



Brooder Specifications

Type	Large Infrared Brooder	High-Pressure Brooder (Unit is shipped pre-assembled)	Small Infrared Brooder	Convection Brooder
Unit Name	CHORE-TIME Ultra-Ray®	CHORE-TIME Ultra-Ray® HP	CHORE-TIME Ultra-Ray® LITE	CHORE-TIME ULTRA-VECTION™
Heating area per unit	800-1,000 sq. ft. (74.3-92.9 m ²)	800-1,000 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 that brooder pilots burn at 2,000 BTUs (0.59 KwHr) per hour and can withstand 5 mph wind speed.	42,000 BTU (12.31 KwHr)	Not Available	25,000 BTU (7.33 KwHr)	31,000 BTU (9.09 KwHr)
Direct Spark Ignition	40,000 BTU (11.72 KwHr)	40,000 BTU (11.72 KwHr)	23,000 BTU (6.74 KwHr)	Not Available
Modulation Range				
Range per Hour	Not Available	Not Available	10,000-25,000 BTU (2.93-7.33 KwHr)	17,000-31,000 BTU (4.98-9.09 KwHr)
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 CHORE-TIME Ultra-Ray® HP Model 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 VAC – Pilot Zone Control 24 VAC)				
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 Chore-Time 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 distributors. CSA (Canadian Standards Association) approved models are available. All models meet stringent standards for low carbon monoxide.

Reliable Control Options See Brooder Specification Chart above for which controls can be used with each style of brooder.

ZONE CONTROLS: Allow one thermostat or control to regulate all brooders in a specified area.				INDIVIDUAL CONTROLS: Allow control of each individual brooder independently of the others.	
Electronic (Pilot)	Electronic (Direct Spark)	Electronic High-Pressure (Direct Spark)	Manifold	Modulating (Pilot)	On-Off (Pilot)
Mounted on each individual brooder with up to 40 brooders per zone	Mounted on each individual brooder with up to 18 brooders per zone	Mounted on each individual brooder with maximum per zone determined by thermostat or control used	One manifold per zone with up to 20 brooders per zone	Mounted on each individual brooder	Mounted on each individual brooder
Includes 100% safety cut-off valve	Reliable ignition uses less fuel with no pilot and gives three tries before lockout	Reliable ignition uses less fuel with no pilot and gives three tries before lockout	Available with step rate control or modulating	Combines a snap-action thermostat with 100% safety cut-off valve	Combines a snap-action thermostat with 100% safety cut-off valve
24 V AC	24 V AC	120 V AC	120 V AC	No electricity needed	No electricity needed
Can be powered by a battery back-up system or generator	Can be powered by a back-up generator	Can be powered by a back-up generator	Not applicable	Modulates between maximum and minimum BTU rates before snapping off at control setting	Snaps from high to off based on control setting