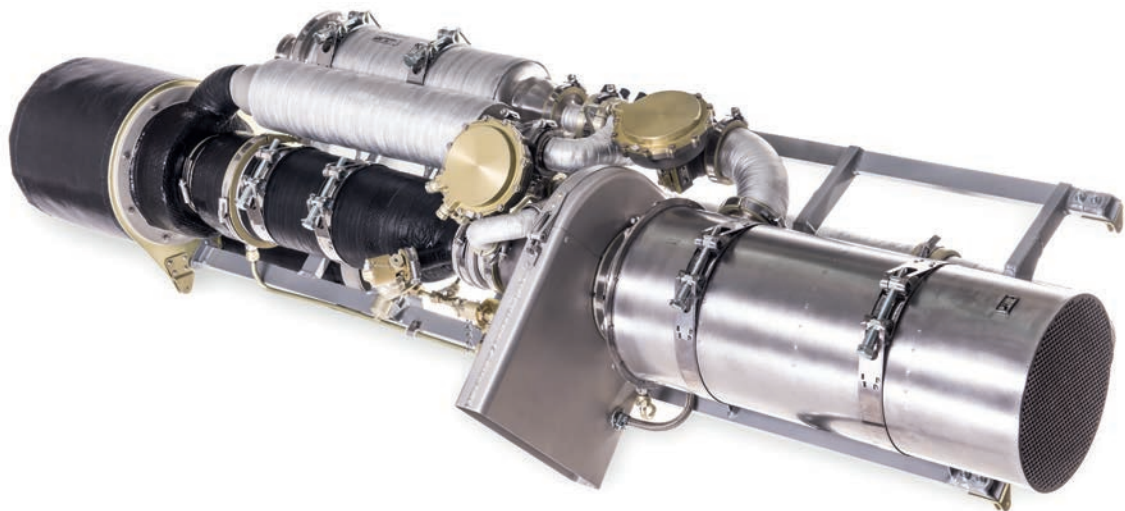


# ENVIRONMENTAL CONTROL SYSTEM ECS-M1V

Designed for heating, cooling and ventilation  
of **Mi-8/17** and new advanced **Mi-171A2**  
helicopters



## ECS-M1V Installation



## ECS-M1V - application



## ECS-M1V Advantages

- Cooling, heating and ventilation all-in-one.
- Low weight
- Compact design
- Low electricity requirements
- Simple maintenance
- On-condition maintenance, no overhaul
- Ecological operation – no refrigerant
- Pneumatic regulation

## ECS-M1V Main components

- Turbocooler with heat exchanger
- Water separator
- Noise silencer
- Control valves
- Shut-off valve
- Thermostats and temperature selector
- Distributing flaps
- Air fan

## Main parameters

Inlet bleed air pressure	max. 400 kPa	max. 58 psia
Inlet bleed air temperature	max. 210°C	max. 410°F
Air flow rate	max. 1,500 kg/hour	max. 3,300 lb/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 air temperature range	from +0°C to +90°C	from +32°F to +194°F
Cabin temperature control range	from +15°C to +30°C	from +59°F to +86°F

### Dimensions and weight

Weight	60.0 kg	132.3 lb
Dimensions (length x height x width)	1,695 x 592 x 466 mm	66.73 x 23.31 x 18.35 in

### Operating range

Operational ambient temperature	-55°C to +60°C	-67°F to +140°F
Operational altitude range	0 to 6,000 m	0 to 20,000 ft
Lifetime (operating hours)	12,000	12,000