Complete solutions for poultry houses



INNOVATION | QUALITY | PASSION

ALKE TOTAL CONFORT

Heating & Poultry Technology

WE ARE **ALKE GROUP**

”Transparent trade, long friendship”.

At Alke, we are committed to provide our experience and innovative strength, constantly evolving to meet the changes in the industry field. Our successful partnerships reflects our commitment to excellence, innovation and sustainability, resulting in successfull collaborations that bring mutual value.

We pride ourselves on contributing to our partners' success by turning opportunities into results and building a prosperous future together.

Owner at Alke Group

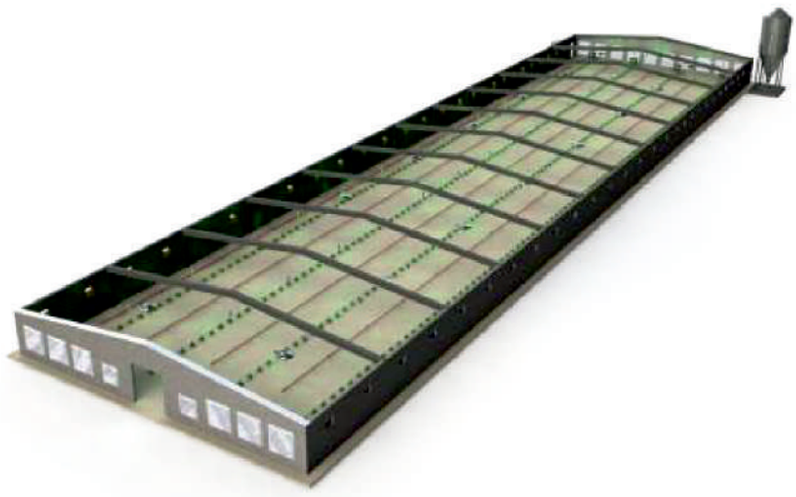


Alke is a privately owned company that has been founded in July 1974 by Mr. van Alphen and Mr Keurhorst. The name Alke is formed from the first two letters of their last names: AL and KE.

In the early 80s, the sons of the owners (Adri and Derk Jan) came into the company. They started working in factory, learning the manufacturing and assembly processes "from the ground up".

In 2004, an old factory building in Brasov has been purchased with a total of 5300m2 floor surface. The building required a renovation process which took more than a year. In the spring of 2005, the production department was operational and started with the manufacturing of semi-finished Alke products. These parts are shipped to the Dutch Alke factory where the parts get assembled into finished products.

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ALKE **SILO**



Alke Agro silos are made of corrugated sheets of galvanized steel, resistant to tension, with a coverage degree of at least 350 grams of zinc per m2.
They are recommended for temporary storage of feed, for a period of 5-7 days.

Durability and easy maintenance

- High corrosion protection
- Firm connections and good tightness
- Staircase with protective rings that provides safety
- High quality metallic sheets offer corrosion protection
- Solid construction, easy assembly and almost non-existent maintenance









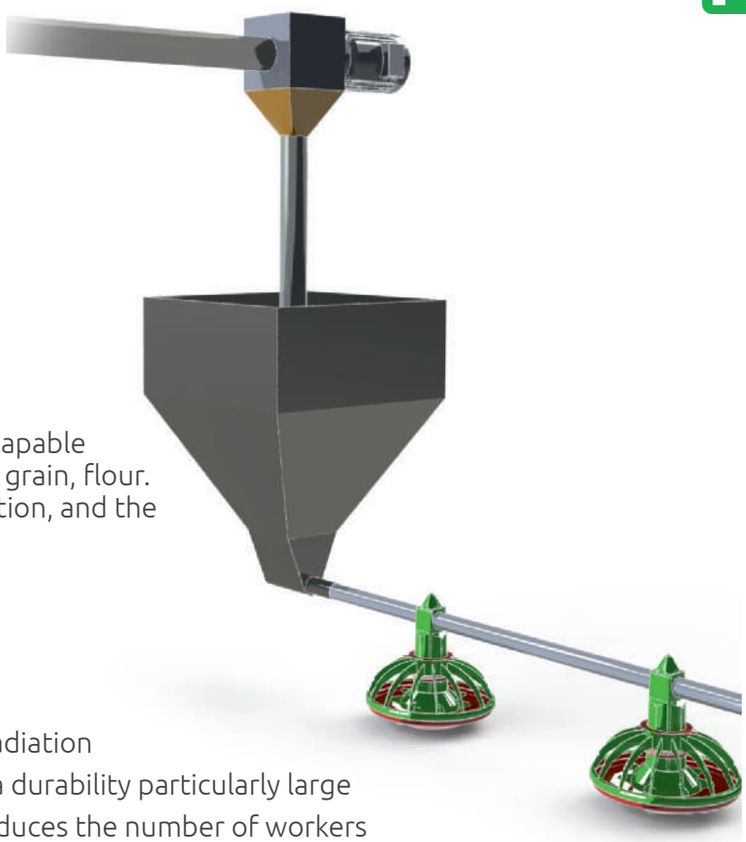
Tonnage
1 - 48t

Diameter
Ø 1.6/1.8/2.1/2.5
2.8/3.5 m

Height
2.5 - 10.7m

Type	Diameter	Volume	Weight	Height	No. legs
AK 280-1	2,8 m	12,2 m³	7,9 t	4,76 m	6
AK 280-2	2,8 m	17,8 m³	11,6 t	5,66 m	6
AK 280-3	2,8 m	23,4 m³	15,2 t	6,56 m	6
AK 280-4	2,8 m	29 m³	18,9 t	7,46 m	6

CROSS **AUGER**



The Alke Agro cross auger is a flexible system, capable of transporting feed in various forms: granules, grain, flour. The piping is made of PVC resistant to UV radiation, and the spiral is made of steel.

Advantages of ALKE cross auger

- Flexible and easy to install
- Piping made of PVC resistant to ultraviolet radiation
- Austrian steel spiral of the best quality with a durability particularly large
- Automation with the help of feed sensors reduces the number of workers







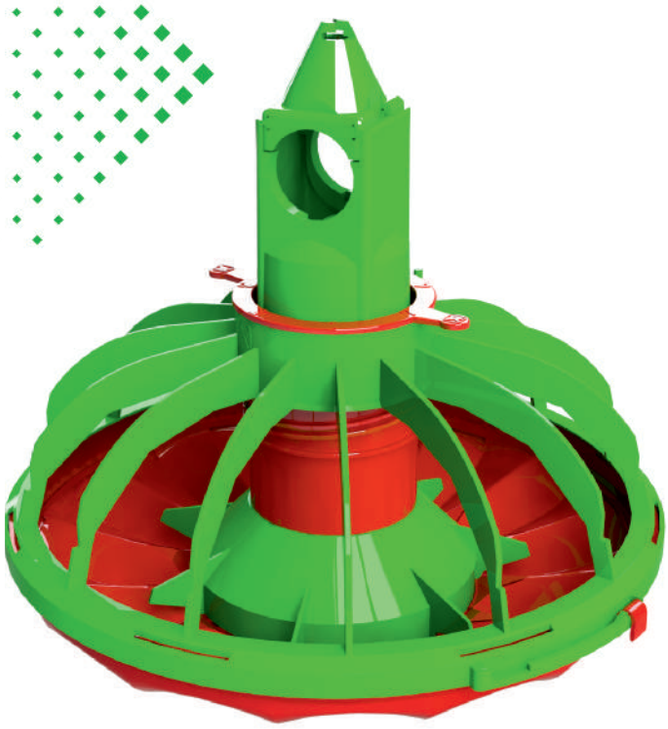
Type
75 - 125mm

Capacity
1 - 3690kg/h

Length
1 - 60m

Type	Gearmotor type	Capacity	Length max.
75 mm	0,75kW	1300 kg/h	60 m
90 mm	0,75 kw	2200 kg/h	40 m
125 mm	0,75 kW	3690 kg/h	40 m

FEEDING WITH **PANFEEDING**



We only use corrosion-resistant metals and polypropylene from high-purity, non-recycled pellets.

Advantages of Alke panfeeding

- Resistance to cleaning products that are used in poultry houses, chemical substances, high pressure water jet
- The design that protects the broilers breast against bruises
- The design was projected in order to avoid the feed wastage and to facilitate the access of the birds
- Easy to open and to clean
- The feedpans have a feed proportioning system 0-100%

Components	Material	Capacity
Hopper	Stainless/galvanized steel	175 l
Feeding pipe	Galvanized steel	4,2 cm D interior
Unit drive	Stainless/galvanized steel	0,55 kW
Winch	Stainless steel	900 kg sau 1500 kg
Broiler feedpan	Polypropylene	35 cm
Layer feedpan	Polypropylene	35 cm
Male feedpan	Polypropylene	34 cm
Turkeys feedpan	Polypropylene	37/45 cm cu/fără inel
Ducks feedpan	Polypropylene	34 cm



Hopper
Stainless/galvanized steel
175 l

Feedpan
Broiler / layers
Turkeys / Ducks

Feeding pipe
Galvanized steel
Ø4.5cm | 3m

DRINKING **SYSTEM**



Closed circuit watering systems that provide constant hydration with fresh water and a high level of hygiene.

Advantages of Alke drinking lines

- Easy to clean, optimal hygiene
- A better water temperature
- Minimal maintenance
- A high number of water access points
- The necessary medication can be easily supplied
- Minimal water loss, dry litter, low humidity and low ammonia level





Stainless steel nipples
0.3 - 3bar | 0 - 80ml

Drinking pipe
PVC Ø22mm

Type	Destined to	Material	Capacity
MP24	Broiler/Breeder/Layers	Polypropylene + stainless steel	80 ml/min at 200 mbar
AK5TC	Broiler/Breeder/Layers	Polypropylene + stainless steel	70 ml/min at 200 mbar
AK5	Broiler/Breeder	Polypropylene + stainless steel	50 ml/min at 200 mbar
AK2	Layers	Stainless steel	80 ml/min at 200 mbar
AK2DOS	Broiler/Breeder/Layers	Stainless steel	80 ml/min at 200 mbar
MP22	Ducks	Polypropylene + stainless steel	35 ml/min at 200 mbar
AK-LT	Turkeys	Polypropylene + stainless steel	80 ml/min at 200 mbar

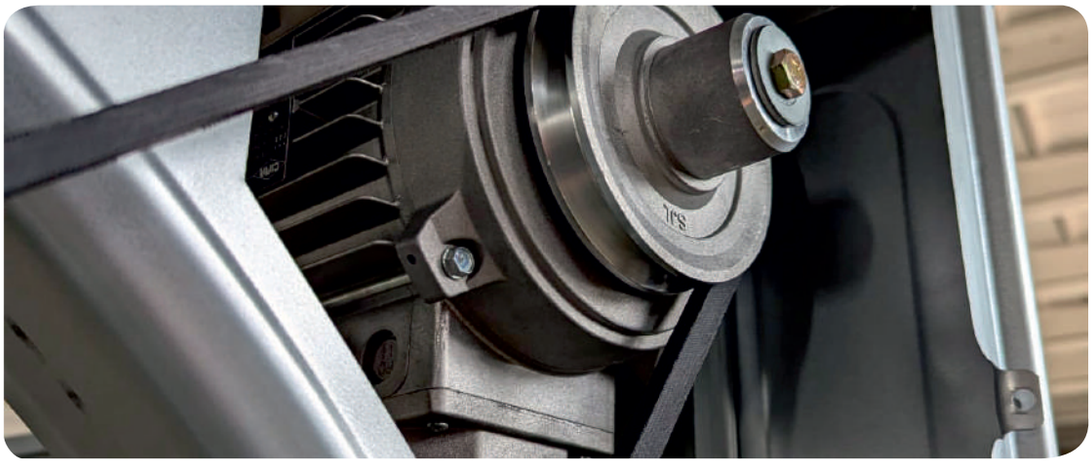
VENTILATION **SYSTEM**



Alke uses fans that are produced by companies with a tradition for more than 30 years in the agricultural and industrial ventilation field.

We focus on the following features

- Box bearings
- Low noise level
- Aerodynamic blades
- Water resistance (Ip55)
- Low power consumption
- Corrosion-resistant motor
- Motor with insulation class F
- Anti-corrosive assembly materials
- The coils are provided with 3 layers

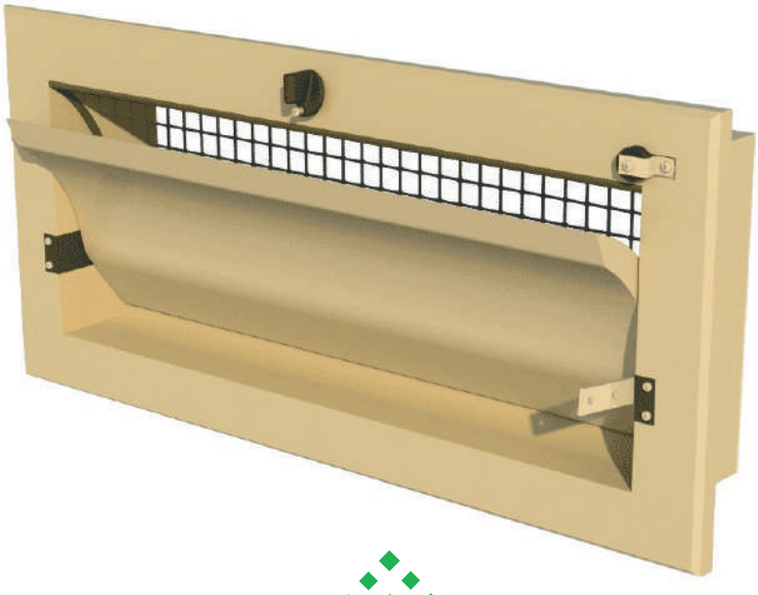


Dimensions
96 - 138cm

Durability
Standard IP55

Model	Capacity at 0 Pa	Power	Dimensions
AK 100 (ON/OFF/variable 400V)	14705 m³	0.37 kW	0,96 x 0,96 x 0,405 m
AK 120 (ON/OFF/ variable 400V	21633 m³	0,55 kW	1,15 x 1,15 x 0,405 m
AK 140 400V - 3Ph -50Hz (ON/OFF)	43170 m³	1,1 kW	1,38 x 1,38 x 0,405 m
MF 140 400V - 3Ph - 50Hz (ON/OFF)	44810 m³	1,1 kW	1,38 x 1,38 x 0,46 m
6D92 Q 400V - 3Ph - 50Hz (ON/OFF)	21100 m³	0,83 kW	1,08 x 1, 02 x 0,24 m
6E92 Q 230V - 1Ph - 50Hz (variable)	21100 m³	0,67 kW	1, 08 x 1,02 x 0,24 m

AIR INLET **SYSTEM**

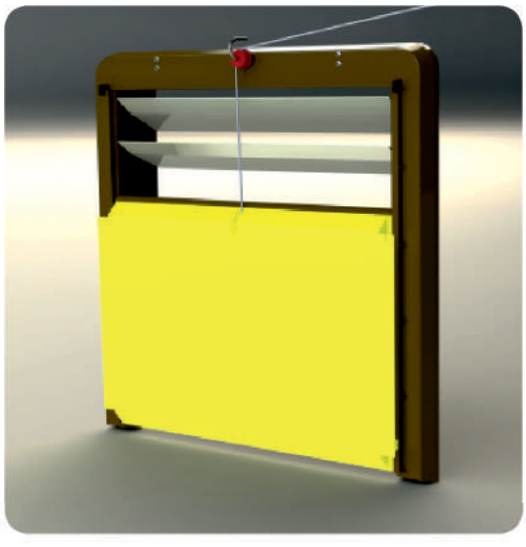


The air intake flaps are very important for ensuring a healthy micro-climate in poultry breeding halls.

When installed correctly, the flaps prevent moisture that may appear on the side walls and provide fresh air throughout the hall.
The type of ventilation, the number of fans and the dimensions of the hall are to be taken into account when choosing this system,

- Low power consumption
- Corrosion-resistant motor
- Motor with insulation class F



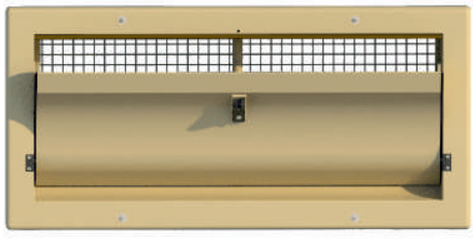


Material
PVC

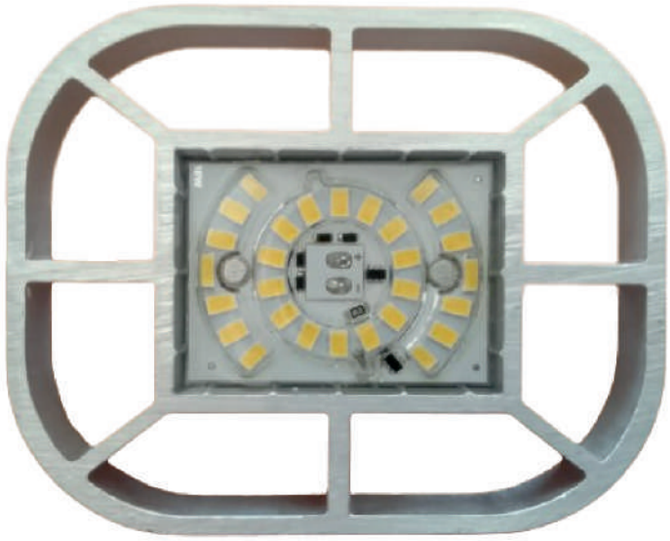
Type
NO/NC

Mounting
Dimensions

Model	Type	Capacity at 20 Pa	Dimensions
X-Stream	NO/NC	2250 (m³/H)	392 x 360 mm
Flash 3300	NO	3300 (m³/H)	580 x 400 mm
AK2700	NO	2700 (m³/H)	660 x 310 mm
AK4500	NC	4500 (m³/H)	868 x 390 mm
VFG	NC	2050(m³/H)	670 X 290 mm



LIGHTING **SYSTEM**



Our lighting system creates the ideal environment for the development of broilers, breeder and layer, ensuring a uniform distribution of light.

Also, this technology positively influences the activity of birds, food consumption, supports and regulates the biological rhythm and minimizes the production of eggs on the ground.



- Easy assembly
- Long operating life
- Dimmable 10-100%
- Dust and water resistant
- Low electricity consumption
- Light with perfect temperature

Model	Power	Lumens	Dimming	Temperature color
Led Cell AK	3 W	205 lm/W	0-100%	2700K / 5000K
Led Cell AK	5 W	160 lm/W	0-100%	2700K / 5000K
Led Cell AK	10 W	160 lm/W	0-100%	2700K / 5000K
XENA Bulb	8 W	112 lm/W	0-100%	3000K



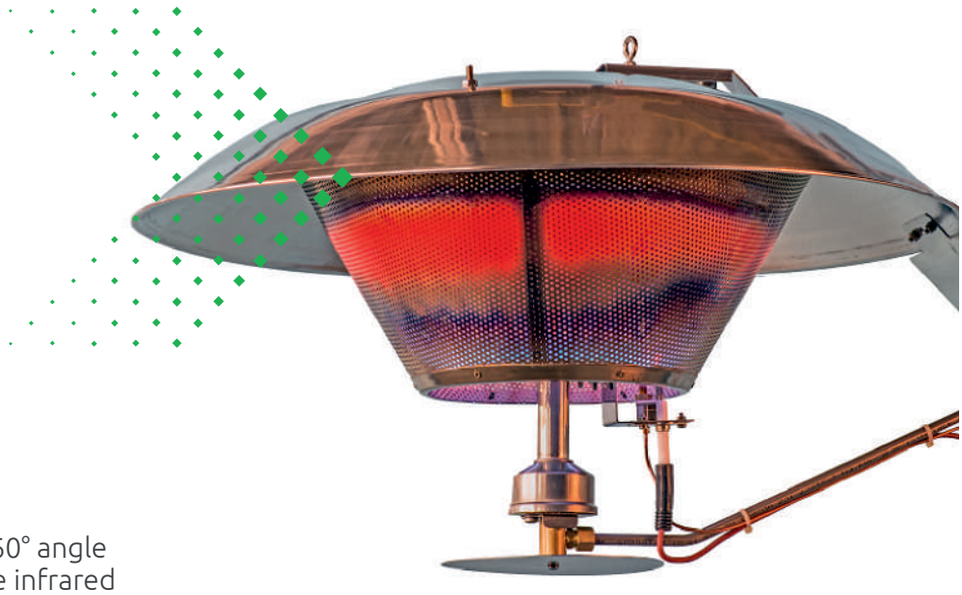


Power
3-10W
112-205 lm/W

Color
2400/5000K
Dim 0 - 100%

Technology
LED

INFRARED **HEATING**



The megasun heater, provided with a 60° angle burner with unique design, sends more infrared radiation to the floor where heat is needed.

No other infrared heater emits more infrared radiation to the floor: the 60° angled stainless steel burner, together with the large reflector, produces an optimal thermal footprint on the hall floor, which means fewer heaters will be needed to cover the entire hall floor, thus saving fuel.

Advantages of our infrared heaters

- They heat the birds and the floor, without losing energy with the heating of the entire room
- They are resistant to farm conditions, the heaters having components made of stainless steel, cast iron, cooper or aluminium





Capacity
3500W-12000W
3010-10320kcal

Gas Type
Natural gas
Propane gas

Model	Gas type	Necessary pressure	Capacity		Consumption	Dimensions
Megasun EI	Propane	30-50 mbar	12000 W	10320 kcal	860 gr/h	14,1 kg
	Natural	15-50 mbar	12000 W	10320 kcal	1,12 m³/h	14,1 kg
Global 5	Propane	1400 mbar	5500 W	4730 kcal	400 gr/h	2 kg
	Natural	300 mbar	5200 W	4472 kcal	0,5 m³/h	2 kg
Global 10	Propane	1400 mbar	9500 W	8170 kcal	680 gr/h	3,3 kg
	Natural	300 mbar	8800 W	7568 kcal	0,84 m³/h	3,3 kg
AP2 FT	Propane	300 mbar	5000 W	4300 kcal	360 gr/h	1,7 kg
	Natural	300 mbar	5100 W	4300 kcal	0,48 m³/h	1,4 kg
Ceramic 81	Propane	1400 mbar	3500 W	3010 kcal	240 gr/h	4,6 kg
	Natural	50 mbar	3500 W	3010 kcal	0,4 m³/h	4,6 kg

HOT AIR **HEATING**

GA/N SERIES

Hot air generators are classic equipment, used for heating chicken houses.

Like infrared heaters, they have a good efficiency but especially for small or medium houses.

Gas Type
Natural gas
Propane gas



Model	Gas type	Consumption	Air flow	Capacity	Jet length	Dimensions	Weight
GA/N 45	Natural	4,084 m³/h	2500 m³/h	45,64 kW	40 m	850 x 475 x 351 mm	21 kg
	Propane	3,13 kg/h					
GA/N 70	Natural	6,574 m³/h	4700 m³/h	71,72 kW	42 m	1146 x 596 x 441 mm	46 kg
	Propane	5,02 kg/h					
GA/N 95	Natural	8,885 m³/h	6700 m³/h	97,09 kW	45 m	1146 x 596 x 441 mm	46 kg
	Propane	6,91 kg/h					

BH | FARM SERIES

Advantages

- Easy to clean
- Easy to install
- Humidity resistance
- Corrosion resistance



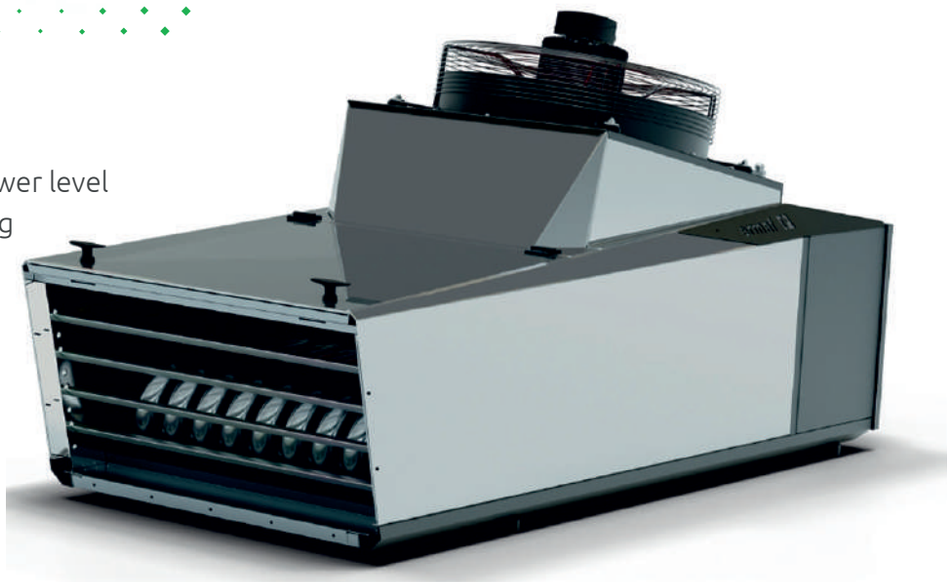
Model	Gas type	Consumption	Air flow	Capacity	Jet length	Dimensions	Weight
BH 50	Natural	4,554 m³/h	4100 m³/h	50,08 kW	-	1379 x 690 x 630 mm	75 kg
	Propane	3,67 kg/h		49,98 kW			
BH 100	Natural	8,684 m³/h	7500 m³/h	94,63 kW	-	1781 x 831 x 776 mm	135 kg
	Propane	7,12 kg/h		97,89 kW			
FARM 145	Natural	13,664 m³/h	11000 m³/h	144,72 kW	43 m	1220 x 1080 x 838 mm	158 kg
	Propane	10,53 kg/h					
FARM 235	Natural	22,095 m³/h	16200 m³/h	235,72 kW	55 m	1514 x 1310 x 938 mm	233 kg
	Propane	17,17 kg/h					

HOT AIR HEATING

INDIRECT COMBUSTION

NX80 SERIES

- Atmospheric burner, single stage power level
- Ideal for high pressure water cleaning
- Robust stainless steel design
- High quality components
- Poor CO_2 environment
- Less ventilation needs
- Indirect heating
- Long jet length



Model	Gas type	Voltage	Capacity	Air flow	Jet length	Consumption	
						Natural gas	Propane gas
NX0801100	Natural	230 V	80 kW	7500 m³/h	50 m	7,7 m³/h	
NX0802100	Propane	230V	80 kW	7500 m³/h	50 m		5 kg/h

RGA SERIES

Optimum temperature distribution, CO_2 reduction, energy savings, and environmental compatibility are key criteria when choosing the right heating system for animals sheds. We offer a complete range that includes both natural and propane gas hot air blowers.



Indirect air heating advantages

- Very safe heating system
- Resistant to water jet cleaning
- Energy saving and environment friendly
- Heat output contains only hot air and no CO_2;
- No moisture in hot air, less diseases and higher productivity
- Combustion gasses extracted via chimney, ventilation not necessary

Model	Gas type	Voltage	Capacity	Air flow	Jet length	Consumption		
						Natural gas	Propane gas	Kerosene
RGA100	Natural /Propane	230 V	60 - 100 kW	8000 m³/h	40 m	8,0 m³/h	6,9 kg/h	
RGA95 garden	Kerosene	230V	95 kW	8000 m³/h	40 m			10 l/h

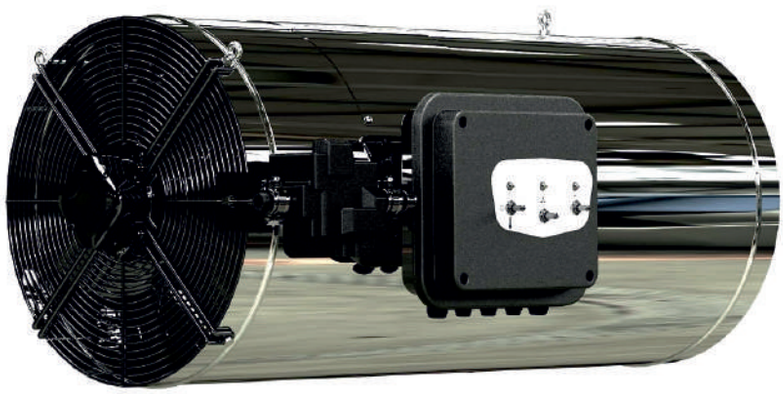
HOT AIR HEATING

DIRECT COMBUSTION

MR SERIES

- Control possible via climate computer or thermostat
- Easy operation and very low cost installation
- Very reliable and proven air heat design
- Resistance to water jet cleaning
- CE approved

Gas Type
Natural gas
Propane gas



Model	Gas type	Voltage	Capacity	Air flow	Jet length	Consumption	
						Natural gas	Propane gas
MR0701100	Natural	230 V	70 kW	4225 m³/h	35 m	6,55 m³/h	
MR0702100	Propane	230 V	70 kW	4225 m³/h	35 m		2,5 kg/h
MR0951100	Natural	230 V	95 kW	4615 m³/h	40 m	8,9 m³/h	
MR0952100	Propane	230 V	95 kW	4615 m³/h	40 m		3,4 kg/h

GP SERIES

Direct air heating advantages

- Low installation cost
- Easy to install, long jet length
- Hot air and CO_2 in heat output
- Very reliable and proven system
- Resistance for water jet cleaning
- 100% efficiency, fast heat-up time



Model	Gas type	Voltage	Capacity	Air flow	Jet length	Consumption	
						Natural gas	Propane gas
GP40	Natural /Propane	230 V	40 kW	3900 m³/h	40 m	3,6 m³/h	3,1 kg/h
GP70	Natural /Propane	230 V	70 kW	4500 m³/h	50 m	6,1 m³/h	5,0 kg/h
GP95	Natural /Propane	230 V	95 kW	6500 m³/h	40 m	7,8 m³/h	6,8 kg/h
GP120	Natural /Propane	230 V	120 kW	8000 m³/h	50 m	9,9 m³/h	8,6 kg/h

HOT AIR **HEATING**

DIRECT COMBUSTION

P SERIES

- Direct fired
- High direct power
- Air heaters for diesel or kerosene



Model	Gas type	Voltage	Capacity	Air flow	Jet length	Consumption
P40	Diesel /Kerosene	230 V	40 kW	4400 m³/h	30 m	4 l/h
P60	Diesel /Kerosene	230 V	60 kW	6200 m³/h	30 m	6 l/h
P80	Diesel /Kerosene	230 V	80 kW	7700 m³/h	40 m	8 l/h
P100	Diesel /Kerosene	230 V	100 kW	7700 m³/h	40 m	10 l/h
P120	Diesel /Kerosene	230 V	120 kW	7700 m³/h	50 m	12 l/h

R20 CIRCULATION FANS

Circulation fans are mainly used to minimize temperature stratification, to improve temperature uniformity and to conserve energy. Circulation fans will increase the air movement at floor level, resulting in drier litter and improved paw quality, allowing birds to distribute themselves comfortably throughout the house.

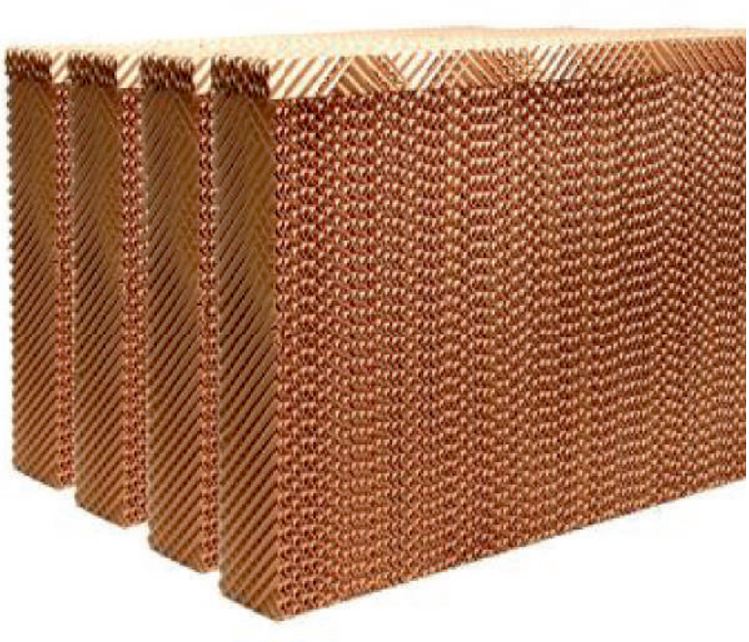


Circulation fans advantages

- Robust stainless steel housing
- Extend the reach of the heaters
- Very reliable and proven system
- Direct connectable to our heaters
- Equalize temperatures in all directions
- Easy to install results in low installation cost

Model	Air output	Jet length
R20-9	5800 m³/h	45 m
R20-14	8600 m³/h	60 m

COOLING **SYSTEM**



For cooling the chicken houses, we propose panels with cardboard pads. Alke cooling pads are composed of corrugated cardboard trapped in galvanized steel troughs. This equipment is the most efficient cooling system for a poultry house.

It can lower the ambient temperature by up to 10°C

The structure of the panels has been designed to increase the wet /cooling surface to ensure high evaporation efficiency.

The evaporator panels are positioned on one side, and exhaust fans on the other side of the hall in order to create the necessary vacuum for the intake of fresh air through an evaporation panel. The air is cooled with the help of this panel.





Height
100 / 150 / 200cm

Width
60cm

Thickness
10 / 15cm

Capacity
33000 m³/h at 20 Pa

Material
Cardboard / PVC

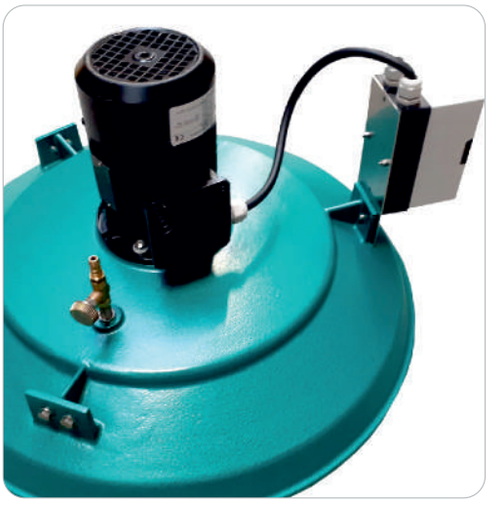
SPIN DISK
HUMIDIFIER



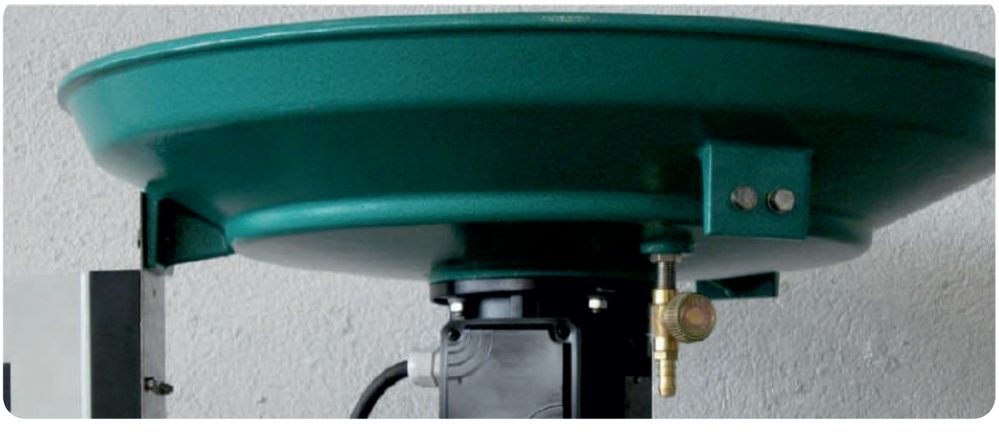
To humidify the poultry farms, we recommend the Alke Spin Disk. The equipment produces a mist of water that helps increase the humidity in the hall. The special hole that regulates the volume of water in the rotating disk can be opened or closed. The water will come from the center and the centrifugal force will throw the water to the outside of the disk. This produces a very fine mist cone which will evaporate immediately inside the hall.

The Spin Disk can also be used for disinfection of the houses.

- Standard model, ceiling hanging, 400V three - phase
- Aluminium product with high quality component
- Easy assembly
- Epoxy polish







Consumption
15-30 l

Material
Aluminium

Motor
0.55 kW 400V

MICROCLIMATE **CONTROL**



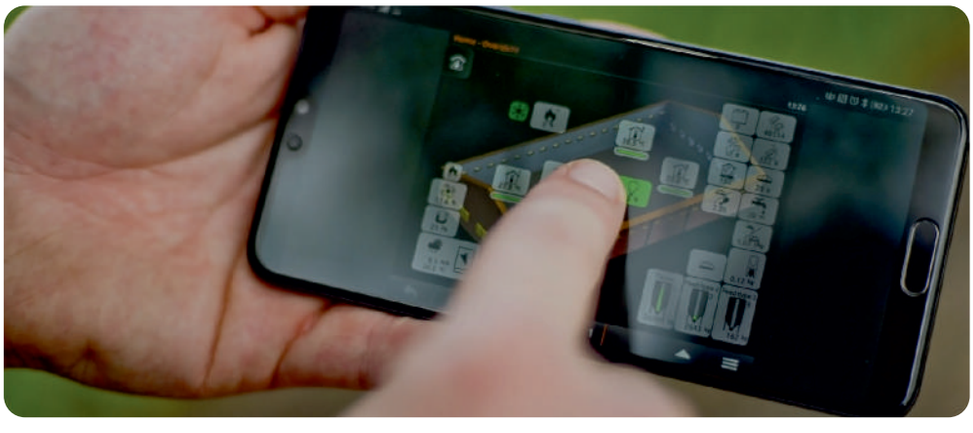
Our climate computers can control all possible combinations of ventilation: natural, basic, tunnel, roof, longitudinal and cross ventilation based on the temperature, humidity, negative pressure, CO_2 and NH_3 inside the house but also based on the weather changes outside the house, so that the birds always enjoy a perfect and comfortable climate.

Advantages

- Tested and optimized during many years of use
- Reliability and high operating safety
- Possibility to set access password
- Very flexible, configuration based on our customer requirements
- Easy-to-access interface based on icons
- Programable temperature curve up to 10 diagram points, each point representing a day





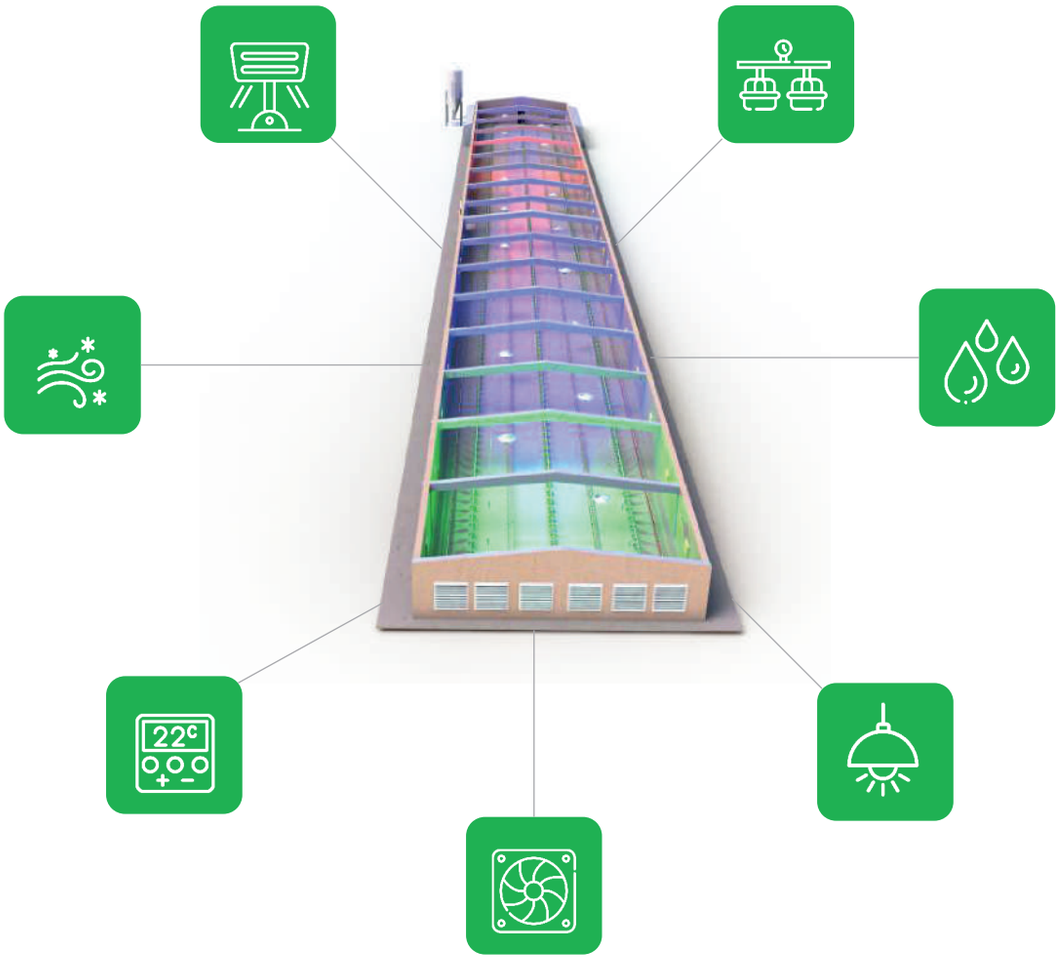


Compatible
Control Android /IOS

Central
Control

Susteinable
Adapted to
farm conditions

TECHNOLOGY
DEFINES PROGRESS



Working with the best suppliers and having the best equipment we deliver trust to our customers keeping transparency and honesty as a vision for our long term partnerships.

Our investments went, immediately after the human resource, to state-of-the-art equipment. The constant challenge is to satisfy even the highest demands in the reception of the finished product. We design and process in our production division with professionals accompanied by the latest equipment. The results are here.

"Transparent trade, long friendship."

ALKE TOTAL CONFORT

Heating & Poultry Technology



Alke Total Confort Oct. 2024

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