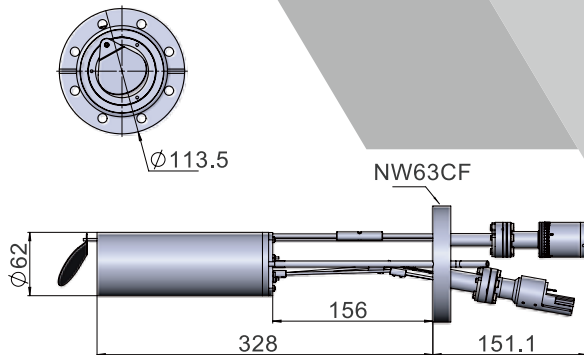


# High Capacity Evaporator



For some special applications, such as production MBE systems, high throughput and stability are both critical. Thus, high capacity Effusion Cells are designed to meet the requirement.

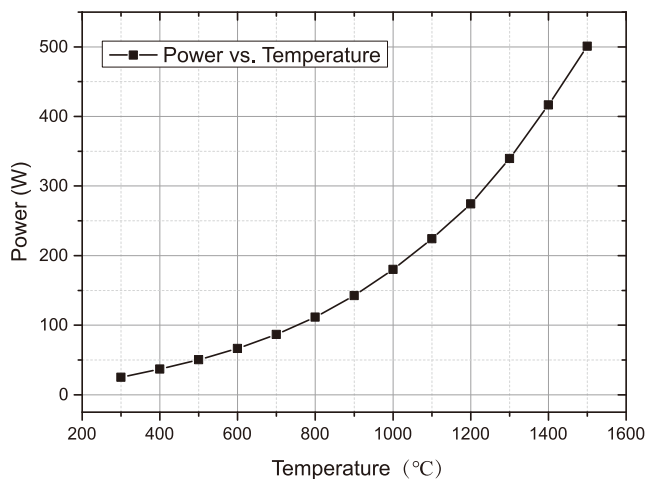
Similar to the standard Effusion cell, the crucible is heated by a wire filament supported by PBN rings which proves to be a uniform and effective heating. However, by increasing the mounting flange from NW38CF to NW63CF, the crucible volume increases significantly from 10cc to 30cc. The scale-up crucibles will need more power, which will lead to undesirable degas for the UHV system. To prevent this from contaminating the UHV environment, the shielding around the heating element is optimized and an integrated water cooling shroud is a standard element in high capacity effusion cells.

The compatible design makes this cell compatible with standard MBE systems. Besides standard filament configurations, Hot Lip/ Cold Lip and dual filament configurations are also available to meet the specified requirements of the evaporation materials.

## Specification

Mounting Flange	Crucible Size	Working Temperature	Degas Temperature	Thermocouple	Stability	Part Number
NW63CF (4.5 inch)	25/50 cc	100~1100°C	1200°C	K	±0.1°C	EC63LT
		300~1400°C	1500°C	C		EC63MT

### Power Test



### Temperature Stability

