

MOS Acetylene Plant (Range 25Nm³/Hr – 200Nm³/Hr)

The Acetylene Plants from MOS TECHNO ENGINEERS are of indigenous manufacture. Every part has been carefully designed by experienced engineers. These parts are made of the best material. Every part has been accurately made and carefully inspected before assembly. Each unit, after assembly is charged and worked continuously to check its performance. You are, therefore, assured of an efficient and dependable acetylene plant.

This Acetylene Plant from MOS TECHNO ENGINEERS is of an advanced design, incorporating several features not ordinarily found in other generators. This one is a fully automatic plant with twin hoppers (and needs an operators' attention for only ten minutes in an hour).

All operations are performed by pneumatically controlled valves, assisted by highly sensitive sensors, integral with the temperature control instruments.

These in turn open the water inlet valve or residue drain valve etc. Two hydraulic pumps help to open and close the supply of calcium carbide. This is fed into the generator by screw feed conveyors. The screw feed mechanism and the agitator are operated by flame-proof motors and fittings.



100 cu.m./hr. Acetylene Generator

The entire operation is perfectly synchronised to give maximum efficiency and simplicity in operation. Any failure, whether it is of power supply, water, instruments air, is signalled visually and also audibly when an alarm bell rings to alert the operator.

Only flame proof lights and electrical fittings according to IS2148-68 (Group II) or BSS-229 may be used in an acetylene plant building. Acetylene cylinders must be of specification IS: 7312: 1974 or ICC:8.

The design of the entire plant has been made with safety in mind. Flash Back Arrestors, High Pressure Reverse Flow check valves, safety valves and complete gauging help protect both equipment and personnel. Various auto controls, safety valves, auto vent valves, non-return valves and Flash Back Arrestors are also provided to make this plant absolutely safe to operate in all conditions.

Specifications		For 45cu.m/hr Acetylene Plant	For 100cu.m/hr Acetylene Plant
I	Capacity	45 cu.metre/hr of Acetylene	100 cu.metre/hr of Acetylene
	Cylinders filled per batch	60 Cylinders	120 Cylinders
	Carbide Size	4-50 mm	4-50 mm
	Hopper Capacity	150 Kg	300 Kg
	Carbide required per batch	1, 200 Kg approximately (depending on Carbide quality)	2, 700 Kg approximately (depending on Carbide quality)
	Water required	10 ltrs. per kg of Calcium Carbide used	10 ltrs. per kg of Calcium Carbide used
	Power requirement	18 KW	30 KW
	Start up time	15 minutes	15 minutes
II	I.S. Specifications conforms to: a) Acetylene Generator b) Flame Proof Motors	IS 8471 - 1977 IS 2148 (Group II-B)-1968	IS 8471 - 1977 IS 2148 (Group II-B)-1968
III	Statutory requirement of distances as per Explosive Dept.	a) Acetylene Plant and Carbide godown should be: 9 metres form lime pits 15 metres from public road 15 metres from Electricity room 15 metres from any other building 90 metres from Oxygen Plant air intake point and 30 metres from Oxygen Plant Building. b) Acetone godown of 2,500 litres capacity should be 6 metres from any other premises	a) Acetylene Plant and Carbide godown should be: 9 metres form lime pits 15 metres from public road 15 metres from Electricity room 15 metres from any other building 90 metres from Oxygen Plant air intake point and 30 metres from Oxygen Plant Building. b) Acetone godown of 2,500 litres capacity should be 6 metres from any other premises
IV	Power Supply	440 Volts/3 phase/50 hertz (if your supply is different from this please specify to enable us quote accordingly)	440 Volts/3 phase/50 hertz (if your supply is different from this please specify to enable us quote accordingly)