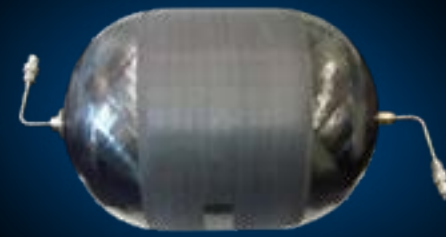


S-XTA / 40-120L Family

Xenon Tank



MEOP [bar]	XeHPV 186			HeHPV, N2HPV 310			
	HeHPV Liner <i>without boss area reinforcement</i>						
	Volume [l]	Structural Mass [kg]	Xe Mass [kg]	Volume [l]	Structural Mass [kg]	He Mass [kg]	N ₂ Mass [kg]
	40	6.3	73	40	8.1	1.8	12.1
	60	8.9	110	65	12.4	2.9	19.6
	90	12.8	165	90	16.7	4.0	27.1
	120	16.8	220	120	21.8	5.3	36.2
Two Bearings	per §2.2	0.66		per §2.2	0.66		

XeHPV Tank Sizes
 Di=405 mm, Do=418.4 mm
 MEOP*=186 bar



V=40 l
 L=446 mm
 m_{Struct_pred}=6.3 kg
 M_{Xe_max}=73 kg

60 l
 601 mm
 8,9 kg
 110 kg

90 l
 835 mm
 12,8 kg
 165 kg

120 l
 1072 mm
 16,8 kg
 220 kg

HERITAGE	Extension of 60 litre S-XTA	
FLUIDS	Xenon	
MATERIALS	Shell	Ti-6Al-4V
	Tube	Ti-3Al-2.5V
	Overwrapped	Epoxy-based CFRP / T800
MOUNTING INTERFACE	polar	

TOTAL VOLUME	40 - 120 l	2441-7323 in ³
TEMPERATURE RANGE	up to 65 °C	up to 149 °F
TANK DRY MASS	6,3 - 14,8 kg	13,89 - 32,63 lbs
DIAMETER	440 mm	17,32 in
LENGTH	446 - 1072 mm	17,56 - 42,20 in

MEOP*	187 bar	2.712 psi
PROOF PRESSURE (x 1,25)	233,8 bar	3.390 psi
BURST PRESSURE (x 1,50)	280,5 bar	4.068 psi
BURST PRESSURE TESTED	456,0 bar	6.614 psi

* Maximum Expected Operating Pressure

UNDER DEVELOPMENT