

Brooder Specifications

Type	Large Infrared Brooder	High-Capacity High-Pressure Brooder (Shipped pre-assembled)	Small Infrared Brooder	Convection Brooder
Unit Name	SHEN GLOW®	SHEN GLOW® HP	SHEN BEAM®	SHEN VEC™
Heating area per unit	800-1000 sq. ft. (74.3-92.9 m ²)	800-1000 sq. ft. (74.3-92.9 m ²)	250-400 sq. ft. (23.2-37.2 m ²)	250-400 sq. ft. (23.2-37.2 m ²)
Capacity (maximum per hour)				
Pilot Ignition (Note: Brooder pilots burn at 2,000 BTUs per hour and can withstand 5 mph wind speed.)	42,000 BTU (10,584 Kcal)	Not Available	25,000 BTU (6,300 Kcal)	31,000 BTU (7,811 Kcal)
Direct Spark Ignition	40,000 BTU (10,080 Kcal)	40,000 BTU (10,080 Kcal)	23,000 BTU (5,796 Kcal)	Not Available
Modulation Range				
Range per Hour	Not Available	Not Available	10,000-25,000 BTU (2,520-6,300 Kcal)	Not Available
Gas Consumption (maximum) Pilot Ignition				
LP	0.46 gph (1.74 l/h)	Not Available	0.27 gph (1.02 l/h)	0.34 gph (1.29 l/h)
Natural Gas	39.9 cfh (1.13 m ³ /h)	Not Available	23.8 cfh (0.67 m ³ /h)	29.3 cfh (0.83 m ³ /h)
Gas Consumption (maximum) Direct Spark Ignition				
*LP Brooder with Natural Gas Conversion Kit				
LP	0.44 gph (1.67 l/h)	0.44 gph (1.67 l/h)	0.25 gph (0.95 l/h)	0.32 gph (1.21 l/h)
Natural Gas	37.8 cfh (1.07 m ³ /h)	37.8 cfh (1.07 m ³ /h)*	21.9 cfh (0.62 m ³ /h)	27.4 cfh (0.78 m ³ /h)
Gas Pressure Requirements (measured at unit for SHEN GLOW® HP and at pressure tap on valve with unit running for other models)				
LP	11" WC (27.5 Mbar)	5 psi max (350 Mbar max)	11" WC (27.5 Mbar)	11" WC (27.5 Mbar)
Natural Gas	7" WC (17.5 Mbar)	5 psi max (350 Mbar max)*	7" WC (17.5 Mbar)	7" WC (17.5 Mbar)
Heater Size, Weight & Assembly Information				
Weight per Complete Unit	18-26 lbs. (8.2-11.8 kg)	18-26 lbs. (8.2-11.8 kg)	18-28 lbs. (8.2-12.7 kg)	15-32 lbs. (6.8-14.5 kg)
Canopy Width Options (Aluminum or Galvanized)	34 in. (86.4 cm)	34 in. (86.4 cm) Heavy-Duty Aluminum Only	34 or 46 in. (86.4 or 116.8 cm)	34 or 46 in. (86.4 or 116.8 cm)
Height	14 in. (35.6 cm)	14 in. (35.6 cm)	17.5 in. (44.5 cm)	20.5 in. (52.1 cm)
Operational Guidelines for Brooding Area (adjust up or down depending on housing construction/condition and climate)				
Height from floor (measure from edge of canopy)	60-72 in. (152.4-182.9 cm)	60-72 in. (152.4-182.9 cm)	30-36 in. (76.2-91.4 cm)	30-36 in. (76.2-91.4 cm)
Space between brooders/side	25-40 ft. (7.6-12.2 m)	25-40 ft. (7.6-12.2 m)	15-25 ft. (4.6-7.6 m)	10-20 ft. (3.0-6.1 m)
Minimum Clearance to Combustibles				
Sides of Brooder/Heater	36 in. (90 cm)	36 in. (90 cm)	30 in. (75 cm)	26 in. (65 cm)
Above Brooder/Heater	14 in. (35 cm)	14 in. (35 cm)	12 in. (30 cm)	10 in. (25 cm)
Below Brooder/Heater	48 in. (120 cm)	48 in. (120 cm)	30 in. (75 cm)	30 in. (75 cm)
Control Options (Electrical Requirements - Direct Spark Zone Control 24 V AC - Pilot Zone Control 24 V AC)				
Electronic Zone Control (Maximum brooders per zone - 40 pilot or 18 direct spark)	Pilot or Direct Spark	Direct Spark (120 volts)	Pilot or Direct Spark	Pilot
On-Off Individual Control	Pilot	Not Applicable	Pilot	Pilot
Modulating Individual Control	Not Applicable	Not Applicable	Pilot	Pilot
Manifold Zone Control (Maximum brooders per zone - 20)	Not Applicable	Not Applicable	Not Applicable	Available

The policy of Shenandoah is one of continuous product improvement. We reserve the right to alter specifications without prior notice.
Heating products should be installed only in accordance with local laws, codes and regulations. These products are not for residential use.
Gas pipe layout assistance available to customers through authorized distributor

CSA (Canadian Standards Association) approved models are available.
All models meet stringent standards for low carbon monoxide.



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