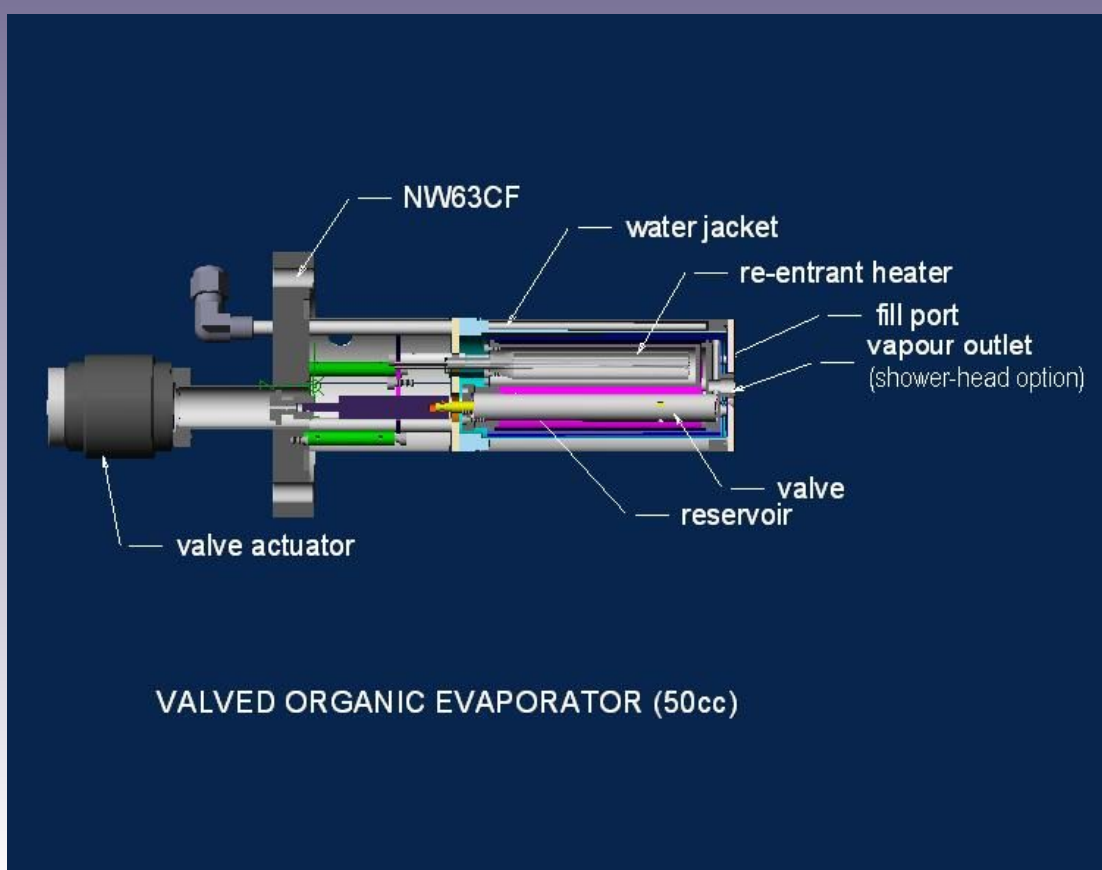


Valved organic evaporators

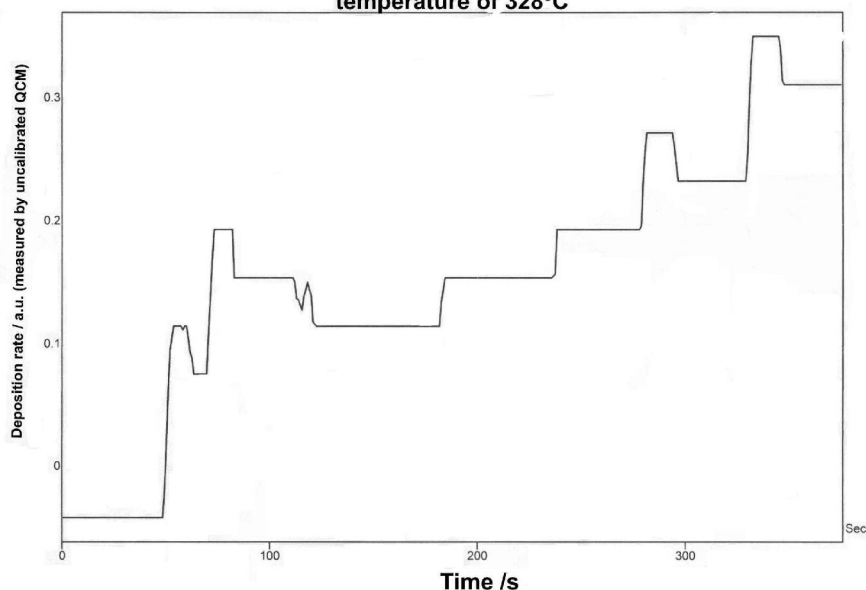
for OLEDs & Devices

In the emerging organic semiconductor/OLED markets there is a need for valved evaporators capable of rapid flux change. The first available evaporator from Oxford Applied Research, model ORG50V, has a 50cc capacity. The design, incorporating a patented in-line valve, eliminates the thermal inertia of conventional un-valved evaporators and additionally conserves feedstock during bakeout. The evaporant flux can be changed in seconds over a wide dynamic range and beam profile tailored to the user's requirements - from pencil beam to large area shower-head configurations.

The K-cell section is conveniently loaded externally with liquid/solid feedstock without disturbing the valve and beam-outlet head. Scale-up to higher cell capacity can be readily achieved.



ORG50V: Control of the deposition rate of pentacene using the valve at a constant temperature of 328°C



Specification- ORG50V

Feedstock capacity	50cc
K-cell temperature	600°C (max)
Heater	PID autotune control
Valve dynamic range	>100:1
Beam diameter	Variable (selectable)
Flange mount	NW63CF/4½"
Bakeout (UHV compatible)	to 250°C

Options

* Servo-controlled valve
* Full computer control
* Larger cell capacity
* Shower-head outlet

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