

MIXING & DRYING TECHNOLOGY



VACUUM DRYING FILTRATION FOR INDUSTRY

b BACHILLER

KNOW HOW, EXPERIENCE AND CAPABILITIES MAKE THE DIFFERENCE

**FNB - S**

NUCHA PRESSURISED FILTER AND NUCHA VACUUM FILTER-DRYER

The **FNB** and **FNB-S** are filtration and filtration-vacuum drying equipment for various types of materials for the pharmaceutical, chemical, fine chemical and food industries. The **FNB-S** enables us to perform extraction, filtration, pressing, washing, dissolution, bleaching, deodorising and vacuum drying, all in the same unit, without product transfer. Our closing system by means SuperClamp, reduces opening /closing times and improves the equipment cleaning requirements.

Versions from 0,07 m² up to 20 m².
Designs pressures up to 10 bar.

**MBC - S**

BICONICAL VACUUM DRYER **BICUUM**

Rotating vacuum dryer **MBC-S**, especially designed for fragile products in which particle breakage must be avoided. Easy to clean due to the fact that there are no parts inside the dryer, making it highly recommended for sanitary applications. The equipment is supplied complete with a bedframe that can include a vacuum unit, vacuum filter, drives and other services.

Designs adapted to your requirement: ATEX, CIP, solvent recovery and vacuum skids, heating and cooling skids, etc.

Versions from 30 to 30.000L.

**MCV - S**

VERTICAL VACUUM DRYER **CONICAL**

The **MCV-S** is a dryer that permits operation with all types of products, crystalline and amorphous. Its double shaft movement agitator allows a high drying performance because it increases the heat transfer between the product and the equipment. We can provide solutions without lower support (total unloading) and with free fat/oil transmission, without any type of product loss in case of breaking.

Designs adapted to your requirement: ATEX, CIP, solvent recovery and vacuum skids, heating and cooling skids, etc.

Versions from 50 to 10.000 L.

SANITARY VACUUM DRYER WITH BLADES **SANIDRY**

The **SHV** was specially designed for sanitary applications according to GMP standards and the main characteristic is a single support point on the shaft (cantilever) and a front door providing full access to the equipment. With heated shell, shaft, blades, rear bottom and front door, increasing the dynamic heated surface area and minimizing non heated parts condensation points. Designs adapted to your requirement: ATEX, CIP, solvent recovery and vacuum skids, heating and cooling skids, etc.

Versions from 50 to 10.000 L.

**SHV**

DRY AT LOW
TEMPERATURE



GENTLE WITH
THE PRODUCT



SAFE AND
FAST DRYING



POSSIBILITY TO
RECOVER THE
SOLVENT

BACHILLER is the largest company in the world for vacuum drying solutions; with more than 50 years of experience and 220 professionals at your service and located 30 km from Barcelona. From laboratory size equipment to industrial processes sizes, our vacuum drying and filtration equipment are specifically designed to meet the demands of the pharmaceutical, chemical, fine chemical, food, cosmetic and similar sectors. With our own engineering department and Test Center, we collaborate with our clients developing customised solutions and new

processes, together with our R&D department we are constantly developing new solutions to improve your processes. We design and manufacture all of our equipment in our factories, monitoring the manufacturing during all process, from the calculation and design, the polish and commissioning.

Manufacturing materials: from AISI-304 to Titanium, Austenitic, Superaustenitic, Duplex, Nickel Alloys, etc.

VERTICAL RIBBON VACUUM DRYER **SUPRADRY**

The **SDV** is an equipment specially designed for the drying of all types of thermo-sensitive wet, crystalline, amorphous or paste products, with a total vacuum. The unit consists of a heated vertical mixing spiral, rotating at moderate speed to achieve an upward flow of perimeter product and a renewal of the product in contact with the heated walls.

Designs adapted to your requirement: ATEX, CIP, solvent recovery and vacuum skids, heating and cooling skids, etc.

Versions from 50 to 30.000 L.

**SDV****MHT - S**

HORIZONTAL VACUUM DRYER WITH BLADES **PADDLEDRY**

The **MHT-S** is a high efficiency unit, specially designed for vacuum drying applications with high mechanical demands or high temperatures for products with pseudo-plastic behaviour during the drying phase. The principle of operation is through a fully heated body, end plates, shaft and blades rotating at low speed for a continuous renewal of the product in direct exchange with the wall.

Designs adapted to your requirement: ATEX, CIP, solvent recovery and vacuum skids, heating and cooling skids, etc.

Versions from 50 to 30.000 L.



TURNKEY PROJECTS **PERIPHERALS**

All our equipment can be supplied as single equipment or with peripherals required for full operation as a turnkey project: solvent recovery and vacuum skids, heating and cooling skids, control systems, structural elements, engineering support with protocols (IQ, OQ, DQ), FAT, SAT, commissioning, start up, personnel training and preventive maintenance programmes, etc.

**MHT - RS**

HORIZONTAL REACTOR WITH BLADES **TURBODRY**

The **MHT-RS** is a reactor specially designed to perform solid or solid-liquid reactions at high temperatures and / or high pressures. The unit can also be used for vacuum drying operations.

The equipment has a high mechanical agitator, capable of rotating at high speeds also with very cohesive products, maximising thermal exchange.

Versions from 50 to 30.000 L.



Can Guasch, 3
Pol. Ind. Levante
Post Office Box, 19
08159 Parets del Vallès
Barcelona (España)

Tel. [+34] 93 573 07 70
Fax. [+34] 93 562 30 10
bachiller@bachiller.com
www.bachiller.com

