

BTU ANALYSIS FOR L&L DAVINCI 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	Total Internal Sq Feet	Total Internal Sq Inches	Watts per internal Sq Inch	Total BTU loss/Hr at 1800F	Total BTU loss/Hr at 2000F	Total BTU loss/Hr at 2350F
	SQUARE	HIGH								
X1818	17-1/2"	18"	3.4	6.6	13.0	1872	3.50	6838	7995	9919
X1827	17-1/2"	27"	5.1	9.8	17.3	2484	3.96	9074	10609	13162
XB2318	22"	18"	5.0	8.9	18.0	2588	3.45	9453	11053	13713
X2327	22"	27"	8.1	11.7	23.3	3353	3.49	12248	14320	17766
X2336	22"	36"	10.8	15.6	28.6	4118	3.79	15042	17587	21820
X2345	22"	45"	13.5	19.5	33.9	4883	4.00	17837	20854	25873
XB2818	26-1/2"	18"	7.8	11.6	23.6	3404	3.40	12434	14538	18036
X2827	26-1/2"	27"	11.7	14.9	30.0	4322	3.45	15787	18459	22901
X2836	26-1/2"	36"	15.6	19.9	36.4	5240	3.80	19141	22379	27765
X2845	26-1/2"	45"	19.5	24.9	42.8	6158	4.04	22494	26300	32629
XB3218	30-1/2"	18"	10.0	14.2	29.1	4190	3.39	15305	17895	22201
X3227	30-1/2"	27"	15.0	18.0	36.5	5261	3.43	19217	22469	27876
X3236	30-1/2"	36"	20.0	24.4	44.0	6332	3.86	23129	27043	33551
X3245	30-1/2"	45"	25.0	30.5	51.4	7403	4.12	27042	31617	39226
TB2318	35-1/4" X 26-1/2"	18"	9.7	15.3	29.3	4214	3.64	15393	17997	22328
T2327	35-1/4" X 26-1/2"	27"	14.6	19.5	36.7	5285	3.69	19305	22571	28003
T2336	35-1/4" X 26-1/2"	36"	19.4	26.0	44.1	6356	4.09	23217	27145	33678
T2345	35-1/4" X 26-1/2"	45"	24.3	32.5	51.6	7427	4.38	27129	31719	39353
TB3418	43-3/8" X 30-1/2"	18"	13.8	19.9	38.1	5481	3.64	20021	23408	29042
T3427	43-3/8" X 30-1/2"	27"	20.7	24.9	47.1	6782	3.68	24771	28963	35933
T3436	43-3/8" X 30-1/2"	36"	27.6	33.3	56.1	8082	4.11	29522	34517	42823
T3445	43-3/8" X 30-1/2"	45"	34.5	41.6	65.2	9383	4.43	34272	40071	49714

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