



ENVIRONMENTAL CONTROL SYSTEMS

COMPLETE IN-HOUSE DESIGN & PRODUCTION

pbsindia.com

 **PBS INDIA**

Who are we?

PBS GROUP is an international engineering company with over 200 years of heritage in precision manufacturing. We combine expertise across multiple industries through our subsidiaries, specializing in aerospace technology, precision casting, energy solutions, and cryogenic applications. Our comprehensive portfolio includes the development and manufacture of aircraft engines, auxiliary power units (APU), environmental control systems (ECS), and advanced cryogenic equipment.

Why us?

Our excellence is validated through international certifications including ISO 9001, AS 9100, ISO 14001, and Nadcap. We are proud that our turbojet engines rank among the world's finest in their category, while our APUs and ECS systems serve thousands of aircraft globally. As a key player in both aerospace and cryogenic equipment, we deliver innovative solutions to leading manufacturers worldwide.

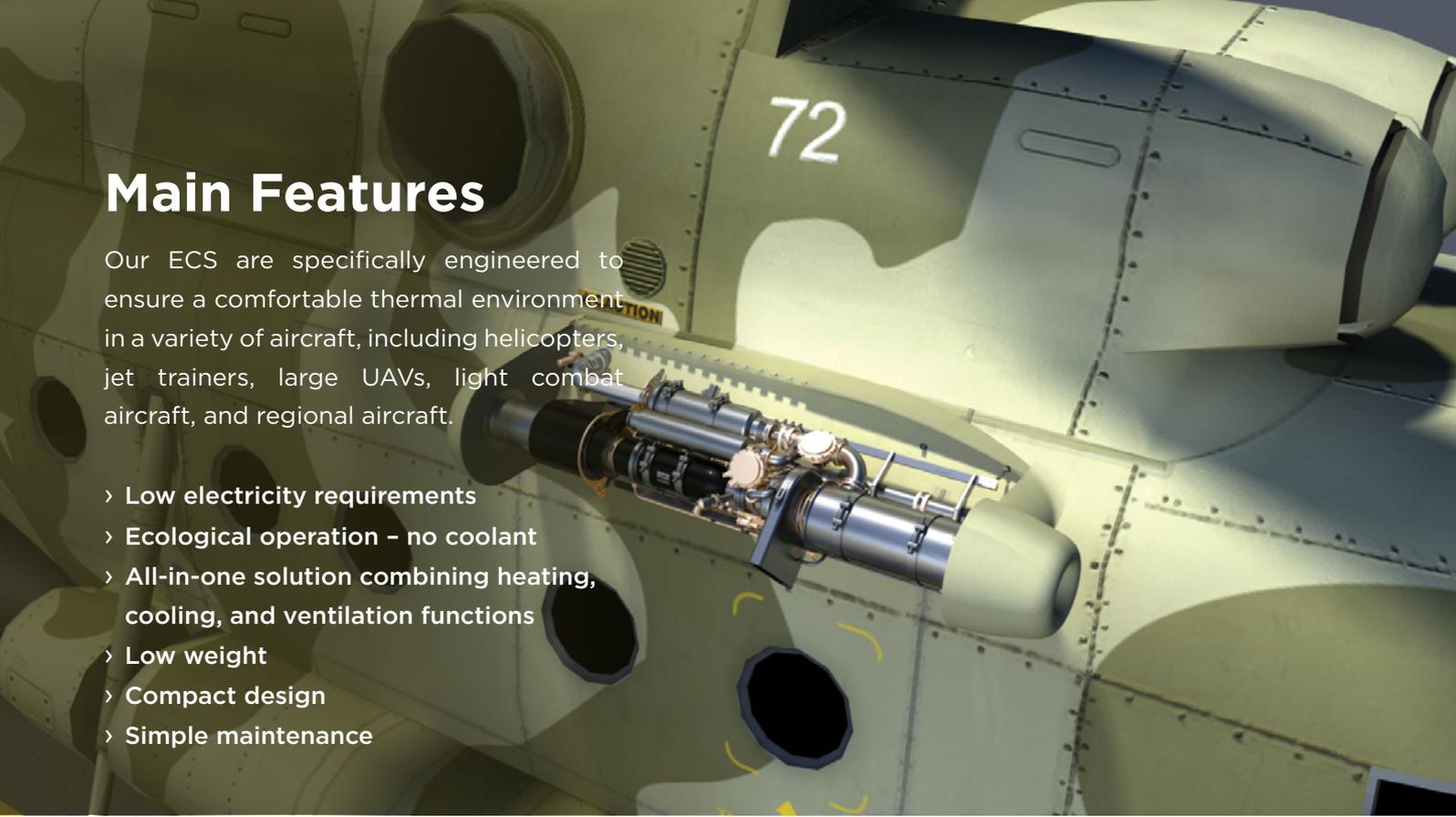


One-Stop-Shop Company

We provide complete solutions through our extensive in-house capabilities. From initial design and R&D through to production and testing, we maintain control of 90% of our manufacturing processes. Our modern testing facilities, combined with customized solutions and flexible customer service, ensure comprehensive product lifecycle support. Through our subsidiaries, we offer integrated solutions that meet the highest standards of precision engineering and manufacturing excellence.

Certification





Main Features

Our ECS are specifically engineered to ensure a comfortable thermal environment in a variety of aircraft, including helicopters, jet trainers, large UAVs, light combat aircraft, and regional aircraft.

- › Low electricity requirements
- › Ecological operation - no coolant
- › All-in-one solution combining heating, cooling, and ventilation functions
- › Low weight
- › Compact design
- › Simple maintenance

Complex Aircraft ECS Solutions

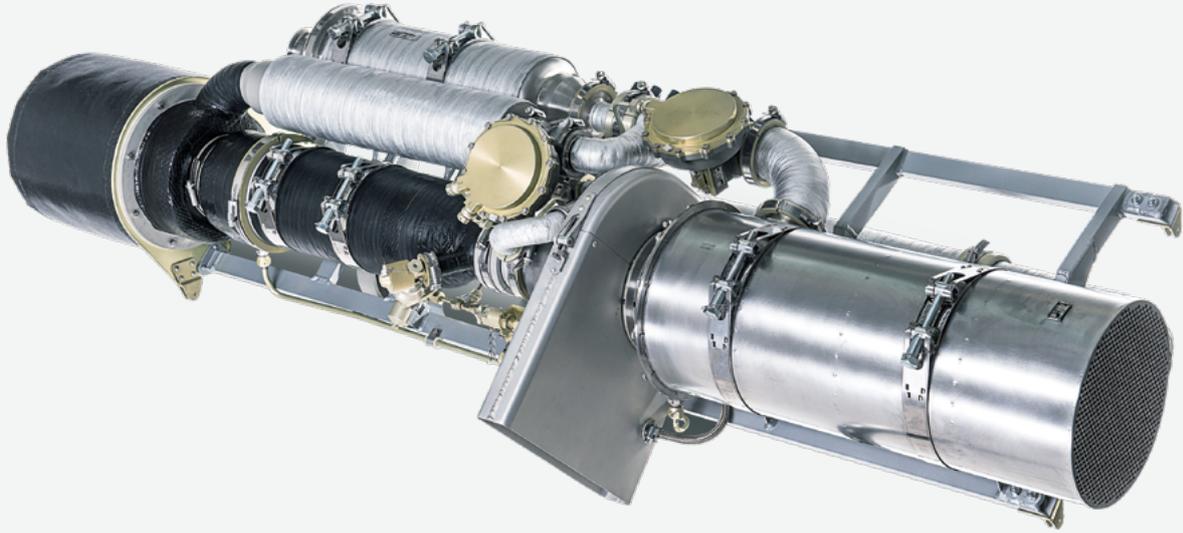
- › Air Cycle Machines
- › Air and Thermal Management System
- › Cockpit De-icing System
- › Anti-G System Components

ECS Devices and Components

- › Shut-Off, Regulation, Reduction, Safety, Non-return Valves
- › Air and Thermostat Filters
- › Turbocooling Units
- › Electronic and Pneumatic Control Systems
- › Pre-cooling Systems
- › Low-pressure and High-pressure Water Separation
- › Cockpit De-icing Systems
- › Anti-G Systems Components
- › Cabin Pressure Control Systems
- › Other Separate ECS Devices



FOR HELICOPTERS



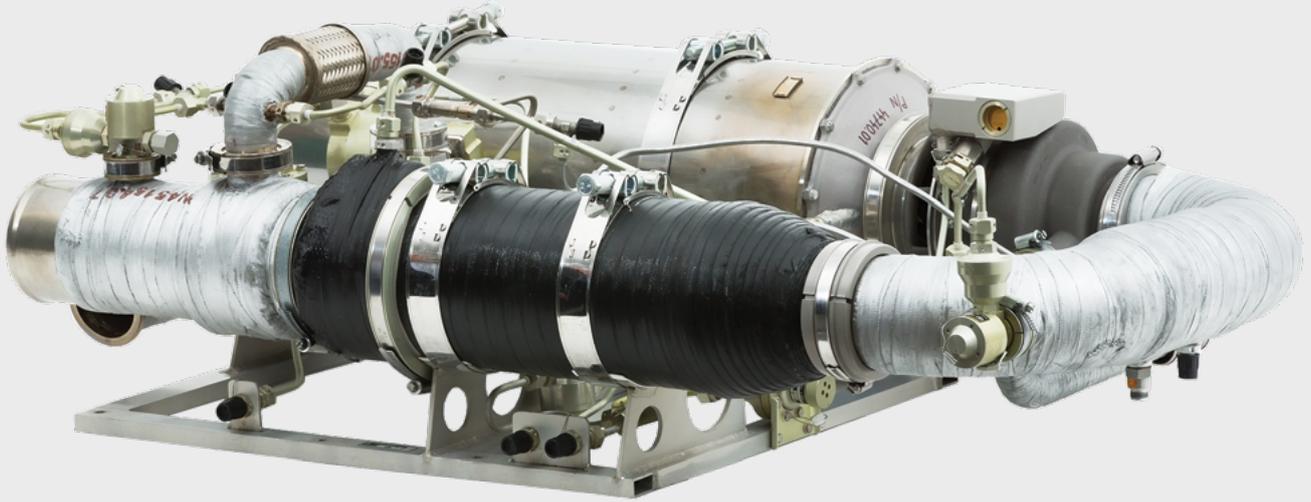
ECS-M1V

PARAMETERS	METRIC	IMPERIAL
Airflow	1,500 kg/h	3300 lb/h
Cooling capacity	10.8 kW	36,900 BTU/h
Heating capacity	62.0 kW	211,600 BTU/h
Dry weight	60.0 kg	132.3 lb
Max. operating altitude	6,000 m	19,700 ft

ECS-M1V



FOR TP AIRCRAFT



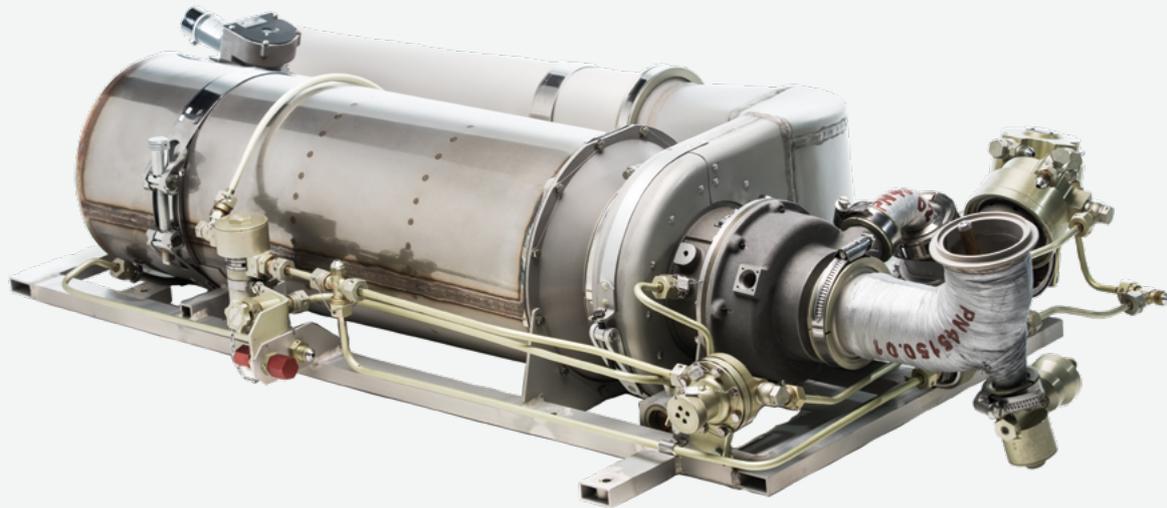
ECS-Y12F

PARAMETERS	METRIC	IMPERIAL
Airflow	1,000 kg/h	2,200 lb/h
Cooling capacity	7.8 kW	26,700 BTU/h
Heating capacity	19.7 kW	67,200 BTU/h
Dry weight	41.0 kg	90.4 lb
Max. operating altitude	7,000 m	23,000 ft



ECS-Y12F

FOR JET TRAINERS



ECS-K8

PARAMETERS	METRIC	IMPERIAL
Airflow	560 kg/h	1,200 lb/h
Cooling capacity	3.3 kW	11,300 BTU/h
Heating capacity	16.8 kW	57,400 BTU/h
Dry weight	32.0 kg	70.5 lb
Max. operating altitude	11,000 m	36,000 ft

ECS-K8



COMPONENTS



ECS-L39NG

PARAMETERS	METRIC	IMPERIAL
Airflow	530 kg/h	1,200 lb/h
Cooling capacity	3.3 kW	11,300 BTU/h
Heating capacity	16.8 kW	57,400 BTU/h
Dry weight	30.0 kg	66.1 lb
Max. operating altitude	11,000 m	36,000 ft



ECS-L39NG



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