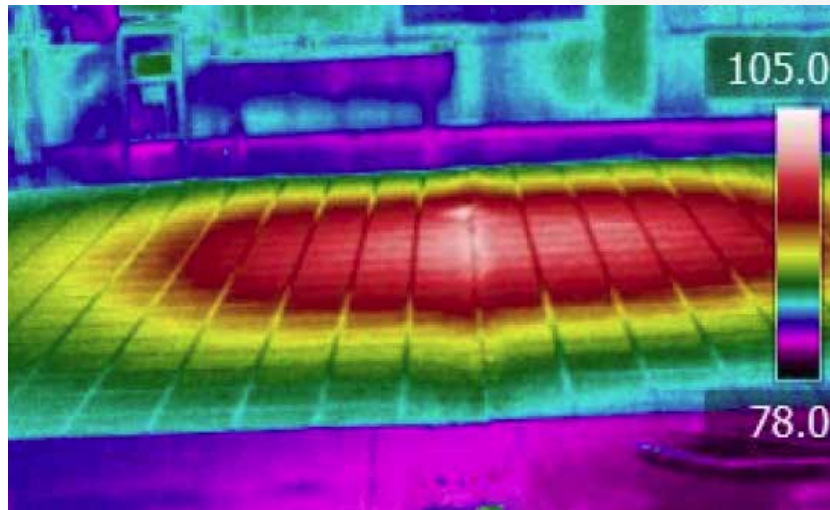


AV2 **SERIES**

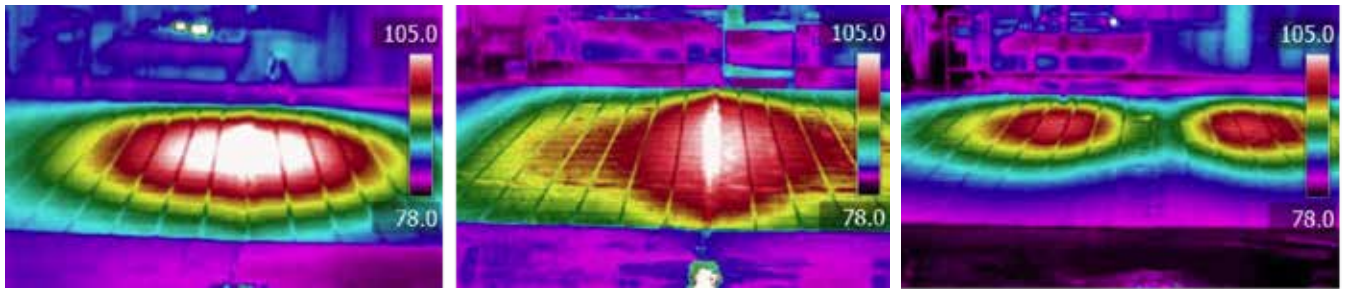
RADIANT HEATER

Uniform HEAT DISTRIBUTION

AV2 Series heaters utilize separate upper and lower tube temperatures and a series of reflectors to distribute heat more uniformly throughout the building, creating an even comfort zone for birds.



AV SERIES HEAT PATTERN



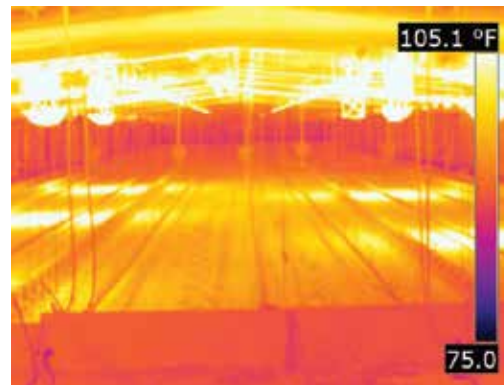
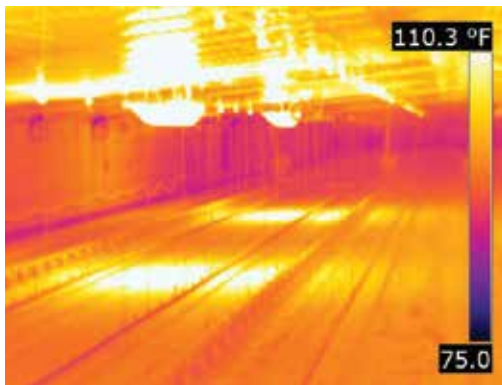
Other radiant heater designs direct heat to specific zones creating hot spots or uneven pockets of heat causing birds to pool to those locations.

- Upper combustion tubes contain the flame and operate at higher temperatures.
- Lower tubes are designed to distribute a lesser radiant energy resulting in reduced hot spots directly under the units and more uniform floor temperatures across the house.
- The U-bend at the end of the heaters have a separate end reflector directing the energy outwards, allowing optimum uniformity between units.
- The highly polished aluminum reflectors allow optimum heat pattern for best uniformity.



Features:

- Totally enclosed electronics and burner system.
- Offered in single stage (80,000 BTU) or dual stage (50 – 80,000 BTU) to maximize fuel efficiencies.
- Indicator lights display if unit is in low or high fire at a glance.
- Low pressure system eliminates need for high pressure gas lines inside house.
- Fresh air intake kit (attic version) with 4"x29" duct pipe, intake cap, chain hanging kit, and exhaust flapper cap are standard with each heater.
- Easily access key components through an end service panel without having to remove the heater from suspension chains.
- Option to vent exhaust outside.
- Option to duct fresh air from other locations than attic to ensure clean combustion and reduce maintenance.



AV Series Heat Distribution - Infrared photos courtesy of Auburn University, National Poultry Technology Center (House pictured is 66' wide)

AV2 Series Heater Specifications

Heating Capacity (Maximum per Hour)				
Direct Spark Ignition (3 Tries Before Lockout)			80,000 BTU	20,160 Kcal
Maximum Gas Consumption				
LP			.87 gph	3.29 l/h
Natural Gas			75.5 cfh	2.14 m3/h
Gas Pressure Requirements (Measured on Pressure Tap on Valve with Unit Running)				
LP	Minimum	11.0" wc	Maximum	14.0" wc
NG	Minimum	5.0" wc	Maximum	14.0" wc
Heater Size & Weight Information				
Weight Per Complete Unit			140 lbs.	64 kg
Shipping Dimensions - Burner Box 31.5"L x 17.5"W x 15.5"H , Tube Box 98.5"L x 29.25"W x 13"H				
Installed Dimensions (LxWxH)			112"x25.5"x13"	285x65x33 (cm)
Installation Guidelines				
Minimum Height from Floor (Measure from Floor to Bottom of Unit)			6 - 9 Feet	1.8 - 2.7 Meters
Space Between Heaters			40 - 60 Feet	12.2 - 18.3 Meters
Minimum Clearance to Combustibles				
Sides of Heater			36"	91 cm
Above Heater			10"	25 cm
Below Heater			40"	102 cm
Electrical Requirements				
AVD (Dual Stage) - 120v 60Hz GRD, 3 wire, 24vac thermostat connection				
AVS (Single Stage) -120v 60Hz GRD, 3 wire				
Starting Current - 1.5 amps				
Running Current - 1.1 amps				
Sensor Location Specifications				
Sensor should be placed over the feed or drinker line.				
Sensor should be no more than 12' to the side from the center of the unit and 10' length wise from the end of the unit.				



For more information, contact your Cumberland representative or visit cumberlandpoultry.com