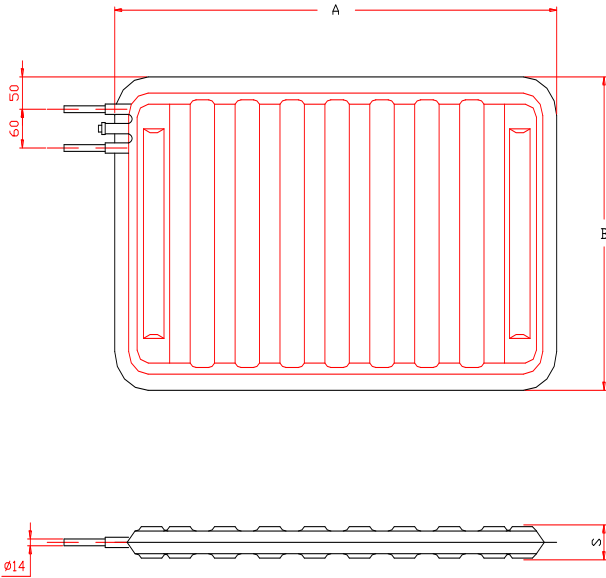


LOW TEMPERATURE EUTECTIC PLATES WITH SOLUTION AT -33°C



Cold plate refrigeration uses frozen eutectic plates inside the body compartment to absorb heat as a means of maintaining desired temperature levels. Those passive plates are "refrozen" each day during a 10 to 12 hour electrical plug in of the on board refrigerant compressor. The freezing temperature of the eutectic solution is -33°C. The eutectic plates are filled with a solution that freezes at a determined temperature (eutectic point). By connecting a condensing unit to the pipe that is inside the eutectic plate it is possible to freeze the eutectic solution. In such way we produce an independent storage of cold at a well determined temperature, which is proportional to the quantity of eutectic solution and to its melting latent heat.

The eutectic plates are used to maintain the temperature of the product which is already refrigerated or frozen.

The exchange coefficient of the plates is of about 13.95 W/m²°C.