

Nov/ Dec 2020

SAFETYZONE MAGAZINE

Minimizing
Underutilized Space
in Corporate Offices
Drives Demand for
More Advanced Fire
Detection Systems

**AGF Introduces
Self-Maintaining
Auxiliary Drain**

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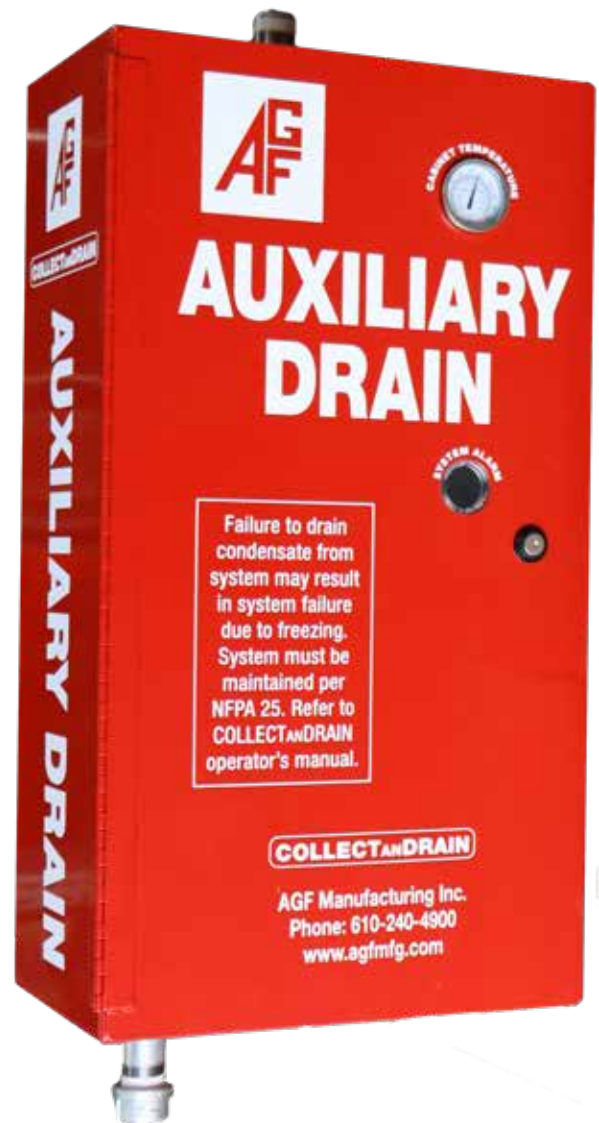
AGF Introduces Self-Maintaining Auxiliary Drain

AGF Manufacturing is excited to introduce their COLLECTANDRAIN Model 5450 Self-Maintaining Auxiliary Drain. The Model 5450 is the latest in their line of heated auxiliary drain cabinets and includes all the benefits of the original Model 5400. The new cabinet features the ability to self-maintain the drain level and allow for maintenance to be better regulated.

The COLLECTANDRAIN line includes a series of auxiliary drains in several configurations to meet and exceed NFPA 13 and 25 standards addressing drainage recommendations for dry and pre-action fire sprinkler systems. COLLECTANDRAIN heated cabinets are temperature controlled to prevent freezing and include integrated NFPA 25 signage on a lockable cabinet.

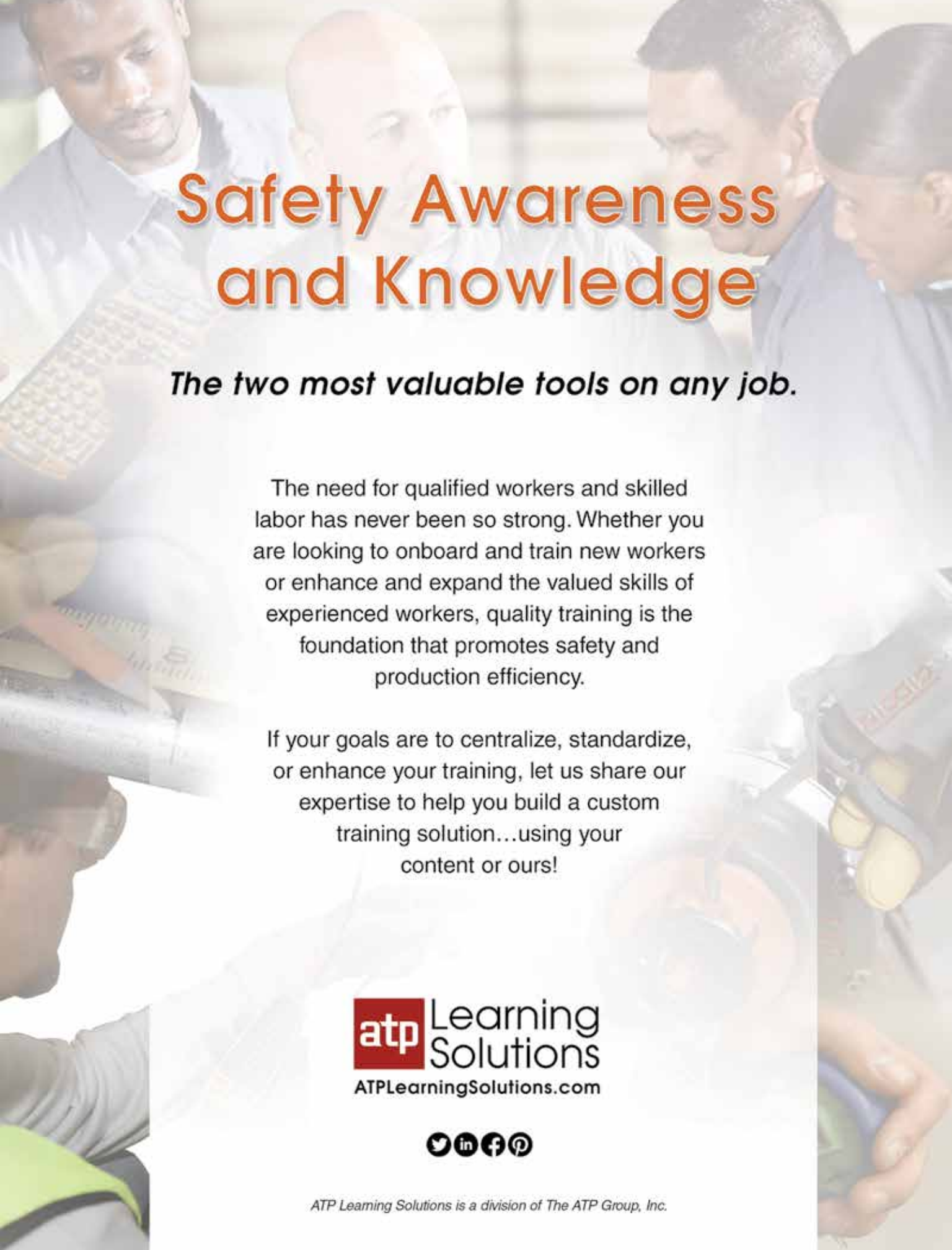
Model 5450 incorporates a unique new feature designed to prevent the auxiliary drain from filling beyond the safety level of the cabinet by automatically shedding condensation from the drum drip in small amounts. After a certain level of condensation has accumulated in the auxiliary drain, additional condensation will spill into a drain trap that is designed to allow it to drain from the system automatically without tripping the dry valve.

To learn more about the Model 5450 or the COLLECTANDRAIN line, or to find an AGF distributor near you, visit www.agfmfg.com.



About AGF Manufacturing, Inc.

For over 30 years, AGF Manufacturing has designed and produced innovative fire sprinkler products that provide an unprecedented combination of reliability, versatility and ease of use. AGF revolutionized the fire sprinkler industry with the Model 1000 TESTANDRAIN® single valve inspector's test, which eliminated the time and space consuming traditional loop



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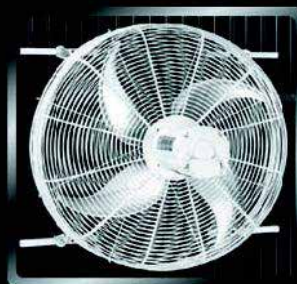
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assembly. Since then, AGF has introduced several unique products that accommodate the varying demands of the fire protection industry and help manage fire safety systems more efficiently, resulting in more reliable systems that save resources.

At AGF, we are continually working in the field to improve existing products and deliver innovative, reliable, and code compatible fire protection products for commercial and residential fire sprinkler systems worldwide. Our product line includes: PURGEN-VENT™, COLLECTANDRAIN®, CORRINSITE™, TESTANDRAIN®, RemoteTEST®, Inspector'sTEST™, RiserPACK™ and TESTANSAVE™. For additional information about AGF and our innovative line of fire protection products, please visit www.agfmfg.com. •

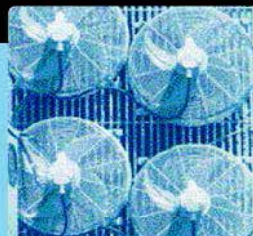
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Minimizing Underutilized Space in Corporate Offices Drives Demand for More Advanced Fire Detection Systems

Commercial property owners can cost effectively optimize safety with aspirating systems that continuously take in smoke at identifiable, concealable sample points

With real estate being one of its top expenses, many companies are seeking ways to maximize their office's square footage and leave less underutilized space. Of course, in 2020, these goals must be accomplished in a way that also considers new regulations and policies, like social distancing.

Optimizing space on individual floors or throughout an entire building may mean exceeding the architectural specifications on record. One way of addressing that is by installing a fire alarm system that allows for faster, earlier egress from the building or tenant floor in the event of a fire. To achieve that, fire protection engineers are often called upon to re-evaluate and potentially redesign the fire and life safety systems to meet NFPA 72 code requirements.

To re-evaluate the design, fire protection engineers must submit performance-based design proposals to

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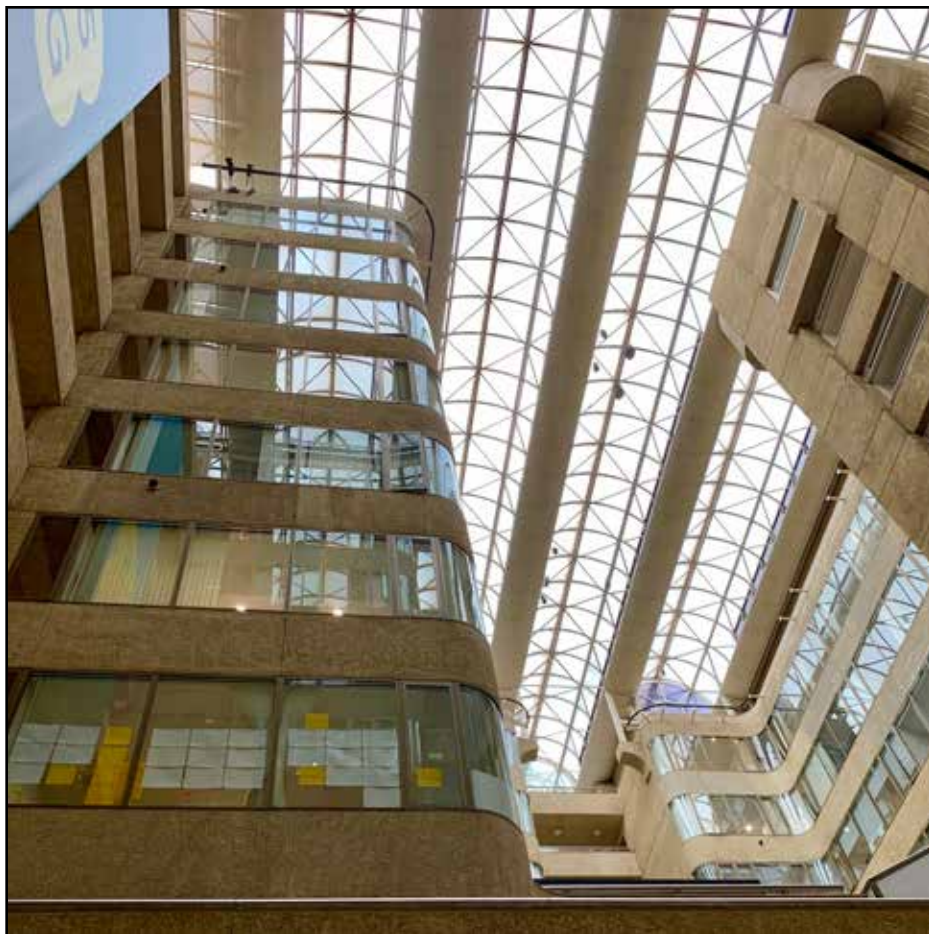
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help ensure occupants can safely exit the building within an acceptable timeframe. As an International Code Council (ICC) accepted alternative, performance-based designs allow engineers to apply “alternate materials and methods” that offer equivalent or superior fire safety performance.

“Life safety codes are designed to ensure everyone in the building can exit safely if a fire occurs,” says Bill Van Loan, President of Critical Systems, LLC, a Marietta, Ga.-based full-service fire alarm life safety and building security company owned by ADT Commercial. “If there are more people that have to exit the same sized doors and stairwells on the floor, then typically that requires even more advanced detection systems that can identify the exact location of the fire.”

As a low voltage systems integrator, Critical Systems handles life safety and security needs of commercial properties including fire alarms, emergency responder radio communications systems (ERRCS's), fire suppression, access control and security systems.

According to Van Loan, the amount of time the performance-based design approach allows for egress ultimately dictates retrofit requirements. While it is possible to install traditional addressable wired or wireless spot smoke detectors, it is now also possible to use addressable aspirating smoke detectors



that also allow firefighters to pinpoint the exact location of the fire.

Recently, Critical Systems completed a project involving four floors of a high-rise commercial building in Georgia. As part of the performance-based design to allow the tenant to increase occupancy beyond the architectural specifications, advanced aspirating smoke detection technology was specified for the project. For this, Van Loan says the company used eight VESDA VEA fire alarm system units manufactured by Xtralis, a global provider of very early detection solutions

“Building owners want early warning detection to help save lives, protect assets, and avoid extensive business downtime in case of fire. With early detection you can potentially put out the fire with an extinguisher before it escalates, and first responders

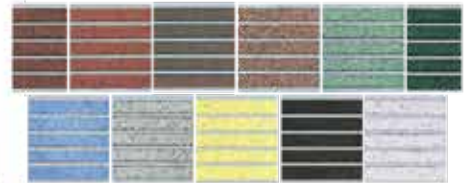


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will have an early start on the blaze if necessary," says Van Loan.

Aspirating technology was first introduced in the early 1980s. The latest VEA model consists of small, unobtrusive sample points that can identify smoke in each room. The air is analyzed using sophisticated laser-based technology at the central unit located within 300 feet.

As a multi-channel, addressable system, the central unit can pinpoint the exact location of the alarm up to 40 sample points and the central units can be extended to meet any size project.

The system has different sensitivity settings to suit a range of applications.

"We have used other products but lately are focusing on the VEA because of its unique capabilities with addressable point identification using individual tubes in detection ports. It makes it easy to get a better point ID location versus putting in a hard pipe system which tells us nothing about location," says Van Loan. "We want to drill down to that level of detection. The system allows us to pinpoint addressability all the way back to the main building fire alarm panel."

He notes how important such location information is when a fire occurs. "With a sprinkler system, you have no clue where the fire is on the floor so you have to take your chances and investigate what is going on, at which point the fire can grow out of control," he says.

"False alarms are a concern for traditional spot detectors, which can be set off by dust or dirt. A false alarm can be disruptive and expensive if you have to evacuate a high rise building with different tenants," says Van Loan.

The VESDA VEA clears the tubes of blockages or dust with a puff of air, creating a low probability of false alarms.



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Every seven days, the system will do a sample port test. On every third sample port test, it cleans, thus providing constant system monitoring.

Mandated annual National Fire Protection Association (NFPA) inspections are also simplified. As the VEA unit has a centralized detector and full integrity monitoring of the sampling tubes, annual smoke testing is conducted at the central unit, saving time and allowing smoke testing to be conducted without interrupting the protected area.

"The aspirating smoke system is easy to test. In a commercial building, you might have 100 conventional addressable, analog smoke detectors that you would have to test individually every year. That's a lot of work and can require entry into hard to reach, access-controlled areas," says Van Loan. "With the VEA, you can test from the central unit [which is usu-

ally placed in mechanical or electrical rooms] so you don't need special access, and the test can be done in 15 minutes."

For commercial properties that value aesthetics, the VEA sampling points are about the size of a quarter, making them inconspicuous to facility occupants and visitors.

"We generally use black, white, or stainless-steel sampling points. They blend in with the environment and are architecturally pleasing," says Van Loan.

With the four floors of the commercial building in Georgia successfully completed, Van Loan says that plans are underway to outfit another floor with the aspirating technology. When finished, this will account for about 27% of the building's total capacity.

Van Loan expects to install more aspirating technology systems in the future.

"We have been contacted to work on 10 to 12 of these types of projects in the last year, including one at a major university," says Van Loan. "The aspirating technology is an ideal solution in these situations because it provides much earlier warning and is easier to install and maintain over time than traditional spot smoke detection systems."

For more information, contact: Xtralis at 12 Clintonville Road, Northford, CT 06472; call: +1 800-229-4434, email: sales@xtralis.com; or visit: www.xtralis.com/vea •

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For this reason, the Government and companies are constantly looking for new ways to halt the global pandemic and to meet constantly changing conditions. WERMA Signaltechnik is making an important contribution to this: With the new CO2 traffic light, the current carbon dioxide (CO2) concentration in the ambient air can be measured and made visible. The three traffic light colors clearly show whether ventilation is necessary or not.

This avoids high concentrations of CO2 and aerosols in the ambient air of any offices and conference rooms, restaurants, shops, theatres, doctor's practices, universities, gyms and all other public buildings and reduces the risk of transmission of COVID-19 to a minimum.

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as increased infection and absence rates. In order to sustainably protect all persons staying indoors for a longer period of time from COVID-19 infection and other infectious diseases, it is necessary to ventilate regularly. Therefore, the Federal Environment Agency officially recommends ventilation from 1,000 ppm (ppm = parts per million, i.e. volume parts per million volume parts).

This is where WERMA's new CO₂ traffic light comes in: It continuously measures the current carbon dioxide concentration in the ambient air and shows precisely whether or when it is time for the next ventilation.

This is illustrated in a clear way with the help of the three common traffic light colors so that everyone easily understands:

If the CO₂ concentration is below 1,000 ppm, the traffic light is green, indicating that the air quality is OK.

If the CO₂ concentration exceeds 1,000 ppm, the traf-

fic light turns yellow and indicates that ventilation is recommended.

The red signal indicates that significant ventilation is necessary as the CO₂ concentration is above 2,000 ppm.

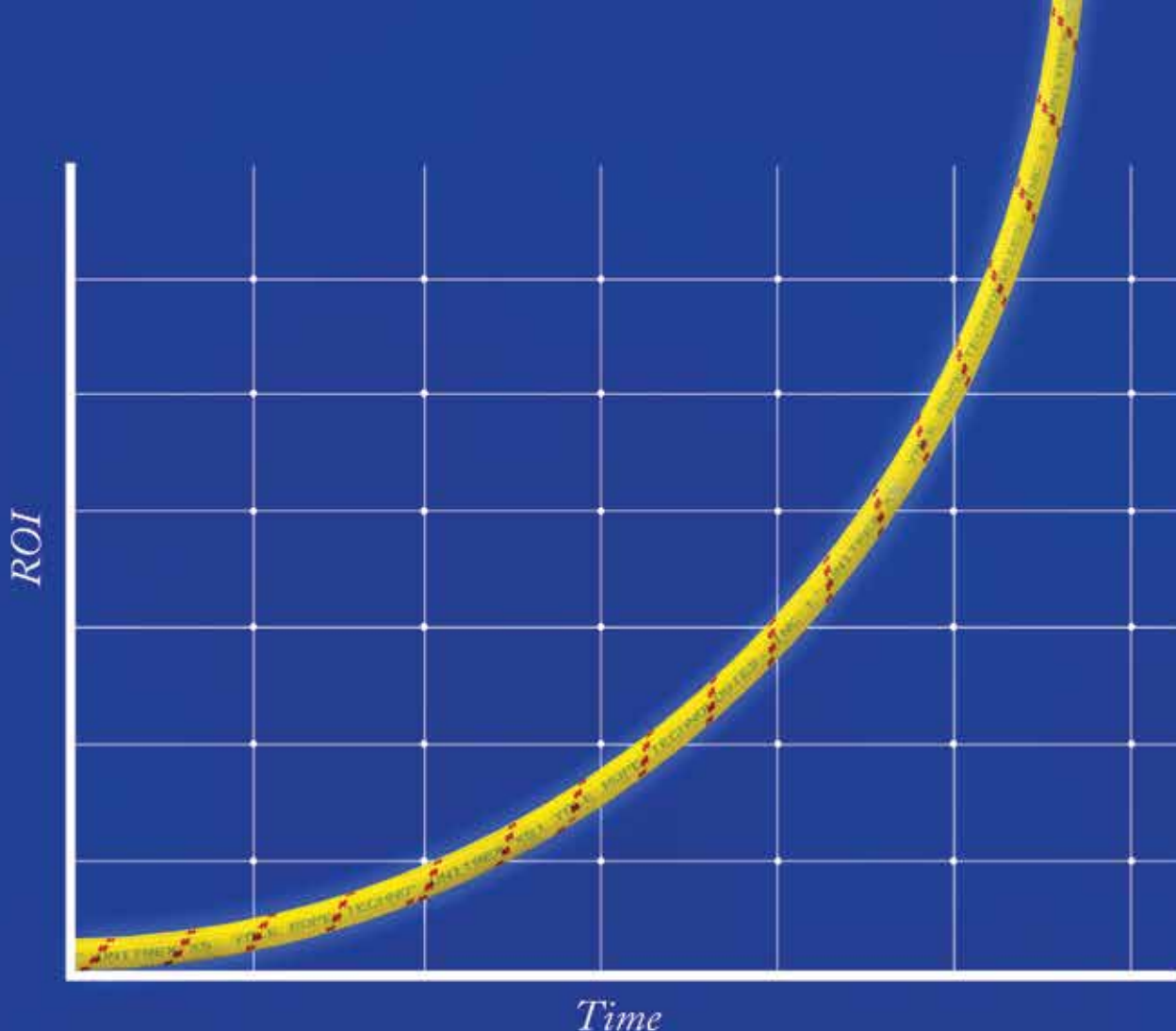
If the limit value of 3,000 ppm is exceeded, a red flashing light indicates the acute urgency of ventilation.

The WERMA CO₂ traffic light

WERMA's solution for CO₂ measurement in indoor air consists of a three-stage signal tower, which is immediately ready to use and very easy to install thanks to Plug & Play: Simply plug in the supplied power supply, wait until the self-calibration is completed and the traffic light is ready for use. The current CO₂ concentration in the ambient air is measured immediately and displayed using the three traffic light colors.

The traffic light is clear, easy to understand and does





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not require explanation. The signals are clearly visible from all sides thanks to the 360-degree illumination and the extremely bright LEDs guarantee that they are clearly visible even in direct sunlight and bright surroundings.

Ideally, the CO₂ traffic light is placed in the middle of the room, i.e. not too close to the window and not higher than 2 meters from the floor. Since carbon dioxide is distributed fairly evenly throughout the room, a traffic light is sufficient for most rooms. Two traffic lights are recommended in larger conference rooms or sports halls.

High air quality - more important than ever
Thanks to WERMA's CO₂ traffic lights, air quality in enclosed spaces can be improved in the long term, as high concentrations of carbon dioxide and aerosols in enclosed spaces are avoided through regular

and effective ventilation. This not only achieves a more hygienic, but also more productivity-friendly and better indoor air. „We are delighted that the CO₂ traffic light is not a short-term investment for public buildings, offices and universities,“ says Manuel Schutzbach from WERMA Technical Sales. „Because a low CO₂ content in the room not only protects against infection, but also improves the concentration and performance of all those present.“

Thanks to WERMA's new CO₂ traffic lights, this not only ensures the highest possible level of safety for employees, customers and visitors, but also promotes long-term productivity and performance.

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