



## Heat Emission of a LABCAR System (33HE System)

### PROBLEM DESCRIPTION

How much heat does a LABCAR System emit?

### CAUSE

### SOLUTION

Taking a commonly used 33 HE System as an example for a rough estimation we can conclude that the maximum possible heat emission would be reached, if the electrical output of the internal power supplies would be converted to thermal energy completely:

Housing ES4500:	600W $P_{el}$	>>	600W $P_{th}$
Housing ES4100:	400W $P_{el}$	>>	400W $P_{th}$
High-load Power Supply:	750W $P_{el}$	>>	20W $P_{th}$ (idle)
Associated Aggregates/Loads		>>	100W $P_{th}$
LABCAR-User (accord. to study)		>>	40W $P_{th}$
Sum			1160W $P_{th}$

### APPLIES TO PRODUCTS

LABCAR 2 System

### ADDITIONAL SEARCH TERMS

Output

