

Materials List for:

A 100 KW Class Applied-field Magnetoplasmadynamic Thruster

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Materials

Name	Company	Catalog Number	Comments
Cryogenic Pumps	Brooks Automation		Pumping speed: 10000L/s
Displacement Sensor	Panasonic	HG-C1030	Repetition precision: 10μm Linearity: ±0.1% F.S.
Mass Flow Rate Controller	Brooks Automation		Range: 0-120mg/s
Molecular Pump	Oerlikon		Pumping speed: 2100L/s
Moveable Platform	Beijing Weina Guangke Automation equipment Co., Ltd.		Range:0-2000mm
Plastic Water Pipes	Xingye Xingye fluoroplastics (Jiaying) Co., Ltd.		Ultimate pressure: 4.5MPa
Propellant Argon	Beijing Huanyu Hinghui Gas Technology Co., Ltd.		Purity:99.999%
Refrigerator	Beijing Jiuzhou Tongcheng Technology Co., Ltd.		Refrigeration power:45kW
Water Pumps	Liaocheng vanguard Motor Co., Ltd.; Shanghai people pump industry group Manufacturing Co., Ltd.; Nanfeng Pump Limited company		Maximum Output pressure: Centrifugal pump:1MPa Plunger pump:10MPa