury), Ontario, Canada. Service and parts requirements are supported by our Canadian stocking centres and distributors in key world locations

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