SteamJet

A New Age of Steam in Space



The Steam TunaCan Thruster



Water-Powered Propulsion Technologies

For Small Satellites and CubeSats

The Steam TunaCan Thruster is a safe, high-performance, electrothermal propulsion system specifically designed for CubeSats. Its unique shape factor allows its installation in the tunacan volume available in many CubeSats deployers, located outside the main CubeSat structure. Using only low-pressure water as the main propellant, the Steam TunaCan Thruster is the best option for 3U platforms.



Optimization & Manoeuvres



Collision

Avoidance



Constellation Management



Life Extension



De-Orbit



Water Tank



High Thrust

50x More Than Electric Propulsion

Low Power Consumption

Safe

Low Pressure Water as The Main Propellant

Easy to Integrate

No RF interference

For more Info and Orders

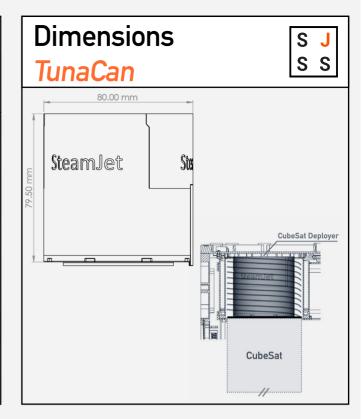
Contact us Today to Receive a Free Engineering Model of the Steam Thruster

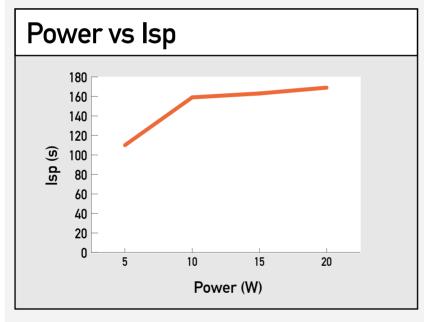
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Specifications	Value
Nominal Thrust (mN)	6
Specific Impulse (s)	172
Total Impulse (Ns)	219
Minimum Impulse Bit [mNs]	10
Power consumption Thrusting / Idle [W]	<19.9 / 0.12
Wet Mass [g]	540
Propellant Mass [g]	130
Propellant	Water
Voltage [VDC]	9 - 14
Communication Protocol	RS 422, TTL UART
Dimensions [mm]	Ø 80 x 80





Space qualified according to ESA ECSS-E-ST-10-03C and NASA GSFC-STD-7000A



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The Steam TunaCan Thruster can be operated with a power between 5W to 20W depending on the CubeSat availability

Typical Applications

3U (5KG)	SATELL	_ITE	@ 400	KM II	NITIAL	ORBIT

Product	Total Impulse (Ns)	Life-time (Years)	Orbital Change (Km)	Orbit Phasing	Collision avoidance
No Propulsion	0	1.6	No	No	No
TunaCan	219	4.3	± 70	0° to 360°	Yes

6U (10KG) SATELLITE @ 400KM INITIAL ORBIT

Product	Total Impulse (Ns)	Life-time (Years)	Orbital Change (Km)	Orbit Phasing	Collision avoidance
No Propulsion	0	1.6	No	No	No
TunaCan	219	3	± 35	0° to 360°	Yes