Options for Poultry tube heater delivers direct warmth where you need it most

Space-Ray has introduced a new series of straight tube brooders to their line of time-tested quality products. spaceray.com

The Fusion is a top quality 20ft straight tube brooder that features affordability, efficiency and durability fused into one.

Full touch screen solution for poultry house control

The AC56 from DACS is a powerful touch screen solution for optimising climate and production control in poultry houses to enable farmers to optimise even more on climate and production. dacs.dk

Full scale tests conducted show that the AC56 enables farmers to cut heat consumption in a standard poultry house by 30% – simply via new software solutions that determine the ‘dehumidification potential’ on the basis of inside and outside climatic conditions.

This ensures a much gentler and more energy efficient ventilation process. The AC56 keeps track of all parameters and users for an indefinite period of time. The screen menu can be defined specifically to the needs of each person allowed access, so unskilled persons will never be able to enter menus where critical parameters can be adjusted.

The AC56 is extremely powerful and designed to run any type of ventilation system for poultry production.

Via the ACSnet management system any AC56 climate and production controller can be accessed via the internet. From here all parameters can be adjusted.

Complete line of products for environmental control

Chore-Time offers poultry producers a full line of products for environmental control of poultry houses. Producers can take control of all their environmental control needs and more with Chore-Time’s recently updated Chore-Tronics 3 Whole House Controller.

choretim.com

Enhanced features include control of drinker line water columns, zoned sprinklers and multiple variable-speed fans. Chore-Time has also added a Mobile App and an optional Broadcaster Alert System.

For air movement and heating, Chore-Time offers its Cubo Air Destratifying System, which comes with or without heat. The Cubo System circulates air downward within a building and distributes it at bird level. This improves litter condition, eliminates stir fans and promotes more even bird distribution because of uniform temperatures throughout the house.

Chore-Time also offers traditional brooders and heaters for reliable, efficient heat distribution with patented features and sturdy construction and their Quadratherm Heater outputs a house-shaped pattern of infrared heat for greater heating consistency and efficiency.

Chore-Time’s complete line of fans and shutters includes its 145cm Endura Fan with Hyflo Shutter. This combines high airflow and energy efficiency with corrosion-resistant materials for long-lasting, high performance.

The fan’s Hyflo Shutter is designed to further improve fan output and efficiency by minimising obstructions during fan operation.

The all-in-one poultry light meter improves animal welfare

The only all-in-one poultry light meter on the market, HATO ONE, is a must-have for every poultry specialist who aims to improve animal welfare and performance. It has been developed by Hato in response to high demand and has the ability to measure, analyse and improve.

hato.one

Measure: The HATO ONE is able to measure every aspect of light that matters for poultry. Light intensity, light spectrum, CCT, CRI and so on.

Analyse: The HATO ONE enables basic analysis via the HATO ONE App or the device itself and elaborate analysis via excel. It is possible to compare the measured results of a lamp with those of another lamp and the needs of poultry and human beings.

In addition, a whole house can be analysed by means of an excel export. Light distribution, uniformity, light average and more can be automatically calculated to give the user a complete picture of the lighting performances of the house.

Improve: After analysing all data, the user will be able to start identifying the lighting-related problem areas. By improving these areas, animal welfare will increase and, consequently, results will improve.
New shutter opening system offers more advantages

The patent pending shutter opening system of Termotecnica Pericoli’s new EOC56 offers an innovative air inlet with automatic depression opening system.

The particular air inlet integrated with the cone fan is characterised by a system of opposed opening shutters that offers the customer more advantages compared to a conventional one.

So, how does the new opening system work?

It is necessary to distinguish two types of shutters: some tend to close thanks to their weight, while others open and close by rotating in the opposite direction.

The combination of these types of shutters creates a balanced opening mechanism, which Termotecnica Pericoli have called Internal Butterflies Opening System (IBOS).

The main advantages include:

- Less risk of blockage due to dirt: A geared drive system is subject to jamming due to possible dirt deposits in the grooves of the teeth. The IBOS does not use any type of gear and it is more reliable, especially if used in very dusty environments, such as poultry farms.
- Perfect closure: The internal control mechanism without gears allows a slight mismatch between the two types of flaps during closure in order to ensure a perfect closure.
- Friction reduction: Greater fluidity of movement is obtained by the lower friction that develops when the inlet is working. This allows the mechanism to work even with a minimum operating force and without the use of servomotors, but only thanks to the air speed.
- Reduced load losses: Thanks to the minimum effort to open the inlet compared to other systems on the market, the shutter design with reduced aerodynamic lift and the particular spacing between them, pressure drops and resistance to the passage of the air are significantly reduced. This results in greater fan efficiency.
- Money saving: When compared to systems with opposed fins with gear mechanisms, this is cheaper.
- Easy maintenance: The particular spacing between the shutters creates a larger intervention space for maintenance inside the fan.

Environmental hygiene management made easy

In poultry houses, high humidity and ammonia emissions are strongly correlated. After two weeks with broilers, it is common to observe a wet crust on top of the litter due to the faeces.

This anaerobic environment is favourable to the development of many pathogens and is the main cause of foot pad dermatitis. Moreover, ammonia (NH3) emissions arise from the reduction of ammonium (NH4+). This reaction happens exponentially when the litter pH increases during the flock’s lifetime. From 6.5, the pH can rise up to 8.5 in a few weeks due to the anaerobic cake on the litter.

Over 20ppm of NH3, stress and respiratory irritation can be recorded with a high risk of infection and mortality increases. The feed conversion ratio (FCR) is also depreciated.

Therefore, environmental hygiene in facilities must be managed carefully with a good litter and atmosphere to maximise performance.

To address this significant problem, Olmix designed MBroiler. Thanks to its hygroscopic acidifying nucleus and its absorbing capacity, this pellet first reduces foot pad dermatitis by absorbing the humidity of the crusted litter.

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For more details please contact Sally Walker

www.positiveaction.co.uk
Cooling, humidifying, and dust binding in the poultry house

Lubing specialise in developing and manufacturing climate systems for poultry. Their Top Climate System has been developed for effective humidifying, cooling and dust binding of the house air. It works according to the principle of direct evaporative cooling.

Through high pressure nozzles water is injected into the house air with a pressure of 70 bar as fog. The fog evaporates immediately and causes the cooling of the house air by extracting heat.

The maximum cooling effect is reached by the very small water particle size of 5 µm, due to the high pressure and the 0.2mm hole in the nozzle. The system cooperates successfully with any kind of climate computer and can be used with every ventilation system.

EcoVario HR is an acid resistant stainless steel pump unit which has an automatic speed regulator (frequency 6-60Hz). The pump can adjust the needed capacity automatically to the required volume of water.

As a poultry manager, you can react to your birds’ needs much more individually. Each lamp is equipped with an integrated microcontroller. This controller fulfills multiple functions: it monitors the lamp’s temperature and records the operating hours, for example.

Customers may select from different optics, for example clear glass for high ceilings, milk glass for a wide beam angle without dazzle effect or a lens disk for especially even homogeneous illumination.

The ideal lighting concept for your poultry house

With Big Dutchman’s efficient ZeusLED ceiling lamp you can easily create the perfect lighting concept for your poultry house. The LED lamp is of a high quality, meets the needs of your birds and is able to withstand the specific conditions in the barn. This guarantees an even illumination of the entire house.

The lamp’s main features include:
- Significant energy savings of up to 50% compared to conventional moisture-proof lamps.
- Use of brand LEDs.
- Long service life.
- Low maintenance requirements.
- Dimming from 0-100%.
- Zero flickering even at low light intensities.
- Wide optical spectrum from warm white to cool white, infinitely variable.
- Two-channel moisture-proof lamp to simulate sunrise and sunset.
- Optimum cooling up to an ambient temperature of 50°C thanks to a rugged aluminium housing with an exterior heat sink.
- Modular design consisting of a power supply unit, an LED driver and LED lamps.
- DLG certification (test report 6815) regarding ammonia resistance and use of a high-pressure cleaner.
- Can be installed at walls, ceilings and sandwich panels or mounted to tubes.

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The control of mycotoxins will be the theme of a one day technical conference hosted by:

The full programme will be published soon www.positiveaction.co.uk

12th March Bangkok, Thailand
(DAY BEFORE VIV ASIA)
Durable ventilation to keep your operation running smoothly

You need durable ventilation when raising poultry and Val-Co has durable fans to keep your operation running. Their Z-Fan is the next big thing in rust-resistant ventilation. It is coated with a unique alloy compound, which is more durable than galvanised steel.

During a salt spray test, the Z-Fan housing and cone showed no signs of rust after 2,500 hours. Z-Fans are available in the following models: 36” slant wall, 48” damper, 54” slant wall, and 54” damper, with the option of a galvanised blade or aluminium blade on most models.

If you are looking for a durable circulation fan, their 36” Box Z-Fan comes with a seven year warranty when used in poultry operations. For the upcoming cold season, their newest brooder, the Aurora IR, is just under 11” and is designed to help growers get vehicles through their houses between flocks, without getting in the way.

At the same time, the Aurora IR Brooder uses infrared heating technology to quickly and efficiently warm the chicks and floor rather than wasting heat on the air that rises above the brooding area. It is also available in a high pressure model, which uses a smaller supply pipe to help reduce cost, with aluminium or galvanised canopies.

Energy efficient fan technologies with best in class performance

Axial fans within Vostermans’ Multifan range are well known for consistent high quality, durability and longevity. With the introduction of ECplus and Vplus technology, the company is addressing the need for more energy efficient fans.

The ECplus technology, with Intelligent Fan Drive, is characterised by significant energy savings combined with reliability under the harsh conditions experienced in the livestock industry. The fan and speed controller are resistant in the most corrosive environments. After all, loss of ventilation in a livestock house can lead to disastrous consequences. In case the controller fails, for example by lightning, the ECplus has an optional override switch. ECplus fans can easily be used in existing and new houses.

Vostermans’ Vplus fans, with a permanent magnet motor and Multifan Fan Drive for adjusting the speed, are the answer to the energy challenge.

The CFM/Watt efficiency numbers are objectively measured by the University of Illinois BESS Lab (unbiased source of performance data for ventilation fans), and results show that Vplus fans rank amongst the highest in terms of airflow performance/efficiency and airflow ratio.

Easier, smarter and greener poultry farming

Greengage uses patented induction power and the science of light to make poultry farming easier, smarter and greener.

It is easier because ALIS lights quickly clip-on to the cabling and lamp failure after washdowns should be zero or minimal. It is smarter because scientific and commercial trials have shown reductions in mortality with improvements in welfare. It is greener because each ALIS Barn Lamp consumes just 10Watts and the entire platform has a very efficient power factor (0.95).

ALIS Barn Lamps replace ALIS 8W and 11W lights. The ALIS Blue Lamp is designed to create calming conditions in poultry sheds for the catching phase.
Mastering air control for better health and performance

Broiler health and performance strongly depends on the quality of the air in the house. A healthy climate is created by controlling the air flow inside the poultry house and bringing fresh air with the right temperature at bird level.

Vencomatic’s ECO unit design allows you to optimally control the climate in your poultry house in all weather conditions with minimal energy use and superior air quality. vencomaticgroup.com

The ECO unit is a complete Clima Unit. In cold conditions it is a heat exchanger that uses warm air from inside the house to heat up fresh air from outside. It achieves a thermal efficiency of 80%.

In warm conditions water can be sprayed within the unit on the outgoing air, which causes evaporative cooling of the outgoing air. This also causes the ingoing air to cool considerably – over 13°C – without an increase in absolute humidity. Pre-heated or pre-cooled air is brought directly into the broiler house and projected towards the roof, where circulation fans spread the air throughout the house. This ensures an even temperature and uniform climate throughout the entire house.

Intelligent software governs this technology and allows you to realise substantial savings in heating costs and reduction in environmental emissions (such as ammonia, fine dust and CO₂ emission). With the ECO unit you create a perfect and constant climate in the house for optimal bird performance.

Optimal fresh air distribution in your free range poultry house

Fortica FreeFlow is a complete ventilation system for free range houses with pop hole doors. hotaco-agri.com

It is the solution for three relevant problems experienced by poultry farmers:

- Condensation on the litter at pop hole doors.
- A strong air stream at the pop hole doors when they are opened, which can reduce animal productivity.

Fortica FreeFlow runs on a positive pressure ventilation method when the pop hole doors are open. If local environmental requirements do not allow multiple exhaust points, it can also run on an equal pressure method. In both situations the advantages for the farmer are evident – no condensation on the litter and no strong airflow at the pop hole doors. This means animal performance remains optimal and less diseases occur.

This ventilation system is controlled by the Fortica automation system and it is possible to control and operate the Fortica via a smartphone, wherever the poultry farmer is. The ForticaApp gives you complete control over every process, so the poultry farmers can run their business in the best possible way.

Tried and tested lighting systems – the choice is simple

The major benefit of good lighting is that it leads to better bird performance results. The more efficient your lighting and the less maintenance your system requires, the greater the impact on your bottom line. The Sunbird system is tried, tested and trusted globally for its unrivalled reliability, efficiency and lifespan. sunbirdled.com

The complete Sunbird system is designed and manufactured at the company’s factory in South Africa from where they distribute all over the world. Their team have researched, developed and built every aspect of the Sunbird system to standards that provide customers with the best possible lighting solution for their business.

From only $1 per m² for a 40 Lux broiler house complete with full dimming control, over 100,000-hour lifespan and less than 0.3W per m² power consumption, the choice really is simple. This is the reason why so many of the largest global poultry producers insist on using Sunbird for their operations.

Innovative climate controls to suit your needs

Founded in 1988, Agrologic specialises in the manufacturing and marketing of top automatic climate controllers, feed weighing systems, bird weighing systems, egg counting and sensors. agrologic.com

Selling in more than 80 countries worldwide, Agrologic is a global leader and pioneer in the field of innovative and advanced climate control systems, which are all very user friendly and affordable. Along with their complete end to end after sales service and support, they can make your work easier and more efficient.

environmental control