



## AIR LEAK PREVENTION

### *SYSTEM AIR-SAVER*

AIR-SAVER G1 & G2

### *ULTRASONIC LEAK DETECTION*

LOCATOR

**AIR-SAVER**



**LOCATOR**



COMPRESSED AIR CONDENSATE MANAGEMENT SPECIALIST

RELIABLE



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**Useful information**

**AIR-SAVER G1**

**AIR-SAVER G2**

**LOCATOR**

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## AIR LEAKS

Air leaks are a concern for anyone operating a compressed air system. The average plant with no formal leak management program will have air leaks that waste up to 30 percent of the total air capacity.

Leaks will cause compressors to run at full load for longer periods of time. The compressors will not only use more energy but, may also need additional maintenance due to the increased loads.

Leaks can give the false impression that additional compressors are required to meet the demand for compressed air.

## COMMON LEAK POINTS

- Quick connections fittings have o-rings to seal the hose connections. A damaged or missing o-ring will cause the connection to leak.
- FRL's (filter, regulator & lubricator)
- The welds found on pipe joints and pipe flanges can leak due to vibrations, age or improper welding.
- Float or mechanical type condensate drains are also a source of air leaks.
- Pipe thread connections, air tools and many more sources can be the cause of air leakages.

## AIR-SAVER

The air that is stored in the receiver can leak out through the above mentioned sources of air leaks. This is a direct waste of energy.

The Air-Saver is installed on the air piping that comes out of a receiver tank. It can be programmed to automatically open just prior to the start of a work shift and close just after the end of the work shift.

The Air-Saver is an improvement to any compressed air system with the above mentioned air leak problems and has a fast payback.

## LOCATOR

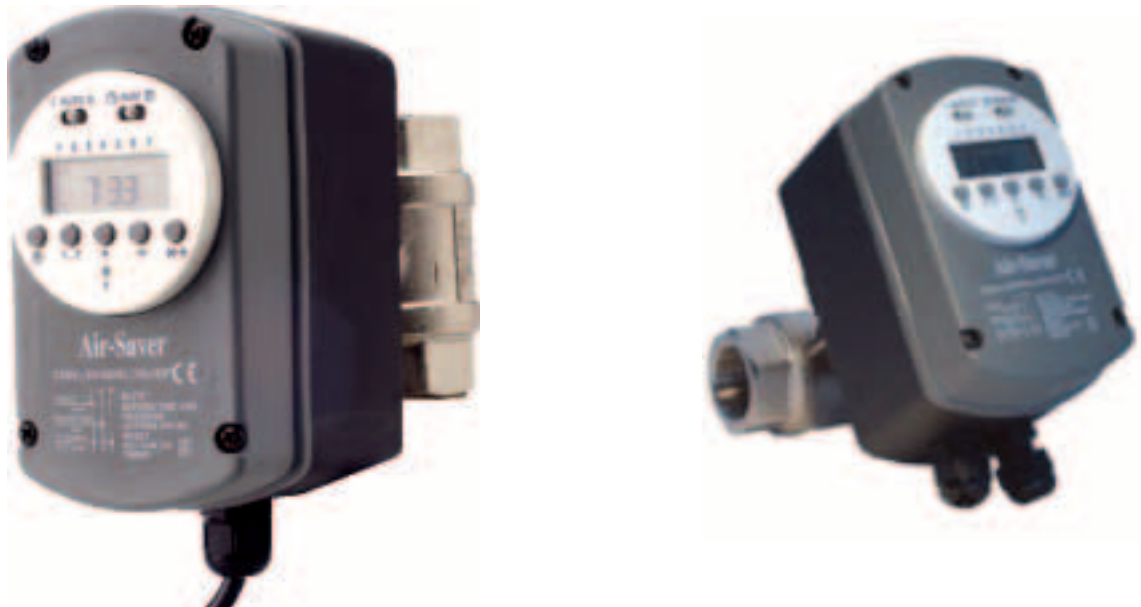
The Locator is an ultrasonic leak detector and is a necessary part of a leak prevention program.

When a gas passes through a restricted orifice under pressure, it is going from a pressurised laminar flow to low pressure turbulent flow. The turbulence generates a broad spectrum of sound. There are ultrasonic components in the sound and since the ultrasound will be the loudest by the leak site, the detection of these signals is usually quite simple.

The Locator is easy to use and effective at finding compressed air leaks.

# AIR-SAVER G1

Compressed air energy saver



## PRODUCT FEATURES

A typical compressed air system will have air loss through pipe work connections, leaking float type drains etc. At the end of the daily working shift the Air-Saver will shut the air tank off from the rest of the system.

The content of compressed air within the air tank will be saved rather than lost through pipe work leakages.

The Air-Saver is installed on the air outlet of the air tank. The Air-Saver will automatically OPEN just prior to the working shift begins and CLOSES just after the working shift is over.

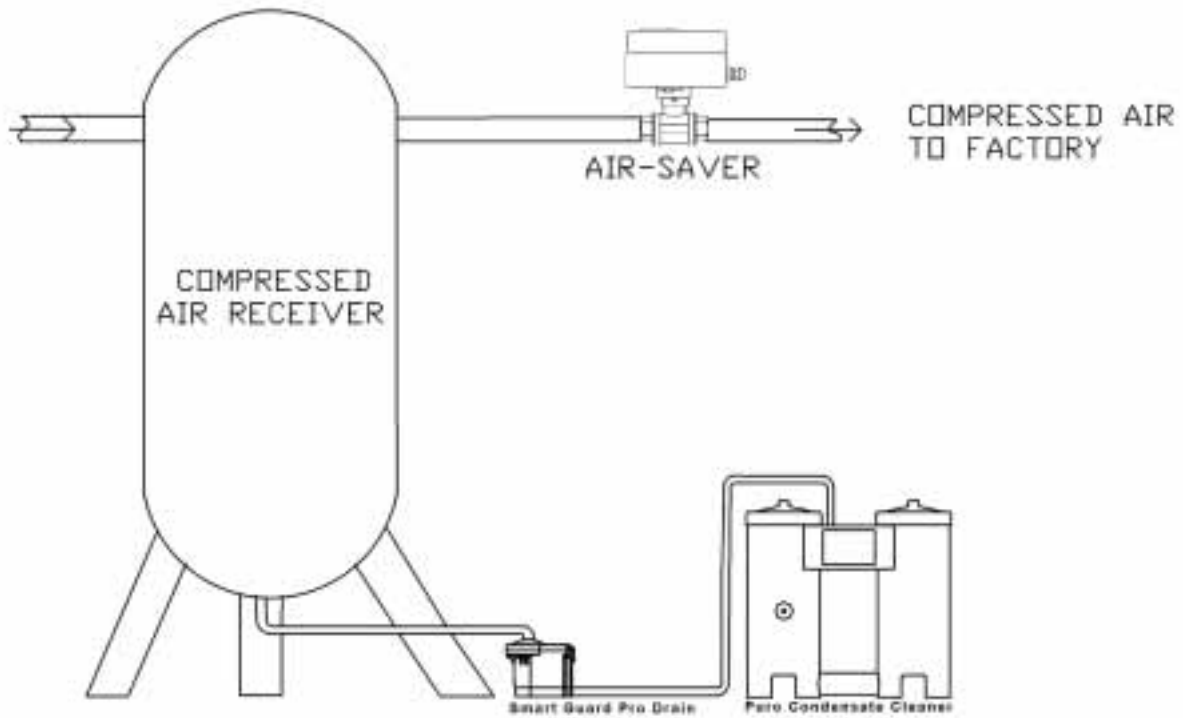
## COMMERCIAL BENEFITS

- Microprocessor controlled (7 day program feature - multiple cycles possible each day - )
- Fully automatic - no maintenance
- External push button controls (disassembly not necessary)
- Easy to program
- LCD displaying the program cycle and the current time.
- Small compact design.
- Each individual day can be programmed according to specific working day shift requirements

## TECHNICAL ADVANTAGES

- Any type of condensate drain can be applied.
- No de-rating required.
- Easy serviceable/maintenance.

## INSTALLATION



## PRODUCT SPECIFICATIONS

|                            |   |
|----------------------------|---|
| Supply voltage             | 115V or 240 VAC/DC 50/60Hz                    |
| Power consumption          | 7W during cycle rotation                      |
| Opening / Closing duration | 30 sec. / 90°                                 |
| Operating temperature      | 0°C to +60°C                                  |
| Valve                      | Nickel plated brass with stainless steel ball |
| Connection                 | 1" BSP or NPT                                 |
| Pressure range             | 0 - 16 bar (230 psi maximum)                  |
| Indicators                 | LCD indicating program and current time       |

## PRODUCT FEATURES



Built-in quartz controlled timer.  
Large LCD display.  
Current time display.  
Reset function.



Remote control option.



1" st/st rotation ball.

# AIR-SAVER G2

Compressed air energy saver



## PRODUCT FEATURES

A typical compressed air system will have air loss through pipe work connections, leaking float type drains etc. At the end of the daily working shift the Air-Saver will shut the air tank off from the rest of the system.

The content of compressed air within the air tank will be saved rather than lost through pipe work leakages.

The Air-Saver is installed on the air outlet of the air tank. The Air-Saver will automatically OPEN just prior to the working shift begins and CLOSES just after the working shift is over.

## COMMERCIAL BENEFITS

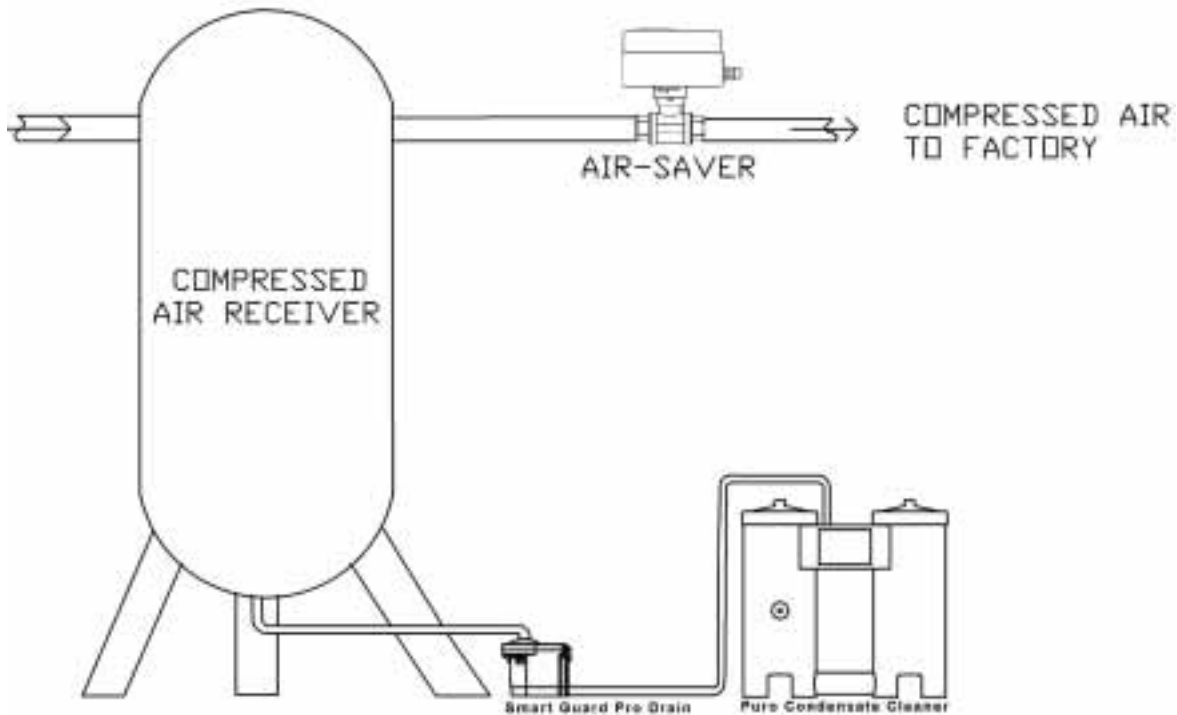
- Microprocessor controlled (7 day program feature - multiple cycles possible each day - )
- Fully automatic - no maintenance
- External push button controls (disassembly not necessary)
- Easy to program
- LCD displaying the program cycle and the current time
- Small compact design
- Each individual day can be programmed according to specific working day shift requirements

## TECHNICAL ADVANTAGES

- Orifice 2"
- FPM seals
- Stainless steel ball, valve is nickel plated brass
- Slow ball valve rotation 90 degrees in 105 seconds  
(designed to avoid water-hammer when Opening or Closing)



## INSTALLATION



## PRODUCT SPECIFICATIONS

|                               |                                     |
|-------------------------------|-------------------------------------|
| Supply Voltage                | 230VAC or 115VAC 50/60 Hz           |
| Power consumption             | 7W during cycle rotation            |
| Opening / Closing duration 2" | 105 sec. / 90°                      |
| Maximum Ambient temperature   | 50°C                                |
| Maximum medium temperature    | 100°C                               |
| Pressure range                | 0 to 16 bar (230 psi maximum)       |
| Valve                         | 2" connections, brass/nickel plated |
| Manual override               | Yes                                 |
| Environmental protection      | IP54                                |
| Timer display                 | 24 hours                            |

## PRODUCT FEATURES



Built-in quartz controlled timer.  
Large LCD display.  
Current time display.  
Reset function.



Remote control option.



2" st/st rotation ball

# LOCATOR

Ultrasonic air leak detector



## PRODUCT FEATURES

What produces ultrasound in a leak? When a gas passes through a restricted orifice under pressure, it is going from a pressurised laminar flow to low pressure turbulent flow. The turbulence generates a broad spectrum of sound. There are ultrasonic components in the sound and since the ultrasound will be the loudest by the leak site, the detection of these signals is usually quite simple.

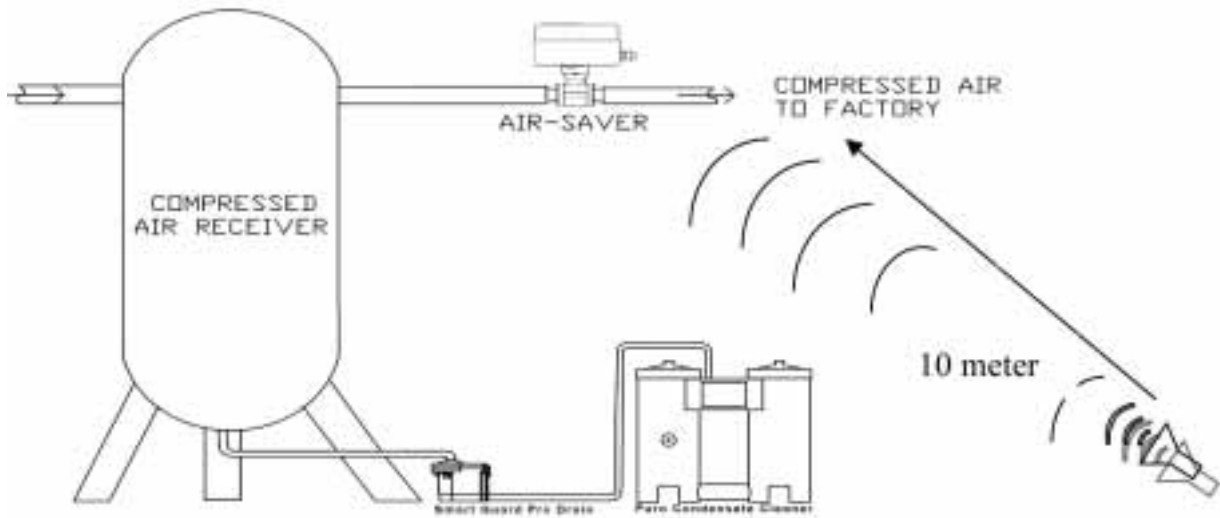
## COMMERCIAL BENEFITS

- Ultrasonic leak detection to save money
- SMT/solid state hybrid heterodyne receiver
- Supplied in case, complete with headset and rubber focussing probes
- Production does not need to be disturbed when the LOCATOR is being used.
- Fully automatic - no maintenance

## TECHNICAL ADVANTAGES

- Leaks will be detected from a distance (up to 10 meters)
- Highly effective in locating leaks and incredibly simple to apply.
- Very little time is required to locate leaks throughout a factory

## INSTALLATION



## PRODUCT SPECIFICATIONS

|                         |  |
|-------------------------|--|
| Construction            | Hand held ABS pistol type ultrasonic processor<br>Stainless steel sensor enclosures  |
| Circuitry               | SMT/Solid state hybrid heterodyne receiver   |
| Frequency Response      | 20-100 kHz (centered at 28-42 kHz)   |
| Indicator               | 10 segment leak indication LED bar   |
| Sensitivity Selection   | 8 sensitivity positions  |
| Power                   | 9 volt alkaline battery  |
| Low battery indicator   | LED  |
| Headset                 | Noise isolating type: double headset wired monophonic<br>Impedance: 16 ohms. Over 23 dB noise attenuation.<br>Meets or exceeds ANSI specifications and OSHA standards. |
| Transmitter             | Warble tone transmission   |
| Response time           | 300 mille seconds  |
| Ambient operating temp. | 0 – 50 degrees C. (32 – 120 degrees F)   |
| Relative humidity       | 10 – 95 %  |

## PRODUCT FEATURES



Supplied in its own case with all the required accessories.

Visual indication

Audible leak warning

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