

# Custom-built 20 ft container van

## Van construction thoughts etc.

Needs better insulation if at all possible. We have had problems in the past with the van getting too hot. If possible a higher level of insulation in the walls of the van would reduce this problem.

We have now installed a second 9000 BTU cooling unit in the lab part at the opposite end of the van and temperatures are much better. This second unit adds to the 10,000 BTU of the original system.

This second unit is two-part system such as used in houses etc., where the heat exchanger is separated from the cooling unit. This kind of system requires professional installation and is more expensive.

Do not use Diamond Sea Glaze door handles they have failed multiple times and the supplier ignores requests for new handles--just sends replacement springs and tells you to fix it yourself--most unsatisfactory.

Get channel lock on all empty surfaces--to hold shelf brackets  
Evaluate power needs carefully, ours is 60 amps, 100 might be better.

Deck drains on each side of the sampling area, have a sill placed between the sampling area and the lab area to stop water coming over.

Ethernet wiring in our van was unsatisfactory. The punch down block used was badly connected (not contacting properly) the same problem occurred with the wall mounted Ethernet connectors.