

# ENVIRONMENTAL CONTROL SYSTEMS

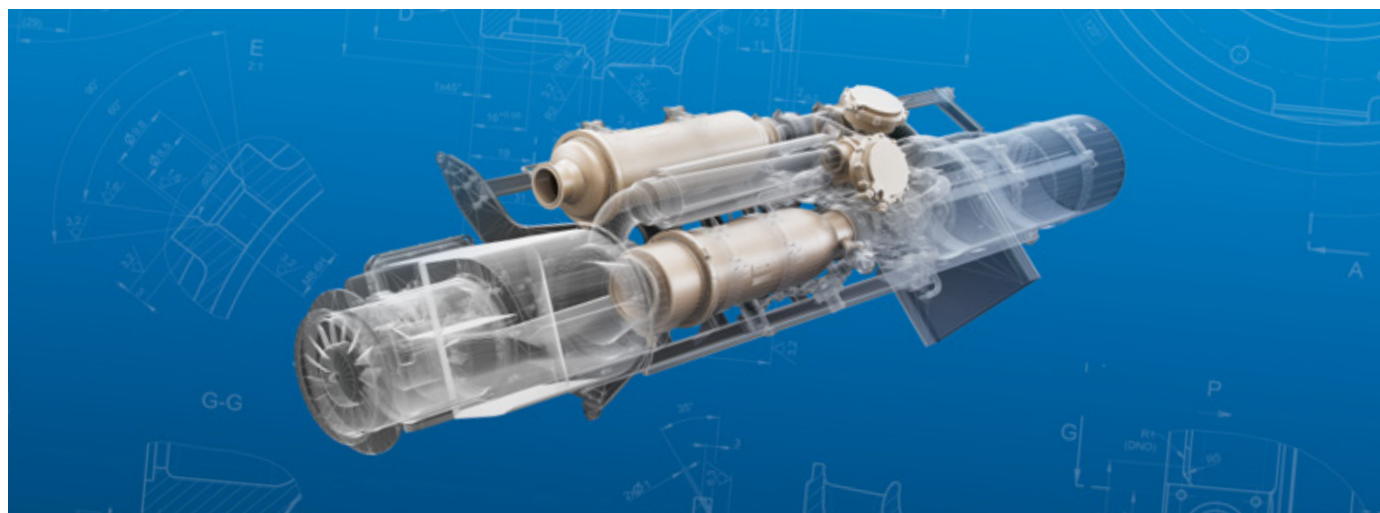


AEROSPACE • INVESTMENT CASTING • CRYOGENICS • SURFACE TREATMENT

# WE DEVELOP AND MANUFACTURE ENVIRONMENTAL CONTROL SYSTEMS

PBS focuses on continuous R&D, technological innovations and new ECS development.

Our competent team of seasoned engineers continuously works on further development to improve crucial subsystems, components, and parts of the ECS to gain an edge in the highly competitive environment of the aerospace industry.



## MAIN FEATURES

Our ECS is designed to maintain a comfortable thermal environment in helicopters, jet trainers & light combat aircraft.

- › Low electricity requirements
- › Ecological operation – no coolant
- › All-in-One - heating & cooling & ventilation
- › Low weight
- › Compact design
- › Simple maintenance



# PBS ECS

We offer both „off-the-shelf“ existing ECS solutions and components as well as newly designed ECS systems, subsystems or components tailor-made to customer's needs.

## COMPLEX AIRCRAFT ECS SOLUTIONS

- › Air cycle machines
- › Air and thermal management system
- › De-icing system
- › Anti-g system components

### ECS - M1V



### ECS - Y12F



### ECS - K8



### ECS - COMPONENTS



## TECHNICAL PARAMETERS

PARAMETRS	ECS - M1V	ECS - K8	ECS - Y12F	ECS - L39NG
Airflow	1,500 kg/h	560 kg/h	1,000 kg/h	530 kg/h
Cooling capacity	10.8 kW	3.3 kW	7.8 kW	3.3 kW
Heating capacity	62.0 kW	16.8 kW	19.7 kW	16.8 kW
Dry weight	60.0 kg	32.0 kg	41.0 kg	30.0 kg
Max. operating altitude	6,000 m	11,000 m	7,000 m	11,000 m

## WHY PBS

- › More than 50 years of experience in ECS development and production
- › Over 7,000 ECS delivered
- › Installation possible at customer's facility
- › EASA certified producer (DOA, POA, MOA)
- › TIER 1 supplier – 90 % in-house production

# WE ARE PBS

The PBS brand history in precision engineering goes 200 years deep. Today's PBS Velka Bites is an innovative engineering company focusing its activities foremost in aerospace industry. **PBS develops and manufactures turbojet, turboprop and turboshaft engines, auxiliary power units (APU) and environmental control systems (ECS).**

The PBS production program also includes precision casting, precision machining, metal finishing and last but not least production of components for cryogenics.

PBS Velka Bites is a member of PBS GROUP a.s.



DOA, POA a MOA



AS 9100,  
ISO 9001 a ISO 14001



MAA 056 a MAA 076  
Ministry of Defence, Czech Republic



**První brněnská strojírna Velka Bites, a. s.**  
Vlkovská 279, Velka Bites 595 01  
Czech Republic, EU  
ecs@pbs.cz  
**www.pbs.cz**