

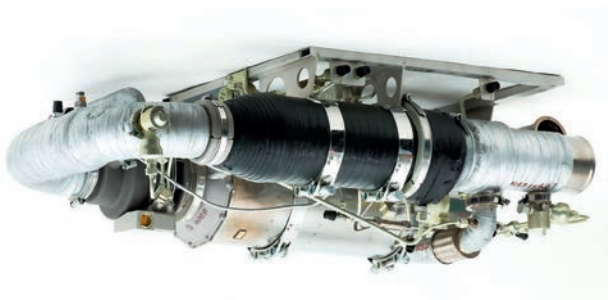
# ENVIRONMENTAL CONTROL SYSTEMS

**Environmental Control Systems are designed to maintain a comfortable thermal environment in the cockpit, passenger cabin and cargo holds of aircraft and helicopters**

**ECS-K8 for Aircraft K8**



**ECS-Y12F for Aircraft Y12F**



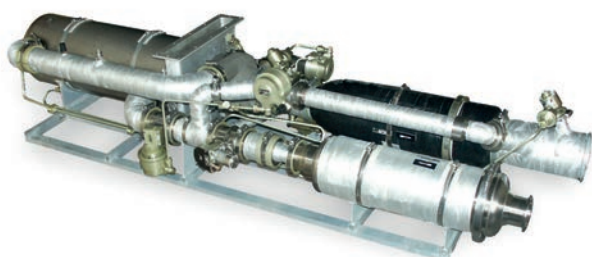
**ECS-M1V for Helicopter Mi-8/Mi-17/Mi-171A2**



## ECS for Aircraft L-39, L-159



## ECS-AAO Ground Unit



### Main features

- All-in-one cooling and heating
- Low weight, simple installation
- No electricity requirements
- Long time before overhaul (TBO)
- Ecological operation – no refrigerant
- Simple variability according to customer requirements

### Main components

- Turbocooler
- Heat exchanger
- Water separator
- Control valves
- Shut-off valve
- Check valve
- Thermostats
- Pneumatic regulation

### ECS Basic parameters

Inlet bleed air pressure	max. 1,400 kPa	max. 203 psi
Inlet bleed air temperature	max. 430°C	max. 806°F
Air flow rate	max. 1,500 kg/hour	max. 3,300 lbs/hour
Cooling capacity	max. 10.8 kW	max. 36,900 BTU/hour
Heating capacity	max. 62.0 kW	max. 211,800 BTU/hour
Air-conditioning temperature range	0°C to +90°C	+32°F to +194°F
Cabin temperature control range	+15°C to +30°C	+59°F to +86°F
Operational ambient temperature	-55°C to +60°C	-67°F to +140°F
Operational altitude range	0 to 12,000 m	0 to 39,400 ft