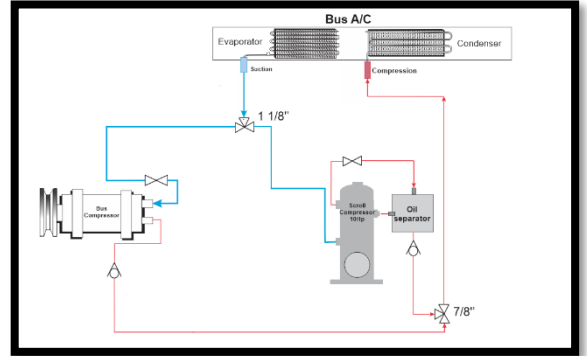


## A/C-SPS - Standby Power System

Auto Cool Stand-by power system (SPS) is a standalone electromechanical system that enables full operation and control of the bus air conditioning system while the engine is off.

The system contains a 10 HP, 3P/380V compressor with the required connection kit of gas hoses and fittings which are connected in parallel to the original bus A/C system.

The ESM (Electrical System Management) is responsible for both AC and DC power supply by enabling the proper voltage for the air conditioner operation while assuring the bus 24VDC battery charging stability.



The ESM includes safety applications such as Bus engine *shutdown*, *luggage door disables* and system operation control mode which restrictive for one power source only (Engine or Grid).



AC-SPS operate the bus air conditioner system by a 3P, 5x32A power cable connection from the electricity grid line. These connection splits into two separated sources AC and DC power. AC power for the compressor, and DC power for air conditioner, control battery charging and safety controlling applications.



The AC-SPS main reason is to stop diesel use while parking in a standby mode to zero-emission that can significantly reduce both air pollution and fuel expenses.

Today the AC-SPS is operational in more than 40 buses and operate in severe conditions in the Dead Sea with an ambient temperature of 45<sup>0</sup>-50<sup>0</sup> Celsius.