

*Life  
is in the  
details.®*



**Medical**  
**Instrument**  
**Air**



**Instrument Air**

## What is Medical Instrument Air?

BeaconMedæ is always seeking to find innovative ways to save facilities money and labor. Since 2002, NFPA has permitted the use of Medical Instrument Air as an alternative for Nitrogen, and BeaconMedæ is pleased to make that option worth considering for your facility.

Medical Instrument Air is compressed air purified to meet the requirements of the Instrument Society of America and NFPA, and distributed at pressures comparable to nitrogen. The initial cost of the system is usually higher than a comparable nitrogen manifold, but because it is very inexpensive to produce and the labor of changing cylinders is eliminated, medical Instrument Air can represent a substantial cost savings over time.

## Why Should I Consider Using It?

There are three reasons to consider Medical Instrument Air for your facility, and they all involve money or labor saved.

- Instrument Air is less expensive on a volume to volume basis. That means the more nitrogen you use, the more money you will save using Instrument Air.
- An Instrument Air system needs only minimal management and maintenance. That means that no one has to go to the manifold, change and hustle heavy cylinders or containers, and there is no cylinder inventory or reordering to deal with.
- Instrument Air is inherently more safe. It is not toxic and is not an asphyxiant like nitrogen when released into the work environment.

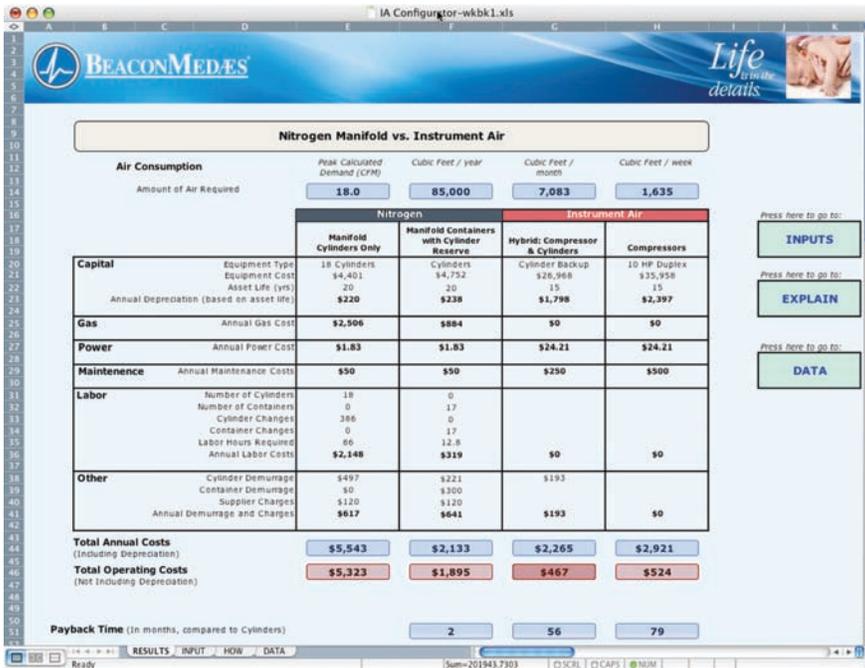


MENU	DEWPOINT	PRESSURE	SERVICE	TUC	LAG
	012 °C	012 PSI	DUE	FAULT	ALARM
UNIT 1		UNIT 2			
012345 HOURS		012345 HOURS			
OFF		OFF			
MOTOR OVLD		MOTOR OVLD			
HIGH TEMP	FAILED START	HIGH TEMP	FAILED START		

*Control close up*

*Complete Duplex system*

# Instrument Air



Savings calculator

## All the Money Saving Options

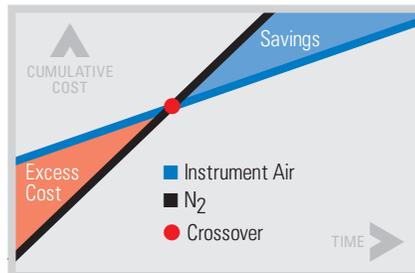
NFPA allows Instrument Air sources to take any of several forms and BeaconMedæ's can provide the version that's right for you. Instrument Air manifolds, Compressors with cylinder backup, and full multiplex packages are all possibilities, and standard outlets or local regulation cabinets are available to meet any need at the user end. Of course, all BeaconMedæ's Instrument Air equipment complies with the latest NFPA, ISA and CGA requirements for Instrument Air.



Instrument Air control

## Thinking of Changing over?

NFPA does permit change of use for Nitrogen pipelines and for some facilities who are using large quantities of Nitrogen the savings can be very compelling. A conversion is not very complicated but must be done carefully to ensure compliance with the standard and to ensure the system is safe when placed back in service. BeaconMedæ's can help you plan and execute a conversion starting with the analysis of savings right through to the installation.



## BeaconMedæ's is Ready

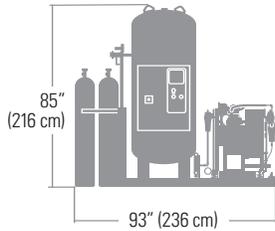
Your BeaconMedæ's representative can start you off right away with an analysis of your present situation to see if Instrument Air is the right dollars and cents choice for you. They will also help you design a system most suitable for your requirements and then can provide the right Instrument Air package, outlets, alarms and control cabinets - even pipe labels - to complete your Instrument Air installation and get you started saving money right away. After the installation is up and running, service contracts are available to ensure your system runs flawlessly for as long as you own it. BeaconMedæ's is your complete partner for Instrument Air.



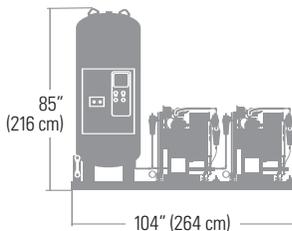
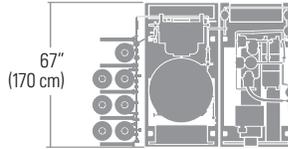
Instrument Air outlet



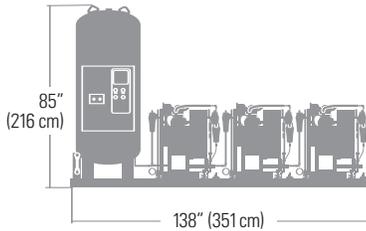
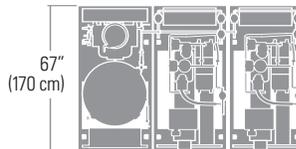
**Instrument Air Configurations**



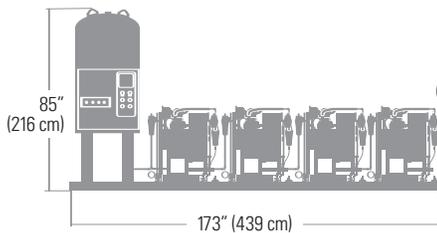
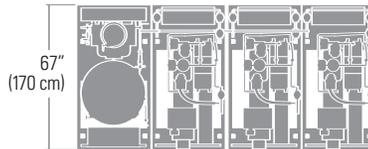
*Simplex*



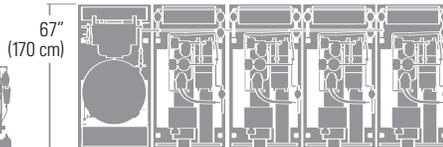
*Duplex*



*Triplex*



*Quadruplex*



**Key Benefits at a Glance**

- Savings on operation compared to cylinder gas.
- Savings on labor - no cylinders to handle.
- Improved safety for staff.

**Instrument Air Specifications**

Output (FAD)		Power	
Liters/Minute	SCFM	HP	kW
<b>SIMPLEX</b> (with cylinder backup)			
467	16.5	7.5	5.6
679	24	10	7.5
<b>DUPLEX</b>			
467	16.5	7.5	5.6
679	24	10	7.5
<b>TRIPLEX</b>			
934	33	7.5x2	5.6x2
1,359	48	10x2	7.5x2
<b>QUADRUPLEX</b>			
1,401	49.5	7.5x3	5.6x3
2,038	72	10x3	7.5x3

Capacities are calculated as per NFPA 99. All units capable of 185 PSI, (1,280 kPa) delivery pressure. Compressors produce 200 PSIG (1,380 kPa) or greater.

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**BeaconMedaes**

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