



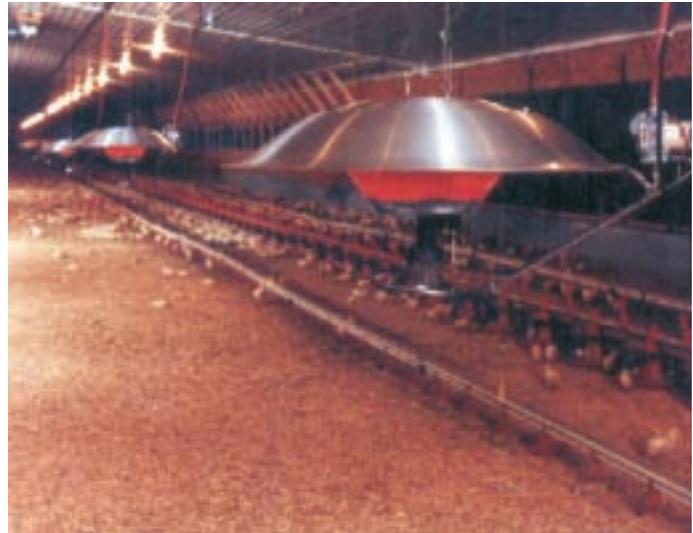
**ACME ENGINEERING &
MANUFACTURING CORP.**
P.O. Box 978
Muskogee, OK 74402
Phone: 918/682-7791
Fax: 800/382-2263
acmeag@acmefan.com

HEATERS

COZY HEAT AIR40

**40,000 BTU
RADIANT GAS BROODER**

The AIR40 is optimized for high efficiency brood heating.



FEATURES

- Acme's 40,000 BTU/HR Model AIR40 provides fuel efficient radiant gas heat for a variety of poultry applications
- Enclosed Insulation helps to maintain high efficiency - will not crumble or distort
- 4 Control Options to fit your individual need
- Factory Pre-assembled components for quick installation

DESCRIPTION

Unique 60° Emitter Angle Puts More Radiant Heat Into The Primary Brood Area

No other radiant gas brooder can provide more radiant heat to the floor of your poultry house than Acme's.

Our specially designed 60° stainless steel emitter angle, combined with our canopy, produce an optimum heat pattern in the primary brood area. This large radiant heat pattern established at floor level means fewer brooders are required in each house resulting in fuel savings.

Powerful and Fuel Efficient Radiant Heat

Acme Radiant Gas Brooders operate using the same principle as the sun. Before heating the air, radiant warmth is delivered directly to the birds and litter area where it's needed most.

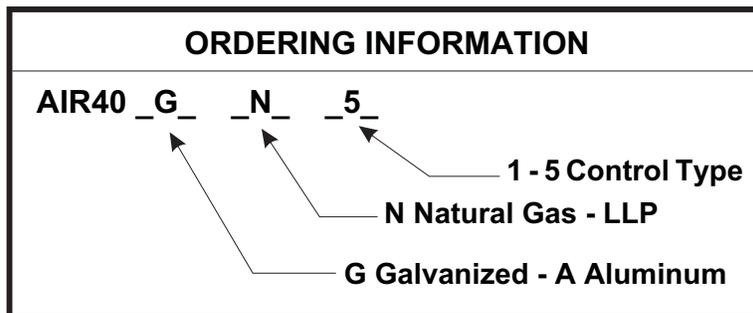
This warmth at floor level helps to dry out the litter area and keep ammonia levels lower. It also creates a thermal reservoir in the litter area, trapping and recycling the heat to save fuel. Savings that continue year after year.

Fully INSULATED, Enclosed Emitter Assembly For Durability & Efficiency

Acme's stainless steel emitter assembly is fully insulated and enclosed so the insulation will not crumble or distort in the tough operating conditions normally found in poultry houses. This exclusive design not only provides durability but also prevents heat loss back through the emitter that can occur over time. This results in higher radiant output and continued energy efficiency.

CONTROL TYPE	
2B	ZONE CONTROL For single or multi-zone installations using central or multiple thermostats. This 24-volt, AC, zone type control also can operate on DC voltages as a backup. The gas valve includes a built-in regulator. A 24-volt power supply is required. Brooder can be operated by a 24-volt thermostat, computer or an environmental controller. 100% gas safety shut-off valve.
3	MODULATING THERMOSTAT A modulating type HI/LO control with integral thermostat. No electrical supply is needed. Upon call for heat, the valve will open from pilot to low fire (approximately 25,000 BTU/hr) and modulate between low and high fire (40,000 BTU/hr) as necessary to maintain desired temperature setting. As the thermostat is being satisfied, the valve will modulate down to low fire and then drop to pilot upon being satisfied. 100% gas safety shut-off valve.
5	DIRECT SPARK IGNITION Brooder Control 5 is designed for single or multi-zone installations using one or more thermostats. A Zone Control or Environmental Computer is required to provide a 24-volt power supply to each brooder. The burner is controlled with a Direct Spark Ignition (DSI) Switch, which is designed to provide 100% gas shut-off of the main valve in the event that the main burner flame is not sensed.
9A	NON-MODULATING OPERATION An individual, non-electric, fully automatic ON/OFF control with integral thermostat, which operates on millivolts generated by the pilot. No electrical supply is needed. Integral thermostat features a wide temperature range for easy adjustment. 100% gas safety shut off valve.

Model AIR40 Specifications			
INPUT RATING (LP OR NAT)		40,000 BTU/HR	11.72 kW
GAS SUPPLY PRESSURE	LP NATURAL	12-14 IN. W.C. 6-14 IN.W.C.	30-35 mbar 15-35 mbar
MOUNTING HEIGHT		60-72 IN.	1520-1830 mm
BROODER SPACING		25-40 FT.	7.6-12.2 m
BROODER SIZE	CANOPY DIAMETER BROODER HEIGHT	35 IN. 18 IN.	890 mm 460mm
WEIGHT		23 LBS.	10.5 kg
VENTILATION REQUIRED	PER BROODER	200 CFM	340 cum/hr
GAS CONSUMPTION	LP NATURAL	.43 GPH .40 THERM	1.63 1/hr 42.2 MJ/hr
MINIMUM CLEARANCE TO COMBUSTIBLES	SIDE TOP BELOW	36 IN. 18 IN. 48 IN.	915 mm 460 mm 1220 mm



LIMITED WARRANTY Acme Engineering and Manufacturing Corporation extends this limited warranty to the original buyer and warrants that the AIR40 Heater shall be free from original defects in workmanship and materials for one year from date of shipment and AIR40 Emitter warranty three years from date of shipment, provided same have been properly handled, stored, installed, serviced, maintained and operated. Refer to Form MS149 for complete limited warranty terms and conditions. This form is available to anyone at www.acmefan.com. In order to prevent bodily injury, death, or destruction of livestock and property, all product safety data must be followed.

WARNING Acme products are designed and manufactured to provide reliable per-

formance but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures and this possibility should be recognized by the User. If these products are used in a life support ventilation system where failure could result in loss or injury, the User should provide adequate back-up ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

WARNING DO NOT use in HAZARDOUS ENVIRONMENTS where fan's electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments. Comply with all local and national safety codes including the National Electric

Code (NEC) and National Fire Protection Act (NFPA).

CAUTION Guards must be installed when fan is within reach of personnel or within seven (7) feet (2.134 m) of working level or when deemed advisable for safety.

DISCLAIMER The Company has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions or dimension.