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SME-D / SME-Q Operating Conditions

Ambient Temperature

An ambient temperature range of 21°C (69.8°F) to 23°C (73.4°F) is optimal for server reliability. At 22°C (71.6°F) it is easy to maintain safe relative humidity levels. Operating in this temperature range provides a buffer if the environmental support systems fail.

Ambient Relative Humidity

Ambient relative humidity levels between 45% and 50% are the most suitable for data processing operations in order to:

- Prevent corrosion
- Provide an operating time buffer in the event of environmental control system failure
- Help avoid failures caused by the intermittent interference from static discharges that occur when relative humidity is too low

Electrostatic discharge (ESD) is easily generated and less easily dissipated in areas where the relative humidity is below 35%. ESD becomes critical when levels drop below 30%.

Airflow Considerations

- Ensure unobstructed airflow through the chassis.
- Ensure that inlet air enters at the front of the server and exits from the back.
- Ensure that ventilation openings, such as cabinet doors, for both the inlet and
- Take care to prevent recirculation of exhaust air within a rack or cabinet.
- Manage cables to minimize interfering with the server exhaust vent.

Operating Environment Requirements

Your environmental control system must provide intake air for the server that complies with the limits specified in “Environmental Specifications”.
To avoid overheating, *do not* direct warmed air toward the front air intake of the server

Note – When you receive your server, place it in the environment where you will install it. Leave the server in its shipping crate at its final destination for 12 hours and do not connect it to the power supply! This resting period prevents thermal shock and condensation.
The servers have been tested to meet all functional requirements when operating in the operating environmental limits presented in “Environmental Specifications”. Operating computer equipment in extremes of temperature or humidity increases the failure rate of hardware components. To minimize the chance of component failure, use the server within the optimal temperature and humidity ranges.

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Physical Specifications

Description	Metric	US
- Width	485 mm	19 in.
- Depth	550 mm	21.5 in
- Height	178mm	6.92 in.
- Weight, approximate	SME-D: 26 kg, SME-Q: 27 kg	SME-D: 57 lbs, SME-Q: 60 lbs

Environmental Specifications

Description	Operating	Nonoperating
- Temperature	- sealevel to 1000m +5°C to +30°C - above 1000m: decrease maximum allowable temp. by 1°C/300m	-20°C to + 60°C
- Relative Humidity	10 to 80% RH, 27°C maximum wet bulb (noncondensing)	90% RH, 35°C maximum wet bulb (noncondensing)
- Altitude	3000m	12000m
- Vibration	0.08 G (z-axis) 0.06 G (x-, y-axis), 5-500Hz swept sine	0,3 G (z-axis) 0,15 G (x-, y-axis), 5-500Hz swept sine

Power Source Requirements

Description	Specification
- AC input voltage range	100–264 VAC, 47–63 Hz
- Maximum operating input current at 115VAC	9 A
- Maximum operating input current at 240VAC	4.5 A
- Maximum standby power	6 W (without Accessories connected)
- Idle AC input power	180 W
- Maximum AC input power	SME-D: 600 W, SME-Q: 700 W
- Peak AC input power	1020 W

Every warranty claim becomes inapplicable with non-compliance of the operating and maintenance instructions from AV Stumpfl, or if the purchaser or third parties perform technical modifications or other interventions without prior approval of the supplier.