

**SPECIFICATION NO.VFJ/TSS/SP/ARMY & MHA/MPV/04**  
**SPECIFICATION OF SPLIT TYPE AIR CONDITIONING SYSTEM FOR MPV**  
**(ARMY & MHA VERSION)**

**(Amendment No.7 Dtd.05.11.2014)**

**I. SCOPE:**

Design installation commissioning and providing Split type Air Conditioning System of capacity 1.5 Tonne in volume of 15 cubic meter – special vehicle having HA57L135 KW EURO - III Engine with pulley having dia 100 mm, as a whole job at VFJ for Rugged application. A.C. unit should be able to achieve offer desired temperature and air moisture conditions during all seasons using appropriate thermocouple / thermostat in the passenger compartment A.C. fitted has to satisfy the specification JSS : 55555.

**II. TECHNICAL DESCRIPTION OF THE A.C. SYSTEM**

**1. Compressor :**

Capacity : 154 CC (Model Sanden SD7H15)  
Voltage : 24V, D.C.  
Model/Make : To be specified by the supplier.

**2. Condensor:**

24V, DC with 2 no.of fans.  
Approx.allowable overall dimensions 875 mm x 940 MM x 210 mm height (+/-25mm).

**3. Evaporator:**

24V, DC with 2 motors with air flow of approx.650 cfm with provision for heating.  
Approx. allowable overall dimensions 920 mm x 180 mm (+/-25mm).

**4. Temperature Range:**

Temperature range to be maintained in the vehicle room is between 21 to 24 degree centigrade continuously. However, it should be able to work at 15 degree centigrade for two hours.

**5. Relative Humidity : 65 to 75 percent.**

**6. Air Pressure : 85 to 106 kpa (10 psi for low & 350 psi for high)**

**7. Heater:**

Heating provision to be provided for operating temperatures below 10 deg C with Heat hose Inlet & Heating hose Outlet from Radiator to evaporator.

**8. Regulator : Two Speed Regulator.**

**9. Sweating / Fronsting / Sprinkle: Not acceptable during specified temperature range 21°C to 27 °C**