

BTU ANALYSIS FOR L&L HERCULES EASY-LOAD FRONT-LOADING KILNS FOR HVAC CALCULATIONS

These tables can be used to calculate maximum BTU output into a room when firing a kiln at various temperatures.
It is meant for HVAC calculations.

MODEL NUMBER	INTERIOR DIMENSIONS			Cubic Feet	K.W.	Square Inches of surface area			Total BTU loss/Hr at 1800 Deg F				Total BTU loss/Hr at 2000 Deg F				Total BTU loss/Hr at 2350 Deg F			
	Width	Depth	Height to Bottom of Arch			Floor	Side, Back, Door	Roof	Floor	Side, Back, Door	Roof	TOTAL	Floor	Side, Back, Door	Roof	TOTAL	Floor	Side, Back, Door	Roof	TOTAL
EL2424H	25	25	22	8.0	15.0	625	2200	688	1293	4400	229	5923	1549	5286	1055	7891	2088	6997	1423	10508
EL2427H	25	25	27	9.8	16.5	625	2700	688	1293	5400	229	6923	1549	6488	1055	9092	2088	8588	1423	12098
EL2436	25	25	34	12.3	19.0	625	3400	688	1293	6800	229	8323	1549	8169	1055	10774	2088	10814	1423	14324
EL2448	25	25	46	16.6	24.2	625	4600	688	1293	9200	229	10723	1549	11053	1055	13657	2088	14631	1423	18141
EL2848	31	25	46	20.6	27.0	775	5152	853	1604	10304	284	12192	1921	12379	1308	15609	2589	16386	1764	20739
EL3048	31	31	46	25.6	31.5	961	5704	1057	1989	11408	352	13749	2382	13705	1622	17710	3210	18142	2188	23540

WALLS

BTU'S HEAT LOSS PER SQ FT PER HOUR AT 1800 DEGF:	288	BTU's per Square Foot per hour
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 2000 DEGF:	346	BTU's per Square Foot per hour
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 22350 DEGF:	458	BTU's per Square Foot per hour

FLOOR

BTU'S HEAT LOSS PER SQ FT PER HOUR AT 1800 DEGF:	298	BTU's per Square Foot per hour
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 2000 DEGF:	357	BTU's per Square Foot per hour
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 22350 DEGF:	481	BTU's per Square Foot per hour

ARCHED ROOF

BTU'S HEAT LOSS PER SQ FT PER HOUR AT 1800 DEGF:	48	BTU's per Square Foot per hour
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 2000 DEGF:	221	BTU's per Square Foot per hour
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 22350 DEGF:	298	BTU's per Square Foot per hour