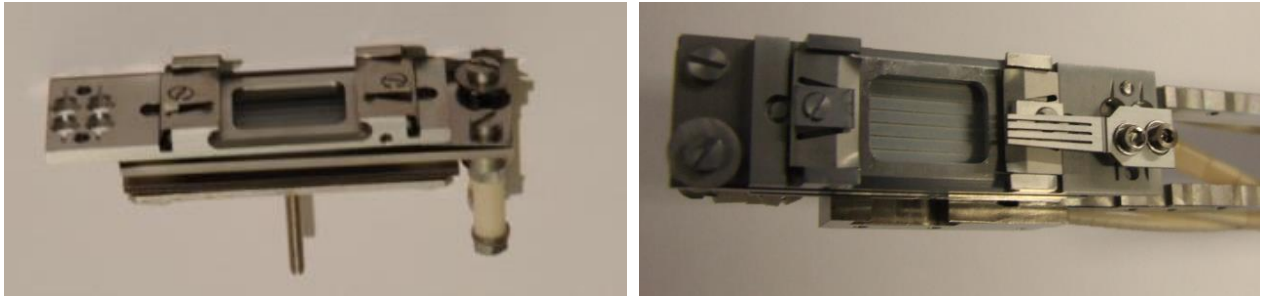
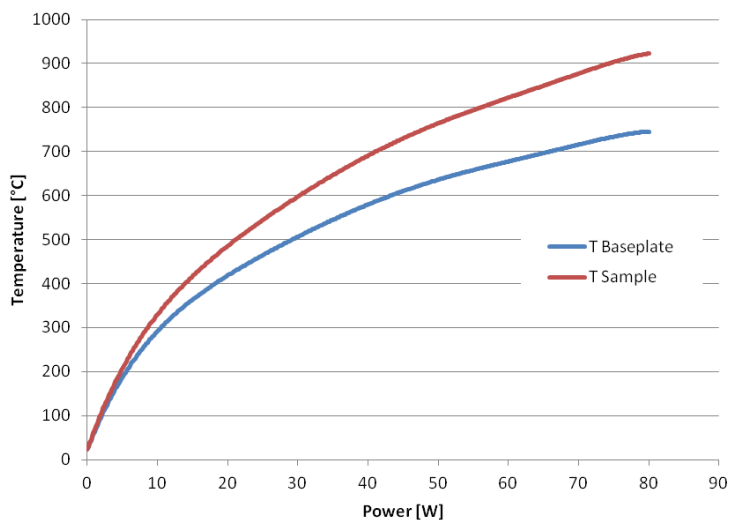


PBN Sample Heater Upgrade Package For Standard Scienta Omicron Manipulators



This package is designed to **upgrade the discontinued tungsten wire sample heater S7106**, which was supplied with **Scienta Omicron manipulators**, with the current resistive sample heater solution: The coplanar Porolytic Boron Nitride heater element offers great uniformity, high durability and is easy to replace. It can be operated up to a maximum heating power of 100 W (3 A), allowing typical sample temperatures of up to 1170 K (up to 1100 K with optional IN_2 cooling).



Benefits:

- Maximum sample temperature: 1170°C
- High mechanical stability
- Minimum system downtime in case of on-site upgrade.

Package includes:

- Pre-assembled PBN sample heater module
- Support arm for legacy manipulator versions
- In-vacuum wiring material for sample heater
- Thermocouple with wiring material
- Spare ceramics for cables and sample heater mount

The package contains all necessary parts for implementation. In most cases, the manipulator can be upgraded on-site by our skilled Scienta Omicron service personnel. Please note that several spare parts are available to ensure maintenance and support for your PBN Heater.

Please contact your local Scienta Omicron representative for more information:

<https://www.scientaomicron.com/en/contact-us>

Summary

Part Number PN06739-S

Parts included:

- Pre-assembled PBN sample heater module
- Support arm for old manipulator versions
- Internal wiring material for sample heater
- Thermocouple with wiring material
- Spare ceramics for cables and sample heater mount

Prerequisites:

Applicable to standard Scienta Omicron manipulators with

- Tungsten wire heater facility, other PBN heater facility or e-beam heater facility.
- No cooling or IN₂ cooling (no He cooling)
- Only one sample stage
- Only one (primary) rotational axis
- Up to one DH brush
- Scienta Omicron standard sample plates
- No further specials like 4 contact sample stage, special non-magnetic or oxygen resistive head, silicon diode, ...

For all other cases, or if you are not sure whether your manipulator fulfils these requirements, please don't hesitate to contact us.