

BTU ANALYSIS FOR L&L EASY-FIRE 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.

The following table is for Easy-Fire kilns with 2-1/2" thick brick:

MODEL NUMBER	INTERIOR DIMENSIONS		CUBIC FEET	K.W	Total Internal	Total Internal	Watts per internal	Total BTU loss/Hr	Total BTU loss/Hr	Total BTU loss/Hr
	DIAM	HIGH			Sq Feet	Sq Inches		Sq Inch	at 1800F	at 2000F
e18S	17 1/2	18	2.6	5.5	10.8	1552	3.54	6723	7876	9772
e18T	17 1/2	27	4.0	8.3	14.4	2074	4.00	8985	10526	13060
e23S	23 3/8	18	4.6	7.0	15.7	2265	3.09	9816	11499	14267
e23T	23 3/8	27	7.0	10.6	20.5	2952	3.59	12791	14985	18593

BTU'S HEAT LOSS PER SQ FT PER HOUR AT 1800 DEGF:	624	BTU's per Square Foot per hour with 2-1/2" brick
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 2000 DEGF:	731	BTU's per Square Foot per hour with 2-1/2" brick
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 22350 DEGF:	907	BTU's per Square Foot per hour with 2-1/2" brick

The following table is for Jupiter kilns with 3" thick brick:

MODEL NUMBER	INTERIOR DIMENSIONS		CUBIC FEET	K.W	Total Internal	Total Internal	Watts per internal	Total BTU loss/Hr	Total BTU loss/Hr	Total BTU loss/Hr
	DIAM	HIGH			Sq Feet	Sq Inches		Sq Inch	at 1800F	at 2000F
e18S-3	16 1/2	18	2.5	5.5	10.6	1523	3.61	5561	6502	8067
e18T-3	16 1/2	27	3.7	8.3	14.2	2045	4.06	7468	8732	10833
e23S-3	22 3/8	18	4.4	7.0	15.5	2227	3.14	8135	9511	11800
e23T-3	22 3/8	27	6.7	10.6	20.2	2914	3.64	10643	12444	15439
e28S-3	28	18	6.8	9.1	20.7	2976	3.06	10871	12710	15769
e28T-3	28	27	10.2	13.7	26.5	3813	3.59	13928	16285	20204

BTU'S HEAT LOSS PER SQ FT PER HOUR AT 1800 DEGF:	526	BTU's per Square Foot per hour with 3" brick
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 2000 DEGF:	615	BTU's per Square Foot per hour with 3" brick
BTU'S HEAT LOSS PER SQ FT PER HOUR AT 22350 DEGF:	763	BTU's per Square Foot per hour with 3" brick