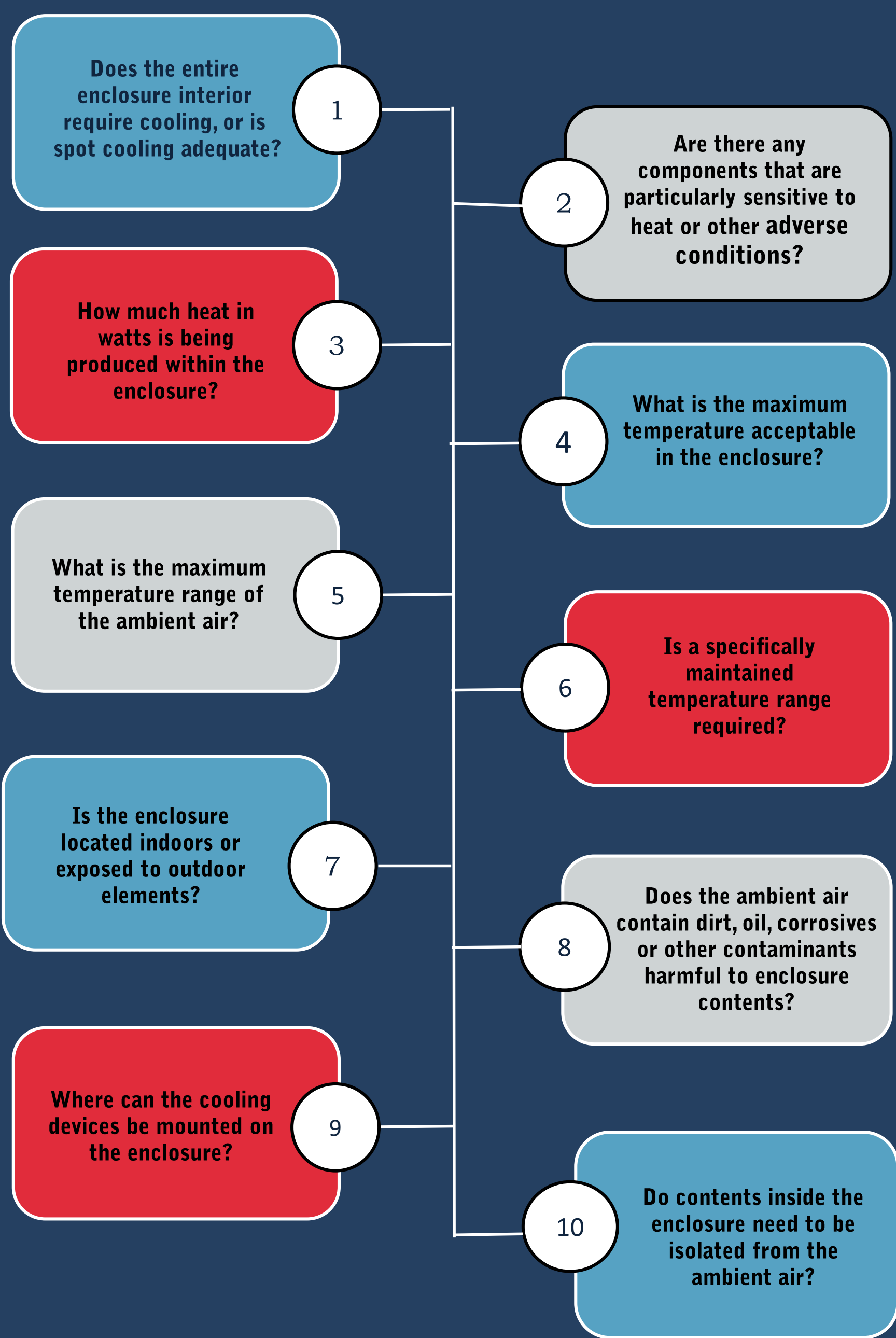


10 Enclosure Cooling Considerations

Early Planning Helps Avoid Problems Later!

To create the optimum environment for the application, an evaluation of the anticipated operating conditions and thermal requirements must be completed.

Here are some good questions to consider:



After all of the application-specific factors are determined, a decision can be made about the type of ventilation or cooling required, and which equipment provides the most appropriate performance and cost-effective solution.

A little time and effort spent early in the design process to choose the optimum cooling equipment can save a lot of trouble and expense later, as this would prevent the need to retrofit with proper cooling devices in the field.

Some helpful product guidelines

- FANS:** Fans occupy minimal cabinet space and will move a substantial volume of air where flow is virtually unimpeded. By using outside air to cool they are an economical choice.
- BLOWERS:** Blowers are designed to operate against higher static pressures. Packaged blowers provide compact, filtered, rack-mounted cooling in a variety of airflow configurations.
- HEAT EXCHANGERS AND AIR CONDITIONERS:** Use in applications where equipment operating temperatures must remain near or below ambient, or where airborne contaminants pose a threat to electronic components, the enclosure interior must be isolated from the external environment.