

New standard in housing for broiler production introduced in Romania. A standard which makes Eastern European chicken producers competitive globally!

Timely and steady caretaking is essential to efficiency and profitability in any agricultural production where ever in the world it is carried out. That can be achieved by computer controlled management systems which has an eye on the production at any time during the growth period. An eye which is still awake when the human eye tend to flicker.

The new technology is created by introducing an efficient housing standard by using all steel houses with a high insulation standard, combined with a—state of the art— computerized control of climate, feed supply and water consumption.

Everything surveyed and monitored for quick intervention in case of alarming developments in the production.



Picture: It is easy to hold a 1 day old chicken and feel good about that. Only technology can take equally care of batches of 40.000 chicken.

Eastern European agriculture need new standards to provide high quality food at competitive prices for the consumers.

Agrimex has the answer to that challenge



Picture: A flock spread equally over the entire surface tells its own story about the efficiency of the climate control in the houses.

In the end of 2004 Mr Bodea, Georghe—Manager and founder of S.C. Ave Impex SRL in Satu Mare—Romania (One of the top 5 chicken slaughterhouses of Romania), decided to establish a separate company. The new company—Avicola Apa—should invest in a Greenfield project consisting of 2 chicken houses with Danish technology and up to date western standards.

Ave Impex SRL was already running several farms with traditional Romanian technology.

After having finished the investment where Agrimex had the Turn Key Contract the production already by the first batch showed its convincing performance.

Mr Bodea had prior to his decision of investment visited Denmark—he wanted to see for himself what made the difference between Romanian and Danish production standards. It was a surprise to him to see one person be the only one to take care of even more houses during the growth period. Also the fact that by having 8,4 batches per house per year (352 kg chicken produced / m² /year) the performance shows convincing results.

The investment—Avicola Apa—in Odoreu, Jud. Satu Mare has the following characteristics:

- 2 All-steel Houses of each 2000 M² = 4000 M² in total
- Efficient climate control by neutral pressure ventilation with air nozzles to direct the incoming air down amongst the birds.
- Automatic wood pellet burner for heat supply
- Evaporative air cooling system for efficient cooling
- Hi-Lo pan feeding and cup drinkers
- All system surveyed by computerized control board.



Picture: To use grain or wood pellets as fuel for heating purpose reduces the fuel cost per batch from 3000 EUR to 1000 EUR. More than 15.000 EUR saved / year / house !!

To implement new technology in a farming tradition—takes much more than just to buy the equipment. It takes readiness for changes! Agrimex is an experienced partner in changes



Picture: 2 chicken houses in Odoreu, Romania (100 x 20 metres) - ready to produce high quality broilers.

Making the investment in the 2 new chicken houses was only half the way to the new technology and increased productivity.

General Manager—Mr Trandafir, Vasile—can confirm how much it takes from all involved parties in a production to adapt to fully utilize the new technology.

Obtaining the full outcome from investments in new technology takes personal readiness to accept changes—and an open minded attitude to learning.

Steel—bolts and nuts does not make a success alone. Chicken production is about timely caretaking!

The below pictures show how we chose to put the technical solutions together, to optimize the investment to climate and other local conditions



33 trusses with a free span of 20 Meters. 3,05 Meter between each truss.



All steel construction, - trusses, purlins, columns and sheets.



A 200 mm layer of $\lambda 37$ insulation material.



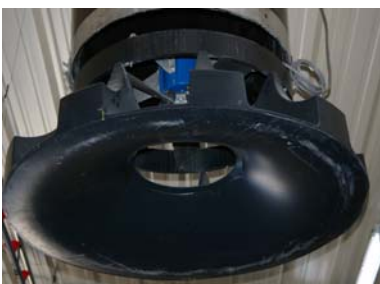
The 2 houses are build parallel to each other with a distance of 6 Meters.



3 feed bins makes it easy to change feed recipes during the growth period



18 ventilation inlet chimneys and 12 outlet chimneys secures a capacity of 200.000 M³/h



The specially designed inlet air nozzles of the ventilation system gives the right airflow. The nozzle is a registered design in the name of DACS A/S in Denmark



The 400 Kw fully automatic stoker boiler from Dalessandro in Italy makes sure that both buildings can be heated to 35°C at a humidity level of 85% at the same time.



The spray cooling system can decrease the indoor temperature from 7 to 9°C in hot summers.



The water injection by high pressure nozzles creates a fog which by the inlet air is distributed and cools the house.



There are 3 feed lines and 4 water lines in the houses



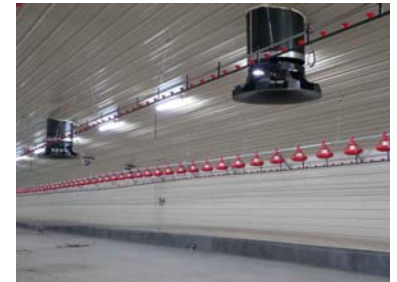
Feed lines have pans of the Hi-Lo type, - which makes them optimal for both small and bigger chicken.



The feed pans are filled automatically by a screw auger in the horizontal feed pipe



The cup-drinkers makes sure that the 1 day old chicken starts to drink right away.



All 7 feed and water lines can be winched up for easy access to chicken and cleaning.



The winching of feed and water lines is driven by electronic winches.



The computerized control board oversees everything and can send alarms by SMS and internet for security.



Finally the houses are ready to populate with the first 41.500 new 1 day old chicken.



35 days in difference from the picture to the left and the one to the right. Give 7 days for cleaning—and at day No 42 a new batch can be started

