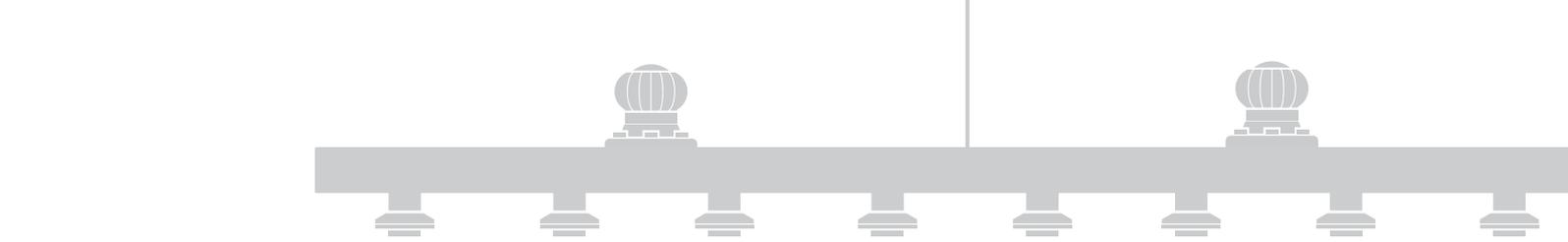




IS THE TEMPERATURE OF YOUR WORKPLACE AFFECTING YOUR
BUSINESS'S PRODUCTIVITY?



Office temperature is one of the famous workplace arguments. Whether it's between staff and management or staff and customers, keeping your building a temperature that's comfortable for everyone can seem impossible. However, comfort is not the only thing at stake...

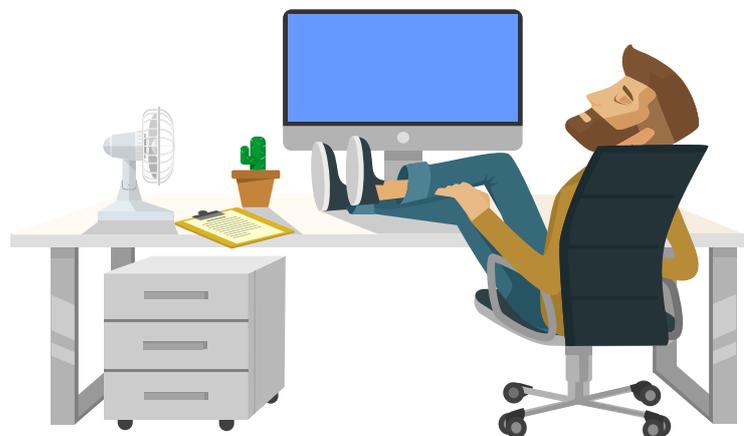
IMPACT ON WORKERS & PRODUCTIVITY

Studies have shown that workers in environments at higher temperatures than 30°C can suffer from heatstroke, migraines and, for strenuous work environments, even heat exhaustion. Absenteeism costs UK businesses around £36bn each year, and a portion of this is brought on, or exacerbated, by excessive workplace temperatures. High temperatures also greatly increase the risk of dehydration which has been shown to have a significant negative effect on both the quality and volume of work.

A 2014 survey showed 29% of employees spending 10-30 minutes not working every day due to uncomfortable office temperature, while 6% waste more than half an hour each day. A huge 80% of employees complain about the temperature of their office with more than half of offices considered too hot in summer.

A small difference in temperature can have a huge impact on productivity. At 33°C productivity drops by a huge 15%. The cost of running an air conditioning system a couple of degrees cooler usually pales in comparison to the cost of a 15% drop in productivity.

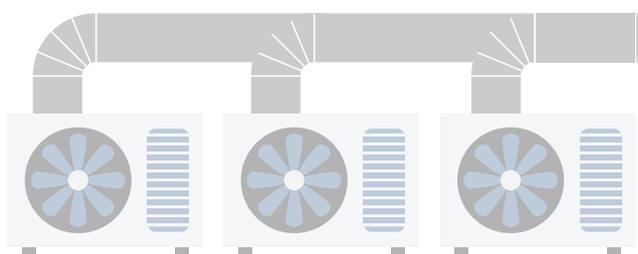
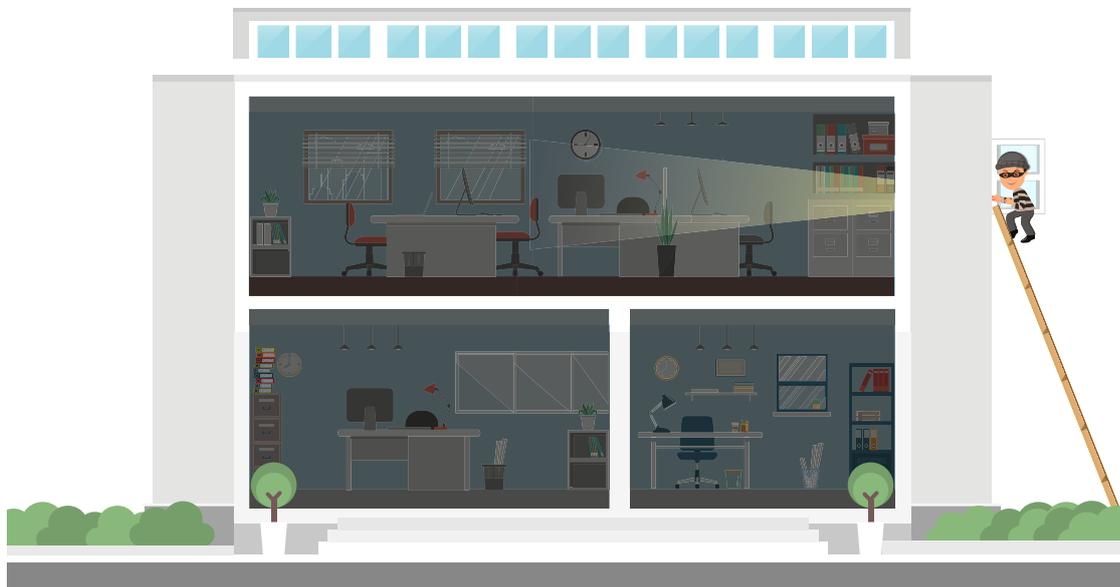
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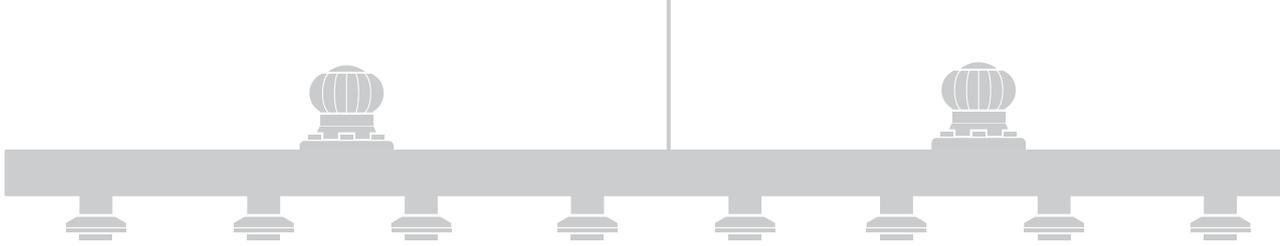


ADDITIONAL IMPACT

Beyond productivity, there are a number of issues and risks that an uncomfortable office can cause. Open windows and doors can create security as well as health and safety risks. Last year 31% of employees brought their own fans into work, but if they're not PAT tested, they could invalidate insurances in the event of fire or electrical fault.

Some businesses will rush out and buy inefficient consumer air conditioning units, place them wherever they will fit and run them on full power to try and gain a noticeable effect. These often noisy units will freeze and deafen nearby employees while doing nothing for those on the other side of the room, and their energy cost is usually disproportionate to their efficacy.



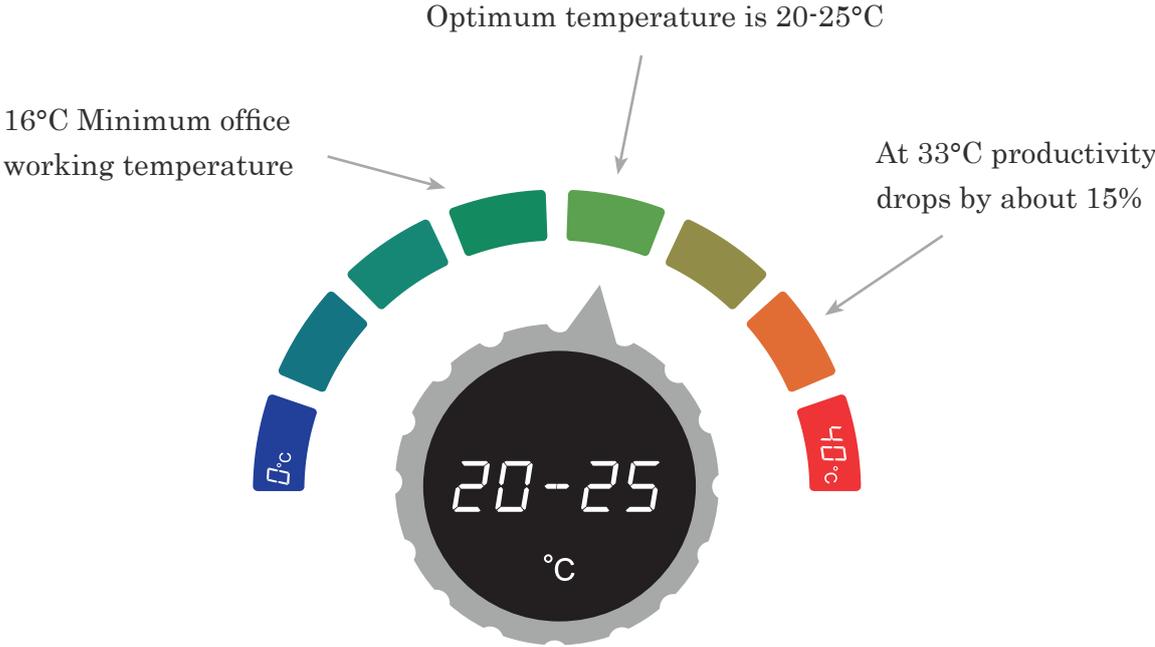


OPTIMUM TEMPERATURE RANGES

There is some disagreement about the ‘perfect’ working temperature with the Chartered Institute of Building Surveyors recommending 20°C, Cornell University recommending 25°C and Helsinki University splitting the difference claiming 22°C is the ideal. While these studies aren’t in perfect agreement, there is a general consensus that between 20°C and 25°C is the optimum temperature range for maximum productivity.

There are other environmental factors that feed into ensuring your office is a comfortable temperature, including humidity, draughts, hot spots and your employees themselves. Older members of staff may feel the cold more acutely, while younger staff may prefer a lower average temperature in summer. Gender has a proven influence as well with men less likely to feel too hot and women twice as likely to feel too cold. The composition of your workforce may have an impact on your optimum temperature range, so it’s worth factoring this in to any decision on a new air conditioning system.

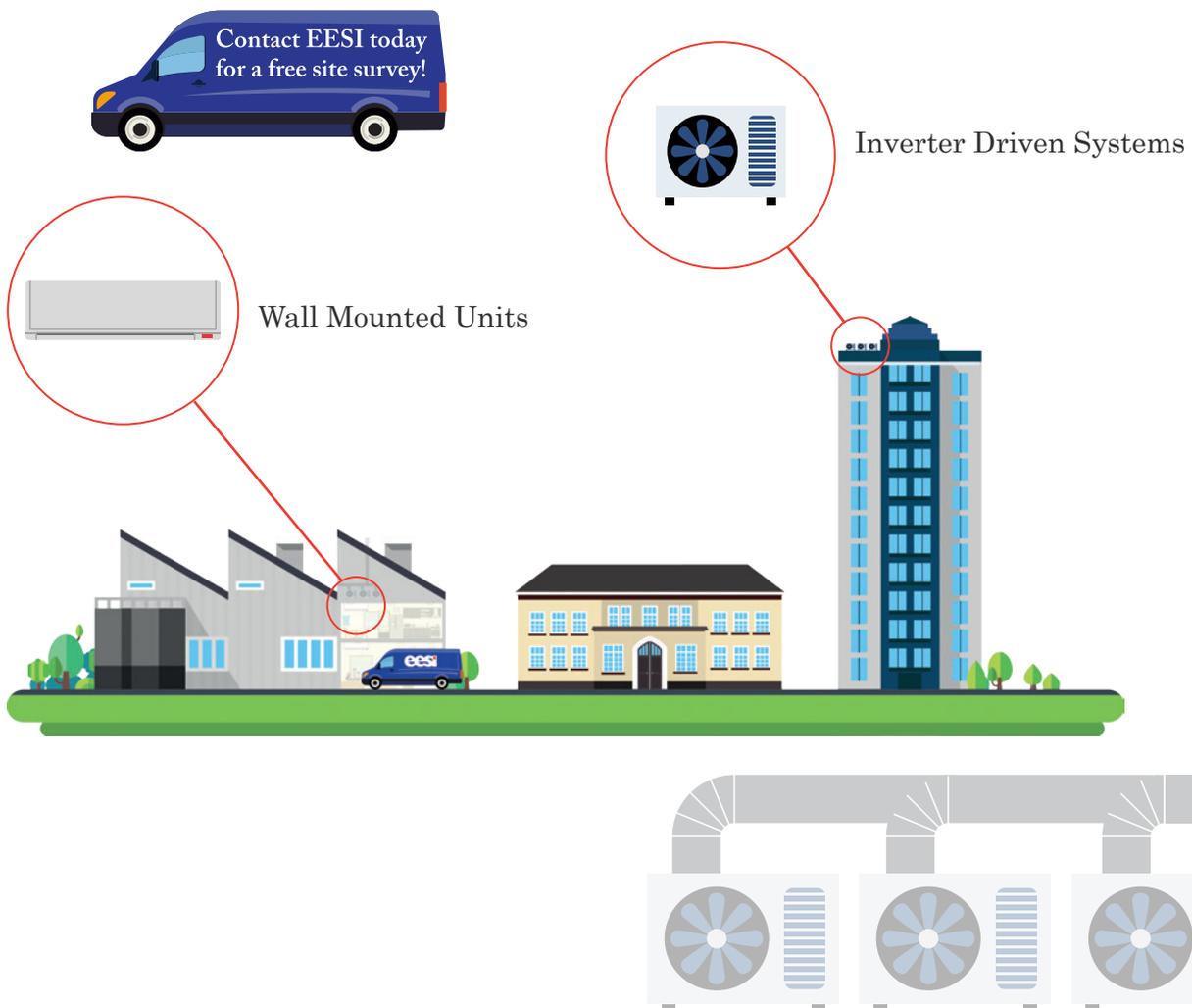
TEMPERATURE GUIDE



HOW TO CHOOSE/DESIGN AN AIR CONDITIONING SYSTEM?

There are many factors which influence how an effective air conditioning system must be designed, including building shape, natural airflow and radiant temperature. Good air conditioning design takes into account all aspects of the existing environment and delivers a constant temperature across the entire building. There are many technologies that can be utilised, such as inverter driven fans and in-built sensors to detect and respond to changing temperatures.

One of the more important considerations is correctly sizing your air conditioning system. It sounds obvious, but too big and you'll struggle to run efficiently, too small and you won't feel the benefit. Correctly sizing a system requires a number of factors to be considered, including the quality of your building's insulation. Newer, better insulated buildings will complement smaller, more efficient units, while older buildings may struggle to keep to temperature without larger units.



SMART CONTROLS

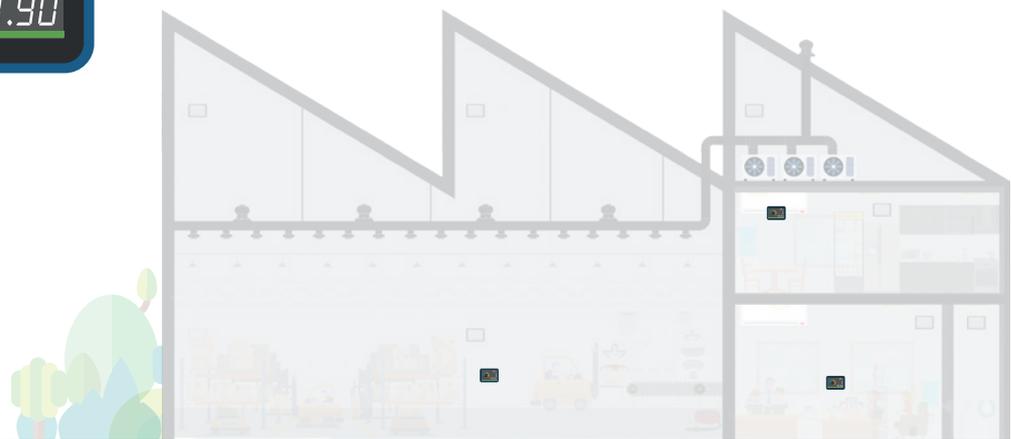
One of the most significant recent developments in building ergonomics is Smart Building Controls. These controls allow you to automate and control all your buildings systems, including air conditioning, heating, security and lighting, from a centralised system. Your building can be controlled by a computer program, by touch-screens located around a building or even by a mobile app.

Smart building controls give unprecedented control, allowing you to manage temperature, expenditure and energy use. They allow effective zoning of air conditioning so that various areas of your building can be set to specific temperatures to account for individual preference as well as environmental factors like radiant heat.



TEMPERATURE CONTROLLED BUILDING

Using touch-screen smart controls located around a building can help you to easily regulate building or room temperature and potentially increase staff productivity.





Why EESI Cool?

EESI Group Services are electrical and mechanical building systems specialists, with particular expertise in air conditioning, HVAC, electrical, lighting, plumbing and facilities management.

With an exemplary track record delivering solutions for clients large and small, across a diverse range of industries, EESI have an impressive portfolio, boasting names like Muller, English Heritage, Spirax Sarco, Essilor, Ecclesiastical Insurance and more. It's through core values like quality, reliability and continuity of staff that EESI has been able to develop an excellent reputation for customer service and delivering efficient solutions using high quality components and the latest technologies.

EESI Cool, our specialist air conditioning division, have been designing, installing, maintaining and repairing air conditioning systems for decades. Our expert air conditioning team have the expertise and experience to design an air conditioning solution, integrating the latest technologies, that creates a comfortable, productive environment for staff.

We can conduct a free site survey to see what types of solutions would work for your building and work to your exact requirements. We don't deal in one-size-fits-all systems, when we know that a bespoke solution will be more effective, more efficient and easier to maintain.

EESI Cool is a Toshiba T7 partner and offer a seven year warranty with new installations to give you peace of mind that your system will provide effective cooling for many years.

Contact EESI Cool today for a free site survey, and one of our expert engineers will evaluate your existing system and make recommendations based on your requirements and budget to ensure your workforce is as efficient as possible.

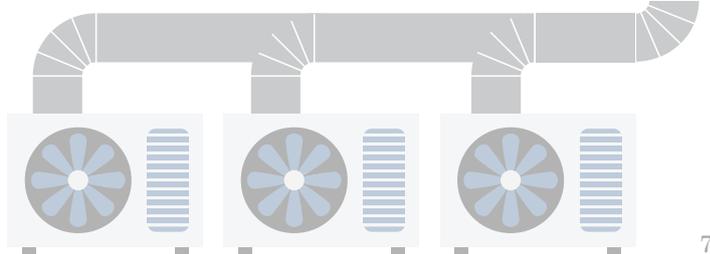
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