AgriFarmControl
The modules

AgriVent

AgriVent offers a wide variety of functions to regulate the climate in pig and poultry houses. The system is scalable to control up to two compartments and an entrance area in a piggery, or an entire poultry house. For every compartment/animal house it is possible to evaluate the temperature, air humidity, negative pressure, CO_2 and NH_3 levels so as to match the ventilation, heating, inlet air and exhaust air to one another in an optimum way. A climate curve adapts all the parameters to the respective age of the animals. Another useful function is the distinction between different operating modes. This allows the farmer to decide himself between varying the parameters manually or having them adjusted automatically. It is also possible to heat the compartments automatically or even to reduce the energy consumption to a minimum in the "unoccupied" operating mode.

AgriFeed

AgriFeed was developed for use in animal husbandry plants in the pig and poultry sectors. The module has the corresponding feeding functions that ensure an optimum supply of feed to the animals. An overview of feed costs is maintained at the same time, and the operating result is improved. **AgriFeed** manages feeding curves that match the amounts of feed to the age of the animals in an optimum way, and enables various types of feed to be blended. The system can also order feed automatically. The "eat empty" function also ensures that the animals arrive at the slaughterhouse fasting. This function saves the farmer a lot of work – without it the farmer would have to adjust various settings several times on the spot. The system is rounded off with accurate water control and comprehensive data recording.

AgriWeight

AgriWeight works on the basis of special practice-proven weighing formulae and guarantees a reliable weighing result. It involves the animals weighing themselves – voluntarily, stress-free and at any time of day. Among other things, **AgriWeight** determines the average weight, uniformity and the daily weight gain of the fl ock. With the aid of a target-weight curve, the actual/target weight comparison shows the farmer at a glance whether the animals are developing well. Data exchange between **AgriWeight**, AgriFeed and AgriVent is another advantage of the system. For example, it allows ventilation to be adjusted accurately to the weight of the animals. If necessary, **AgriWeight** can report the weight of the animals to the slaughterhouse automatically by E-mail on a specified day, which assists a smooth planning process. In addition, useful graphs such as the growth curve or Gaussian normal distribution illustrate the development of the animals in a very simple way. All relevant values are recorded regularly.

We build solutions.

AgriSun

AgriSun is a tool developed specifically for poultry keeping. It supports all kinds of dimmable lighting, such as energy-saving lamps for keeping layers or LED lighting for fattening broilers. As a result of its ability to control various different light levels per day, **AgriSun** is particularly suitable for keeping parent animals and layers. For example, sunrise or sunset can be simulated exactly. In addition, for fattening broilers, an individual lighting program can be specified for the entire fattening period. When the animals have "learned" the lighting program, they accept the transition into the dark phase in an optimum way. This promotes a stress-free metabolism which decisively improves the feed conversion ratio. Well-balanced animals show optimum uniformity, fewer losses and fewer rejects – i.e. create a distinct increase in the wellbeing of the flock. A graphical analysis shows the exact profile of the lighting intensity, thus enabling the settings of the light phases to be monitored and optimised at any time.

AgriCool

AgriCool was developed to meet the needs of animal protection even on hot summer days, and to provide an optimum climate for the animals. The system evaporates water, as a result of which heat energy is extracted from the air, thus generating a cooling effect on the ambient air in the animal housing. **AgriCool** can also be used to increase the air humidity. This is especially important for young birds, and increases the animals' wellbeing. The functions of cooling, dust binding/ dampening and cleaning are available with **AgriCool**. The spray-cooling plant can also be used to nebulise enzymes. If **AgriCool** is used for cleaning, for example, all the air inlet flaps are closed automatically and the moisture remains in the animal housing as a result of the automatic ventilator control. This increases the effectiveness of cleaning and saves costs, because less water needs to be used. **AgriCool** can be used for high-pressure nebulising, as well as for pad cooling systems and rotation coolers.

AgriEnergy

Complicated tariff models, new technologies and many different financing options turn the energy question into a complex, unmanageable topic. This is why we constantly face new challenges posed by changes in energy policy and continually changing energy markets. **AgriEnergy** is a tool that firstly indicates the energy consumption and secondly helps, through power reduction, to avoid exceeding a pre-specified level. By allocating different priorities to each energy-consuming device in advance, specified motors can be prevented from being switched on at times of high consumption, so as to avoid power peaks. For example the feed lines can be switched off temporarily just when the ventilation has switched on. The system also avoids switching on several motors simultaneously, which also contributes to reducing power peaks. **AgriEnergy** can also manage the electricity generated by additional energy sources, e.g. biogas or photovoltaic plants, thus increasing the proportion of self-generated power that is used.

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Your future requirements

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We build solutions.