

FARM RANGE:
PORTABLE HEATERS
RUNNING ON DIESEL OIL,
NATURAL GAS
OR PROPANE GAS

FARM



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PROFESSIONAL QUALITY FOR ALL APPLICATIONS

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001/2000 =

FARM RANGE: HEAT BECOMES PRODUCTIVITY

THE MOST EFFICIENT, IMMEDIATE
AND ECONOMICAL SOLUTION
FOR AUTOMATIC HEATING
NEEDS IN GREENHOUSES AND
ANIMAL-REARING SHEDS



The FARM range of Arcotherm space heaters have been specifically designed for climatizing animal-rearing and greenhouse crops, where they provide the necessary heat for optimising productivity in any weather conditions. Born from a long and consolidated experience in the sector, they are built using state of the art engineering criteria to fully satisfy the needs of cost saving and efficiency.

Fully automatic and safe, they can run on diesel oil, LPG, natural gas or biogas. They are transportable or ceiling-mounted, requiring minimum installation and are easily adapted to any use or location. They are built using carefully selected materials and components, guaranteeing robustness, reliability and long life.

LOW COST OF PLANT

Farm space heaters are based on direct thermal exchange. Thanks to this they do not require the use of intermediate fluids such as water, nor pipes or fixed radiant elements. In this way:

- The initial investment is lower than that required by traditional systems.
- There is no risk of frost damage to the plant.

HIGH THERMAL PERFORMANCE AND SAVING ON RUNNING COSTS

With a maximum thermal performance of 91%, Farm space heaters allow the maximum saving on running costs too:



- The stainless steel combustion chamber with its cylindrical shape, assuring perfect aerodynamics, ensures the most favourable ratio between air flow and electric power absorbed.
- The high thermal performance is guaranteed by the high temperature resistant heat exchanger.
- The immediate full power and the ease of use allow the reduction of pre-heating times and permit the heat to be used intermittently too, thanks to a perfect adaptation to the specific environmental needs and/or the set times.

FUNCTIONAL AND EASY TO USE

- The large volume of hot air produced can be diffused freely or canalised.
- Completely automatic, Farm space heaters are simple to use and maintain: a few simple general cleaning operations of the components at the end of the season or the production cycle.
- The automatic burner – with the electronic control and safety devices – is available in a diesel oil version, using mechanical pulverisation, and in a gas version (LPG, natural gas or biogas), using blasted air.
- A special switch allows the use of the equipment in summer as a cooling fan.

RELIABILITY AND ABSOLUTE SAFETY

Advanced building design, quality of materials and uncompromising quality

control: Farm space heaters have been designed and built to work every time and anywhere in absolute safety.

- Any anomaly spotted by the control devices blocks the heater immediately.
- The propeller fan-motor unit has a safety grill.
- The electric panel, which is fully compliant with CEI standards, has a temperature relay, is ready to be connected to an ambient thermostat, humidistat or timer, is equipped with a “on” warning light, as well as a fuse and an electric power cable.
- All models are equipped with a FAN thermostat for automatic fan control, an automatic reset LIMIT thermostat and a manual reset LIMIT thermostat for safety cut-out in case of accidental overheating or malfunctioning.

A TOUGH RESISTANT STRUCTURE

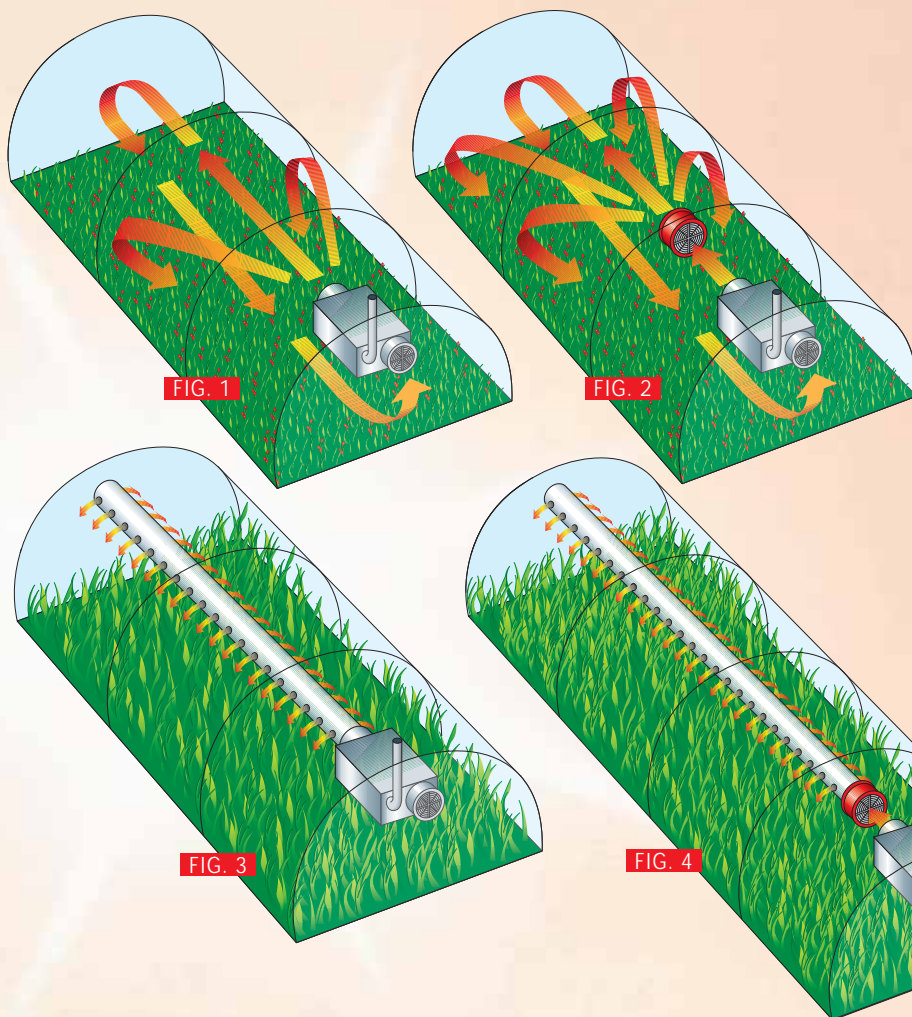
- The galvanised sheet metal body offers the best guarantees of resistance and long life also in the presence of corrosive agents.
- Easily removable double galvanised sheet metal insulating panels allow practical access for maintenance operations.
- Galvanised sheet metal profile used for load-bearing frame for FARM 150 and 200 models.

OTHER APPLICATIONS

The features of Farm space heaters make them ideal for use in a wide range of fields for temporary use, occasional use, emergency situations and permanent use.

AGRICULTURE: climatization of greenhouse crops in floriculture and horticulture.

ANIMAL-REARING AND OTHER FARM USE: heating of piggeries, cowsheds, stables, breeding, mushroom farming, agricultural warehouses, etc.; drying agricultural produce.



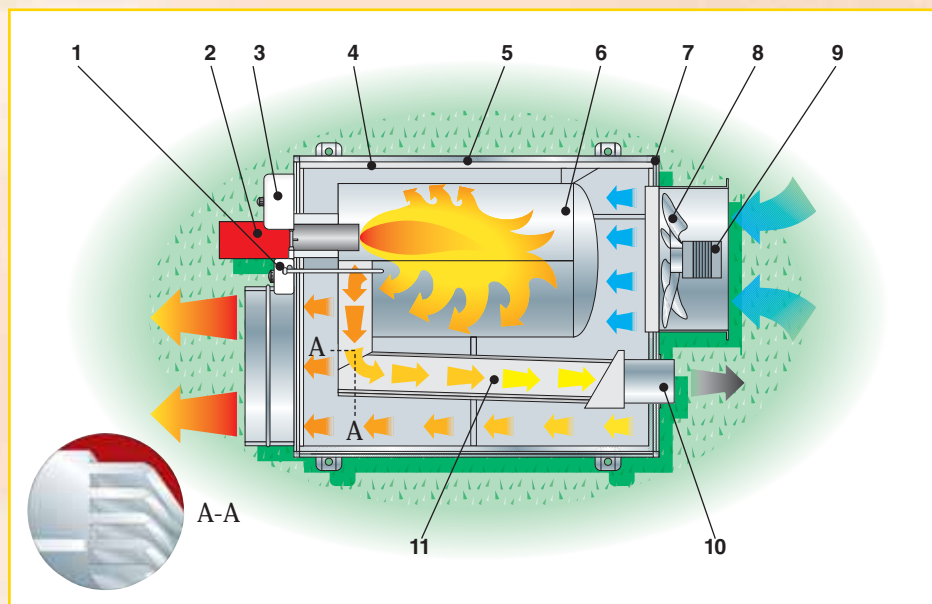
Biemmedue SpA also offers its customers a complete range of propeller fans. The ideal partner for FARM space heaters, the FJ fans optimise the diffusion of the heat, ensure a quick change of large volumes of air and the correct balance between temperature and humidity.

EXAMPLES OF INSTALLATION

According to the size of the premises, the crop cycles, etc., one or more space heaters may be used, establishing the ideal balance between the quantity of air and the heat required. Furthermore, where the situation requires it, the hot air can be distributed using pre-perforated hose and the plant can be connected to a fan.

- THE FARM SPACE HEATER WITH FREE DIFFUSION OF AIR (Fig. 1 and 2): this solution ensures the distribution of air in the whole volume – up to 50-70 m – and is ideal in case of animal-rearing or low crops. Use with an FJ fan improves the distribution of the heat thanks to the greater quantity of air.

- THE FARM SPACE HEATER WITH PRE-PERFORATED HOSE (Fig. 3 and 4): as the amount of air is directed locally and distributed uniformly, this solution is particularly suitable for high crops. In this case too, the presence of an FJ fan increases and improves the circulation of air.



- 1 FAN LIMIT THERMOSTAT
- 2 BURNER
- 3 CONTROL PANEL
- 4 ISOLATION PANEL - ZINC COATED STEEL
- 5 BODY - ZINC COATED STEEL
- 6 COMBUSTION CHAMBER - STAINLESS STEEL
- 7 FRAME - ZINC COATED STEEL
- 8 FAN
- 9 ELECTRICAL MOTOR
- 10 CHIMNEY CONNECTION
- 11 HEAT EXCHANGER

MODEL	HEATING POWER		HEATED AIR	AV. STATIC PRESSURE	TEMP. RISE	OIL CON-SUMPTION	CONSUMPTION AND GAS FEEDING PRESSURE			POWER SUPPLY	ELECTRICAL POWER	FLUE Ø	OUTLET HOSE Ø	DIMENSIONS (LxWxH)	WEI-GHT
	kW	kcal/h	m³/h	mm H ₂ O	°C	kg/h	G 20 Nm³/h - mbar	G 30 kg/h - mbar	G 31 kg/h - mbar	V, ~, Hz	W	mm	mm	mm	kg
FARM 65M	81,4	70.000	5.000	10	42	6,86	-	-	-	230, 1, 50	728	150	450	1.375x920x672	128
FARM 65T	81,4	70.000	5.000	10	42	6,86	-	-	-	230/400, 3, 50	607	150	450	1.375x920x672	128
FARM 90M	104,7	90.000	6.000	10	46	8,82	10,49-20	8,25-29	8,13-37	230, 1, 50	1.240	150	500	1.520x960x702	160
FARM 90T	104,7	90.000	6.000	10	46	8,82	10,49-20	8,25-29	8,13-37	230/400, 3, 50	930	150	500	1.520x960x702	160
FARM 90M/C	104,7	90.000	6.000	20	46	8,82	10,49-20	8,25-29	8,13-37	230, 1, 50	1.760	150	500	1.775x960x702	165
FARM 115M	133,7	115.000	8.000	10	44	11,27	13,41-20	10,55-29	10,39-37	230, 1, 50	1.690	200	600	1.695x1.090x772	195
FARM 115T	133,7	115.000	8.000	10	44	11,27	13,41-20	10,55-29	10,39-37	230/400, 3, 50	1.460	200	600	1.695x1.090x772	195
FARM 115M/C	133,7	115.000	8.000	20	44	11,27	13,41-20	10,55-29	10,39-37	230, 1, 50	2.600	200	600	2.075x1.090x772	200
FARM 150M	174,4	150.000	10.500	10	43	14,71	17,49-20	13,75-29	13,55-37	230, 1, 50	2.120	200	600	1.895x1.230x724	250
FARM 150T	174,4	150.000	10.500	10	43	14,71	17,49-20	13,75-29	13,55-37	230/400, 3, 50	1.860	200	600	1.895x1.230x724	250
FARM 150T/C	174,4	150.000	10.500	20	43	14,71	17,49-20	13,75-29	13,55-37	230/400, 3, 50	2.600	200	600	2.340x1.230x724	255
FARM 200M	220,9	190.000	12.500	10	47	18,63	22,15-20	17,42-29	17,16-37	230, 1, 50	2.850	200	700	2.180x1.400x804	360
FARM 200T	220,9	190.000	12.500	10	47	18,63	22,15-20	17,42-29	17,16-37	230/400, 3, 50	2.540	200	700	2.180x1.400x804	360
FARM 200T/C	220,9	190.000	12.500	20	47	18,63	22,15-20	17,42-29	17,16-37	230/400, 3, 50	4.330	200	700	2.660x1.400x924	370

The technical specifications are not binding and we reserve the right to change them without notice

- Automatic oil or lpg/natural gas burner
- Electronic flame-control
- Thermostats: FAN, LIMIT with automatic reset, LIMIT with manual reset
- Electric board
- Possibility of interface with thermostat or humidistat or timer
- Power cord
- Hanging devices fitted with suspending eyes for ceiling mounting
- Filter (oil version)

- Steel frame (FARM 150 and 200)
- Pre-heating of the combustion chamber
- Gas train (EN 676) (gas version): gas filter, gas governor, gas safety valve and gas working valve
- Double skinned body for thermo-acoustic insulation and safe low surface temperature
- Stainless steel combustion chamber with aerodynamic shape
- High temperature resistant heat exchanger
- Automatic post ventilation of unit

- Summer-winter switch for use as fan
- Silent centrifugal fan version: suggested in case of connection with long air duct as it ensures greater pressure
- On request biogas feeding



OIL



LPG



NATURAL GAS



BIOGAS



ACCESSORIES AVAILABLE:
A full range of accessories allows adaptation to any environmental or worksite: pipes, elbows and terminals in stainless steel for exhaust fumes, pre-perforated hose for the uniform diffusion of heat, flexible hoses for the distribution of air in different premises or on different floors, fire barriers, diesel oil filters, electronic thermostats for the environment, agriculture and worksites, timers.



Features of the version with a centrifugal fan: very silent, it is particularly suitable if canalised air distribution is used because it assures a higher static pressure.



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