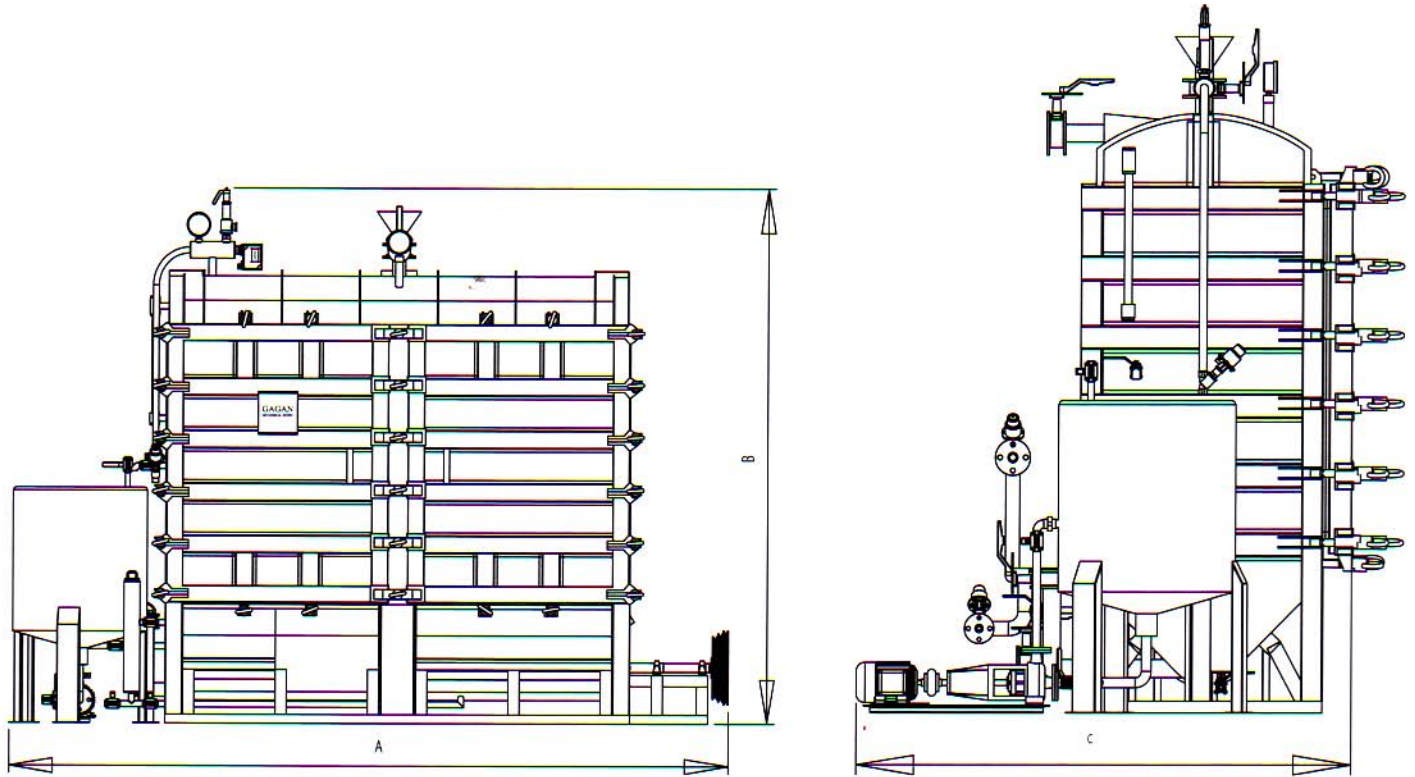


Safety Factors

- (a) Safety Valve.
- (b) Rapture Disc.
- (c) Pressure switch with electric valve.
- (d) High pressure /Temperature alarm.
- (e) Auto steam cut valve.
- (f) Vacuum Relief Valve.



Specification

Model	Capacity (K.G.)	Total Power (H.P.)	Dimensions mm		
			A	B	C
HHD-10	10Kg. Malai Dori/ 5Kg. Cotton	2	457	2133	1219
HHD-50	50Kg. Malai Dori/ 25Kg. Cotton	3	1676	2438	1676
HHD-100	100Kg. Malai Dori/ 50Kg. Cotton	3	1981	2438	1981
HHD-200	200Kg. Malai Dori/ 100Kg. Cotton	5	2590	2438	2590
HHD-500	500Kg. Malai Dori/ 250Kg. Cotton	7.5	3048	2438	3048
HHD-1000	1000Kg. Malai Dori/ 500Kg. Cotton	15.0	3048	3352	3048



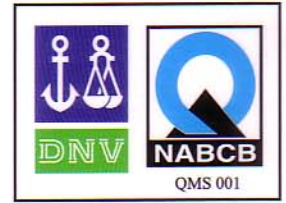
AN ISO 9001 : 2000
CERTIFIED COMPANY



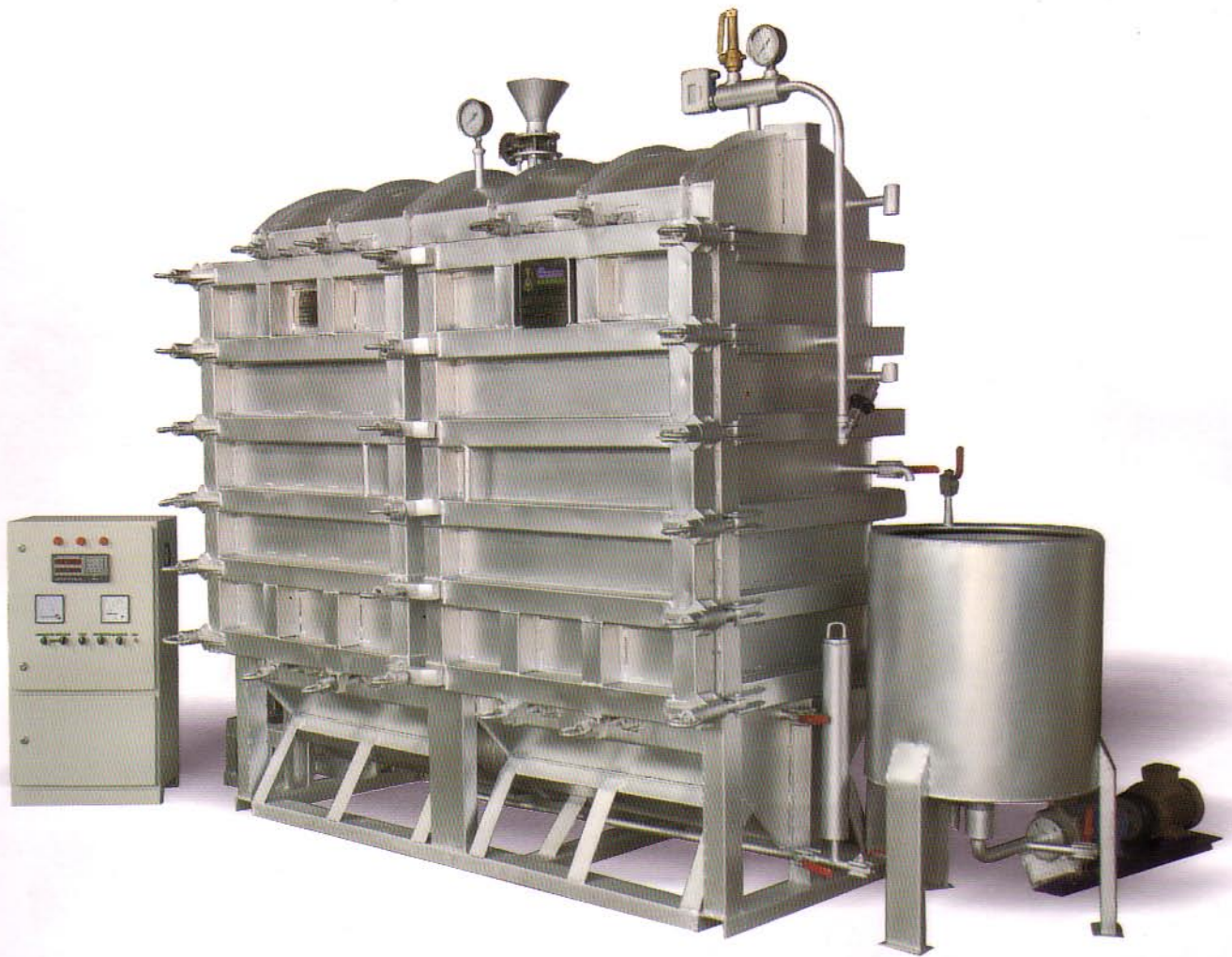
C-239, Phase VIII, Focal Point, Chandigarh Road, Ludhiana (Pb.) INDIA

Tel.: + 91-161- 2673355, 2673322, Fax : +91-161-2678622

E-mail : gagan@dyeingmachines.com, Website : www.dyeingmachines.com



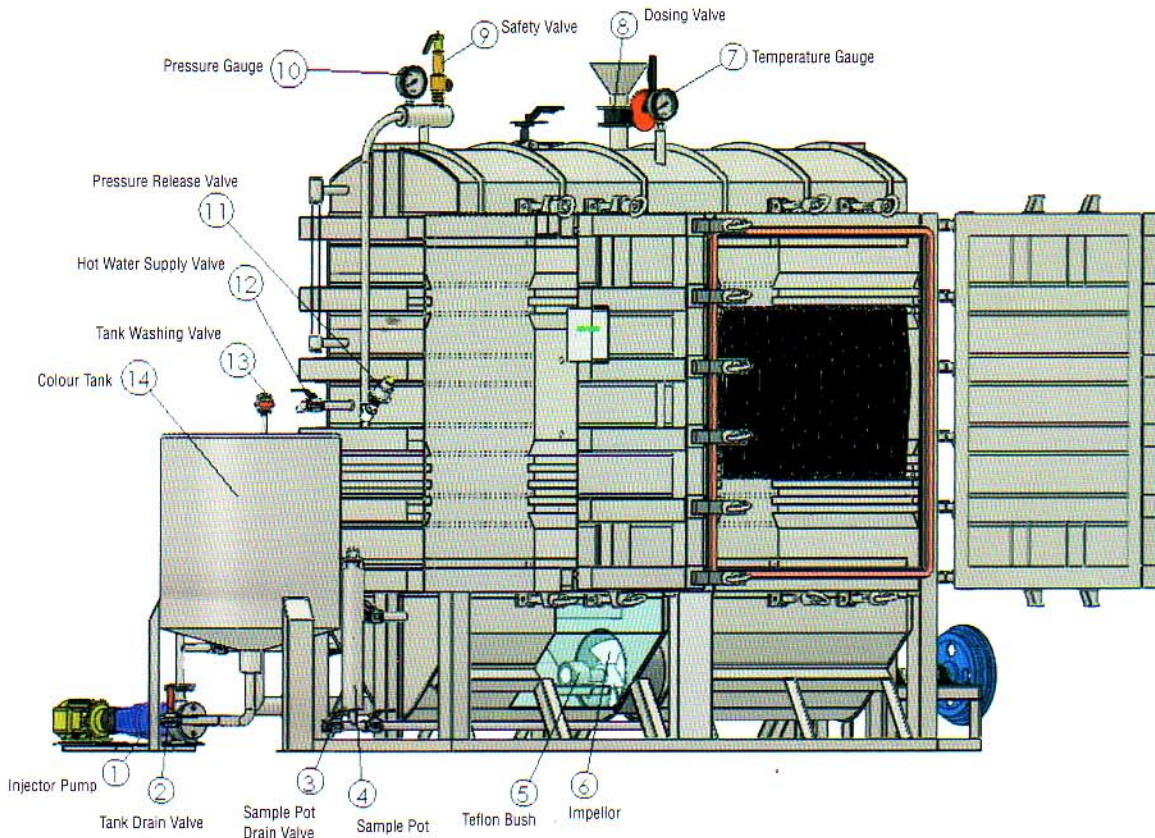
HTHP Hank Dyeing Machine (Cabinet Type)



GAGAN[®]
MECHANICAL WORKS

Introducing First Time In The World H.T.H.P Hank Dyeing Machine.

The GMW Hank Dyeing Cabinets are innovative in design, flexibility, reability and energy efficient backed by more than 30 years of engineering & manufacturing. More than 2000 cabinets are running successfully through out India and world wide.



Advantages of GMW-HDD

PRESSURE DYEING CABINET FOR HANKS.

The GMW-HDD model is specially designed for dyeing of polyester yarn/pc at a working temperature of upto 125 °C and working pressure of upto 2.5kg/km².

LOW LIQUOR RATIO STEAM & POWER CONSUMPTION :-

- (a) Automatic airpad pressurization operates at 0.4 bar static pressure, which is obtained by a compressed air in the area above the liquor and this act as an expansion chamber for the increase of liquor volume during temperature rise or addition of dyes and chemicals and occupies approximately 20%-25% of internal volume.
- (b) Due to the fitment of steam coil at the bottom of the chamber eliminates the flooded liquor to the top of the chamber as compared with the traditional cabinets. Hence, the only flooded volumes are the Hank Racks, Impellor and center partition.

- (c) The airpad operation acts as an insulation, hence there is low heat dispersion, Thus saves energy and steam.
- (d) Total elimination of external piping and heat exchanger by use of center partition for full width liquor circulation as compared to traditional cabinets.
- (e) Liquor ratio varies from as low as 05-6:1 for Malai Dori (polyester blend) 9-10:1 for mercerized cotton and 12:14-1 for Acrylics.

LOW INVESTMENT AND RUNNING COSTS :-

The GMW-HDD requires very low initial investment as compared to H.T.H.P package dyeing which requires high working height ceiling, electric overhead cranes etc and does not require hank to cone and then cones to hank binding ,thus saving high labour and machinery costs.

MULTIPLE DYEING OPTIONS :-

The GMW-HDD gives you option of dyeing all types of yarns in hank form including Wool, HB Acrylics, Cotton, Polyester, Polyester blends & Malai Dori etc.

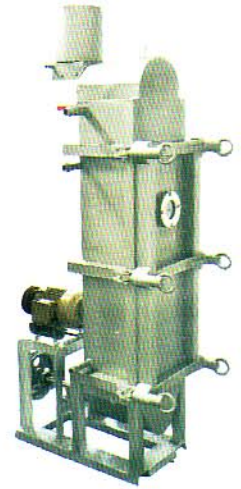
Options Extra

- (a) The high pressure injector pump injects the dyes when the cabinet is pressurized.
- (b) A/c drive (Inverter) for liquor circulation pump for less power consumption and for stepless speed control.
- (c) Semi-Automation with temperature programmers controls
 - (1) Automatic heating & Cooling as per data feeded in programmer.
 - (2) Pneumatic fill, overflow, drain, heating & cooling valves.
- (d) Full Automation with pc-based controller.
 - (1) Continuous level transmitter
 - (2) Automatic drain
 - (3) Controlling heating & cooling phase
 - (4) Continuous washing.
 - (5) Operator calling signals at the cycle end and unities failure alarm.
 - (6) Controls all electro-pneumatic Valves.

- (7) Controls level & temperature Probes.
- (8) Controls chemical preparation tank & dosing pump.
- (9) Operator safety inter locks.
- (10) Operator warnings.
- (e) Adjustable Hank Racks/removable for half or variable loading with constant liquor ratio.
- (f) High temperature drain.
- (g) Double fill and drain.



REMOVABLE CARRIES



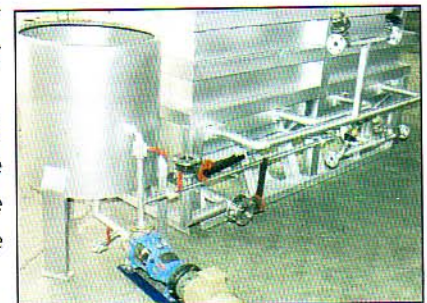
SAMPLE MACHINE

Silent Features

- ◆ High efficient Circulation Fan with Electric Motor.
- ◆ Reverse & Forward system with electronic timer.
- ◆ Programmed Panel Board with Microprocessor for controlling heating and cooling phase.
- ◆ Chemical dosing tank provided with direct steam and washing device.
- ◆ Manual valves for fill, Drain, overflow. Heating, Cooling and dosing.
- ◆ Injector pump or color dosing pump with pneumatic valves.
- ◆ High efficiency steam trap for excellent performance along with strainer.
- ◆ High quality pressure gauge, pressure relief valve/safety valve for extreme safety.
- ◆ Rupture disc ensures the safety all the time.
- ◆ Specially designed steam coil for quick heating.
- ◆ Pneumatically operated Steam release valve with Pressure

Switch.

- ◆ Patent S.S CF8 investment casting door handles & hinges for extreme durability and safety.
- ◆ Provisions for the lid opening at the top with valve in order to use the machine at the normal temperature/pressure and provision for dosing from the top.
- ◆ S.S. 304 Heating & cooling pipelines outside the machine with flange end for trouble free and easy installation.
- ◆ Highly ridged S.S. 304 frame structure for higher machine life and extreme safety.



BACKSIDE VIEW

