

Summary of study: Air compressor in a textile unit: Unit - 4

Industry : Textiles

Unit profile : A textile unit located in Ahmedabad (Gujarat) engaged in manufacturing of cotton shirting, denim, knits and bottom weight (khaki) fabrics.



Technology :
Operating practice improvements

Application : Energy savings in compressed air system

Year of investigation : 2014

Key features:

- Effective utilisation of the combination of centrifugal compressor (base load) and inverter compressor (additional load)
- Reduction of leakages
- Regular cleaning of pre-intake filter
- Ensure fresh, cold, dry air intake
- Improvement of blowguns
- Use of energy saving coupler
- Oil smoke treatment to ensure required air quality

Energy and cost saving:

Details	Existing	Recommended
Compressed air system	11 units	11 units
Power savings (%)		Marginal energy saving

Note:

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Adoption of energy efficient technologies and practices can generate greater benefits in compressed air applications in industries.