

Radiative heat load between HPS support plates and vacuum chamber walls

Stefan-B constant	5.70E-08 W/m ² /K ⁴
emissivity Al	0.1
emissivity SS	0.5
Temp. Al	-20 C
Temp. SS (chamber)	20 C

Infinite planes:

Net heat load 17.0 W/m²

Area of plates: 0.24 m²
Heat load: 4.1 W
Number of them: 2

Area of sides of support plates: 0.036 m²
Heat load: 0.6 W
Number of them: 2

Total heat load: 9.4 W