



Johnson's Apparelmaster

Case Study

Compressed Air System Installation

Johnson's Apparelmaster is the UK's number one workwear, protective wear and workplace hygiene services provider.

Providing truly national coverage from an extensive network of local customer service centres, and with over 40,000 UK-based customers operating in a wide cross-section of industries, from multiple-site multinationals to small local businesses, Johnson's currently rent/laundry almost 3 million garments a month!

**COMPANY
PROFILE**

The Challenge

The Gateshead outlet of Johnson's Apparelmaster, the UK's number one workwear and hygiene provider, was unhappy with the performance of its compressor.

Carl Oakden, the plant's Operations Support Manager, turned to Thorite for advice and a sales engineer from the local North Shields Sales and Service Centre arranged to visit the site.

Thorite is the UK's biggest independent pneumatic products and process systems distributor, and their engineer agreed that the existing compressor, which was used to power the laundry equipment, was very inefficient. He recommended the installation of an HPC compressor with an integral dryer, which would ensure maximum efficiency whilst occupying minimal space.



Thorite Action

The model selected is an HPC ASD50T SFC compressor with a capacity of 1.05-5.18 m³/min at 7.5 bar, complete with Sigma Control 2, a 25KW variable speed motor which can match its output to varying demand, and integral dryer. Installation took place October 2014 and has since proved its worth every day

Results

Carl Oakden commented on the outcome "Thorite recommended the HPC machine and I have to say it is the best compressor I've come across. The increase in performance and efficiency has been quite dramatic, producing energy savings of over £100.00 per week, or well in excess of £5,000.00 per year, plus the added bonus of a reduced carbon footprint. Thorite also provides ongoing service for the installation, so it's a win-win situation as we've got complete peace of mind with really worthwhile savings."



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Equipment Specification:

HPC ASD50T SFC - variable speed drive and integrated refrigeration dryer

Combining unrivalled reliability with exceptional efficiency, HPC's new ASD T rotary screw compressor systems provide space-saving, energy efficient compressed air generation and treatment in a single compressor package. The addition of the integrated refrigeration dryer module transforms the high performance ASD compressor unit into a complete air supply system, which is able to operate in ambient conditions of up to +45°C.



Model	Operating pressure (bar)	FAD Complete unit at operating pressure (bar)	Max. working pressure (bar)	Rated motor power (kW)	Refrigeration dryer power (kW)	Dimensions (WxDxH)	Compressed air connectio	Sound pressure level dB(A)	Weight (kg)
ASDT 50 SFC	7.5	0.5-5.18	8.5	25	0.8	50 x 900 x 1530	G1 1/4	68	870
	10	1.00-4.52	13						
	13	0.92-3.76	13						

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