ENCLOSURE SOLUTIONS FROM....

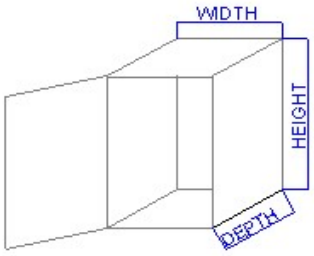
Cool Calcs

PEEKN SERVICES

Note: for the purpose of providing a general guideline to a cooling solution, this questionaire assumes an IP55 (min) **wall mounted** carbon steel, powder coated enclosure and will be calculated with a K factor of 5.5*

Please supply the following information with your request for proposal:-

1. What are the enclosure dimensions ? (mm)



Height: _____ Width: _____ Depth: _____

1a. The enclosure model # (if known)

_____

2. What are the climate conditions ?

Ambient Temperature		Required Internal Temperature	
2a. Minimum	_____ ^{0}C	2c. Minimum	_____ ^{0}C
2b. Maximum	_____ ^{0}C	2d. Maximum	_____ ^{0}C

3. General enclosure location:

3a.	_____	Inside
3b.	_____	Outside - Undercover, (no exposure to rain).
3c.	_____	Outside, (exposed to sun / rain)

4. Exposed enclosure surfaces:

Please advise which surfaces are not exposed to the ambient area. EG. An enclosure mounted in the middle of a wall is not exposed at the back.

4a.	Back	_____	4d.	bottom	_____
4b.	Top	_____	4e.	LHS	_____
4c.	Front	_____	4f.	RHS	_____

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5. Installed heat losses / Power:

5a. [ ] W = Installed heat / power losses within the enclosure.

If you do not know the installed heat loss in the enclosure, it can be obtained through several methods.

5a1. Component data sheets 1); the technical data sheets in the majority of cases list either the heat loss in W or BTU.

5a2. Component data sheets 2); the technical data sheets may list the efficiency as a % of the power consumption.
EG ((Voltage x Amps) less efficiency) = Loss in Heat Watts

5a3. Measurement; Whilst the enclosure is operating at full load in a sealed enclosure, measure the external temperature from 1M away and the internal temperature (inside the enclosure towards the top).

6. Notes 1); Please use this area to record your notes RE Power losses.

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7. Notes 2); Please take a moment to advise us of any adverse environmental conditions which may reflect affect our offer.

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ENCLOSURE SOLUTIONS FROM....

Cool Solutions

PEEKN SERVICES

Please see below for a brief overview of the components available for us to provide you with a solution to meet your project specifications.

Digital temperature display & thermostat.

Provides a display of the internal temperature and the ability to switch on / off fan units. (Data sheet available)

Thermostats

Used to control - turn ON / OFF fan(s) & / or heaters depending on the set temperature. (Data sheet available)

Hygrostats

Similar to the thermostst above but switched relative to the humidity within the enclosure. Designed to prevent confensation on the internal components.(Data sheet avail)

Enclosure Heaters

Continous thermal output 10 ~ 150W, without fan, 235 ~ 800W with fan (data sheets available)

IP30 Louvres / vents

Fan / Filter units, 20 ~ 1069 m^3/h

Side / door mounted units, 20 ~ 900 m3/h, EMC & EC variants available. (data sheets available)
Roof mounted fans, 500 ~ 1069 m3/h (data sheets available)

Fan hoods

Stainless steel, suitable for use in foodstuff environments.
IP 56 protection when used with fan & filter units.

Air / Air Heat Exchangers

Wall Mounted with controller, specific thermal output 17.5 ~ 90 W/K

Air / Water Heat Exchangers, 300 ~ 7000W

More details on request.

Air - Conditioners, 100 ~ 6000W

More details on request.

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