

**Gardner**  
**Denver**

COMPRESSED AIR QUALITY TESTING

# XtremeAir Testing™



# Do you know your Air Quality?

As a food and beverage manufacturer, it is your responsibility to know the true quality of your compressed air stream. Contamination is not limited to the typical ISO 8573 purity classes such as: solids (particulates), water (vapor or liquid) and oil. Failure to monitor and control any of these items can result in damage to a reputation that you have worked diligently to cultivate. The cost of product contamination coupled with the recovery of your reputation can run into the millions and reputation recovery is not a given. But this all can be avoided if proper air quality is maintained.

If you are a food and beverage manufacturer, you are now **required** to test **annually** against a recognized standard; the most common being ISO 8573:2010. Based on your specific application, this standard covers the three main contaminant sources (dirt, water and oil). Review of the table below reveals that the lower the number, the higher the purity rate provided. Please note that Class 0 in the Oil category is reserved only for air delivered from an Oil Free/Oil Less compression technology.

## ISO8573:2010 CONTAMINANTS & PURITY CLASSES

CLASS	BY PARTICLE SIZE IN MICRONS (MAX NUMBER OF PARTICLES PER m <sup>3</sup> )			BY MASS	VAPOR PRESSURE DEWPOINT		LIQUID	LIQUID, AEROSOL & VAPOR
	≤20,000	≤400	≤10		≤-70	≤-94		
<b>0</b>	As specified by the equipment user or supplier and more stringent than Class 1							
	≤20,000	≤400	≤10		≤-70	≤-94		≤0.01
<b>2</b>	≤400,000	≤6,000	≤100		≤-40	≤-40		≤0.1
		≤90,000	≤1,000		≤-20	≤-4		≤1
<b>4</b>			≤10,000		≤+3	≤+37		≤5
			≤100,000		≤+7	≤+45		
<b>6</b>				0-≤5	≤+10	≤+50		
				5-≤10			≤0.5	
<b>8</b>							≤5	
							≤10	
<b>X</b>				>10			>10	>5

No purity classes are identified

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Gases mentioned are: CO, CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>x</sub>,  
Hydrocarbons in the range of C<sub>1</sub> to C<sub>3</sub>



If you are a **food or beverage processor** the quality of air you produce must meet minimal air quality standards in terms of particulate, water, and oil. Recent updates to the ISO 22000 Safe Quality Food Manual, published by the Safe Quality Food Institute (SQFI), mandate **Annual Air Quality Testing.**

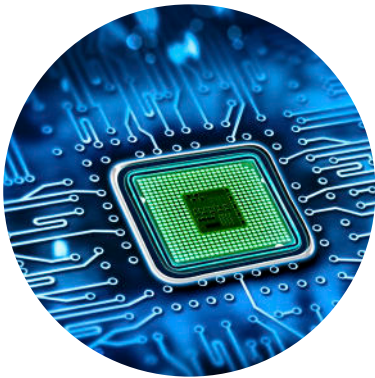
# High Quality Compressed Air for All



Managing and providing the right quality of air is not limited to those in the food and beverage industry. Supplemental food sectors such as: pet food, food packaging manufacturing and animal feed manufacturing are all industries where adherence to ISO 8573 guidelines is integral for the safety of the consumer and compliance to industry regulations.

The correct quality of air is not relegated to only the food and beverage industry. The following are but a few of the sectors requiring diligent attention to the monitoring of their compressed air supply as it is critical to product quality, product safety and reliable system operation:

- Pharmaceutical
- Biotech
- General Manufacturing
- Medical Device Manufacturing
- Electronic Component Manufacturing
- Semi-Conductor Manufacturing
- Power Generation
- Sterile Applications
- Medical/Breathing Air
- Instrument Air Supply
- Electrostatic Painting
- Nitrogen Generation



# Our Solution

Are you embarking on the selection of the required equipment for a new application? Could it be you are looking to make a system-wide change to the ISO class of air supplied? Maybe you're looking to mitigate risk. It is easy to see the importance of verifying you have the right ISO class of air for your specific application. Regardless of the reason, Gardner Denver is pleased to introduce **XtremeAir Testing™** to help you make life better.

## What is it?

XtremeAir Testing™ is a complete suite of air quality testing products and services available from your local Gardner Denver distributor. Air quality testing is currently offered as shown below, with additional execution methods to follow:

## XtremeAir Testing™ In-House (ISO 8573-1 & Breathing Air)

- Secure Online Lab Portal for Dew Point Submittal
- Mail-in Field Test Kit
- ISO 8573-1 Industrial & Breathing Air for contaminants (particles, moisture and oil)
- Sent direct to customer via Gardner Denver distributor
- Certified Test Report in (1) week
- All testing done in-house



## Accredited Lab

All testing is done in-house at Gardner Denver's own accredited lab, X-Zam Lab™. We are one of fewer than 250 labs (worldwide) to qualify under the guise of A2LA (American Association for Laboratory Accreditation). Our accreditation is based on the internationally accepted standard ISO/IEC 17025, used to evaluate laboratories around the world. In comparison, these are similar principles used in the ISO 9001 quality assurance program. This assures that your sampling is done by a competent and proficient lab with sound quality systems in place guaranteeing compliance, traceability and accuracy. Would you expect anything less from Gardner Denver?



# Peace of Mind

Once again Gardner Denver brings innovation to the market at an unheralded pace. Our introduction of **XtremeAir Testing™** provides you the opportunity to validate the health of your compressed air supply, in an affordable and efficient manner. Our streamlined testing methods allow you to qualify the current state of your compressed air supply. Ensure your air is meeting the requirements necessary to avoid poor quality products, safety for your customers, or plant down-time. All of these scenarios can be prevented with proper air quality testing to get in front of any issues before they shut your plants down. Gardner Denver continues to deliver the peace of mind that you rightfully deserve.

Rest Assured That Your  
Required Air Quality Is Achieved





# Sustainable Profitability

Providing the highest quality of air, specific for your application, is what has made Gardner Denver a global leader in the compressed air industry. The introduction of XtremeAir Testing™ ensures that your compressed air quality adheres to its intended design.

This is a highly effective and affordable tool to efficiently reduce product contamination, decrease spoilage and eliminate product re-work and scrap. The loss of revenue from any product recall can do irreparable harm to your bottom line. All of these factors have a direct effect on your sustainable profitability and company value. Why incur additional risk when an affordable solution, confirming your compressed air supply, is only a phone call away?

Please contact your local Gardner Denver distributor to learn more on how we can be your partner in sustainable profitability.

The leader in every market we serve  
by continuously improving all business processes  
with a focus on innovation and velocity

**Gardner  
Denver®**

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