INFRA BAF

Radiant Tubes

HEATING TECHNOLOGIES FOR ANIMAL FARMS

SYSTEMA

CE

imitates nature



Radiant tubes

BA

THE ADVANTAGES OF RADIANT HEATING **BY JUST LIKE THE SUN**

SYSTEMA S.p.A. was establisted in the early Eighties as a company producing heating equipment.

PR

From its founding the present day, it has grown in quality and quantity, both in the sector of infra-red radiant with the "INFRA", "BAF" and "OHA" lines, and in the "traditional" sectors of hot air generators with the "EOLO" line and convector heaters for civil applications with the "KING" line.

SYSTEMA S.p.A. has always given the maximum attention to research into technical solutions and applications coherent with the final intended use of the product. Great attention has always been dedicated to the quality of the materials used and of the finished product.

For SYSTEMA S.p.A., safety in the use of its products, without risks for persons and things, has always been one of its prime objective that cannot be overlooked.

The Company is present with all its production in over 40 countries, thanks to a capillary sales and technical assistance organisation.

It has obtained all the most important international approvals, including the CE mark, in conformity with EEC Directive 90/396 on gas appliances.



- Possibility of heating
 - single zones
 - Heat concentrated on the floor
 - Absence of air movement in the environment
 - Limited air stratification between floor and ceiling
 - Absence of suspended dust particles
 - Working in comfortable warmth breathing fresher air
 - Healthier environments

- and also
- CONSTRUCTION OF A HEATING PLANT IS NOT REQUIRED
- ESS THERMAL INERTIA IN THE WHOLE SYSTEM

OSSIBILITY OF HEATING ZONES AT

- DIFFERENT TEMPERATURES
- MINIMUM SERVICING
- POSSIBILITY OF USING GAS OR DIESEL OIL
- REDUCTIONS IN ENERGY CONSUMPTION
- INVESTMENT PAID OFF IN 2 TO 4 YEARS
- FALLS WITHIN THE OPERATIONS DIRECTED AT SAVING ENERGY AND THEREFORE QUALIFIES FOR FINANCINGS CONTEMPLATED BY CURRENT LAWS

SYSTEMA

Gas convectors

KING

CIVIL HEATING

INFRA BAF FOR ANIMAL FARMS

A highly innovative and revolutionary product in comparison with the traditional systems up till now before the "INFRA BAF" sealed gas radiating modules appeared on the market.

SYSTEMA S.r.l. is proud of its product, the "INFRA BAF" line, and believes that it has made a fundamental contribution to the renewal of animal rearing techniques, achieving - with "INFRA BAF" - optimum environments for the growth of genetically evolved animals today.

The reduction of management costs, with the consequent increase of the overall profitability of the farm, will satisfy the end user and totally pay back the investment incurred in using "INFRA BAF" modular units in his farm.



"INFRA BAF" is simple and reliable

- It is sealed with respect to the environment in which it is installed.
- The whole radiating module is under a vacuum.
- Heating mainly by irradiation.
- Max. temperature of the radiating tube 400°C for "U".
- $\bullet\,$ Max. temperature of the radiating tube 300°C for "M" and "MC".
- Highly uniform radiation along the length of the module.
- Total safety during operation.
- Does not pollute the environment in which it is installed.
- Easy installation and maintenance.

Economic consumption - Costs reduced by 20-30%

- Gas suction burner "BAF 28 45 kW".
- Automatic burner functioning with thermostat.
- Operates with electric power at 230 V 50/60 Hz or 400 V 50/60 Hz.
- Airtight single-phase or three-phase extractor fan, IP 55.
- Ventilator air flow rate variable according to the model.
- Radiating tube made of aluminium steel or stainless steel AISI 321.
- Internal combustion chambers of stainless steel AISI 321.
- Reflecting hood of stainless steel AISI 304 430.
- CE certificate with combustion yield higher than 90%.

High profitability - increases returns by 10-20%



"INFRA BAF" is sealed in the environment



- The "INFRA BAF" radiating module works in a vacuum
- for combustion, it uses air taken from outside and it expels the combustion fumes outside.
- It does not create a negative alteration of the climate inside the farm sheds.
- It does not deprive the animals of oxygen, which is indispensable for their healthy growth.
- It does not send the combustion fumes, into the animal environment, these are filled with water vapour and are polluting, very harmful both for the animals being raised and for the operator who has to work in the environment.
- The animals raised in premises heated with "INFRA BAF" can live and grow in an optimum environment.



"INFRA BAF" heats by irradiation



- The "INFRA BAF" radiating module heats mainly by direct irradiation, conveying the heat produced exclusively to the desired areas.
- It directly heats the items and animals under its radiation cone.
- It does not heat the air directly. The air will be heated by the latent heat given off by the items and animals heated directly by infra-red irradiation.
- It heats only certain areas automatically, without modifying the system, depending on the production cycles. It reproduces the nursery effect in an artificial environment, with excellent results.

"INFRA BAF" is economic

- Greater animal yield.
- Lower animal mortality.
- Less use of medicines.
- The advantages are due to:
- better climatic conditions inside the farm shed;
- total absence of polluting substances;
- less relative humidity in the environment;
- no conditions of stress for the animals.

Less use of labour

The advantage is due to the fact that:

- the "INFRA BAF MC" is completely automatic;
- it does not need to be assembled and disassembled;
- no daily maintenance is required for cleaning.

• Less fuel consumption

The saving is due to:

- greater combustion yield, higher than 90%, in "INFRA BAF" radiating modules;
- less stratification of hot air near the ceiling, with less dispersion;
- rationalisation of the heated areas;
- less ventilation to change "polluted" air;
- air temperature 3-4°C lower with the same comfort conditions;
- rational temperature control with more probes;
- on-off burner operation.



"INFRA-BAF" in four versions for every application need



INFRA BAF U

- "INFRA BAF U" radiating modules work with any type of gas and are totally sealed against the environment in which they are installed.
- They are produced in two versions for installation in farms: "INFRA B 6" 6 metres long and "INFRA B 9" 9 metres long
 "INFRA BAF U" radiating modules are complete with:
 "BAF 28 kW burner with electric power supply 230V 50 Hz.
 Single-phase extractor fan 100 W 230 V 50/60 Hz, protection IP 55

- U-shaped radiating tube in silicone painted aluminium steel for the stan-dard version and in stainless steel AISI 321 for the optional version
- Reflecting hood, width 52 cm, in stainless steel AISI 430 for the standard version and in stainless steel AISI 304 for the optional version
 Support brackets and accessories in stainless steel AISI 430 for the stan-
- dard version and in stainless steel AISI 304 for the optional version
- Possibility of installing the burner and the extractor fan outside.
- Installation height above ground: minimum 1 metre, maximum 6 metres
- Intense, non uniform radiation along the length of the radiating module
- Maximum temperature in contact with the radiating tube 400/480°C



- "Interval and provide a structure of the structu protection IP 55 nal version
 - "INFRA BAF M" radiating modules work with any type of gas and are totally sealed against the environment in which they are installed. • They are produced in four versions for installation in farms: "INFRA BAF 6-

 - Linear radiating tube with diameter 108 mm in silicone painted aluminium steel for the standard version and in stainless steel AISI 321 for the optio-
 - Reflecting hood, width 35 cm, in stainless steel AISI 430 for the standard version and in stainless steel AISI 304 for the optional version
 - Support brackets and accessories in stainless steel AISI 430 for the standard version and in stainless steel AISI 304 for the optional version Possibility of installing the burner and the extractor fan outside.
 - Installation height above ground: minimum 1 metre, maximum 4 metres

 - Intense, non uniform radiation along the length of the radiating module
 Maximum temperature in contact with the radiating tube 300/350°C

INFRA BAF MC



- They are produced in three types with unit gype of gas and are total and the total set of the set of
- steel
- Reflecting hood, width 40 cm, in stainless steel AISI 430.
- Steel support brackets and accessories
- Electric lifting system (if required in the farm)
- Variable height above ground depending on applications: minimum 1 metre, maximum 3 metres
- Intense, non uniform radiation along the length of the radiating module • Maximum temperature in contact with the radiating tube 280/320°C



INFRA BAF MSV

- "INFRA BAF MSV" radiating modules do not have an extractor fan.
- They heat by radiation while the collective fumes duct heats by convec-
- The general characteristics of the "INFRA BAF MSV" radiating modules are the same as those of the "INFRA BAF M" radiating modules
- Common fumes duct in aluminium steel
- Maximum temperature in contact with the fumes duct 100/120°C
- Special couplings with manual regulation for connecting the radiating modules to the fumes duct
- Electronic fumes capacity variation
- Automatic air locks for burner combustion air
 Possibility of installing one or more support burners upstream from the fumes duct
- No limit of application of the "INFRA BAF MSV" modules on the fumes ducts
- No limit in length for the fumes duct
- Very low fuel consumptions.

"INFRA-BAF U - M" simplicity and versatility



Electronic temperature control

- "INFRA BAF U M" units must be controlled by high-sensitivity electronic thermostats.
- The "CE 1 G" control panel is suitable for use and is complete with operating and burner block warning lights.
- The spherical probe is an integral part of the "CE 1 G" control panel and must be in hanging position above the animals.
- The control panel is installed inside or outside the building.
- The "CE 1 G" control panel does not have an alarm.
- To check with an alarm, use the "HP" series of thermostats.

- "INFRA BAF U M" radiating modules are used for heating free ranging animals on the ground, with temperatures up to 35/40°C. They may also be used for heating tool sheds, milking rooms, etc.
- "INFRA BAF U M" units are used in small installations, complying with their particular characteristics.
- Irradiation on the ground is fairly precise for version "U", good or excellent for version "M" depending on the length of the radiating module.
- "INFRA BAF U", for installation in farms, is produced in two models, width length 6 and 9 metres.
- "INFRA BAF M", for installation in farms, is produced in four models, width length 6-9-12-15 metres.
- For technical reasons, the burner and the extractor fan may be installed outside the building.



"INFRA-BAF MC" revolutionary innovation



- "INFRA BAF MC" radiating modules are suitable for heating medium to large poultry farms or similar premises.
- They are produced in three series so as to offer an optimum solution for various types of farm.
- The reproduce the "nursery" effect in an artificial environment with exceptional results.
- They have adjustable height by means of an electric lifting system, to adjust the temperature to the type of animal bred.
- "INFRA BAF MC" has a minimum of two and a maximum of five "BAF" burners installed in series in the radiating tube.
- There is a single extractor fan downstream from the radiating module.
- The units need not be dismantled at the end of the production cycle.
- Minimum routine and special maintenance required.
- The units may be easily cleaned along with the other structures in the shed.
- "INFRA BAF MC" radiating modules are

Electronic temperature control with "HHC - HHP" general control panels

- "INFRA BAF MC" radiating modules are controlled by a general control panel of the "HHC-HHP" series.
- The "HHC-HHP" control panels command and control every single burner independently, measuring its temperature with its own spherical probe and fumes extractor ran.
- It works automatically with processor control or in manual mode with an emergency switch.
- It is complete with an alarm system for indicating malfunctions or incorrect temperatures.
- The "HHC-HHP" control panel complies with all the safety regulations against accidents to persons and things, or to the equipment protections.

"INFRA-BAF MC" new series for poultry breeding

INFRA BAF MC SERIES "A"

- The "INFRA BAF MC series A" is used exclusively for heating free ranging animals on the ground, with fairly uniform temperatures of 35/40°C.
- It is suitable for high-temperature heating for turkeys, guinea fowl and all other species that have difficulty in settling indoors.
- Excellent uniformity of radiation on the ground along the length of the module.
- The burners are installed in series at a centre distance of 9 meters.
 - The radiating module has a maximum length of 48 metres with five "Baf" units installed in series.An electric lifting system may be provided for the nur
 - sery.
 - Each burner is independently controlled by a spherical probe at animal height.

INFRA BAF MC SERIES "B"

- The "INFRA BAF MC series B" is used principally for heating free ranging animals on the ground, with uniform temperatures of 30/35°C.
- From the first day of life it is suitable for high-temperature heating for chickens and all other species that have difficulty in settling indoors.
- . Good uniformity of radiation on the ground along the length of the module.
- The burners are installed in series at a centre distance of 12 meters.
 The radiating module has a maximum length of 51 metres with four "Baf"
 - units installed in series.
 - An electric lifting system may be provided for the nursery.
 - The dimensions of the nursery may be easily varied to suit the farm's requirements, making use of the lifting system.
 - Each burner is independently controlled by a spherical probe at animal height.

INFRA BAF MC SERIES "C"

- The "INFRA BAF MC series C" is used principally for heating free ranging animals on the ground, with non uniform temperatures of 20/25°C. • Suitable for low-temperature heating for all animal species.
- Fair uniformity of radiation on the ground along the length of the module. • The burners are installed in series at a centre distance of 18 meters.
- The radiating module has a maximum length of 75 metres with four "Baf"
- units installed in series.
 - There is no lifting system.
 - There is no suitable nursery in the modules of the C series.
 - Each burner is independently controlled by a spherical probe at animal height.





"INFRA-BAF MSV" innovation for pig breeding

INFRA BAF MSV

Heating by irradiation

- - on the ground.
 - Heats by radiation the ani-mals and the structures below only in the desired
 - areas. Does not directly heat the air in the rooms.
 - Minimum stratification of hot air at the top.
 - The air temperature in the rooms is 3-5° lower than with traditional convection systems, while ensuring the same conditions of animal comfort.
 - Does not create humidity or pollution in the rooms. • Helps keep floors and struc-
 - tures dry. The "dry" heat requires less changes of air in the room.
 - Each radiating module is independently controlled independently controlled with a spherical probe by the
 - room climate control unit. Highly suitable for heating farrowing, weaning and fattening rooms.



INFRA BAF MSV

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Heating by convection

- After having heated the rooms by radiation, the "INFRA BAF MSV" heats the ventilating air by convection, recycling the heat of the fumes duct.
- Heating of the fumes duct is caused by the combustion fumes expelled by the various "INFRA BAF MSV" radiating modules used to heat the rooms.
 As support, one or more "BAF 28 45 kW" burners may be applied upstream
- from the duct.
- Fumes capacities and combustion air are controlled by electronic air locks.
- Maximum efficiency and yield of the system.
 Keeps the ventilation air at the desired temperature.
 The air temperature may reach 18-20°C if supporting "Baf" burners are
- used.

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- Does not create humidity or pollution in the place of installation.
- Highly suitable for all types of rearing.





"INFRA-BAF MSV" special solutions

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<u>"INFRA-BAF MSV" in line</u> with a single extractor fan

- For special installation necessities, "INFRA BAF MSV" radiating modules may be installed facing one another or in parallel, sharing a single extractor fan.
- On specific projects, the radiating module may also have curves.

<u>"INFRA-BAF MSV" "locali-</u> sed" radiation

• When fitted with our special deflectors, the "INFRA BAF MSV" radiating module is able to convey radiation exclusively to certain zones to satisfy animal necessities.





"INFRA-BAF" the complete range of radiating modules

INFRA BAF "U"

Burner models				INFRA B 6	INFRA B 9			INFRA B 6	INFRA B 9
Rated thermal capacity Kw			28,0	45,0	Electric power	V/Hz	230-50	230-50	
Actual thermal capacity Kw		Kw	24,1	38,9	Power consumption	Kw	0,16	0,16	
Min. combustion yield %			%	86,1	86,5	Gas connection	Inches	3/4"	3/4"
Actual combustion yield %			%	90,1	90,3	Air coupling	mm.	100	100
	Methane H	HG 20	Nmc/h	2,96	4,76	Fumes coupling	mm.	100	100
Rated consumption at 15° C	Gas	LG 25	Nmc/h	3,45	5,54	Rad. module weight	Kg.	100	144
.013,25 mbar Butane G 30 Kg/h		2,21	3,55	Version		Standard	Standard		
Propane G 31 Kg/h		2,18	3,50			stainless steel	stainless steel		

INFRA BAF "M"

Burner models			BAF 28 Kw	BAF 45 Kw	Radiating module models	INFRA BAF M 6-9-12-15 (m.)		
Rated thermal capacity Kw			28,0	45,0	Electric power V/Hz		230-50	
Actual thermal capacity Kw			24,1	38,9	Power consumption Kw		0,16	
Min. combustion yield %			%	86,1	86,7	Gas connection Inches		3/4"
Actual combustion yield %			%	90,1	90,6	Air coupling	mm.	100
Methane HG 20Rated consumption at 15° CGas1.013,25 mbarButaneG 30		IG 20	Nmc/h	2,96	4,76	Fumes coupling	mm.	100
		LG 25	Nmc/h	3,45	5,54	Rad. module weight	Kg.	60-80-100-120
		Kg/h	2,21	3,55	Version		Standard/stainless steel	
Propane G 31 Kg/h			2,18	3,50				

INFRA BAF "MC"

Models	Length	No. "Baf	Rated	Yield	Electric	Electric	Series	Baf centre	Lifting	Weight
		28 Kw"	power - Kw		power	absorption		distance		
INFRA BAF MC 18/2	21	2	56	>90%	400V.(3 fasi+N)	0,750 Kw	A	9	NO	110
INFRA BAF MC 18/2 S	21	2	56	>90%	400V.(3 fasi+N)	0,750 Kw	A	9	YES	140
INFRA BAF MC 27/3	30	3	84	>90%	400V.(3 fasi+N)	0,750 Kw	Α	9	NO	170
INFRA BAF MC 27/3 S	30	3	84	>90%	400V.(3 fasi+N)	0,750 Kw	A	9	YES	200
INFRA BAF MC 36/4	39	4	112	>90%	400V.(3 fasi+N)	1,1 Kw	A	9	NO	260
INFRA BAF MC 36/4 S	39	4	112	>90%	400V.(3 fasi+N)	1,1 Kw	A	9	YES	290
INFRA BAF MC 45/5	48	5	140	>90%	400V.(3 fasi+N)	1,5 Kw	A	9	NO	400
INFRA BAF MC 45/5 S	48	5	140	>90%	400V.(3 fasi+N)	1,5 Kw	A	9	YES	430
INFRA BAF MC 24/2	27	2	56	>90%	400V.(3 fasi+N)	0,750 Kw	В	12	NO	170
INFRA BAF MC 24/2 S	27	2	56	>90%	400V.(3 fasi+N)	0,750 Kw	В	12	YES	200
INFRA BAF MC 36/3	39	3	84	>90%	400V.(3 fasi+N)	0,750 Kw	В	12	NO	260
INFRA BAF MC 36/3 S	39	3	84	>90%	400V.(3 fasi+N)	0,750 Kw	В	12	YES	290
INFRA BAF MC 48/4	51	4	112	>90%	400V.(3 fasi+N)	1,1 Kw	В	12	NO	400
INFRA BAF MC 48/4 S	51	4	112	>90%	400V.(3 fasi+N)	1,1 Kw	В	12	YES	430
INFRA BAF MC 36/2	39	2	56	>90%	400V.(3 fasi+N)	0,750 Kw	С	18	NO	200
INFRA BAF MC 54/3	57	3	84	>90%	400V.(3 fasi+N)	1,1 Kw	С	18	NO	290
INFRA BAF MC 72/4	75	4	112	>90%	400V.(3 fasi+N)	1,5 Kw	С	18	NO	430

INFRA BAF "MSV"

Burner models		BAF 28 Kw	BAF 45 Kw	Radiating modules INFRA BAF MSV 6-9-12-15 (m.)			
Rated thermal capacity Kw			28,0	45,0	Electric power V/Hz		230-50
Actual thermal capacity Kw			24,1	38,9	Power consumption	0,16	
Min. combustion yield %			86,1	86,5	Gas connection Inches		3/4"
Actual combustion yield %			90,1	90,3	Air coupling	mm.	100
	Methane HG 20	Nmc/h	2,96	4,76	Fumes coupling	mm.	100
Rated consumption at 15° C Gas LG 25		Nmc/h	3,45	5,54	Rad. module weight	Kg.	50-70-900-1100
1.013,25 mbar	3,25 mbar Butane G 30		2,21	3,55	Version		Standard/stainless steel
Propane G 31 Kg/h		2,18	3,50	Fumes extractor		Common	

ACCESSORIES

Finishing accessories	Article code	Material	Voltage	Degree of	Electric	Inlet	Outlet
				protection	absorption	diameter	diameter
Fumes extractor	CA 200/2	Galvanised steel	400V. 50/60 Hz	IP55	1,1 Kw	200/300 mm	160 mm
Fumes capacity variator	Belima 300	Galvanised steel/PVC	230V. 50/60 Hz	IP55	0,1 Kw	200/300 mm	200/300 mm
"Baf" automatic air lock	Mut 100	Stainless steel/PVC	230V. 50/60 Hz	IP55	0,05 Kw	100 mm	100 mm
Fumes duct	TLG/TLP	Aluminium steel		Sealed		301 mm	
3-way adjustable "T" coupling	TSG/TSP	Galvanised steel		Sealed		100 mm	300/200 mm
4-way adjustable "T" coupling	TSG2/TSP2	Galvanised steel		Sealed		100 mm	300/200 mm
Head coupling for "Baf"		Galvanised /Stainless steel		Sealed		300/200 mm	
Fumes duct coupling "Maschio"		Galvanised steel		Sealed		300/200 mm	
Fumes duct coupling 90° curve		Galvanised steel		Sealed		300/200 mm	
Fumes duct dilating joint		Zinc/Silicone coupling		Sealed		300/200 mm	
Extractor coupling	AAG/AAP	Galvanised steel		Sealed		300/200 mm	160 mm
Flexible coupling	PIL	Stainless steel		Sealed		100 mm	100 mm

REFERENCES

REFERENCES FOR HEATING INSTALLATIONS WITH "INFRA BAF" RADIANT TUBES

ANIMAL FARMS

AZ.AGRICOLA BARALDI SANI RENATA FFRRARA

AZ.AGRICOLA ZUFFADA ROMANO ANGELO BORGO S. GIOVANNI (LO)

AZ.AGRICOLA CICOGNANI GIANFRANCO SONCINO (CR)

AZ.AGRICOLA DE POLT F.LLT **MONTIRONE (BS)**

AZ.AGRICOLA LONGARIVA DI MANICA MARCO **ROVERETO (TN)**

AZ.AGRICOLA VIDAL DI GHIRLANDA F. **BOSCOCHIESANUOVA (VR)**

AZ.AGRICOLA DE POLI SALBORO (PD)

AZ.AGRICOLA GHIOTTO P. VILLAGA (VI)

AZ.AGRICOLA SCALCHI **MONTEGALDA (VI)**

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AZ.AGRICOLA BRUNETTA MARIO POSTIOMA DI PAESE (TV)

AZ.AGRICOLA BRUGNARO NAPOLEONE S.MARTINO DI LUPARI (PD)

SYSTEMA

E-mail: systema@systema.it - http://www.systema.it

loc. Fratte Fontane Bianche - PADOVA ITALY Tel. 049/9355663 r.a. - Fax 049/9355699

SYSTEMA S.p.A. - Via S. Martino, 17/23 - S.GIUSTINA IN COLLE (PD)

SYSTEMA

AZ, AGRICOLA DOSSO PIETRO S.URBANO (PD)

AZ.AGRICOLA GIANFRANCO BRAIT S.MICHELE DI PIAVE (TV)

AZ.AGRICOLA MIOTTO DONATELLA CARLINO (UD)

AZ.AGRICOLA MORONI ANTONIO SONCINO (CR)

AZ.AGRICOLA MORI BRUNO PONSO (PD)

AZ.AGRICOLA PANAROTTO PAOLINO S.GIOVANNI ILARION (VR)

AZ.AGRICOLA SAN MAURIZIO COLOMBARO DI FORMIGI (MO)

AZ.AGRICOLA SCALCHI CARLO MONTEGALDA (VI)

AZ.AGRICOLA SEGA ANTONIO PILCANTE DI ALA (TN)

AZ.AGRICOLA SINIGAGLIA VINICIO VO' EUGANEO (PD)

AZ.AGRICOLA VALLIO RONCADE (TV)

AZ.AGRICOLA VALLE DEL LOVO CARLINO (UD)

AZ.AGRICOLA ROTA VEROLANUOVA (BS)

LUCRA 96 S.R.L. LODI

AZ.AGRICOLA LORINI F.LLI CHIARI (BS)

BELLOTTI GIOVANNI AGNADELLO (CR)

AZ.AGRICOLA BRAMBILLA F.LLI MERLINO (LO)

AZ.AGRICOLA MORONI SERGIO DOVERA (CR)

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AZ.AGRICOLA VEZZOLI LORENZO SONCINO (CR)

AZ.AGRICOLA VERONESI BRUNO SUSTINENTE (MN)

AZ.AGRICOLA DALL'ACQUA MARINA SUSTINENTE (MN)

VERONESI RITA IMPIANTI ZOOAGRICOLI SUSTINENTE (MN)

ESCHE RENE' CAGNO (CO)

AZ.AGRICOLA SORIANI ROBERTO QUISTELLO (MN)

D.A.V. IMPIANTI SRL CASALBUTTANO (CR)

DALLA VALLE PIETRO E GIANGUIDO PONTENURE (PC)

AZ.AGRICOLA ZANATTO ELIGIO PONSO (PD)

CORRADI CARLO S.FIORANO (LO)

AZ.AGRICOLA SOLDI MARCO E PIETRO GRONTARDO (CR)

AZ.AGRICOLA ROSSI RENATO **OSPEDALETTO EUGANEO (PD)**

AZ.AGRICOLA ZOIA ANACLETO LOZZO ATESINO (PD)

OUR BRANCHES ALL OVER THE WORLD:

SYSTEMA POLSKA sp. z o.o.

Tel. +48438247287 - Tel./Fax +48438233064 www.systemapolska.pl - e-mail: systema@systemapolska.pl

730-20 An Chung Dong, Kwang San-Ku. Kwang Ju. KOREA Tel. +82629542204 - Fax +82629542208



SYSTEMA FRANCE - 20 Bd. Deruelle - Le Britannia Bât. C 69003 Lyon FRANCE Tél. +33.4.37.48.01.00 - Fax: +33.4.78.71.02.46



SYSTEMA UK Ltd Unit 16 Borers Yard, Borers Arms Road, Copthorne West Sussex RH10 - 3LH, UK Tel. +441342718954 - Fax +441342718954 e-mail: systema@systemauk.go-plus.net

SYSTEMA ROMANIA - SOTEC GRUP srl Aleea Ilioara 1 BL. P.M. 29, 74587 ET. 1 AP43 BUCURESTI - ROMANIA Tel./Fax +40 212521628

MANUFACTURER OF GAS-FIRED AIRTIGHT HEATING SYSTEMS • RADIANT TUBES • RADIANT STRIPS • WARM AIR HEATERS · GAS-FIRED CONVECTORS · INDUSTRIAL OVENS

In order to improve its products, SYSTEMA S.p.A. reserves the right to modify contents without prior notice

imitates nature

UI Szadkowska 72 - 98220 Zduńska Wola - POLAND

SYSTEMA IL KWANG MACHINE INDUSTRY CO., LTD



e-mail: tmirela@mailbox.ro

