



COMBER

Drying and Filtration Technology



MORE INFO

PHARMADRY® Vacuum Paddle Dryer

Highlights

- › With **PHARMADRY®** - like all COMBER dryers – all product wetted surfaces are heated. Also, the agitator is fully heated – optional even the paddle themselves can be heated. The half pipe or jackets used for heating are insulated. An insulation with a tightly welded insulating jacket made of stainless steel is fitted over the heating jacket. A fully opening front door allows optimal access for cleaning or inspection purposes. The short, compact design and due to horizontal layout, the use of **PHARMADRY®** is dedicated for limited ceiling height. Improved product discharge characteristics as well as the CIP cleanability are according to COMBER philosophy. Furthermore, a separation of „clean“ and „non-clean“ areas can be optimally realized.
- › COMBER core competence is enabling our customers to fully comply to cGMP / FDA and other global regularities. COMBER documentation including all certification is outstanding and in-time with FAT.
- › Calculation, design and manufacture compliant to Pressure Equipment Directive (PED) 2014/68/EU and/or the ASME pressure vessel code, Section VIII, with U-Stamp.
- › Also compliant to ATEX directive 2014/34/EU with an EC Type Examination Certificate INERIS 03 ATEX 0247X or North American NEC/CEC Class/Division marking.



PHARMA



CHEMICAL



FOOD



COSMETICS



ENERGY



working for future *technology*



Bayonet front door



Clean / non-clean separation wall



Spacer for Shaft Seal Removal

› Heated agitator shaft, agitator arms and agitator paddles (option)

› Dead space-free design (Option) results in excellent cleanability



- › Openable and heated front door with conventional C-clamps or bayonet locking
- › The mechanical seal is accessible and removable from the exterior
- › Good discharge characteristics due to narrow agitator to wall/bottom clearances and a unique agitator blade design
- › Excellent cleanability using CIP systems - for simple validation



MORE INFO

COMBER Process Technology S.r.l. is a leading supplier of (Nutsche) filters, filter dryers, paddle dryers and pan dryers.

The company is part of the HEINKEL Drying and Separation Group with its brands COMBER, BOLZ-SUMMIX, HEINKEL and JONGIA. The Group brings together more than 150 years of experience, reliability and innovative strength in filtration, centrifuge, nutsche, mixer and dryer technology.



MIXING



DRYING



COMBER

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