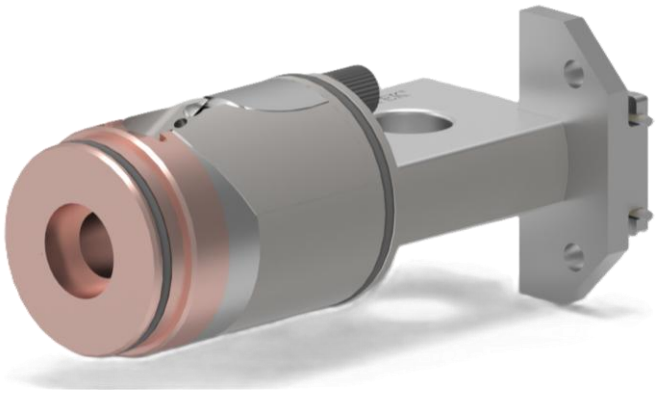
## CTLH-SC55-SEHP-IF



| | $^{18}F$ | $^{68}Ga$ | $^{13}N$ |
|---|---|---|---|
| **Max Current**[1] | 90 µA | 50 µA | 90 µA |
| **Physical Yield**[2] | 124 mCi/µA | 4.8 mCi/µA | 6.4 mCi/µA |
| **Fill Volume** | 2.5-3.0 mL | | |
| **Chamber Volume** | 5.5 mL | | |
| **Chamber Material** | Niobium | Niobium | Aluminum |
| **Body Material** | Aluminum 6061-T6 | | |
| **Connections** | 10-32 coned fittings, PEEK | | |
| **Window Material** | HAVAR® 30 µm, Ta coated | | HAVAR® 30 µm |
| **Seals** | BUNA-N and FKM | | FKM |
| **Fluid Path** | Ta, Nb, PEEK and BUNA-N | | HAVAR®, Al & FKM |
| **Dimensions** | 42mm (D) x 100mm (L) | | |

[1] Engineering design parameters.

[2] Preliminary Yield. The SC55-IF is currently in the beta testing stage. Requires centered beam with uniform profile.

## Technical Performance & System Integration

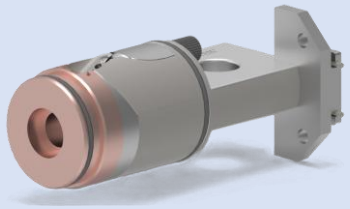
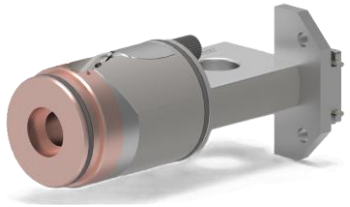
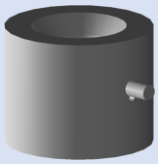
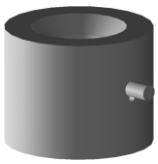
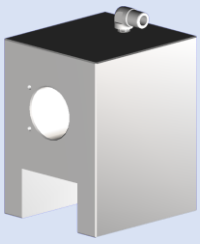
- **Direct Integration:** Compatible with the Siemens Eclipse HP cyclotron target changer.
- **Fluid path:** Utilizes industry-standard 10-32 coned fitting ports. Eliminates legacy OEM stainless steel tubes.
- **Yield Stability:** Tantalum-coated HAVAR® foils stabilize $^{18}F$ yields and reduce metal contaminants.
- **Tracer Chemistry:** Low-contaminant fluid path meets critical requirements for $Al^{18}F$ synthesis.
- **Chemical Resistance:** Iron-free fluid path tolerates weak acid exposure.
- **Liquid Radiometals:** Designed for compatibility with liquid-phase radiometal production.

Note: Liquid $^{68}Ga$ and radiometal production require specific fluid path upgrades to the Target Support Unit (TSU).

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## *Ordering information*

| Description | Part Number | Image |
|---|---|---|
| 5.5 mL liquid target for $^{18}F$ and $^{68}Ga$ compatible with Eclipse HP Cyclotrons, Niobium chamber. | CTLH-SC55-SEHP-IF-NB |  |
| 5.5 mL liquid target for $^{13}N$ compatible with Eclipse HP Cyclotrons, Niobium chamber. | CTLH-SC55-SEHP-IF-AL |  |
| Target rebuild kit for CTLH-SC55-SEHP-IF-NB targets | TRK- CTLH-SC55-SEHP-IF-TA | |
| Target rebuild kit for CTLH-SC55-SEHP-IF-AL $^{13}N$ targets | TRK- CTLH-SC55-SEHP-IF | |
| Workbench mount for Eclipse HP Target, Material: Stainless Steel | CT-WBM-SEHP-SS |  |
| Workbench mount for Eclipse HP Target, Material: Lead | CT-WBM-SEHP-PB |  |
| Workbench testing unit for Eclipse HP Targets | CT-WBT-SEHP |  |
| O-ring pick tool | CTL-TL-OSP |  |

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