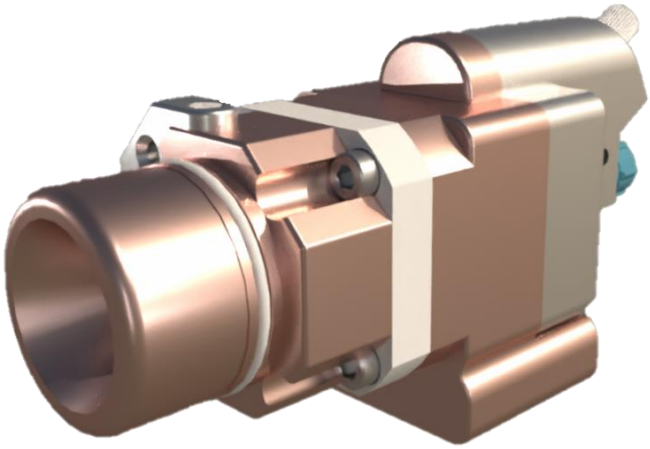
DC70 / IBA CYCLONE

CTLH-DC70-IBC		
		
	^{18}F	^{13}N
Max Current	125 µA	70 µA
Yield[1]	14 Ci (518 GB)	1.5 Ci (55 GBq)
Sat Yield	230 mCi/µA (8.5 GBq/µA)	27 mCi/µA (1.0 GBq/µA)
Fill Volume	3.0-4.5 mL	3.0-5.0 mL
Chamber volume	6.9 mL	6.9 mL
Chamber material	Niobium 99.8+ %	Aluminum
Body material	Aluminum	Aluminum
Window material	HAVAR®, 38 µm	
Dimensions (mm)	164 (L) x 55 (W) x 82 (H)	
Foil cooling fluid	He cooling NOT REQUIRED	
Target cooling fluid	Re-circulating deionized water	
Cooling fluid temperature	< 10 °C	
Cooling fluid flow	> 10 LPM	
Cooling fluid tube size	3/8" OD	
Cooling fluid Fittings	10-32 UNF	
Min inert gas overpressure	15 bar (217 psi) - Argon UHP	
Max. Operating pressure	40 bar (580 psi)	

This target is fully compatible with the IBA Cyclone cyclotron target ports. It does not require Helium cooling. Ask for energy degraders for production of radiometals.

[1] Reported yield correspond to mono beam bombardment time of 1 half-live for ^{18}F and 3 half-lives for ^{13}N. Yield may vary with each cyclotron system beam characteristics.

Ordering information

Description	Part Number
^{18}F target, DC70 for IBA Cyclone Cyclotrons, Niobium chamber.	CTLH-DC70-IBC-NB
^{13}N target, DC70 for IBA CYCLONE Cyclotrons, Niobium chamber.	CTLH-DC70-IBC-AL
Radiometals Solution target, DC70 for IBA CYCLONE Cyclotrons, Niobium chamber.	CTLH-DC70-IBC-RMS
Target rebuild kit for CTLH-DC70-IBC-NB ^{18}F targets	TRK-CTLH-DC70-IBC-TA
Target rebuild kit for CTLH- DC70-IBC-AL ^{13}N targets	TRK- CTLH-DC70-IBC
Target installation kit for CTLH- DC70-IBC-xx targets	TIK-CTLH-DC70-IBC
Window cooler extraction tool	CTLH-TL-DFC
O-ring pick tool	CTL-TL-OSP