

Sheet Formers "Rapid Koethen" System



Power Supply

400 Volts AC, 50/60 Hz., with neutral
(Other voltages on request)

Dimensions

Sheet Former with 1 vacuum dryer:
approx. 172 (w) x 74 (d) x 86 (h) cm

Sheet Former with 2 vacuum dryers:
approx. 172 (w) x 74 (d) x 86 (h) cm

Sheet Former with 3 vacuum dryers:
approx. 214 (w) x 74 (d) x 86 (h) cm

Sheet Former with 4 vacuum dryers:
approx. 256 (w) x 74 (d) x 86 (h) cm

Application

HAAGE Sheet Formers, which operates according to the Rapid-Koethen System, manufacture test sheets from cellulose, Wood-Pulp and other raw materials, as defined in DIN 54 358 and ISO 52669/2. Sheet Formers are used in the Paper Industry for Quality Control and Research applications and also for Production Control directly at the manufacturing equipment. The "Rapid-Koethen" sheet forming system provides a fast and reproducible method of manufacturing sheets to test the physical and optical characteristics of the formed sheet and to determine the relevant properties of the fibres in the pulp mixture. After filling the sheet former column with the fibre cellulose mixture, the test sheet is formed either manually or automatically, depending upon the type of control system ordered with the sheet former. The test sheet which has been manufactured in the column is removed using the "Gautsch" roller at a constant force of application and immediately placed on a support board, where it is rolled smooth, again using the "Gautsch" roller. Having firmly attached the formed sheet to its support board, a cover sheet is placed into the Vacuum Dryer, where it is pressed and dried for a predetermined time.

Advantages of HAAGE Sheet Formers

Each vacuum dryer unit operates independently and is equipped with its own electrical heating, electronic controller and display unit. In the unlikely event of a heater failure, therefore the remaining dryer units remain fully operational. Special, oil-filled dryer unit for temperatures to +140° C optionally available. Stainless steel, plate condensers are fitted in the dryers in accordance with official standards. Powerful, instantaneous, water injection and mixture swirling process in the sheet former column through a special water injection ring. All operating controls are ergonomically positioned. Heavy duty water distribution system using industrial grade piping and lightproof tubing. No glass components are used, therefore no glass breakage possible (health and safety). Sheet forming column and dryer components are machined from solid stainless steel, therefore high corrosion resistance and no problems through paint flaking. easy to clean water injection ring. Short term, fast delivery of accessories and spare parts directly from factory stock.

and dried for a predetermined time.

Immediately after the drying process, or following subsequent conditioning of the test sheet, it is now ready for testing, after first removing the cover sheet and support board.

Since the preparation and manufacture of the test sheets using a Sheet Former is fully described in the applicable standards, a detailed explanation is not necessary here.

Service and Spare Parts

We are always at Your disposal - not only before Your purchase!

HAAGE as manufacturer offers direct support and advice at any time. Our qualified service technicians or our agents offer quick support in case of problems or for maintenance.

Because of The continuous development and improvement of HAAGE Sheet Formers and their spare parts also a continuous training of our service-technicians is provided concerning new technologies and features.

Therefore: Ordering a HAAGE-technician for maintenance and repair work grants a service based on the newest level of technical knowledge.

北京丹贝尔科贸有限公司

北京亚运村北辰东路 18 号中航技大厦 401 室 (100101)

电话: 010 84970401 / 84973309

传真: 010 84970403

E-mail: danbell@public.bta.net

Factory-trained service technicians for fast and competent customer service.

Equipment Design

The compact design of the HAAGE Sheet Former and its minimal size make it ideal in situations where only limited space is available in the laboratory or production area. The construction of the Sheet Formers is stylised through the use of Aluminium profiles and easily removable, light-weight doors and panels. These also permit easy access to the internal system components whenever required.

Height-adjustable support feet are provided and enable the equipment console to be positioned and accurately levelled on the floor, should this be necessary.

The upper work surface of the equipment is covered with a hard-wearing acrylic material and accommodates from 1 to maximum 4 Vacuum Dryers, depending upon the number of dryers ordered, and also the graduated, sheet forming column, which pivots backward to enable removal of the formed sheet and is made of acrylic.

A powerful Pump, which is made of bronze, is also provided in the Sheet Former to generate the required vacuum and also for air and water. In addition, a Return Water Filter is provided. This filter has manometers fitted to the inlet and outlet manifolds to monitor filter contamination and prevent blockages. A large pressure differential between the manometers indicates filter contamination. In that case the filter core can simply be removed and cleaned or replaced. The acrylic cylinder which forms the sheet forming column can easily be removed for cleaning.