

# AUXILIARY POWER UNITS

COMPLETE IN-HOUSE DESIGN & PRODUCTION



# About us

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.

## Main Features

Our auxiliary power units provide compressed air and electrical power across a wide range of operating conditions. Thanks to their exceptional reliability, PBS APUs have achieved a leading position globally in the category of units up to 100 kW.

- ✓ EASA certified
- ✓ Continuous operation for 6 hours
- ✓ Long service life and easy maintenance
- ✓ High reliability in extreme conditions
- ✓ Highly resistant ECU, increased flight envelope
- ✓ 9+ years TBO



## Maintenance, Repair, and Overhaul

- ✓ Repairs of APU/components on-site
- ✓ Repairs of APU/components at PBS facility
- ✓ TBO extensions on-site
- ✓ TBO extensions on-line
- ✓ General overhauls

PBS AEROSPACE



## Customer Support and Services

We offer a comprehensive range of customer support and services based on our extensive experience. Our technical support includes technician training programmes, which can be held either at the PBS facility or at the customer's site.

We also provide detailed service and product documentation with regular updates, online technical support and on-site assistance to ensure seamless operation and customer satisfaction.



## One-Stop-Shop Company

We provide complete solutions through our extensive in-house capabilities. From initial design and R&D 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.

PBS Velká Bíteš  
PBS International Trading  
PBS ENERGO

PBS INDIA

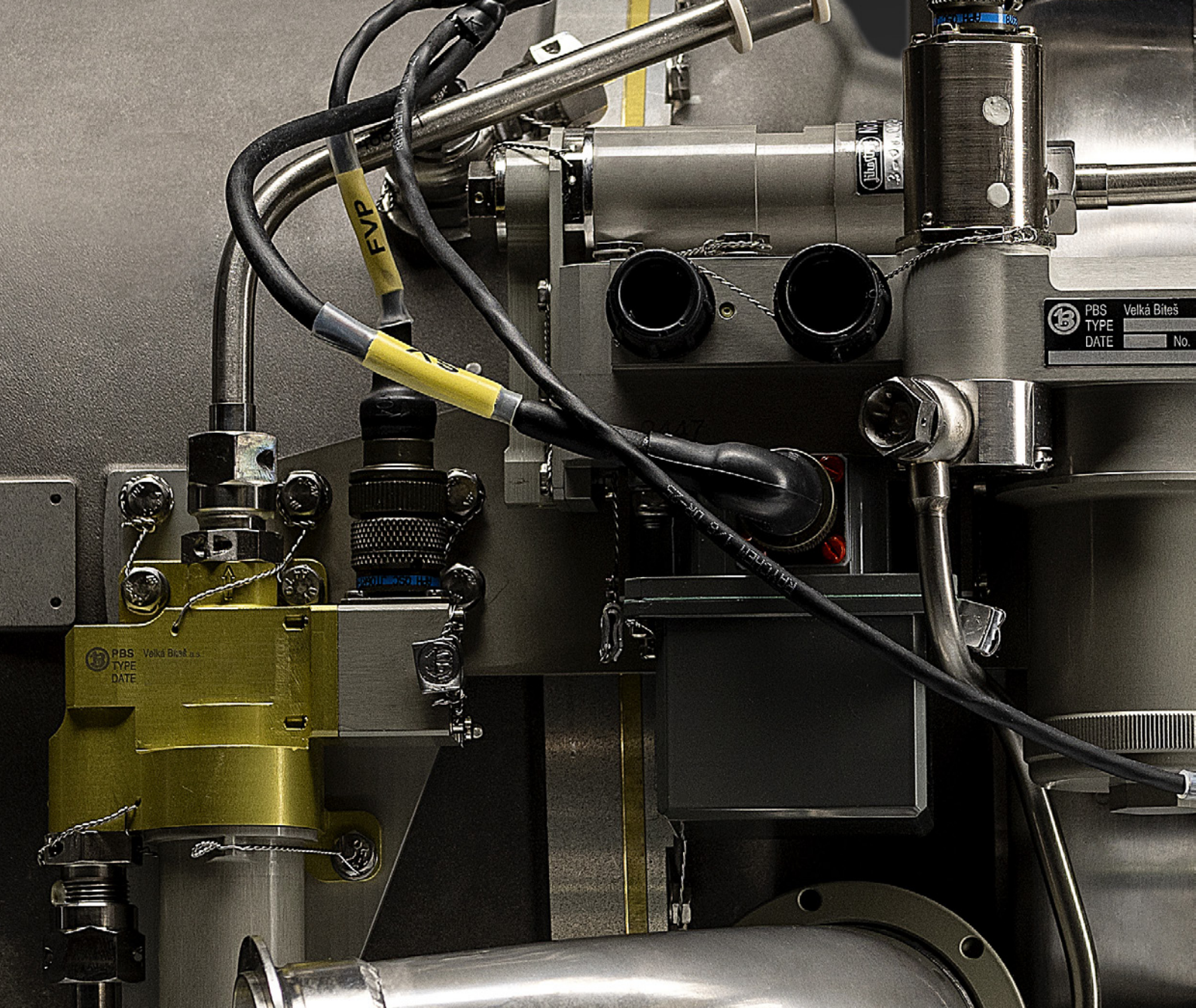
## Where We Operate

### Our business

- ▶ Aerospace
- ▶ Investment Casting
- ▶ Cryogenics
- ▶ Power Engineering
- ▶ Surface Treatments

## Certification

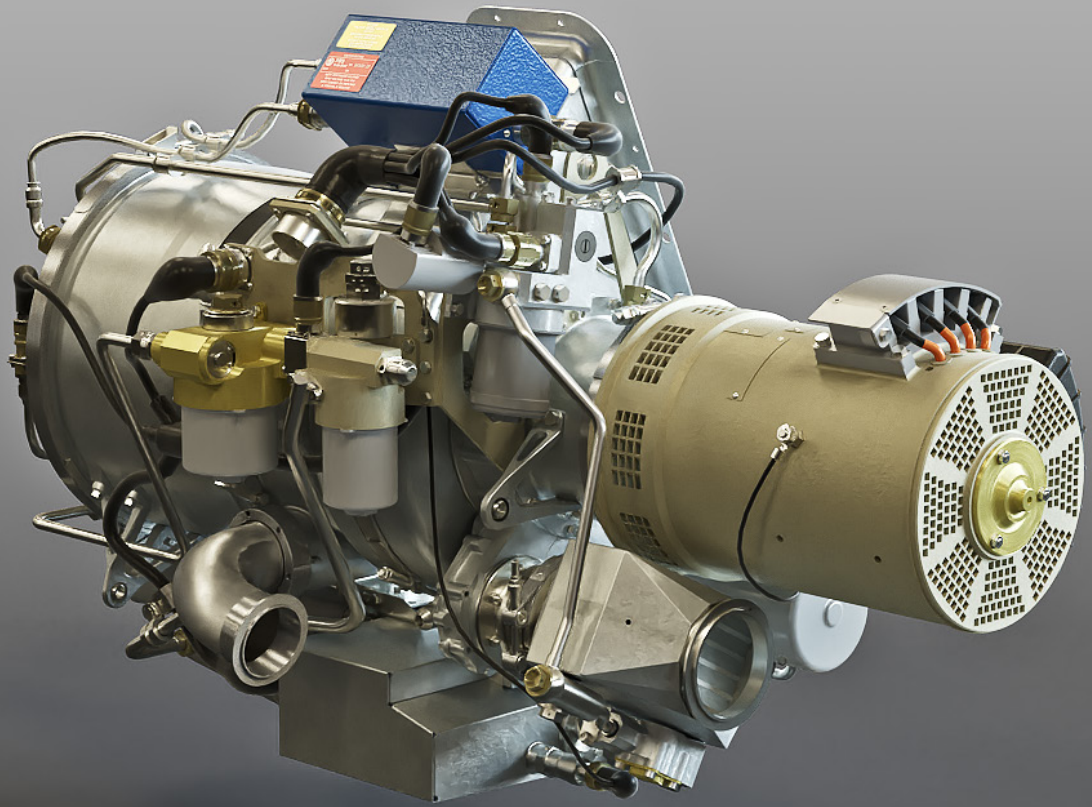




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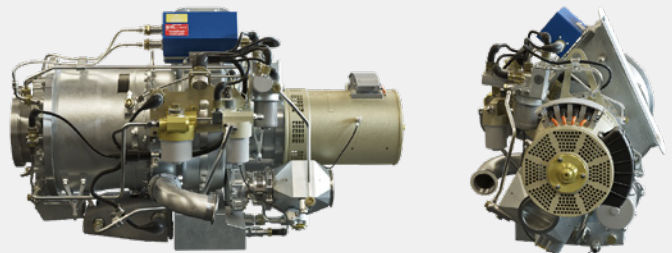
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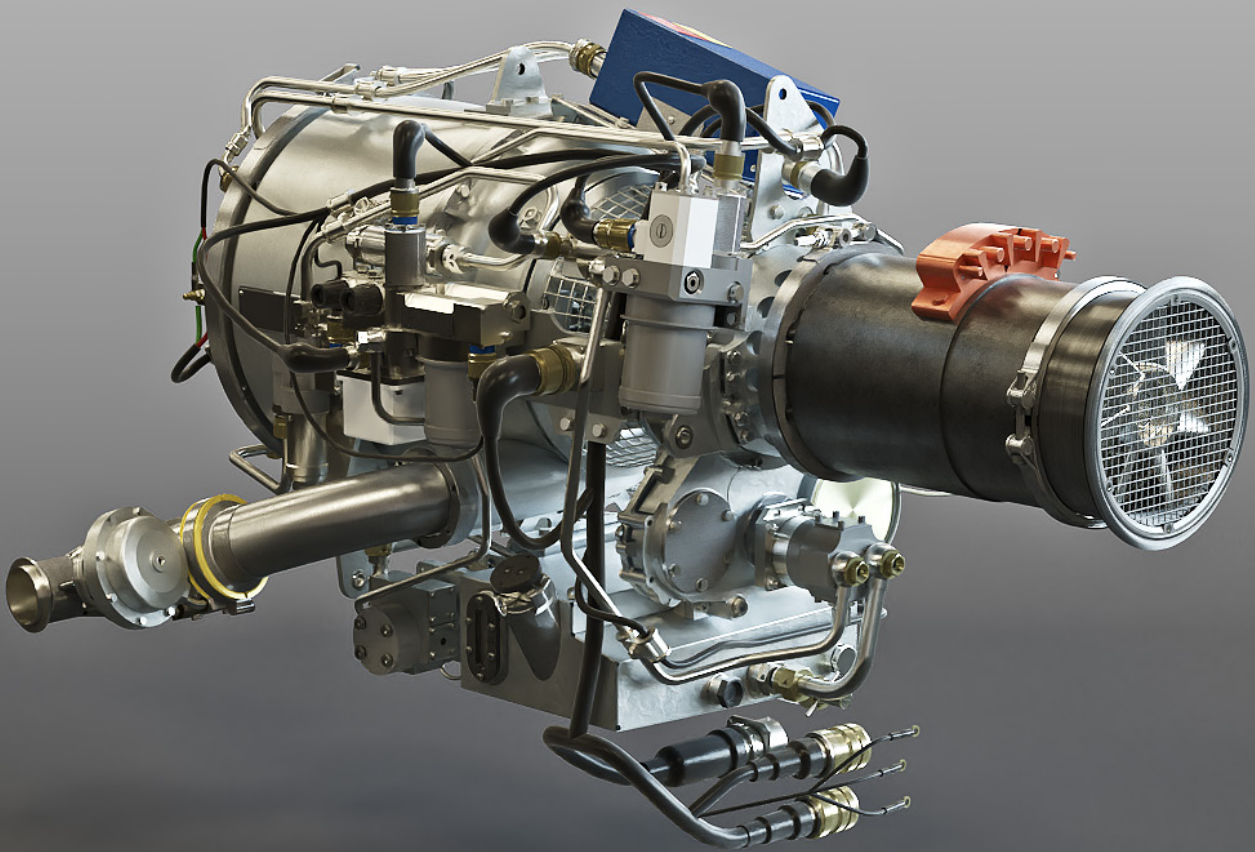


# PBS APU SPARK40

## Technical Parameters

PARAMETERS	METRIC	IMPERIAL
Electrical power output	45 kVA	45 kVA
Bleed air extraction	27 kg/min	59.5 lb/min
Specific fuel consumption	60 kg/h	132.3 lb/h
Dry weight	66.0 kg	145.5 lb
Max. operating altitude	6,000 m	19,685 ft

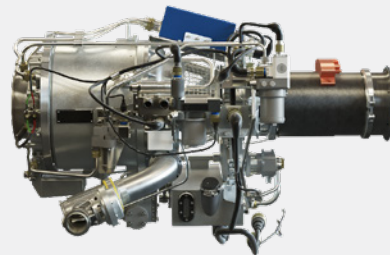


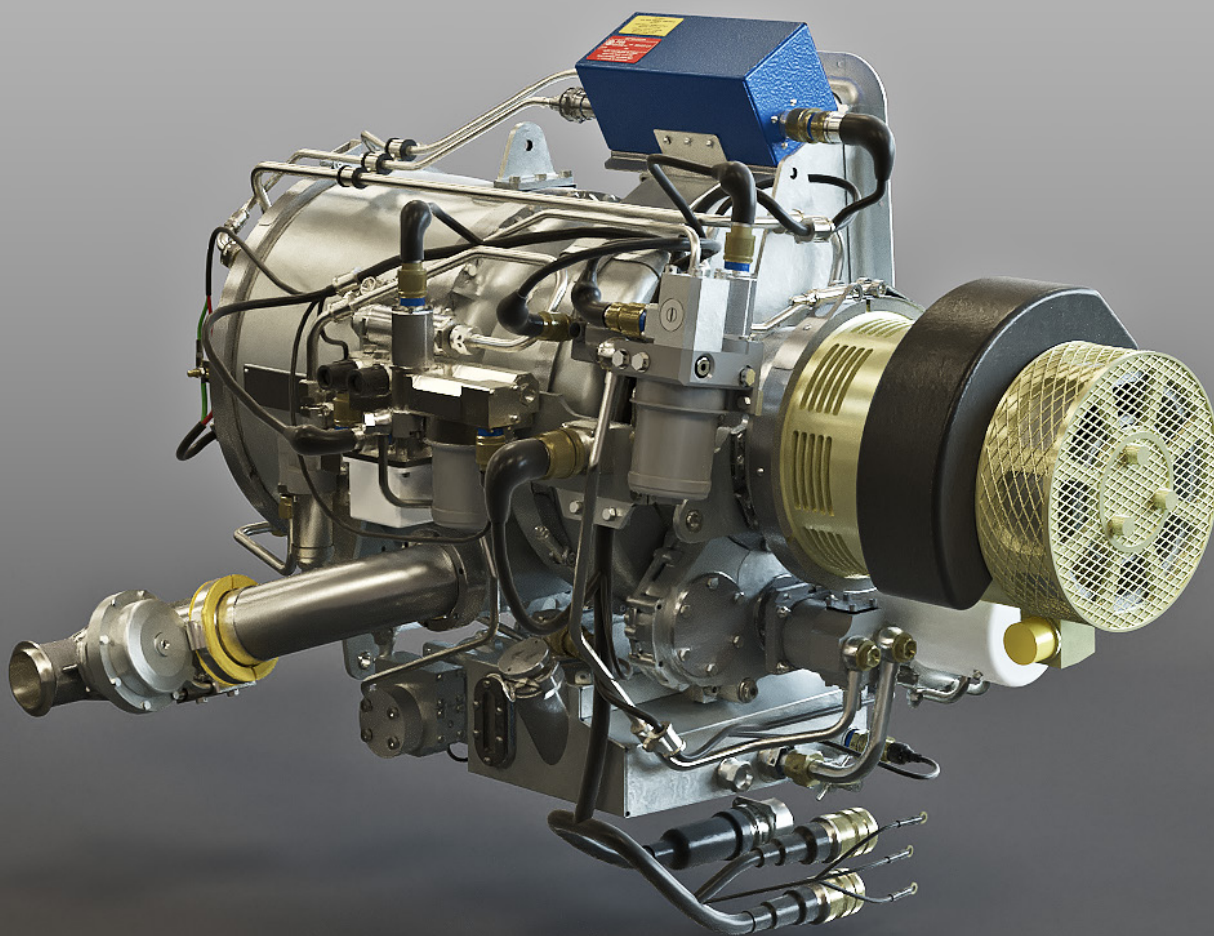


# SAFIR 5K/G MIS

## Technical Parameters

PARAMETERS	METRIC	IMPERIAL
Electrical power output	6 kW	6 kW
Bleed air extraction	24 kg/min	52.9 lb/min
Specific fuel consumption	55 kg/h	121.3 lb/h
Dry weight	64.5 kg	142.2 lb
Max. operating altitude	6,000 m	19,685 ft

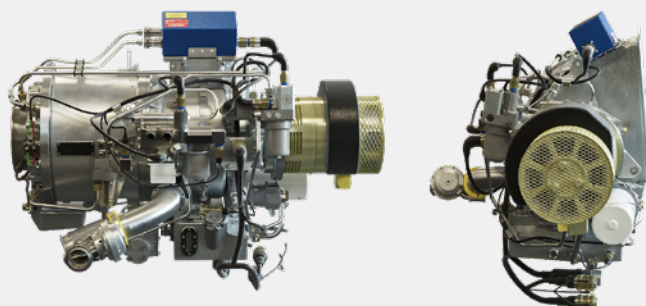


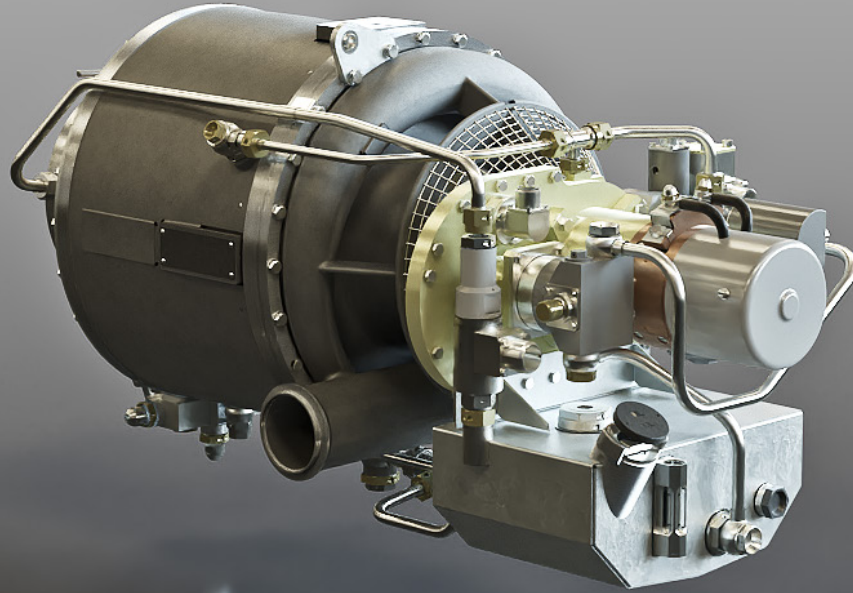


# SAFIR 5K/G MI

## Technical Parameters

PARAMETERS	METRIC	IMPERIAL
Electrical power output	20 kVA	20 kVA
Bleed air extraction	24 kg/min	52.9 lb/min
Specific fuel consumption	55 kg/h	121.3 lb/h
Dry weight	72.0 kg	158.7 lb
Max. operating altitude	6,000 m	19,685 ft

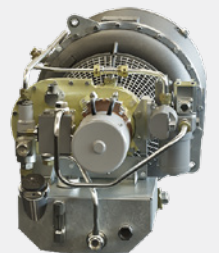
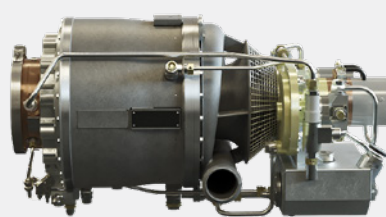


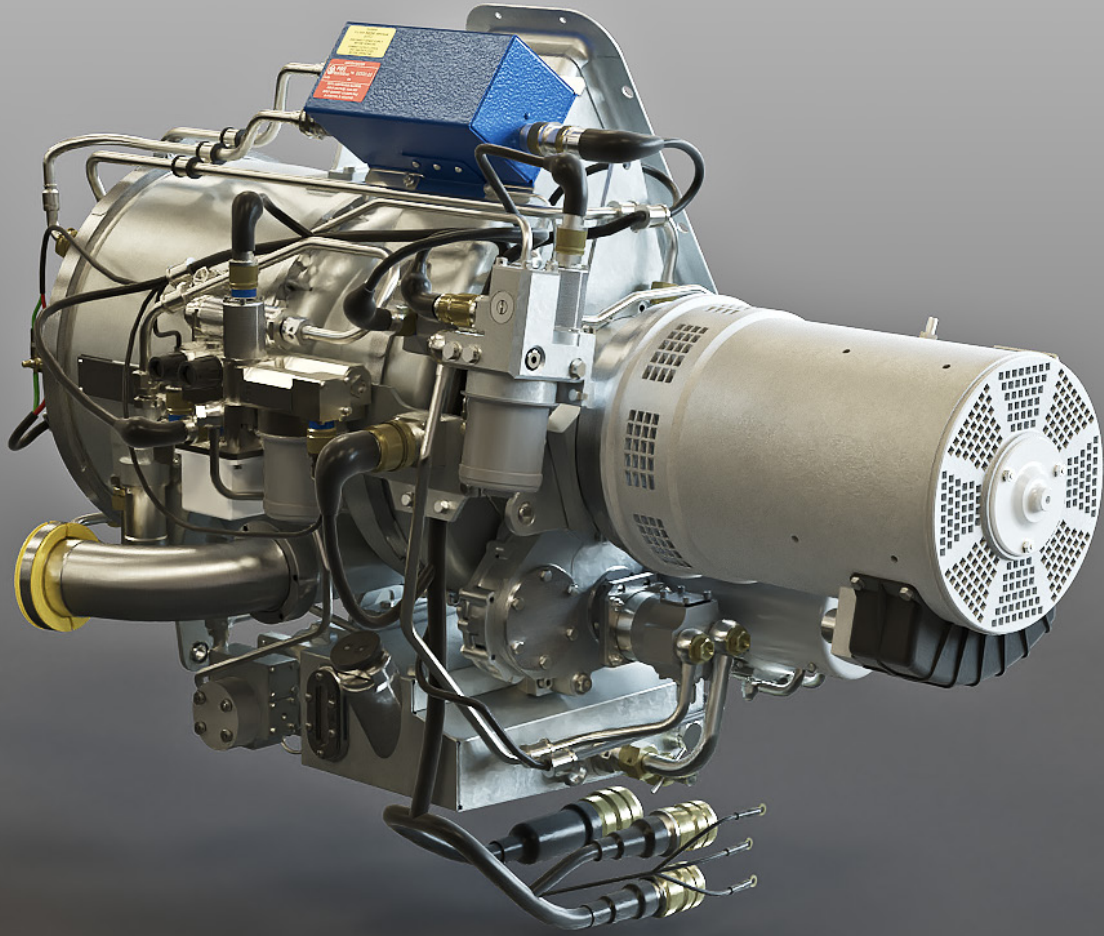


# SAFIR 5L

## Technical Parameters

PARAMETERS	METRIC	IMPERIAL
Electrical power output	N/A	N/A
Bleed air extraction	32 kg/min	70.5 lb/min
Specific fuel consumption	72 kg/h	154.3 lb/h
Dry weight	42.0 kg	92.6 lb
Max. operating altitude	8,000 m	26,247 ft



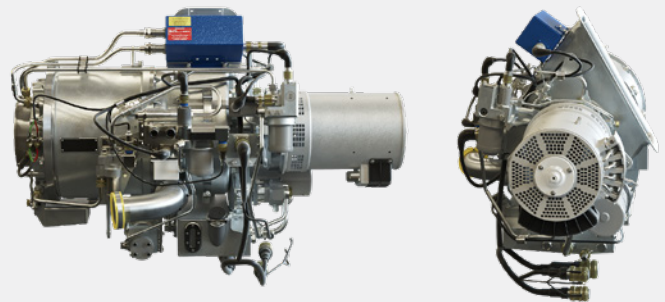


# SAFIR 5K/G Z8

## Technical Parameters

PARAMETERS	METRIC	IMPERIAL
Electrical power output	40 kVA	40 kVA
Bleed air extraction	18 kg/min	39.7 lb/min
Specific fuel consumption	62 kg/h	136.7 lb/h
Dry weight	51.5 kg*	113.5 lb*
Max. operating altitude	6,000 m	19,685 ft

\* Without AC generator



# APU SPECIFICATIONS

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# APU

FOR CIVIL & MILITARY  
HELICOPTERS



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