

## Engineering Submittal Data

### **EZ, EZU, SH & SHU straight and U shape radiant tube heaters.**

Adding the letter B to the prefix indicates a brooder model.

Adding the suffix LTH indicates dual input with the low input being 70% of the high input.

Adding the suffix CW indicates a car wash heater.

<b>Model</b>	<b>O/A Length</b>	<b>Input (BTU)</b>	<b>Weight</b>
EZ(SH)60-20	21 ft. 8" / 6.6 m	60,000	90 lbs / 40.82 kg
EZ(SH)75-20	21 ft. 8" / 6.6 m	60,000 – 75,000	90 lbs / 40.82 kg
EZ(SH)80-20	21 ft. 8" / 6.6 m	60,000 – 80,000	90 lbs / 40.82 kg
EZ(SH)85-30	31 ft. 5" / 9.56 m	60,000 – 85,000	105 lbs / 47.63 kg
EZ(SH)100-30	31 ft. 5" / 9.56 m	70,000 – 100,000	105 lbs / 47.63 kg
EZ(SH)125-30	31 ft. 5" / 9.56 m	90,000 – 125,000	105 lbs / 47.63 kg
EZ(SH)100-40	41 ft. 2" / 12.55 m	70,000 – 100,000	130 lbs / 58.97 kg
EZ(SH)125-40	41 ft. 2" / 12.55 m	90,000 – 125,000	130 lbs / 58.97 kg
EZ(SH)150-40	41 ft. 2" / 12.55 m	105,000 – 150,000	130 lbs / 58.97 kg
EZ(SH)160-40	41 ft. 2" / 12.55 m	112,000 – 160,000	130 lbs / 58.97 kg
EZ(SH)125-50	50 ft. 11" / 15.5 m	90,000 – 125,000	150 lbs / 68.04 kg
EZ(SH)135-50	50 ft. 11" / 15.5 m	95,000 – 135,000	150 lbs / 68.04 kg
EZ(SH)150-50	50 ft. 11" / 15.5 m	105,000 – 150,000	150 lbs / 68.04 kg
EZ(SH)165-50	50 ft. 11" / 15.5 m	115,000 – 165,000	150 lbs / 68.04 kg
EZ(SH)165-60	60 ft. 8" / 18.5 m	115,000 – 165,000	165 lbs / 74.84 kg
EZ(SH)200-60	60 ft. 8" / 18.5 m	160,000 – 200,000 (180,000 L.P.)	165 lbs / 74.84 kg
EZ(SH)200-70	70 ft. 5" / 21.46 m	160,000 – 200,000 (180,000 L.P.)	180 lbs / 81.65 kg
EZU(SHU)60-10	11 ft. 11" / 3.63 m	60,000	90 lbs / 40.82 kg
EZU(SHU)75-10	11 ft. 11" / 3.63 m	60,000 – 75,000	90 lbs / 40.82 kg
EZU(SHU)80-10	11 ft. 11" / 3.63 m	60,000 – 80,000	90 lbs / 40.82 kg
EZU(SHU)85-15	16 ft. 8" / 5.08 m	60,000 – 85,000	105 lbs / 47.63 kg
EZU(SHU)100-15	16 ft. 8" / 5.08 m	70,000 – 100,000	105 lbs / 47.63 kg
EZU(SHU)125-15	16 ft. 8" / 5.08 m	90,000 - 125,000	105 lbs / 47.63 kg
EZU(SHU)100-20	21 ft. 8" / 6.6 m	70,000 – 100,000	130 lbs / 58.97 kg
EZU(SHU)125-20	21 ft. 8" / 6.6 m	90,000 – 125,000	130 lbs / 58.97 kg
EZU(SHU)150-20	21 ft. 8" / 6.6 m	105,000 – 150,000	130 lbs / 58.97 kg
EZU(SHU)125-30	31 ft. 5" / 9.56 m	90,000 – 125,000	165 lbs / 74.84 kg
EZU(SHU)135-30	31 ft. 5" / 9.56 m	95,000 – 135,000	165 lbs / 74.84 kg
EZU(SHU)150-30	31 ft. 5" / 9.56 m	105,000 – 150,000	165 lbs / 74.84 kg
EZU(SHU)165-30	31 ft. 5" / 9.56 m	115,000 – 165,000	165 lbs / 74.84 kg
EZU(SHU)200-30	31 ft. 5" / 9.56 m	160,000 – 200,000 (180,000 L.P.)	165 lbs / 74.84 kg

### **CLEARANCES TO COMBUSTIBLES**

<b>BTU RANGE</b>	<b>BELOW</b>	<b>TOP</b>	<b>SIDES</b>	<b>BACK (Angle Mount)</b>
60,000 - 150,000	48" / 121.92 cm	4" / 10.16 cm	25" / 63.5 cm	16" / 40.64 cm
150,001-165,000	58" / 147.32 cm	4" / 10.16 cm	25" / 63.5 cm	16" / 40.64 cm
165,001–200,000	74" / 187.96 cm	4" / 10.16 cm	25" / 63.5 cm	16" / 40.64 cm

Clearances "below" can be reduced by 40% beginning 15 ft. downstream of burner.



<b>FOR YOUR SAFETY</b> IF YOU SMELL GAS	<b>Consignes De Securite</b> SI VOUS SENTEZ UNE ODEUR DE GAZ
1. Open windows	1. Ouvrez les fenetres
2. Do not touch electrical switches, or telephone	2. Ne touchez pas aux interrupteurs electriques
3. Extinguish any open flame	3. Eteignez toute flamme nue
4. Immediately call your fuel supplier	4. Contactez immediatement compagnie de gaz
5. If your gas supplier is not available, call the fire department	5. Si votre fournisseur de gaz n'est pas disponible, appeler les pompiers.
6. Do not attempt to light this or any other appliance	6. Ne pas tenter d'allumer ceci ou aucun autre appareil.

**For Indoor Installation only. Not for use in residential dwellings**  
**Installation a l'interieur seulement. Ne pas installer dans un logement.**

<b>Gas Supply</b>	<b>Natural Gas</b>	<b>Propane</b>	<b>Electrical</b>	
Manifold Pressure	3.5" W.C.	10.0" W.C.	120 volts 60Hz	
Min. Inlet Pressure	7.0" W.C.	11.5" W.C.	Starting Current	3 amps
Max. Inlet Pressure	14.0" W.C.	14.0" W.C.	Running Current	1 amp
Max. Outlet Pressure	3.5" W.C.	10.0" W.C.	Thermostat Control	120V (Standard)
Gas Connection	½ in. N.P.T.			24V (optional)
Combustion Air Inlet	4" O.D.		Ignition System 120 volts Hot Surface Ignition	
Vent Connection	4" O.D.		(glow bar)	

## CLEARANCES TO COMBUSTIBLES

The clearance to combustible materials represents the minimum distance that must be maintained between the heater and a nearby surface.

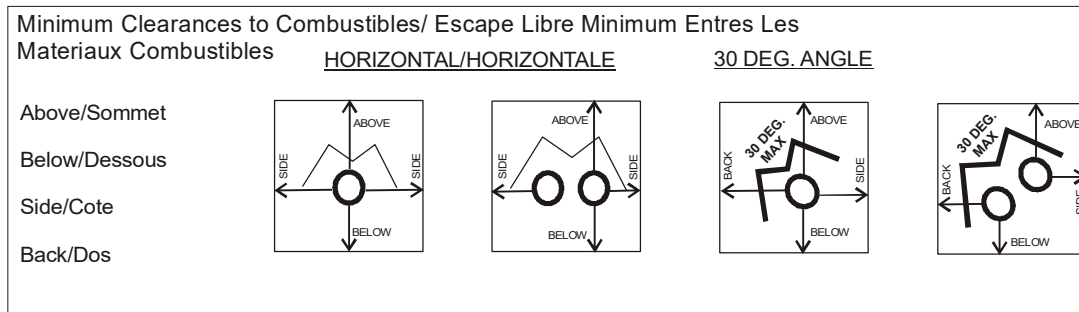
The stated clearance to combustibles represents a surface temperature of 90 degree Fahrenheit (32 degrees Celsius) above room temperature. Building material with a low heat tolerance may be subject to degradation of lower temperatures. It is the installer's responsibility to assure that adjacent material are not subject to degradation.

A warning statement that an overhead heater should be installed so that the minimum clearances marked on the heater will be maintained from vehicles parked below the heater.

Minimum clearances (inches) from combustibles measured from radiant surface.

Clearances are reduced by 1/3, 15 ft (4.6 meters) from the burner.

For installation at elevations above 2000 ft (610m), the appliance shall be de-rated 4 percent for each 1000 ft (305m) of elevation above sea level.



## CLEARANCES TO COMBUSTIBLES

Model	Length ft. Approx	Input (BTU)	Hangers	Weight lbs Approx	Clearance to Combustibles (inches)			
					BELOW	SIDES	TOP	BACK(45 DEGREES)
EZ(SH)60-20	21'8"	60,000	4	91	48	25	4	16
EZ(SH)75-20	21'8"	60,000 to 75,000	4	91	48	25	4	16
EZ(SH)80-20	21'8"	80,000	4	91	48	25	4	16
EZ(SH)85-30	31'5"	60,000 to 85,000	6	124	48	25	4	16
EZ(SH)100-30	31'5"	70,000 to 100,000	6	124	48	25	4	16
EZ(SH)100-40	41'2"	70,000 to 100,000	8	158	48	25	4	16
EZ(SH)125-30	31'5"	110,000 to 125,000	6	124	48	25	4	16
EZ(SH)125-40	41'2"	90,000 to 125,000	8	158	48	25	4	16
EZ(SH)125-50	50'11"	90,000 to 125,000	10	186	48	25	4	16
EZ(SH)135-50	50'11"	95,000 to 135,000	10	186	48	25	4	16
EZ(SH)150-40	41'2"	130,000 to 150,000	8	158	48	25	4	16
EZ(SH)150-50	50'11"	105,000 to 150,000	10	186	48	25	4	16
EZ(SH)160-40	41'2"	155,000 to 160,000	8	158	58	25	4	16
EZ(SH)165-50	50'11"	115,000 to 165,000	10	186	58	25	4	16
EZ(SH)165-60	60'8"	115,000 to 165,000	12	220	58	25	4	16
EZ(SH)200-60	60'8"	170,000 to 200,000	12	220	74	32	4	16
EZ(SH)200-70	70'5"	170,000 to 200,000	14	253	74	32	4	16
Model	Length ft. Approx	Input (BTU)	Hangers	Weight lbs. Approx	Clearance to Combustibles (inches)			
					BELOW	SIDES	TOP	BACK(45 DEGREES)
EZU(SHU)60-10	11'11"	60,000	2	90	48	25	4	16
EZU(SHU)75-10	11'11"	60,000 to 75,000	2	90	48	25	4	16
EZU(SHU)80-10	11'11"	80,000	2	90	48	25	4	16
EZU(SHU)85-15	16'8"	60,000 to 85,000	4	123	48	25	4	16
EZU(SHU)100-15	16'8"	70,000 to 100,000	4	123	48	25	4	16
EZU(SHU)125-15	16'8"	110,000 to 125,000	4	123	48	25	4	16
EZU(SHU)100-20	21'8"	70,000 to 100,000	4	153	48	25	4	16
EZU(SHU)125-20	21'8"	90,000 to 125,000	4	153	48	25	4	16
EZU(SHU)125-30	31'5"	90,000 to 125,000	6	185	48	25	4	16
EZU(SHU)135-30	31'5"	95,000 to 135,000	6	185	48	25	4	16
EZU(SHU)150-20	21'8"	130,00 to 150,000	4	153	48	25	4	16
EZU(SHU)150-25	26'6"	105,000 to 150,000	6	190	48	25	4	16
EZU(SHU)150-30	31'5"	105,000 to 150,000	6	185	48	25	4	16
EZU(SHU)160-20	21'8"	155,000 to 160,000	4	153	58	25	4	16
EZU(SHU)165-25	26'6"	115,000 to 165,000	6	190	58	25	4	16
EZU(SHU)165-30	31'5"	115,000 to 165,000	6	211	58	25	4	16
EZU(SHU)200-30	31'5"	170,000 to 200,000	6	211	74	32	4	16
EZU(SHU)200-35	37'5"	170,000 to 200,000	8	247	74	32	4	16

N.B. 200,000 BTU input is natural gas only...180,000 BTU for LP

Brooder models must not be installed closer than 60" to the floor.

Clearances "below" on straight models can be reduced by 40%, 15ft. downstream of burner.

**N.B. 200,000 BTU not available for high altitude.**

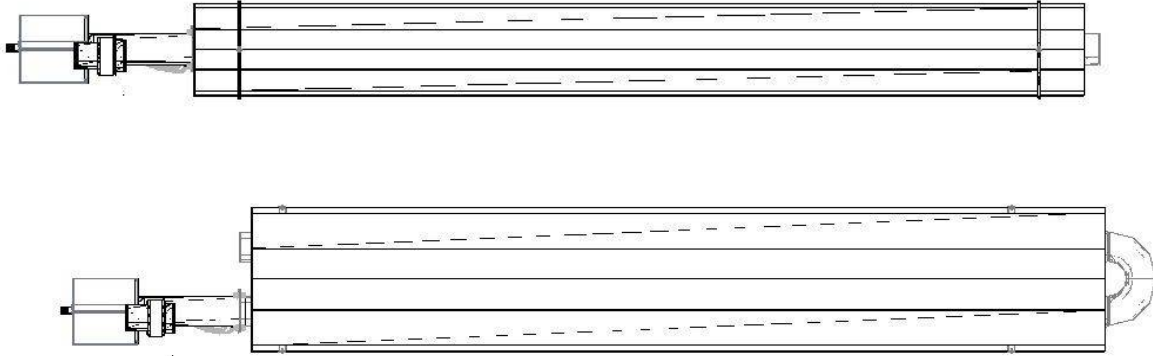
## CLEARANCES TO COMBUSTIBLES

Model	Length meters Approx	Input (BTU)	Hangers	Weight kg Approx	Clearance to Combustibles (cm)			
					BELOW	SIDES	TOP	BACK(45 DEGREES)
EZ(SH)60-20	6.6	60,000	4	41	122	64	10	41
EZ(SH)75-20	6.6	60,000 to 75,000	4	41	122	64	10	41
EZ(SH)80-20	6.6	80,000	4	41	122	64	10	41
EZ(SH)85-30	9.6	60,000 to 85,000	6	56	122	64	10	41
EZ(SH)100-30	9.6	70,000 to 100,000	6	56	122	64	10	41
EZ(SH)100-40	12.6	70,000 to 100,000	8	72	122	64	10	41
EZ(SH)125-30	9.6	110,000 to 125,000	8	56	122	64	10	41
EZ(SH)125-40	12.6	90,000 to 125,000	8	72	122	64	10	41
EZ(SH)125-50	15.5	90,000 to 125,000	10	84	122	64	10	41
EZ(SH)135-50	15.5	95,000 to 135,000	10	84	122	64	10	41
EZ(SH)150-40	12.6	135,000 to 150,000	8	72	122	64	10	41
EZ(SH)150-50	15.5	105,000 to 150,000	10	84	122	64	10	41
EZ(SH)160-40	12.5	155,000 to 160,000	8	72	148	82	10	41
EZ(SH)165-50	15.5	115,000 to 165,000	10	84	148	82	10	41
EZ(SH)165-60	18.5	115,000 to 165,000	12	100	148	82	10	41
EZ(SH)200-60	18.5	170,000 to 200,000	12	100	188	82	10	41
EZ(SH)200-70	21.5	170,000 to 200,000	14	115	188	82	10	41
Model	Length meters Approx	Input (BTU)	Hangers	Weight kg Approx	Clearance to Combustibles (cm)			
					BELOW	SIDES	TOP	BACK(45 DEGREES)
EZU(SHU)60-10	3.6	60,000	2	41	122	64	10	41
EZU(SHU)75-10	3.6	60,000 to 75,000	2	41	122	64	10	41
EZU(SHU)80-10	3.6	80,000	2	41	122	64	10	41
EZU(SHU)85-15	5.1	60,000 to 85,000	4	57	122	64	10	41
EZU(SHU)100-15	5.1	70,000 to 100,000	4	57	122	64	10	41
EZU(SHU)125-15	5.1	110,000 to 125,000	4	57	122	64	10	41
EZU(SHU)100-20	6.6	70,000 to 100,000	4	70	122	64	10	41
EZU(SHU)125-20	6.6	90,000 to 125,000	4	70	122	64	10	41
EZU(SHU)125-30	9.6	90,000 to 125,000	6	96	122	64	10	41
EZU(SHU)135-30	9.6	95,000 to 135,000	6	96	122	64	10	41
EZU(SHU)150-20	6.6	135,00 to 150,000	4	70	122	64	10	41
EZU(SHU)150-25	8.1	105,000 to 150,000	6	86	122	64	10	41
EZU(SHU)150-30	9.6	105,000 to 150,000	6	96	122	64	10	41
EZU(SHU)160-20	6.6	155,000 to 160,000	4	70	148	82	10	41
EZU(SHU)165-25	8.1	115,000 to 165,000	6	58	148	82	10	41
EZU(SHU)165-30	9.6	115,000 to 165,000	6	65	148	82	10	41
EZU(SHU)200-30	9.6	170,000 to 200,000	6	65	188	82	10	41
EZU(SHU)200-35	11.4	170,000 to 200,000	8	76	188	82	10	41

N.B. 200,000 BTU input is natural gas only...180,000 BTU for LP  
 Brooder models must not be installed closer than 153 cm to the floor.  
 Clearances “below” on straight models can be reduced by 40%, 4.6m downstream  
 of burner.

**N.B. 200,000 BTU not available for high altitude**

## CONTROL BOX AND BURNER HOUSING DIMENSIONS:



<p style="text-align: center;">Top View</p>		
<p style="text-align: center;">Side View</p>		
<p>Material:</p> <p>CONFIDENTIALITY</p> <p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES</p> <p>DO NOT SCALE</p>	<p><b>EASY RADIANT "WORKS"</b></p> <p>12288 Brawn Side Road #22 Wainfleet, Ont., Canada L0S 1V0          Phone: 905-899-3473 Fax: 905-899-2262</p>	<p>Title: <b>Blower Assembly</b></p> <p>Drawing #:</p> <p>Design By: SC      Drawn By: GL</p> <p>Approved by: SC      Date: 2011-08-25</p>