

## AIR CONDITIONING

### ■ DESCRIPTION

#### 1. General

The air conditioning system in the new GS300 has the following features:

- A fully automatic controlled type air conditioning system is used on all models.
- A semi-center location air conditioning unit, in which the evaporator and heater core are placed in the center of the vehicle, has been newly adopted.
- The construction of the evaporation, heater core, and blower fan has been changed.
- A left/right independent temperature control system, in which the temperature for the driver and the front passenger can be controlled independently, has been newly adopted.
- A 2-dimensional dome-type solar sensor which detects the amount of left/right solar radiation have been newly adopted.
- Shower ducts, which guide warm air to the entire footwell area, have been adopted.
- A variable-capacity compressor, in which the capacity of the compressor varies in accordance with the cooling load, has been adopted on models except G.C.C. Countries.
- A sub-cool condenser, which cools the refrigerant twice, has been adopted.
- As in the LS400, an automatic recirculation system that automatically switches the air inlet mode according to the level of concentration of exhaust gases in the outside air, has been adopted on models except G.C.C. Countries.
- The water valve and the EPR (Evaporator Pressure Regulator) have been discontinued.

## ► Performance ◀

| Model           |                        | New         | Previous    |
|-----------------|------------------------|-------------|-------------|
| Item            |                        |             |             |
| Heater          | Heat Ouput W (Kcal/h)  | 5200 (4470) | 5400 (4640) |
|                 | Air Flow Volume (m³/h) | 350         | 350*        |
|                 | Power Consumption (W)  | 210         | 195         |
| Air Conditioner | Heat Ouput W (Kcal/h)  | 5600 (4820) | ←           |
|                 | Air Flow Volume (m³/h) | 550         | 560         |
|                 | Power Consumption (W)  | 260         | ←           |

\*: With side vent closed

## ► Specifications ◀

| Model                  |             |                      |          | New                                     | Previous                                |
|------------------------|-------------|----------------------|----------|---|---|
| Item                   |             |                      |          |   |   |
| Ventilation and Heater | Heater Core | Type                 |          | Multi-Flow Type                         | Dimpled Tube Type                       |
|                        |             | Size<br>W × H × L    | mm (in.) | 100 × 264.1 × 27<br>(3.9 × 10.4 × 1.1)  | 177.8 × 200 × 32<br>(7.0 × 7.9 × 1.3)   |
|                        |             | Fin Pitch            | mm (in.) | 1.8 (0.07)                              | 2.0 (0.08)                              |
|                        | Blower      | Motor Type           |          | S80Fs – 12T                             | S80Fs – 12.5T                           |
|                        |             | Fan Type             |          | Radial Fan                              | Sirocco Fan                             |
|                        |             | Fan Size<br>Dia. × H | mm (in.) | 180 × 70 (7.1 × 2.8)                    | 150 × 85 (5.9 × 3.4)                    |
| Air Conditioner        | Condenser   | Type                 |          | Multi-Flow Type<br>(Sub-Cool Type)      | 3-Passage Type                          |
|                        |             | Size<br>W × H × L    | mm (in.) | 670 × 397.3 × 16<br>(26.4 × 15.6 × 0.6) | 706 × 382.4 × 22<br>(27.8 × 15.1 × 0.9) |
|                        |             | Fin Pitch            | mm (in.) | 3.2 (0.13)*, 4.0 (0.16)                 | 3.5 (0.14)                              |
|                        | Evaporator  | Type                 |          | Drawn Cup Type                          | ←                                       |
|                        |             | Size<br>W × H × L    | mm (in.) | 291.6 × 215 × 58<br>(11.4 × 8.5 × 2.3)  | 278.3 × 200 × 105<br>(10.9 × 7.9 × 4.1) |
|                        |             | Fin Pitch            | mm (in.) | 3.5 (0.14)                              | 4.0 (0.16)                              |
|                        | Compressor  | Type                 |          | 7SB16, 10PA20*                          | 10PA20                                  |

\*: Models for G.C.C. Countries