

PROTECT THE WORK HORSES  
OF INDUSTRY

---

**From :**

- Water, Rain, Mist
- Acid & Chemicals
- Dust
- Heat
- Impact



**MOTOR PROTECTION SHELL**

The necessity to protect the equipment, needs no emphasis. The daily failures due to one reason or the other is reminding us always.

A little money extra spent on the protective means, is worth, than facing the breakdown and failures i.e. PRODUCTION LOSS.

The motor are invariably subjected to abnormal circumstances (other than the designed parameters) such as

### **NATURE OF WORK**

- Installed Directly Under Sun/rain
- Installed In Dusty Atmosphere
- Installed In The Vicinity Of Flying Objects  
(e.g. waste paper, clothes, leaves etc.)

### **ACCIDENTAL CONDITIONS**

- Hit by falling object
- Excessive heating due to fire or heat in the vicinity.
- Splash of oil/acid/corrosive substances

The motors should be protected from abnormal eventualities and should be guarded to minimize the risk of damages.

### **PRODUCTS**

To protect the equipment PROTECTION SHELL is suggested, which is a cover made of FRP (hand lapping process)

### **WHY FRP ?**

**Because.....**

**FRP is**

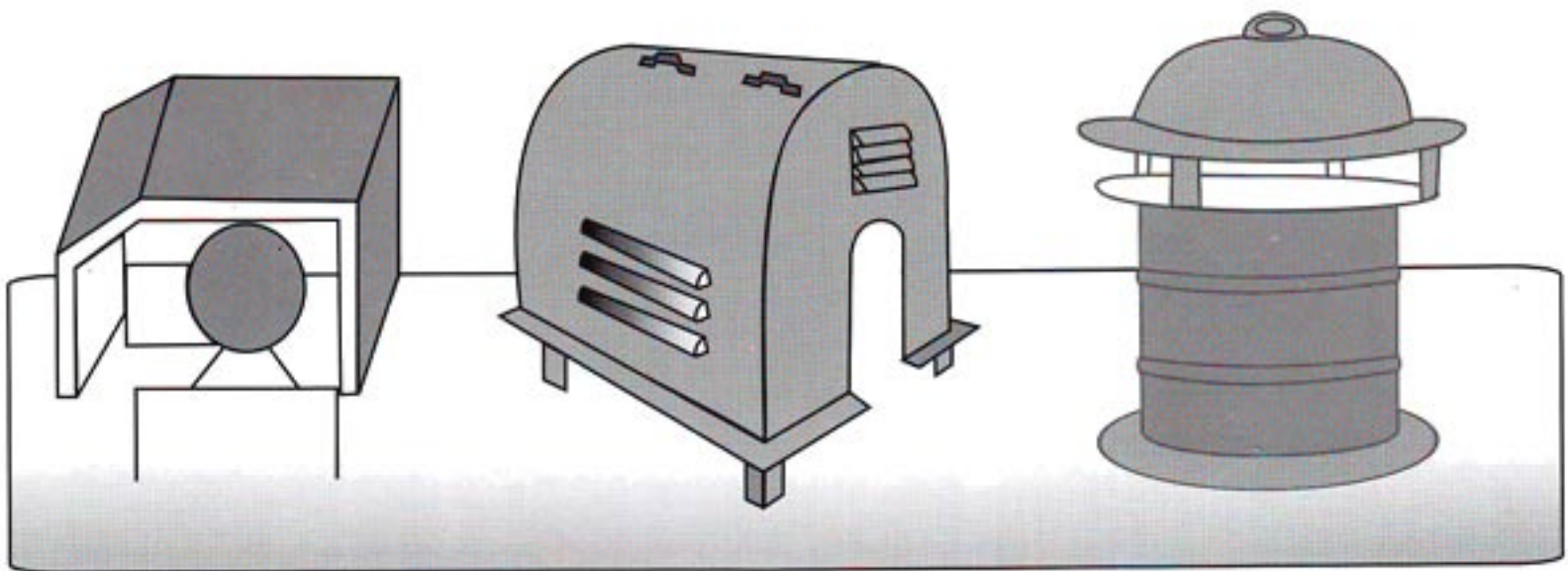
- RESISTANT TO CORROSIVE ENVIRONMENT
- MECHANICALLY STRONG
- NO WATER ABSORPTION
- HIGHLY INSULATING MATERIAL
- U. V. STABILISED
- AESTHETIC LOOKS
- MAINTENANCE FREE
- LIGHT WEIGHT
- EXCELLENT WEATHERABILITY



## MOTOR PROTECTION SHELL (MOTOR CANOPIES)

### The salient feature are:

1. One piece moulding giving a monolithic construction
2. LOUVERS are FRP Moulded and provided all around the protection shell (due care has been taken towards the cooling requirement of the motor under full load conditions). The main advantage of FRP MOULDED LOUVERS IS THE LIFE, these louvers will last up to the life of shell
3. Have appropriate fixing arrangement for the ease of installation at site.
4. MECHANICALLY STRONG. Extra thickness is given at appropriate places. enabling this to withstand the Stresses and Shocks to which it is normally subjected to at site during its life span.
5. Lifting handle is provided.



### SHAPE AND SIZE :

The size of the MOTOR PROTECTION SHELL is based on the physical dimensions of the motor It is so selected that a uniform clearance of at least 50mm is maintained on all sides with respect to the motor body for the purpose of:

1. PROPER CIRCULATION OF AIR ALONG WITH THE LOUVERS
2. FOR THE EASE OF INSTALLATION / LIFTING

### It Should Cover The Motor Fully To Protect From

- Rain water
- Chemical or water spillages
- Accidental fall of some material or the hit of Some flying object under abnormal circumstances

## SPECIFICATION

PARAMETERS	SPECIFICATION
1) MATERIAL OF CONSTRUCTION	FRP
2) TYPE OF RESIN	ISO-PHTHALIC/GEN PURPOSE
3) GLASS FIBRE	CSM OF 450GMS
4) SHAPE & SIZE	As per Motor Size
5) COLOUR	D. A. Grey
6) THICKNESS	3 to 5 MM
7) LOUVERS	Yes
8) HANDLES	Yes
9) FINISH	Outside Smooth Finish
10) STIFFNERS	Yes (in strip form by changing material Orientation).
11) SUPPORTING	As required at site by FRP ANGLES / CHANNELS
12) CORROSION RESISTIVITY	Yes
13) STABILITY From U. V. RAYS	Yes
14) MOULDING PROCESS	Hand Lay -up
15) FLAMABILITY	Low Flammability as per IS-6746
16) GLASS CONTENTS	30 to 33%
17) OXYGEN INDEX	30+
18) FLAME SPREAD INDEX	14 to 15
19) ANTI STATIC	Yes (If required)

## INSTALLATION :

NO SPECIAL SKILL IS REQUIRED, JUST KEEP SHELL OVER THE MOTER.

The motor protection shell is specially designed by considering the general site conditions

The height of FRP Angles is adjusted according to the required parameters such as height of the motor above the foundation, rail mounted, flange mounted, resting directly over the foundation etc.

## PRECAUTION

The Motor Protection Shell Should Not Significantly Restrict Air (ventilation) Passage as such condition will lead to the burning of the motor.

**(IT IN NOT SUPPOSED TO HAVE BOX LIKE SITUATION)**