

Technical Data Sheet for DS-150

A) General Product Details:

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|----|----------------------------------|--------------------------------|
| 1. | Product : | Siren |
| 2. | Audible Range (Diametrical) : | 1.50 Killometers (Diametrical) |
| 3. | Supply Voltage : | 220/250v AC |
| 4. | Base Mounting : | Horizontal |
| 5. | Siren Type : | Double Ended |
| 6. | Motor H.P. Rating : | 1/4 |
| 7. | Motor Rated RPM : | 6000 |
| 8. | Weight of the Unit (Un-Packed) : | 7.200 Kgs |
| 9. | IP Protection: | IP-55 |

B) Visual Inspection & Checking:

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|----|---|------------------------|
| 1. | Casting Quality of the Rotor / Housing : | OK |
| 2. | Colour of the Paint : | Grey |
| 3. | Quality of the Colour & the Painting : | OK |
| 4. | Screws Fitting on the Main Unit : | All Screws Ok & Fitted |
| 5. | Earthing Correct Marking : | Yes |
| 6. | Nameplate Details / Label Description / Motor Body Markings: Volts: 220/250v AC Range: 1.50 (Kmts) (Diametrical) RPM: 6000 Model No. DS-150 | |
| 7. | Rotor Movement : | Free |
| 8. | Front / (Rear) Guard Covers Fitted Properly ? | Yes |

C) Electrical Testing:

1. 2 KV High-Volt. Test between Winding & Earth Terminal for 1 Minute : OK
2. Megger Tests for Insulation Quality : 100 M Ohms
3. Load Current at Full Volume at Supply Voltage: Peak Current: 5.1 Amp,
Continuous Current : 2.2Amp

D) Sound Output Level Checking:

1. At a distance of 1 Meter from side of the Siren: 116 (dB)

Formula = $M/A = 20 \cdot \text{antilog}(\text{dbm/dba})$

Here . M= Measure Distance

A= Actual Distance

dbm= Measure Db

dba = Actual Db usally 60db

$$M/A = 20 \cdot \text{antilog}(\text{dbm/dba})$$

$$M/1 = 20 \cdot \text{antilog}(116/60)$$

$$M = 20 \cdot \text{antilog}(1.93)$$

$$M = 1715 \text{Meters}$$

$$M = 1.71 \text{ Kmtr. (Diametrical)}$$