

TETHERS UNLIMITED, INC.

HYDROS™-C

WATER PROPULSION SYSTEM



SPECIFICATIONS

SPECIFIC IMPULSE

>310s

SIZE

190x130x92 mm

TOTAL IMPULSE DELIVERED

>2,151

ORBIT-AVERAGED THRUST

2.2 mN

POWER

5-25W

WATER CAPACITY

0.5 kg

THRUST EFFICIENCY

0.13 MN/W

COMMAND INTERFACE

RS-422, Ethernet

DRY MASS

2.2 kg

IMPULSE PER THRUST EVENT

>1.75 Ns

QUALIFICATION LEVEL

TRL 6+

WET MASS

2.7 kg

TOTAL # THRUST EVENTS

761 Msps

THRUST

>1.2 N

TIME TO REFILL GAS PLENUMS

825 s

LIFETIME

3 years LEO

MOUNTING

Deck or Rail Mount Options



DESCRIPTION

The HYDROS thruster is a modular and scalable system. HYDROS-C is sized for CubeSat spacecraft. The size and configuration of the water tank can be tailored to fit the mission requirements of the spacecraft. HYDROS also includes integrated avionics to greatly simplify the commanding interface and integration to the host spacecraft.



Onboard Crypto Available



AS9100 Certified



Flight Qualified



High Specific Impulse



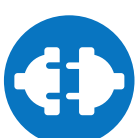
Safe "Green" Propellant



Superior Thrust-to-Power



Customizable Fuel Capacity



Plug-N-Play Integration