



UNIVERSAL INDUSTRIAL PLANTS MFG. CO.

IMPIANTI LIQUEFAZIONE E PRODUZIONE GAS TECNICI

ING. L. & A. BOGHI
IMPIANTI LIQUEFAZIONE E PRODUZIONE GAS TECNICI



Fully Automatic Universal Acetylene Generator

ISO 9001:2000 CERTIFICATION





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Universal Acetylene Chemical Purifier

This is a large vessel provided with two sectors by wire mesh frame network. Each sections by wire mesh frame work. Each sectors are charged with purifying mass which absorbs gases like hydrogen sulphide, phosgene etc.

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ING. L. & A. D'AGOSTINI
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Universal Acetylene Compressor

The acetylene compressor is a three stage machine which is immersed in water filled tank to avoid any pressurized gas to come in contact with air and also to make sure that all the components are continuously cooled. The compressor is drawn by flame proof motor from outside the tank.

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Universal Acetylene Ammonia Scrubber

This equipment has a vertical vessel filled with a level gauge and water make-up line. A particular as marked on the level indicator has to be maintained. The ammonia scrubber all the water soluble impurities like ammonia.

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Universal Acetylene Automatic Control

- Temperature cum water inlet control.
- High temperature alarm.
- Level cum slurry discharge control.
- Level alarm.
- Pressure controls.
- Control of high temperature.
- Control of high level.

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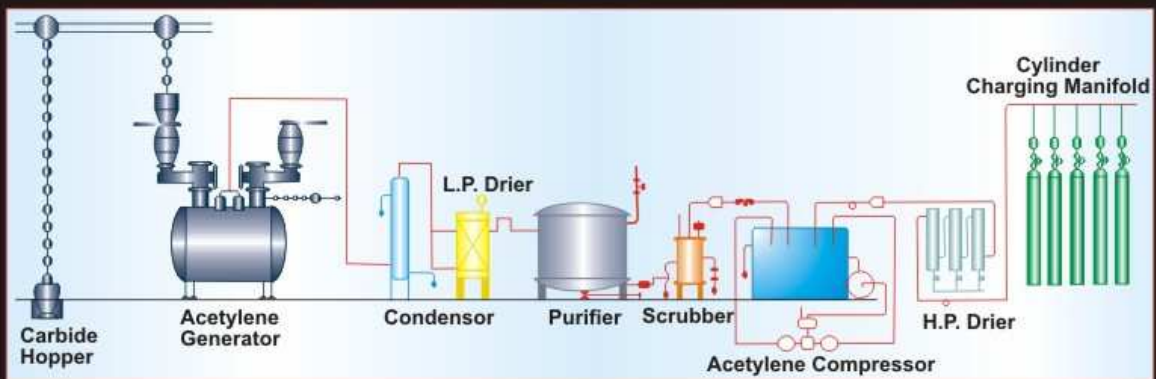


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Universal Acetylene Gas Producing Plants



Equipment Schedule For Acetylene Gas Producing Plants

S. No.	Description
1.	CARBIDE HOPPER
2.	ACETYLENE GENERATOR
3.	L.P. DRYER
4.	PURIFIER
5.	AMMONIA SCRUBBER
6.	ACETYLENE COMPRESSOR
7.	H.P. DRYER
8.	CYLINDER FILLING MANIFOLD
9.	ACETONE PUMP
10.	FLAME PROOF MOTORS

S. No.	Description
11.	GAS LINES
12.	CONDENSER
13.	AUTOMATIC SCREW FEED
14.	AGITATOR
15.	TEMPERATURE CONTROLLER
16.	PRESSURE CONTROLLER
17.	LEVEL CONTROLLER
18.	SLURRY DISCHARGE CONTROL
19.	HIGH TEMPERATURE ALARM
20.	ONE CHARGE OF CHEMICALS

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Universal Acetylene Electrical Panel

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Universal Acetylene High Pressure Drier

The high pressure drier consists of three columns. The first column is filled with packing to avoid any void and for proper mixing and the second and third are filled with anhydrous calcium chloride.

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Technical Specification

S.No.	Description	UA - 25	UA - 50	UA-100
1.1	Capacity (acetylene with purity as per IS-30B) Cubic Meter per hour	25	50	100
1.2	Raw material required			
1.2.1	Process water (liters/kg of calcium carbide processed)	8-10	8-10	8-10
1.2.2	Calcium carbide (kg/N.cubic meter of gas)	4	4	4
1.2.3	Calcium chloride (gms/N.cubic meter of gas)	50	50	50
1.2.4	Cooling water make-up (liters/N.cubic meter of gas)	10	10	10
1.2.5	Power (average requirement)	12KW	15 KW	28KW
1.2.6	Purifying mass (gas plus acid absorption mix per cum of gas)	15 gms/ N.Cum + 4 gms	15 gms/ N.Cum + 4 gms	15 gms/ N.Cum + 4 gms
1.2.7	Instrument/Process air	70 liters/ minute	70 liters/ minute	100 liters/ minute
1.2.8	Acetone	As required	15 KW	28KW
1.2.9	Hydraulic oil (for screw feed system)	Equivalent to SAE - 30	Equivalent to SAE - 30	Equivalent to SAE - 30
1.2.10	Lubricating oil (for compressor)	Hylube HDX-40	Hylube HDX-40	Hylube HDX-40
1.3	Space required (abt)	As required	15 KW	28KW
1.3.1	Process Area	70 Sq.M.	110 Sq.M	150 Sq.M
1.3.2	Carbide Storage Area	75 Sq.M.	112 Sq.M	175 Sq.M.
1.3.3	Cylinder filling area	40 Sq.M.	60 Sq.M	100 Sq.M
1.3.4	Cylinder storage area (depending upon cylinder inventory)	100 Sq.M.	160 Sq.M	200 Sq.M
1.3.5	Lime slurry disposal area	100 Sq.M.	180 Sq.M	250 Sq.M
1.3.6	Free space around the plant (on all sides)	16 M	18.5 M	20 M
1.3.7	Acetone godown	12 Sq.M.	20 Sq.M	30 Sq.M

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