



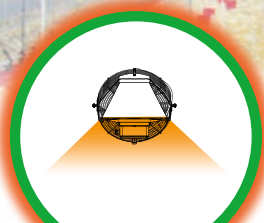
# INFRA BAF DES BREEDING FARMS AND GREENHOUSES

Power: from 9 to 40 kW

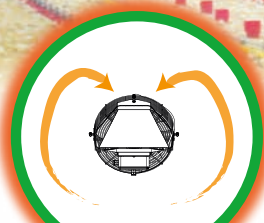


**BREEDING FARMS  
GREENHOUSES**

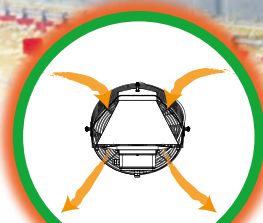
## HEAT GENERATOR WITH 3 DIFFERENT FUNCTIONS



**INFRARED  
IRRADIATION  
FLOOR HEATING**



**CONVECTION  
SPACE  
HEATING**



**DESTRATIFICATION  
ENERGY  
SAVING**

## THE ADVANTAGES OF A CHOICE

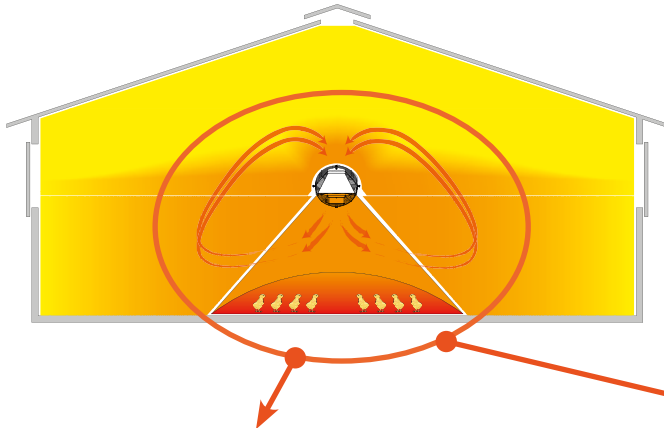
The radiant system, "INFRA BAF DES", heats throughout both irradiation and convection, and with the destratification effect, directly funnelling the heat only on the required areas.

**These are the advantages:**

- » **It directly heats the surfaces and the animals under its irradiation cone**
- » **The space is also heated by convection and by the latent heat of the animals**
- » **The destratification of the hot air allows a better distribution of the heat with an important energy saving**
- » **Zone heating of the farm according to the production cycles with computer monitoring**
- » **High profitability: Economical, it reduces fuel costs of 15-20% per year**
- » **Because of the source of heating there is an increase of both meat and of uniformity in the weight of animals**

\* Warranty is conditional upon regular scheduled maintenance

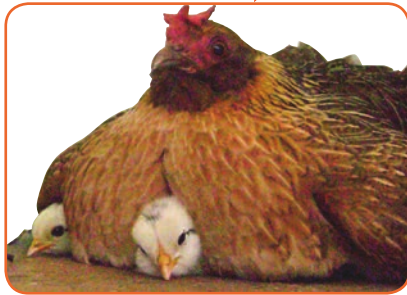
# HOW DOES IT WORK?



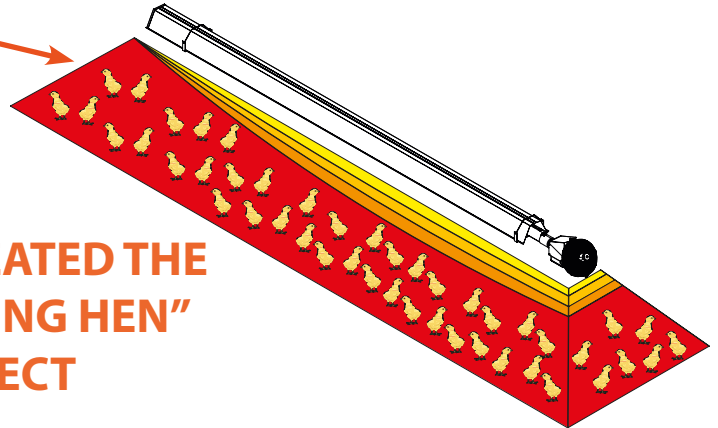
The radiant destratifying “**INFRA BAF DES**” system, heats through both direct irradiation and destratifies the heat that goes on the high areas of the building, pushing it toward the floor and the animals.

The heat is directed only on the areas under the irradiation cone and the destratifying air flux, and in this way the hen effect is made

The air is also heated by the latent heat emitted by the warm bodies of the animals.



## WE RECREATED THE “BROODING HEN” EFFECT



With this heating system, the animals, looking for comfort, place themselves under the radiation cone (the big hen), while they avoid to place themselves where it's cold.

**It is important to achieve the ideal thermal comfort, the “hen effect”,** that could be obtained only with a radiant and destratifying system for the comfort of the chicks.

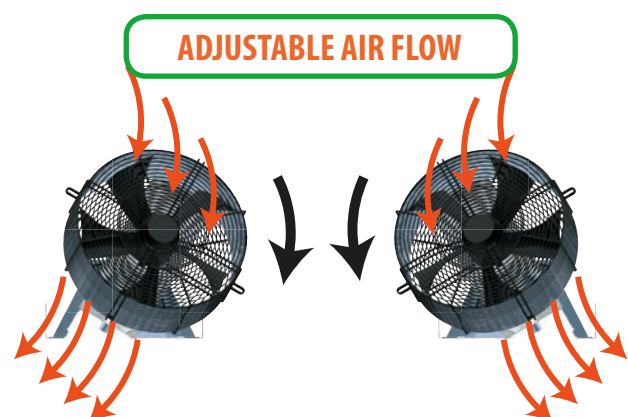
Actually, when chicks eat they prefer the heat and by themselves they look for the ideal temperature provided by **INFRA BAF DES** while once satisfied the chicks freely move towards less warm areas, in order to work off the heat of the body, according to their metabolism.

**INFRA BAF DES principle works on the homogeneous spreading of the heat.**

**That happens thanks to the combined actions of irradiation and destratification.**

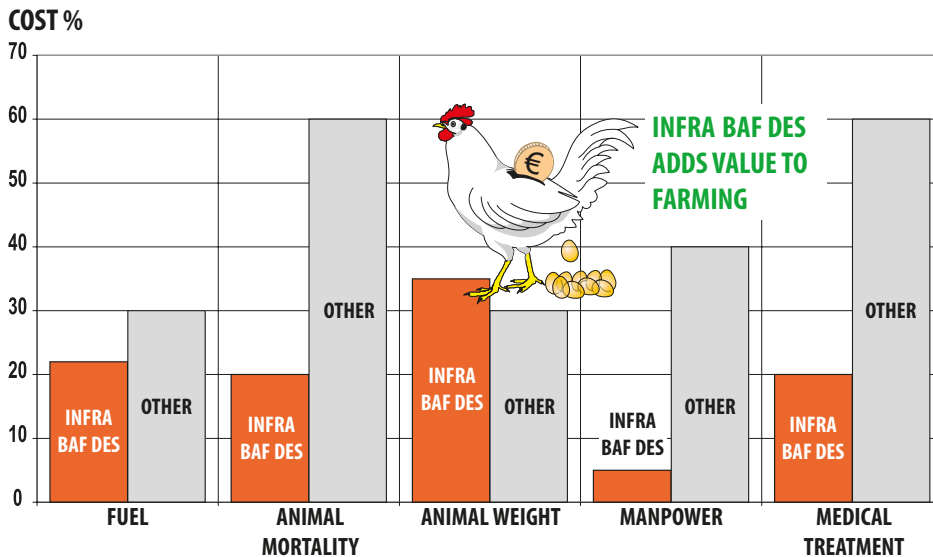


**DESTRATIFYING HEAD POSITIONING AS NEEDED**





# SAVING COMPARED TO TRADITIONAL SYSTEMS



## ADVANTAGES

- Higher yields at the slaughterhouse and reduction of the waste, better quality of the meat
- Humidity reduction on the space (litter)
- Flexibility because of the heating zones
- Heating according to the production cycles, without modification to the implant

## SAVINGS

- Fuel saving
- Money saving because of the reduction of medical treatments
- Savings because of the reduction of manpower
- Reduction of temperature fluctuations in the building

## HEALTH AND WELLNESS

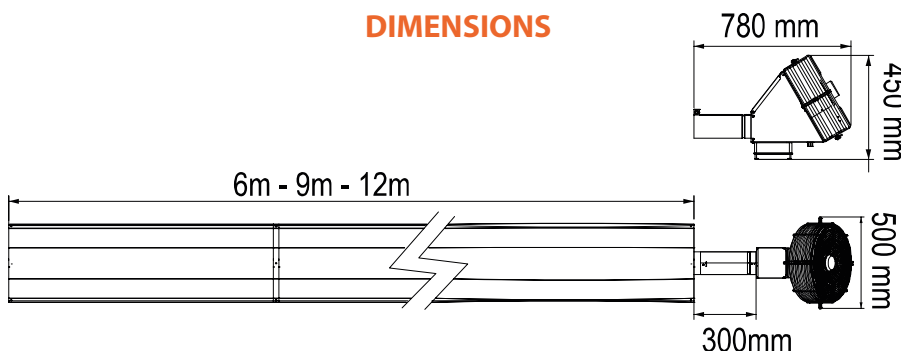
- Healthier environment because of the total pollution abatement (ammonia NH<sub>3</sub>)
- Reduction of the usage of drugs
- Reduction of mortality during animal growth
- Reduction of respiratory diseases for the animals

## TECHNICAL DATA

INFRA BAF DES MODELS		6.9KW	6.20KW	9.20KW	9.28KW	12.40KW
Length	m	6	6	9	9	12
Rated thermal input	kW (Hi)	9	20	20	28	40
Rated thermal output	kcal	7740	17200	17200	24080	34400
Rated consumption at 15°C and 1013,25 mbar	Natural gas G20	Nm <sup>3</sup> /h 0,952	2,116	2,116	2,962	4,232
	G.P.L. Butane G30	Kg/h 0,708	1,574	1,574	2,204	3,149
	G.P.L. Propane G31	Kg/h 0,702	1,56	1,56	2,184	3,12
Electric power supply	V/Hz	230/50				
Max. Absorbed electric power	W	180	180	300	300	300
Gas coupling (F)	inches	1/2"				
Weight	Kg	52	52	74	74	92

The buildings where these products are installed required air exchanges according to regulations in force.

## DIMENSIONS



## CERTIFICATION



To continually improve the products, SYSTEMA S.p.A. reserves the right to alter the characteristics without prior notice.



### INFRA BAF DES TURKEY BREEDING

This kind of animal need a strong feeling of homogeneous heat in all the space during its own life cycle because it really suffers the cold but it hardly moves for looking the warmth.

**INFRA BAF DES** the homogeneous temperature generated by its destratificating fans is the solution to this problem.



### INFRA BAF DES QUAIL BREEDING

This kind of animals tend to be wilder than other animals and needs different attentions. With **INFRA BAF DES** there are no "bloats" on the breastbone, as opposed to what usually happens on battery rearing. Better quality of the meat, better performances in the breeding. The system is safe also in the worst climate situations.



### INFRA BAF DES OTHER APPLICATIONS

In addition to poultry-farming, **INFRA BAF DES** is used on **PIG-FARMING**, and for all kind of **GREENHOUSES** including **FLOWER-GROWING**.



## SOME PLANTS REALIZED



PIG FARMING