

CONDIBOX GFY

GLASS FIBRE CONDITIONERS AND DRYERS



German Quality Since 1856.



CONDIBOX G WITH AUTODOFFER

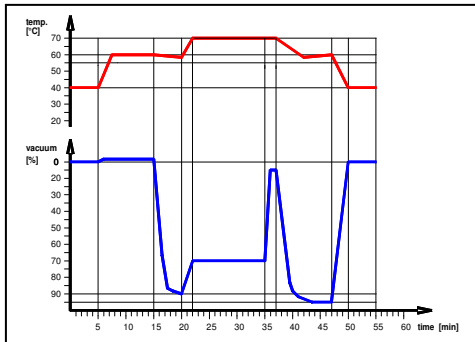
FIXATION OF TWIST

REDUCTION OF ABRASION

INCREASE OF TENSILE FORCE

LESS MIGRATION OF SIZING

LESS BOBBIN COLLAPSES



CONDITIONING OF GFY

The CONDIBOX GFY conditioning systems have been developed especially for the glass fibre yarn and fabrics manufacturing process, and are utilised in both :

- A) after the winding process in yarn manufacturing plants, and
- B) in glass fibre weaving plants, before the yarn is fed into the weaving or warping machine.

QUALITY AND SAFETY

Typically, the conditioning operation of glass fibre yarns is made with low temperatures in order to avoid yellowing and eventual damages to the spools. Working with too high temperatures, the spools tend to lose their measures. Therefore, the accurate control of the temperature is of paramount importance for the effectiveness of the moisturising operation. The proven MULTIPHASE SYSTEM allows smooth temperature and vacuum controlling throughout the entire conditioning cycle.

PROCESS DESCRIPTION

The process is done by means of saturated steam, which is guided into an evacuated steam chamber containing the glass fibre material. Exposed to SUPERVACUUM, the steam in form of gas penetrates through the various layers into the core of the bobbin, where it condenses and moisturises the sizing material.

The moisture humidifies the sizing additives applied to the yarns in the spinning process. After finalised moisturising, the drying process with AIRFLOW combined with SUPERVACUUM finalises the cycle, drying our the yarns back to starting moisture.

The yarns are fixed and the bobbin gains substantial improvement in consistency. The weaving efficiency is improved. The twist is fixed and abrasion effects are reduced. Eventual transport damages motivated by slipping off yarn layers are reduced

Premium
Conditioners
and Heat-
Setting
Machines.
Made in
Germany.

WELKER VAKUUM GMBH
Neugasse 3
67435 Neustadt/ Weinstrasse
Germany
Phone + 49 (0) 6321 48 32 98
Fax + 49 (0) 6321 48 72 73
Email: info@welker-spintech.com
www.welker.de
Subject to changes



CONDIBOX GFY

GLASS FIBRE CONDITIONERS AND DRYERS



German Quality Since 1856.

MULTIPHASE SYSTEM

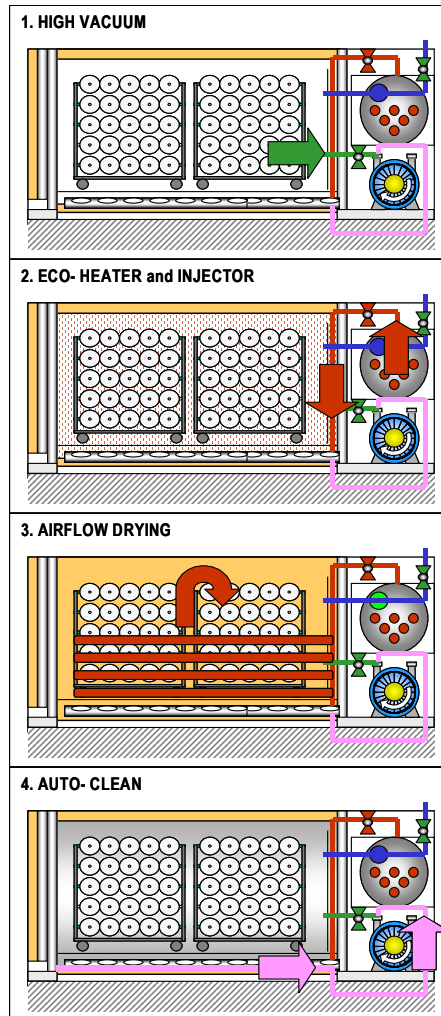
As first step **SUPERVACUUM** is started sucking the air out up to 95%. The **ECOTHERM** heater then starts to supply heated water to the system. At the end of the moisturising process, the **AIRFLOW DRYING** applies warm air to the bobbins. If needed, subsequent cycles of vacuum and warm air help to take condensed water out of the bobbins, so that the recommended moisture limits are achieved. This system is an exclusive device of WELKER. As final step, the **AUTO-CLEAN** device takes all the condensed water, residual fibres and dust out of the autoclave. The machine is ready for the next process with a completely clean autoclave.

INTELLIGENT CONTROL

WELKER systems are equipped with overheating protection systems. Fully automatic DOSITRON 18 programmable SPC control is equipped with digital data logger and visualisation of both process and production status and touch screen control panel. The IPS – Intelligent Programming System helps the operator to control the machine and continuously informs the actual status. The data can be transferred to a PC via a flash card.

95% SUPERVACUUM

SUPERVACUUM is achieved by special pumps developed for WELKER machines.



LAY- OUTS - AUTOMATION

Automatic solutions with conveyors for double door TUNNEL type with complete PACKTRACK line with conveyor, weighing scale and stretch- wrapping machines for fully automatic inline packaging.



Premium
Conditioners
and Heat-
Setting
Machines.
Made in
Germany.

WELKER VAKUUM GMBH
Neugasse 3
67435 Neustadt/ Weinstrasse
Germany
Phone + 49 (0) 6321 48 32 98
Fax + 49 (0) 6321 48 72 73
Email: info@welker-spintech.com
www.welker.de
Subject to changes

