

VENTILATION



FAN



COOLING



CONTROL



HEATING



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Poultry houses are getting bigger day by day and production costs continue to increase. Increasing chicken density due to enlarging poultry houses hereafter making it necessary to create good and well balanced environment for the chickens. Because of the increasing feed costs, keeping FCR rates at a minimum level became the common target of producers. It is also important to keep the heating cost at acceptable levels, which is one of the most important costs after feed.

In breeder houses, the main target is now getting more eggs from each chicken and a good ventilated environment will definitely help reaching this target

Tavsan introduces Minimum-Transition-Tunnel ventilation concept to customer's appreciation, which has proven its efficiency after long researches. This

ventilation concept targets chickens to grow up in a more comfortable environment by minimizing the transition between the levels of ventilation. Appropriate ventilation system equipments start working according to a intelligent analyze of parameters such as temperature, humidity, static pressure, age, weight and creates the most suitable ambience for the chickens.

Side-wall fans and air inlets for minimum ventilation, tunnel fans and air inlets for transition ventilation, tunnel fans and cooling pads for tunnel ventilation works automatically from the first day to the last day of chickens.

Excellent harmony between the ventilation steps; low FCR values and minimum heat loss are not difficult targets anymore.



- ✓ Exhaust fan groups have automatic centrifugal system where the shutters are being opened instantly when the fan starts running.
- ✓ For safety regulations, a front grill is placed in front of the blades in all of the fans.
- ✓ The bottom panel of the fan frame is equipped with a water outlet for ease of cleaning
- ✓ All of our fans are equipped with 6 stainless steel blades obtaining a high airflow with low electricity consumption.

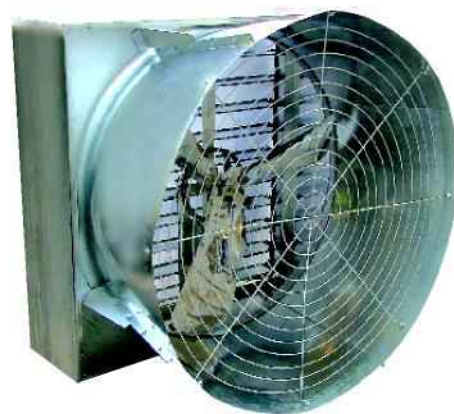


TVS FAN 1400



TVS FAN 960





TAVSAN CONE FAN

The special design with 3 blades provide more air flow than box fans. The motor placement is not inhibiting the air flow and the nozzle is integrated to fan from outside. In the cold days and nights, heat inside the poultry house is not affected from the air outside and the leakage of light is prohibited by the plastics saddles installed to the edges of the shutters.

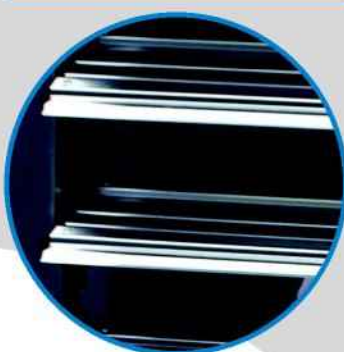
TAVSAN FAN 600

Maintenance costs of this fan, where the centrifugal system and shutter opening system is not used, is at its minimum level.



AIR CIRCULATION FANS

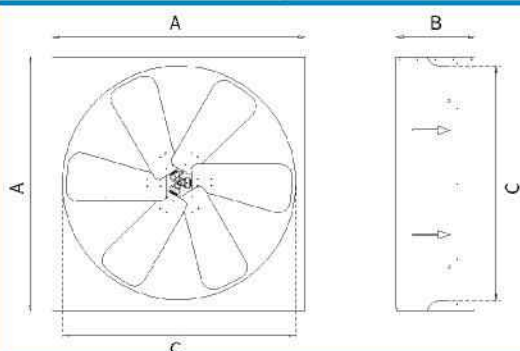
All sizes of our fans are available with grill protection, back and front and delivered without the centrifugal system and shutters.



When the shutters are closed, plastic saddles eliminates air and light leakage into the poultry house.



The shutter opening mechanism is hidden in the side wall of the wall and no connection with air flow thus less dust in stocked and lead to longer service life.

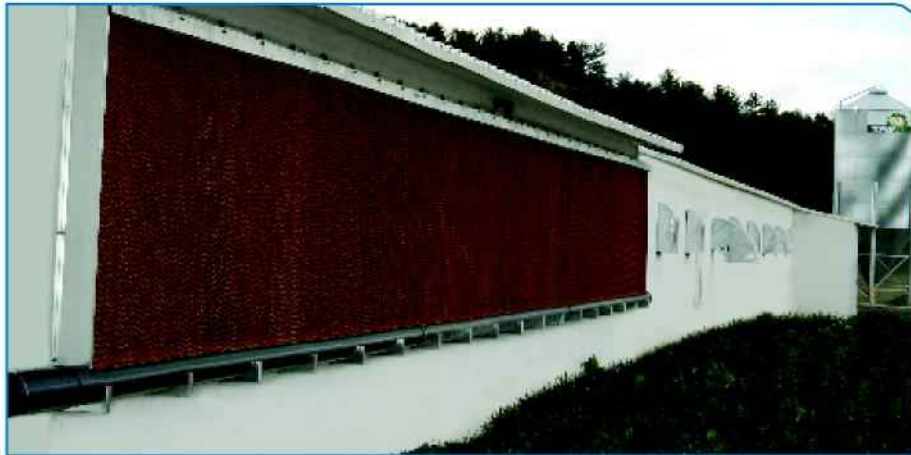


FAN TYPE		A	B	C	POWER	VOLTAGE*	Hz*
TAVSAN FAN 1400	Exhaust	1380	424	50"	HP 1,50 KW 1,10	380V	50
TAVSAN FAN 1400	Double-Grid	1380	360	50"	HP 1,50 KW 1,10	380V	50
TAVSAN FAN 1150	Exhaust	1140	424	39"	HP 0,75 KW 0,55	380V	50
TAVSAN FAN 1150	Double-Grid	1140	360	39"	HP 0,75 KW 0,55	380V	50
TAVSAN FAN 960	Exhaust	959	424	31"	HP 0,55 KW 0,37	380V	50
TAVSAN FAN 960	Double-Grid	959	360	31"	HP 0,55 KW 0,37	380V	50
TAVSAN FAN 810	Exhaust	810	424	26"	HP 0,55 KW 0,37	380V	50
TAVSAN FAN 810	Double-Grid	810	360	26"	HP 0,55 KW 0,37	380V	50

* Other motor specification are available upon request.

COOLING

PAD COOLING SYSTEM



Bottom gutter of cooling pad frame is made of plastic, also used as water tank. This feature reduces assembly time and provides ease of maintenance.

ADVANTAGES

- ✓ Easiest and the most effective way of cooling
- ✓ Long service life
- ✓ Low maintenance cost
- ✓ Ease of installation
- ✓ Ease of maintenance

Cooling Pad dimensions;

Height: 100 / 150 / 200 cm*

Width: 60 cm

Thickness: 10 / 15 cm

*Other cooling pad dimensions are available upon request

All components of the unassembled cooling pad frames are easily connected with plastic connectors.



TOROS AIR INLET



Common use of air inlets that are necessary for modern ventilation systems in poultry houses encouraged Tavsan to make research and development studies about it. TOROS air inlet, which is designed after the long tests and researches, maximizes the effective air flow in the poultry houses.

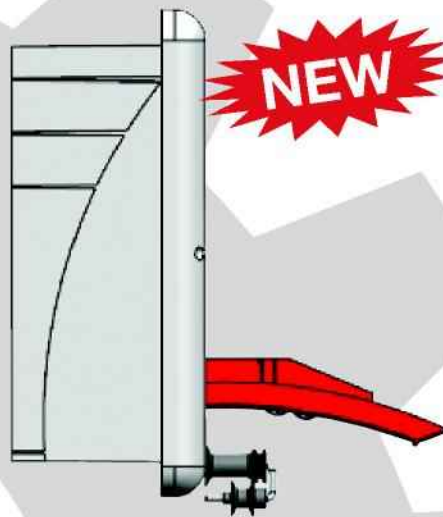
With the help of the degree indicator which is optional, the direction of the air flow is the same at all air inlets.



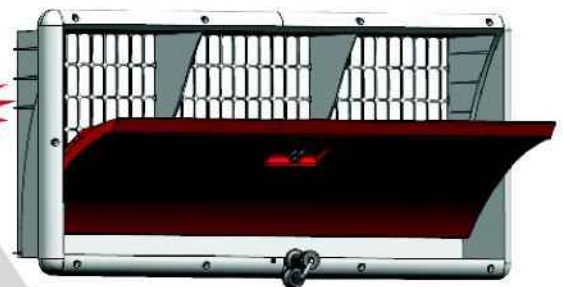
Airflow rate and direction can be adjusted easily by using Tavsan inlet activation system and controllers.

ILGAZ AIR INLET

Ventilation of the poultry houses can be made more economically with the increased airflow capacity of Ilgaz Air Inlet, comparing to Toros. Same as in the Toros air inlet, Ilgaz air inlet's flap also has an insulation material and aluminum profile for maximum strength.



NEW

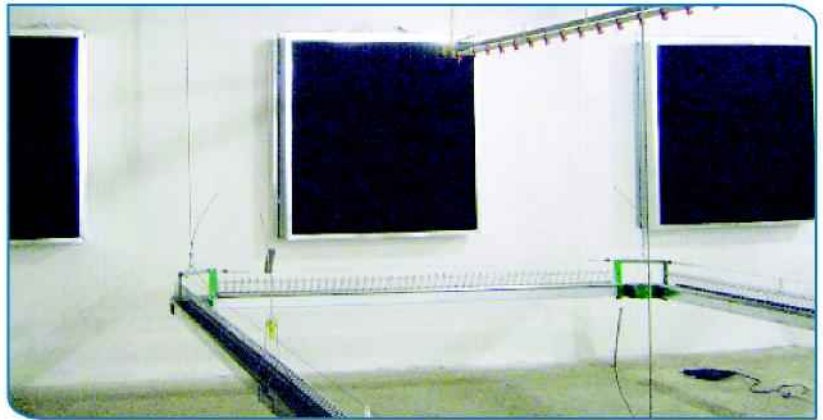


INLET TYPE	OUTER DIMENSIONS		FLANGE DIMENSIONS	
	LENGTH	HEIGHT	LENGTH	HEIGHT
ILGAZ INLET	908	454	858	390
TOROS INLET	595	325	545	260

LIGHT TRAP

LIGHT TRAP

A light trap can be installed in front of the fan where the daylight is not meant to enter in.



ADVANTAGES

- ✓ Easy to assemble
- ✓ Easy to clean
- ✓ Long service life

TUNNEL CURTAIN SYSTEM

Tunnel air inlets, which is one of the most important parts of tunnel ventilation system, can be delivered with two versions according to entry angle of the outside air into the poultry house; if the air entry preferred from upper side "PVC Curtain System" or if the air entry preferred from lower side "Tunnel Curtain System" is being delivered. Both systems have high insulation specification. Depending on the climate control panel, either curtain system can be operated gradually or on-off.



HC LINE



- ✓ Tunnel fan control
- ✓ Side-wall fan control
- ✓ Cooling pad pump control
- ✓ Inlet motor control
- ✓ Heating control
- ✓ Fan motor protectors
- ✓ Pump motor protectors
- ✓ Inlet motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator
- ✓ Thermic alarm on-off switch
- ✓ Main alarm on-off switch
- ✓ Manual-Auto control selector
- ✓ Temperature dependant working
- ✓ Recorder function
- ✓ Humidity control (optionally)
- ✓ Outside temperature sensor
- ✓ Calendar function
- ✓ Max. speed - min. speed limit
- ✓ Time dependant working
- ✓ Full security
- ✓ User friendly software



TH LINE



- ✓ Tunnel fan control*
- ✓ Variable control of fan speed (6-steps)
- ✓ Cooling pad pump control
- ✓ Heating control
- ✓ Fan motor protectors
- ✓ Pump motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Last fan thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator
- ✓ Thermic alarm on-off switch
- ✓ Main alarm on-off switch
- ✓ Manual-Auto control selector
- ✓ Temperature dependant working
- ✓ Recorder function
- ✓ Max. speed - min. speed limit
- ✓ Time dependant working
- ✓ Full security
- ✓ User friendly software



* 2 - 6 fans with variable speed

TP LINE



- ✓ Tunnel fan control
- ✓ Cooling pad pump control
- ✓ Heating control
- ✓ Fan motor protectors
- ✓ Pump motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Last fan thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator
- ✓ Thermic alarm on-off switch
- ✓ Main alarm on-off switch
- ✓ Manual-Auto control selector
- ✓ Temperature dependant working
- ✓ Recorder function
- ✓ Max. speed - min. speed limit
- ✓ Time dependant working
- ✓ Full security
- ✓ User friendly software



SP LINE



- ✓ Tunnel fan control (with frequency convertor)
- ✓ Tunnel fan control (on-off)
- ✓ Cooling pad pump control
- ✓ Heating control
- ✓ Fan motor protectors
- ✓ Pump motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Last fan thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator
- ✓ Thermic alarm on-off switch
- ✓ Main alarm on-off switch
- ✓ Manual-Auto control selector
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- ✓ User friendly software



SX LINE



- ✓ Tunnel fan control
- ✓ Side-wall fan control
- ✓ Cooling pad pump control
- ✓ Cooling pad curtain control
- ✓ Inlet motor control
- ✓ Timer function for feeding
- ✓ Silo weighing
- ✓ Heating control 2 stages
- ✓ Timer function for lighting
- ✓ Static pressure & humidity sensor
- ✓ 4 inside temperature sensor
- ✓ Outside temperature sensor
- ✓ Bird weighing
- ✓ Water consumption reporting
- ✓ PC connection - remote control
- ✓ Analysis- graphics
- ✓ Motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator
- ✓ Thermic alarm on-off switch
- ✓ Main alarm on-off switch
- ✓ Manual-Auto control selector
- ✓ Temperature dependant working
- ✓ Recorder function
- ✓ Calendar function
- ✓ Minimum ventilation according to bird weight



EX LINE



- ✓ Tunnel fan control
- ✓ Side-wall fan control
- ✓ Cooling pad pump control
- ✓ Cooling pad curtain control
- ✓ Inlet motor control
- ✓ Timer function for feeding
- ✓ Heating control 2 stages
- ✓ Timer function for lighting
- ✓ Static pressure & humidity sensor
- ✓ 4 inside temperature sensor
- ✓ Outside temperature sensor
- ✓ Water consumption reporting
- ✓ PC connection - remote control
- ✓ Analysis- graphics
- ✓ Motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator
- ✓ Thermic alarm on-off switch
- ✓ Main alarm on-off switch
- ✓ Manual-Auto control selector
- ✓ Temperature dependant working
- ✓ Recorder function
- ✓ Calendar function
- ✓ Minimum ventilation according to bird weight



ORION LINE



- ✓ Tunnel fan control
- ✓ Side-wall fan control
- ✓ Cooling pad pump control
- ✓ Cooling pad curtain control
- ✓ Inlet motor control
- ✓ Silo weighing
- ✓ Heating control 2 stages
- ✓ Timer function for lighting
- ✓ Static pressure & humidity sensor
- ✓ 4 inside temperature sensor
- ✓ Outside temperature sensor
- ✓ Bird weighing
- ✓ Water consumption reporting
- ✓ PC connection - remote control
- ✓ Motor protectors
- ✓ High-low temperature alarm
- ✓ Motor thermic alarm
- ✓ Electricity cut, phase-down alarm
- ✓ Alarm indicator

- ✓ Thermic alarm on-off switch
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- ✓ Manual-Auto control selector
- ✓ Temperature dependant working
- ✓ Recorder function



SIRIUS LINE

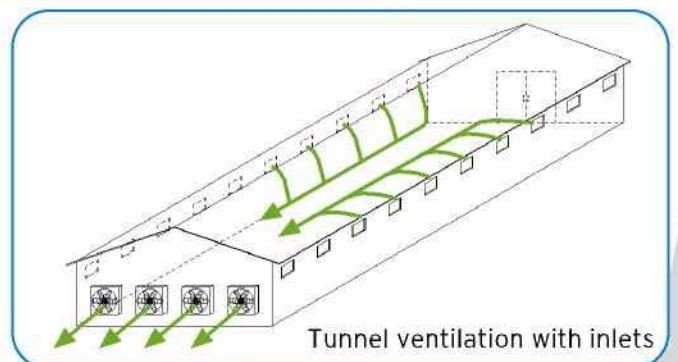
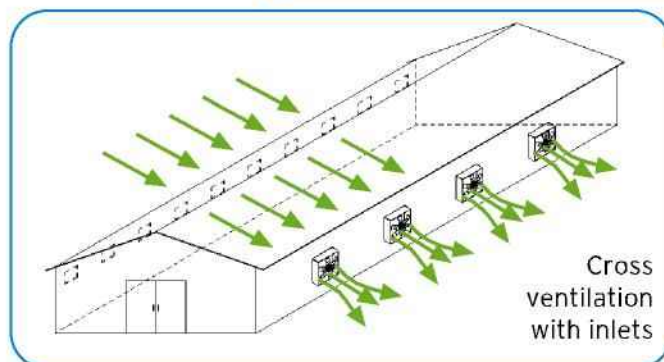
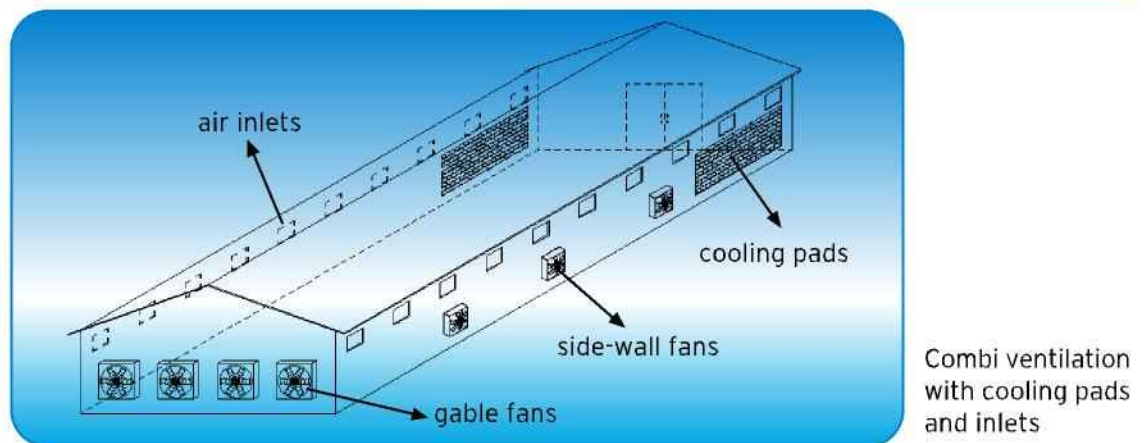
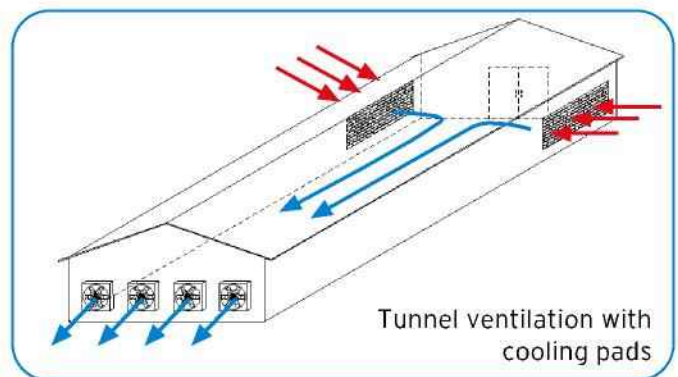
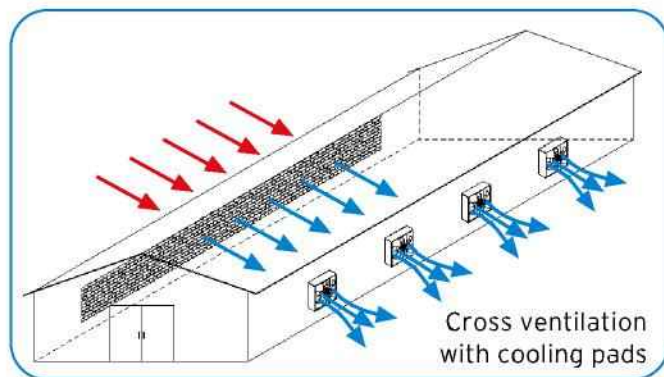


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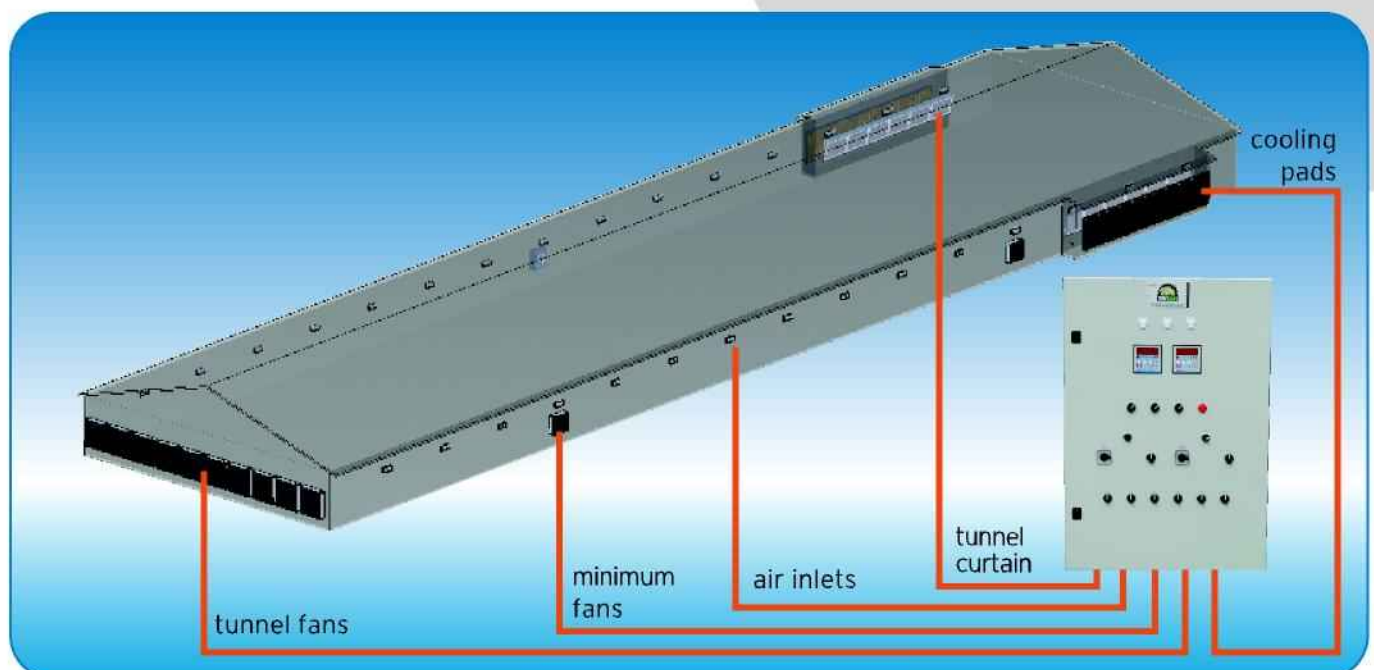
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VENTILATION ALTERNATIVES

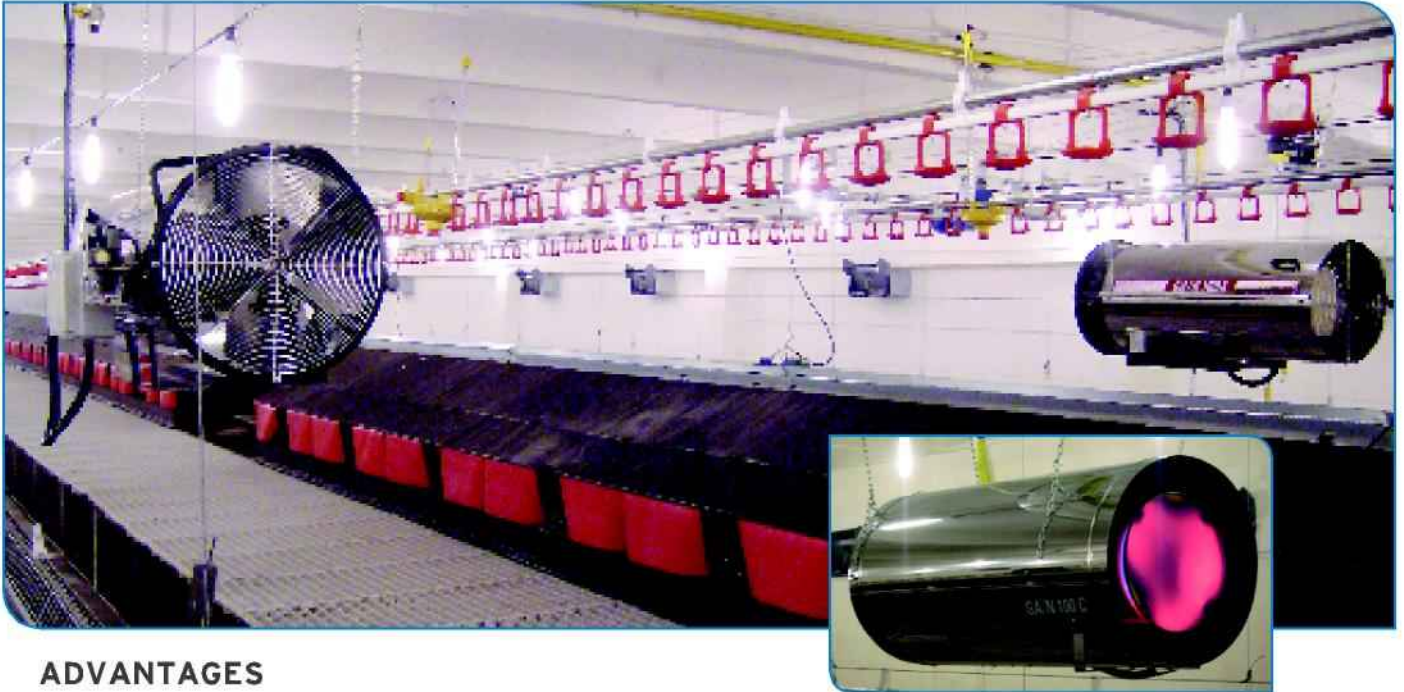


Please contact us for individual ventilation solutions



FORCED-AIR HEATERS

GA/N series heaters work with natural gas or LPG and with the high air blowing capacity a uniform heating can be obtained throughout the poultry house. If they are used with air circulation fans in long poultry houses, it helps the distribution of hot air more efficiently.



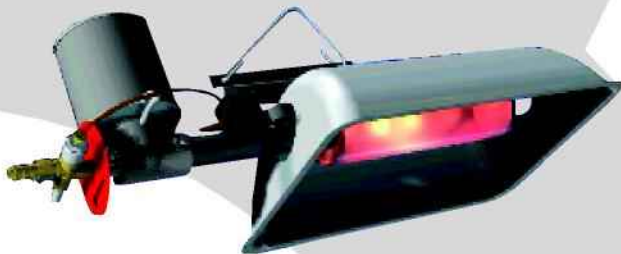
ADVANTAGES

- ✓ IP65 Protection class electrical box
- ✓ Can work with time clock connection or with thermostat
- ✓ High quality stainless steel body
- ✓ IP55 Protection class motor
- ✓ Heater can be used as a circulation fan during the summer

MODEL	HEATING POWER		FLOW RATE
	kW	kcal/saat	m ³ /saat
GA/N 45	45,0	38,700	2.600
GA/N 80	80,0	68,800	5.000
GA/N 100	100,0	86,000	6.000

M8 HEATER

A well controlled environment is essential in the first days of a chick's life. Experts agree that infrared heat produced from gas fired heaters provide young birds with their best start. Infrared heat allows you to aim the radiant heat directly to the animals and the floor.



ADVANTAGES

- ✓ Stainless steel construction
- ✓ Wide operating range
- ✓ High efficiency with low gas consumption
- ✓ Low maintenance
- ✓ Withstands high pressure washing

SPECIFICATIONS	M-8
Maximum capacity	5,0Kw/hour
Heating range	6 meter
Hanging height	0,90 - 1,50m
Gas types	Propane, Butane LPG, Natural Gas
*The operating pressure can be adjusted according to the gas type	



Gas Pressure
Regulator



Electronic
Thermostat



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TAVSAN POULTRY EQUIPMENT is the oldest and the biggest poultry equipment manufacturer in Turkey. Since the establishment date, 1975, TAVSAN manufactures feeding, drinking, lighting, heating, ventilation, feed storage and transport, cage and environmental control systems. Besides manufacturing a complete range of equipment for livestock farming, TAVSAN also performs sales, marketing and after sales service to its customers.



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