



Freeze Dryers - Production plants

For production, food- and pharma-industries



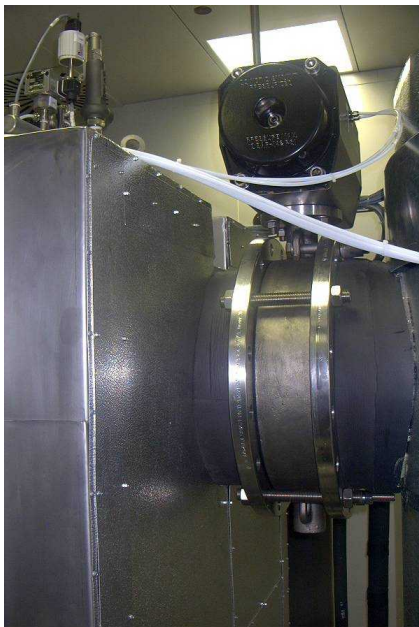
Our product range:

<ul style="list-style-type: none">• Drying chambers up to 5m³, round and rectangular
<ul style="list-style-type: none">• Two-chamber system with separation-valve
<ul style="list-style-type: none">• Sliding doors or hinge doors
<ul style="list-style-type: none">• Flexible shelf sizes and spaces, up to 90m²
<ul style="list-style-type: none">• Materials: stainless steel 316TI, 316L
<ul style="list-style-type: none">• Compressor and/or cooling by liquid nitrogen up to -150°
<ul style="list-style-type: none">• Ice condensers up to 800kg/24h, condensers for solvents
<ul style="list-style-type: none">• Steam sterilization, SIP
<ul style="list-style-type: none">• Cleaning in progress, CIP
<ul style="list-style-type: none">• Locks for taking out samplings during process
<ul style="list-style-type: none">• Process visualization
<ul style="list-style-type: none">• Stoppering system for vials
<ul style="list-style-type: none">• Product trays
<ul style="list-style-type: none">• ATEX conform execution
<ul style="list-style-type: none">• cGMP conform execution, pharma industries
<ul style="list-style-type: none">• Documentation, qualification



Sublimator 300-13

13m² shelve size, cGMP, CIP-SIP, stoppering system, 300kg/24h condenser



Seperation valve
Chamber<->condenser



condenser and vacuum pump
station

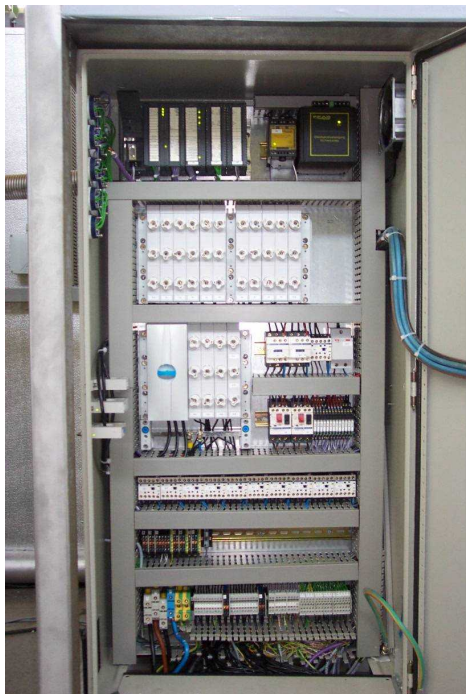


chamber back side



Sublimator 800-90

90m² shelf size, 8250ltr. chamber, 2x400kg/24h condensers



Switch box with S7-300



vacuum pump station , suction rate: 350m³/h



Sublimator 150-16

22m² shelve size, cGMP, CIP, 200kg/24h condenser





Production plant for ceramic materials

8x 3500ltr. chamber, 2500kg/24h condenser capacity (8 condensers)





Rotation Freeze Dryers up to 800kg/24h Food- and Pharmaindustries

To freeze-dry pellets, cubes or any product in lumps.





Sublimator 150-16

16,5m² shelve size, cGMP, 150kg/24h condenser





Sublimator 60-5

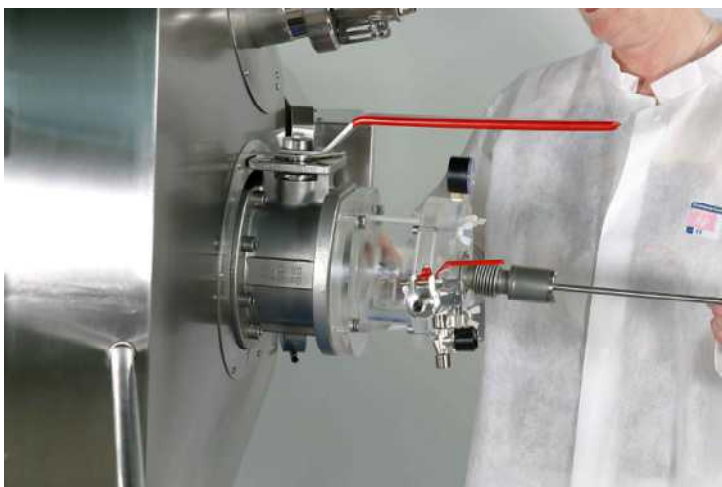
5,8m² shelve area, cGMP, CIP, 60kg/24h condenser





Sublimator 150-6

6,5m² shelve size, cGMP, CIP-SIP, stoppering system, 150kg/24h condenser



Lock for taking out samplings during process



2-stage Bitzer cooling machine