

Nitrogen Gas Booster System

Model No. J24366

Haskel Nitrogen Gas Booster Compressor System. Unit comprises an electrically driven 5,000 psi Nitrogen Booster Compressor model H5417B which in turn feeds two Haskel air driven gas boosters model AGD-152 in parallel all mounted on a carbon steel base frame. The compressor is covered in noise reduction panelling.

The system will compress nitrogen gas from a boil off supply (100 to 145 psig) to give a final outlet working pressure of upto15,000 psi.

At 11,000 psi the outlet flow-rate produced is 40 scfm based on an air drive pressure of 90 psig and volume up to 140 scfm.

At 15,000 psi the outlet flow rate will be reduced to 28 scfm with 90 psig air drive.

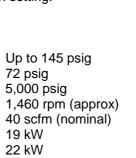
High pressure nitrogen from the electrically driven 5,000 psi Nitrogen Booster Compressor model H5417B feeds the test outlet via a bypass circuit and at the same time pre-charges the Haskel air driven booster circuit. When the outlet pressure reaches 4,800 psi the AGD-152 gas boosters are switched on automatically and the pressure increased up to the final test pressure controlled by the outlet air pilot switch setting.

Compressor Performance

Available gas pressure Regulated pressure at booster inlet Booster delivery pressure Booster speed Booster capacity Booster shaft power Motor power

2 x AGD-152 Performance

Available gas pressure (from above unit) Maximum delivery pressure Booster speed Booster capacity Air consumption



Up to 5,000 psig 15,000 psig Variable cycle rate up to 100 cycles/min. 40 scfm at 11,000 psig from 5,000 psig inlet 140 scfm at 90 psig at above conditions





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Typical Charge Times to Pressurise a 6.5 cubic feet Volume

Final Charge Pressure (PSI)	Time Taken from Atmospheric					
	Pressure					
	To the nearest minute					
1,000	11					
2,000	22					
3,000	33					
4,000	44					
5,000	55					
6,000	62					
7,000	69					
8,000	76					
9,000	82					
10,000	89					
11,000	96					
12,000	102					
13,000	109					
14,000	116					
15,000	124					
15,000	124					

Electric Booster Cooling

The machine is offered as a water cooled arrangement, and includes an air blast radiator, axial cooling fan, compressor mounted water pump and interconnecting piping, supplied as an integral part of the compressor package. With the set configuration offered, the radiator cooling fan is driven from an extension shaft that is bolted to the compressor main flywheel.

Services required:

Nitrogen gas supply 40 scfm at 100 to 145 psig Compressed air supply 140 scfm at 90 psig Electrical supply 415V 3 Phase & Neutral 50 Hz mains supply.

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