



## Light Industrial Air System Management

**More Than Air.  
Productivity. Reliability. Efficiency.**

Online solutions: [www.air.irco.com](http://www.air.irco.com)



Ingersoll-Rand compressors are not designed, intended or approved for breathing air applications. Ingersoll-Rand does not approve specialised equipment for breathing air applications and assumes no responsibility or liability for compressors used for breathing air service.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll-Rand's standard terms and conditions of sale for such products, which are available upon request.

Product improvement is a continuing goal at Ingersoll-Rand. Designs and specifications are subject to change without notice or obligation.



### Air Solutions

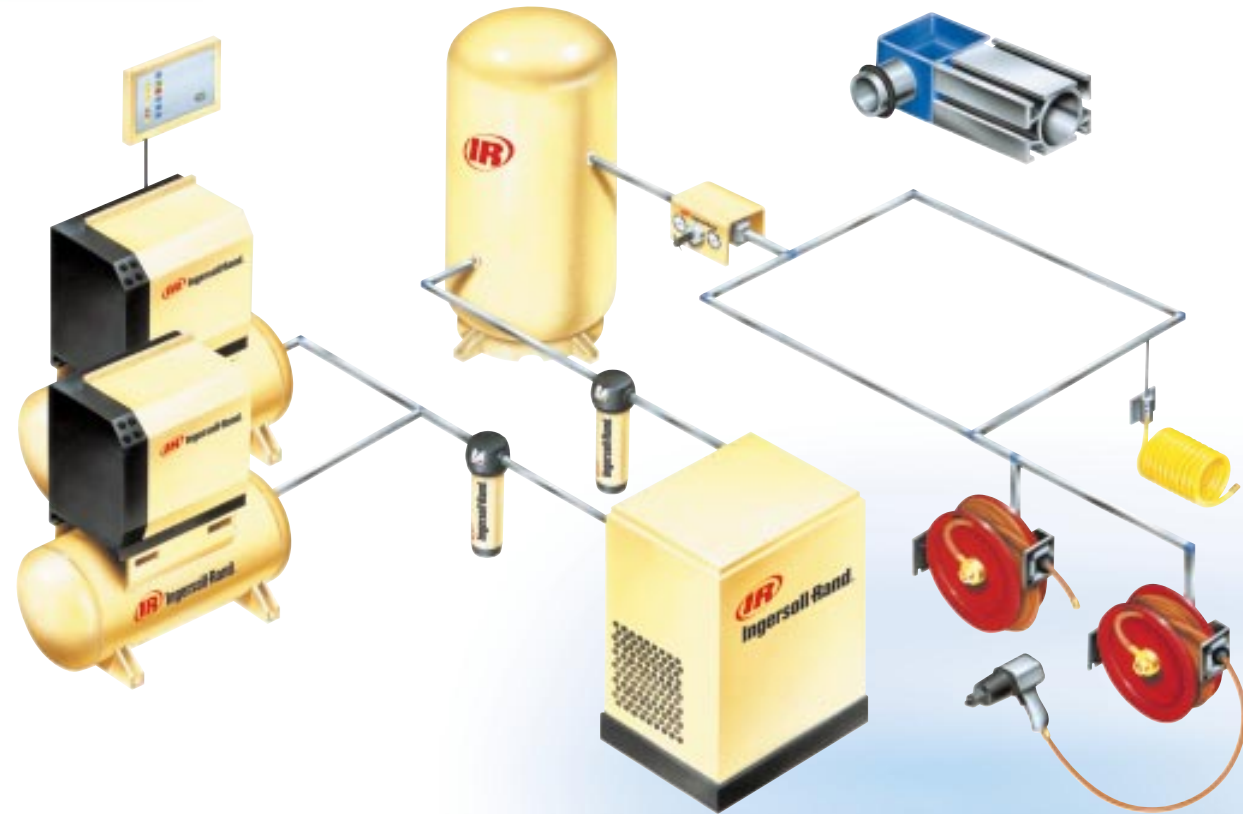
Ingersoll-Rand European Sales Limited  
Swan Lane  
Hindley Green  
Wigan WN2 4EZ, UK  
Tel: +44 (0) 1942 257171  
Fax: +44 (0) 1942 254162

CPN 22386858  
Printed in the UK  
© 2003 Ingersoll-Rand



# Intellisys System Manager – ISM

# IR Air System Management Controls



## Set points at the touch of a finger

- Minimum pressure dead band of 0.2 barg (given adequate storage).
- High pressure alarm limit – pressure at which the ISM will immediately unload all compressors.
- Low pressure alarm limit – pressure at which the ISM will display an alarm.
- Sequence change interval – interval (in ISM run hours) at which the ISM will change the sequence.
- Start delay time – timer to prevent a number of compressors starting at the same time.
- Reaction time – sets the response time to system events.
- ISM will control up to 4 compressors, pressure switch or microprocessor controlled.



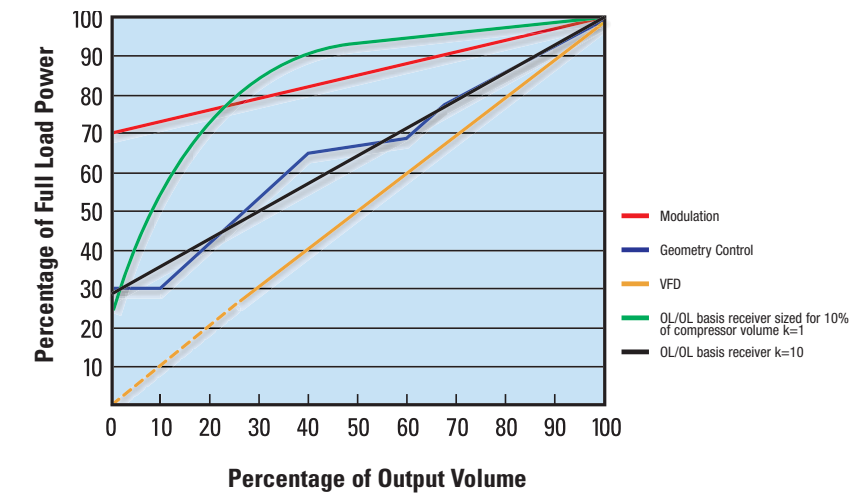
## Reduced energy costs with PacE

- Energy savings = 7% for every 1 bar reduction in system pressure.
- Single regulated control for the whole system.
- Protection for all downstream equipment.
- Prolonged equipment life and reduced maintenance costs.
- Simple installation and operation.
- Maximum rated flow of 7.4 m<sup>3</sup>/min for the 25mm valve.
- Decreases compressor load by reducing the amount of air lost to leakage.



## Properly sized storage – it pays to go big!

- Critical in improving the reliability and efficiency of the system.
- Vital in providing a central control point for the Intellisys System Manager. Additionally, sufficient storage enables the ISM to eliminate rapid compressor cycling with the smallest possible dead band.
- An undersized receiver will result in increased compressor cycles, which will reduce the system efficiency, increase compressor wear and result in possibly more compressors starting to meet a demand event.



### Efficiency

- The lowest possible system pressure drop.
- The lowest possible power operating over time.
- The least amount of wasted compressed air.

### Productivity

- Delivers the right pressure, at the right time, at the right place.
- Achieves air quality that meets every point of use requirement.
- Matches the optimum production processes to the minimum compressed air consumption.

### Reliability

- Managed maintenance instead of crisis downtime.
- All equipment functions as designed and delivers the specified performance.
- The correct equipment/system installed that meets all production requirements.