



BRIT-TIPP N2 SIZING CASE STUDY

How NSC makes supplying a nitrogen generator as easy as choosing an air compressor...

OBJECTIVES

In 2022 Brit-Tipp Ltd, a market leading vehicle body conversion manufacturer based in the North of England, wanted to know what generator system could supply enough nitrogen to replace the adhoc and unreliable nature of ordering bottle banks. This system had to meet their varying gas consumption patterns whilst remaining cost effective solution.

CHALLENGES

- The clients gas invoices could not show the varying nature of how they consumed gas, day-to-day.
- The Flowrate requirements provided by the laser manufacturer/OEM were estimates and incorrects
- Using a generic spread sheet



Purchasing a nitrogen generator from NSC was as simple as purchasing an air compressor. The guys from NSC came and fitted a flow meter inline to our laser and in a couple of weeks, the captured the results of how much gas we had used and sized the right machine for us.

- CAD Manager Brit-Tipp Ltd



HIGH PRESSURE CONSUMPTION METER

OEM's



Advanced. Portable. Cost-effective

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BENEFITS

- Clients save thousands upfront
- Data informed decision making used to size gas system
- Remote monitoring via online dashboard
- Production job cost audit
- Saving and payback reports

SOLUTION

NSC offered Brit-Tipp a remote monitoring solution, to help gather their gas consumption data in real time. After just a few days, iMonitoring had:

- Captured the actual gas flow rates when cutting a range of material,
- Identified the maximum amount of storage required for the new system,
- Pin pointed how many hours in the day were available to fill the storage
- Informed what size nitrogen generator was needed.

RESULTS

The results of iMonitoring analysis showed that a 40 bar on-demand system was ideal for Brit-Tipp's consumption pattern. In comparison, traditional sizing methods recommended a small 300 bar system with additional storage, which is over sized for their requirements. As a result of our flow scan, Brit-Tipp were able to save £30,000 in initial capital investment, whilst saving an ongoing £1,600 per month in gas invoices.

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