

# Engineering Office M. Wohlwend GmbH

Your partner for high pressure freezing machines and accessories with more the 40 years' experience.



## High Pressure Freezing Machine HPF Compact 03

Our HPF Compact 03 sets a new standard in high pressure freezing technology with its outstanding performance, reliability and versatility, and this for a reasonable price.

We offer specimen carriers in 3- and 6-mm diameter for all high-pressure freezing machines on the market: HPF Compact 01, 02, 03 / HPM 010 / Leica EM HPM 100 / Leica EM ICE / CryoCapCell / Leica EM PACT1 and 2

| Article | Specimen carriers for HPF Compact 01, 02, 03 / HPM 100 / HPM 010 / Leica ICE / CryoCapCell | Diameter | Cavity           | Thickness |
|---------|--|----------|------------------|-----------|
| 241     | Aluminium  | 3 mm     | 0.1 / 0.2 mm     | 0.50 mm   |
| 242     | Aluminium cover  | 3 mm     | 0.3 mm           | 0.50 mm   |
| 353     | Aluminium  | 3 mm     | 0.15 / 0.15 mm   | 0.50 mm   |
| 389     | Aluminium  | 3 mm     | 0.025 / 0.275 mm | 0.50 mm   |
| 390     | Aluminium  | 3 mm     | 0.05 / 0.25 mm   | 0.50 mm   |
| 737     | Aluminium  | 3 mm     | 0.04 / 0.6 mm    | 0.84 mm   |
| 748     | Aluminium  | 3 mm     | 0.04 / 0.2 mm    | 0.44 mm   |
| 749     | Alu / Groove on the outer diameter for separating the plates                               | 3 mm     | 0.3 mm           | 0.50 mm   |
| 750     | Alu / Groove on the outer diameter for separating the plates                               | 3 mm     | 0.1 mm           | 0.50 mm   |
| 751     | Alu / Groove on the outer diameter for separating the plates                               | 3 mm     | 0.2 mm           | 0.50 mm   |
| 610     | Aluminium  | 6 mm     | 0.1 / 0.2 mm     | 0.50 mm   |
| 611     | Aluminium  | 6 mm     | 0.3 mm           | 0.50 mm   |
| 612     | Aluminium  | 6 mm     | 0.15 / 0.15 mm   | 0.50 mm   |
| 797     | Aluminium  | 6 mm     | 0.05 / 0.15 mm   | 0.40 mm   |
| 1792    | Aluminium  | 6 mm     | 0.05 / 0.09 mm   | 0.34 mm   |
| 1860    | Copper gold coated   | 3 mm     | 0.025 / 0.275 mm | 0.50 mm   |
| 1861    | Copper gold coated   | 3 mm     | 0.05 / 0.25 mm   | 0.50 mm   |
| 662     | Copper gold coated   | 3 mm     | 0.1 / 0.2 mm     | 0.50 mm   |
| 663     | Copper gold coated cover   | 3 mm     | 0.3 mm           | 0.50 mm   |
| 665     | Copper gold coated   | 3 mm     | 0.15 / 0.15 mm   | 0.50 mm   |
| 1860    | Copper gold coated   | 3 mm     | 0.025 / 0.275 mm | 0.50 mm   |
| 1861    | Copper gold coated   | 3 mm     | 0.05 / 0.25 mm   | 0.50 mm   |
| 1190    | Copper gold coated   | 6 mm     | 0.1 / 0.2 mm     | 0.50 mm   |
| 1191    | Copper gold coated cover   | 6 mm     | 0.3 mm           | 0.50 mm   |
| 1192    | Copper gold coated   | 6 mm     | 0.15 / 0.15 mm   | 0.50 mm   |
| 1644    | Aluminium labelled cover   | 3 mm     | 0.3 mm           | 0.50 mm   |
| 1888    | Aluminium labelled cover   | 6 mm     | 0.3 mm           | 0.50 mm   |
| 405     | Sapphire disc  | 3 mm     |                  | 0.05 mm   |
| 454     | Sapphire disc EM PACT  | 1.4 mm   |                  | 0.05 mm   |
| 500     | Sapphire disc  | 3 mm     |                  | 0.16 mm   |
| 616     | Sapphire disc  | 6 mm     |                  | 0.10 mm   |
| 627     | Sapphire disc labelled   | 3 mm     |                  | 0.16 mm   |
| 1292    | Sapphire disc ICE  | 6 mm     |                  | 0.12 mm   |
| 1303    | Sapphire disc  | 6 mm     |                  | 0.16 mm   |
| 1304    | Sapphire disc labelled   | 6 mm     |                  | 0.16 mm   |
| Article | Specimen carriers for HPM 100, Leica ICE   | Diameter | Cavity           | Thickness |
| 1313    | Aluminium  | 3 mm     | 0.1 / 0.2 mm     | 0.52 mm   |
| 1314    | Aluminium cover  | 3 mm     | 0.3 mm           | 0.52 mm   |
| 1315    | Aluminium  | 3 mm     | 0.15 / 0.15 mm   | 0.52 mm   |
| 1316    | Aluminium  | 3 mm     | 0.025 / 0.275 mm | 0.52 mm   |
| 1317    | Aluminium  | 3 mm     | 0.05 / 0.25 mm   | 0.52 mm   |
| 1319    | Aluminium  | 6 mm     | 0.1 / 0.2 mm     | 0.52 mm   |
| 1320    | Aluminium cover  | 6 mm     | 0.3 mm           | 0.52 mm   |
| 1321    | Aluminium  | 6 mm     | 0.15 / 0.15 mm   | 0.52 mm   |
| 1322    | Copper gold coated   | 3 mm     | 0.1 / 0.2 mm     | 0.52 mm   |
| 1323    | Copper gold coated cover   | 3 mm     | 0.3 mm           | 0.52 mm   |
| 1324    | Copper gold coated   | 3 mm     | 0.15 / 0.15 mm   | 0.52 mm   |
| 1325    | Copper gold coated   | 6 mm     | 0.1 / 0.2 mm     | 0.52 mm   |
| 1326    | Copper gold coated cover   | 6 mm     | 0.3 mm           | 0.52 mm   |
| 1327    | Copper gold coated   | 6 mm     | 0.15 / 0.15 mm   | 0.52 mm   |

| Article | Specimen carriers for EM PACT1 and 2               | Diameter | Cavity             | Thickness |
|---------|--|----------|--------------------|-----------|
| 1091    | Copper gold coated slot carrier                    | 2.8 mm   | 0.1 / 0.3 / 1.2 mm | 0.60 mm   |
| 1092    | Copper gold coated slot carrier                    | 2.8 mm   | 0.2 / 0.3 / 1.2 mm | 0.60 mm   |
| 1093    | Copper gold coated Membrane carrier (Leica 707898) | 2.8 mm   | 0.1 mm             | 0.16 mm   |
| 1094    | Copper gold coated Membrane carrier (Leica 707899) | 2.8 mm   | 0.2 mm             | 0.26 mm   |
| 1105    | Copper gold coated bore carrier                    | 2.8 mm   | 0.3 mm             | 0.60 mm   |

#### Spacers in stainless steel in diameter 3 and 6 mm

| Article |                             | Diameter | Cavity  | Thickness |
|---------|-----------------------------|----------|---------|-----------|
| 1273    | Stainless steel             | 3 mm     | 0.02 mm | 0.02 mm   |
| 1786    | Stainless steel gold coated | 3 mm     | 0.02 mm | 0.02 mm   |
| 1236    | Stainless steel             | 3 mm     | 0.05 mm | 0.05 mm   |
| 1237    | Stainless steel             | 3 mm     | 0.10 mm | 0.10 mm   |
| 1238    | Stainless steel             | 3 mm     | 0.15 mm | 0.15 mm   |
| 1239    | Stainless steel             | 3 mm     | 0.20 mm | 0.20 mm   |
| 1240    | Stainless steel             | 3 mm     | 0.25 mm | 0.25 mm   |
| 1241    | Stainless steel             | 3 mm     | 0.30 mm | 0.30 mm   |
| 1242    | Stainless steel             | 3 mm     | 0.35 mm | 0.35 mm   |
| 1243    | Stainless steel             | 3 mm     | 0.40 mm | 0.40 mm   |
| 1244    | Stainless steel             | 3 mm     | 0.45 mm | 0.45 mm   |
| 1245    | Stainless steel             | 3 mm     | 0.50 mm | 0.50 mm   |
| 1248    | Stainless steel             | 3 mm     | 0.65 mm | 0.65 mm   |
| 1256    | Stainless steel             | 6 mm     | 0.05 mm | 0.05 mm   |
| 1257    | Stainless steel             | 6 mm     | 0.10 mm | 0.10 mm   |
| 1258    | Stainless steel             | 6 mm     | 0.15 mm | 0.15 mm   |
| 1259    | Stainless steel             | 6 mm     | 0.20 mm | 0.20 mm   |
| 1260    | Stainless steel             | 6 mm     | 0.25 mm | 0.25 mm   |
| 1261    | Stainless steel             | 6 mm     | 0.30 mm | 0.30 mm   |
| 1262    | Stainless steel             | 6 mm     | 0.35 mm | 0.35 mm   |
| 1263    | Stainless steel             | 6 mm     | 0.40 mm | 0.40 mm   |
| 1264    | Stainless steel             | 6 mm     | 0.45 mm | 0.45 mm   |
| 1265    | Stainless steel             | 6 mm     | 0.50 mm | 0.50 mm   |

#### Spacers in copper gold coated in diameter 3 and 6 mm

| Article |                          | Diameter | Cavity  | Thickness |
|---------|--------------------------|----------|---------|-----------|
| 1711    | Copper gold coated       | 3 mm     | 0.05 mm | 0.05 mm   |
| 1712    | Copper gold coated       | 3 mm     | 0.10 mm | 0.10 mm   |
| 1713    | Copper gold coated       | 3 mm     | 0.15 mm | 0.15 mm   |
| 1714    | Copper gold coated       | 3 mm     | 0.20 mm | 0.20 mm   |
| 1158    | Copper gold coated plate | 3 mm     |         | 0.20 mm   |
| 1715    | Copper gold coated       | 3 mm     | 0.25 mm | 0.25 mm   |
| 1716    | Copper gold coated       | 3 mm     | 0.30 mm | 0.30 mm   |
| 1717    | Copper gold coated       | 3 mm     | 0.35 mm | 0.35 mm   |
| 1718    | Copper gold coated       | 3 mm     | 0.40 mm | 0.40 mm   |
| 1719    | Copper gold coated       | 3 mm     | 0.45 mm | 0.45 mm   |
| 1720    | Copper gold coated       | 3 mm     | 0.50 mm | 0.50 mm   |
| 1648    | Copper gold coated       | 6 mm     | 0.05 mm | 0.05 mm   |
| 1649    | Copper gold coated       | 6 mm     | 0.10 mm | 0.10 mm   |
| 1650    | Copper gold coated       | 6 mm     | 0.15 mm | 0.15 mm   |
| 1651    | Copper gold coated       | 6 mm     | 0.20 mm | 0.20 mm   |
| 1652    | Copper gold coated       | 6 mm     | 0.25 mm | 0.25 mm   |
| 1653    | Copper gold coated       | 6 mm     | 0.30 mm | 0.30 mm   |
| 1654    | Copper gold coated       | 6 mm     | 0.35 mm | 0.35 mm   |
| 1655    | Copper gold coated       | 6 mm     | 0.40 mm | 0.40 mm   |
| 1656    | Copper gold coated       | 6 mm     | 0.45 mm | 0.45 mm   |
| 1657    | Copper gold coated       | 6 mm     | 0.50 mm | 0.50 mm   |

#### Copper Tubes

| Article |  | Filling device  | Article |
|---------|--|-----------------|---------|
| 730-1   | Outer diameter 0.6 mm, inner diameter 0.3 mm, length 9 mm  |                 | 733-1   |
| 730-2   | Outer diameter 0.5 mm, inner diameter 0.35 mm, length 9 mm | Clamping device | 733-2   |
| 730-3   | Outer diameter 0.45 mm, inner diameter 0.3 mm, length 9 mm | Cutting device  | 1631    |

#### Different holders for different high-pressure freezers

| Article | Diameter       | Depth        | Freezer                 |
|---------|----------------|--------------|-------------------------|
| 290     | 3 mm           | 0.95 mm      | HPF Compact 0.1, 02, 03 |
| 619     | 6 mm           | 0.95 mm      | HPF Compact 0.1, 02, 03 |
| 402     | Omega platelet | 0.1 / 0.2 mm | HPF Compact 0.1, 02, 03 |
| 421     | Omega platelet | 0.1 / 0.2 mm | HPM 010                 |
| 422     | 3 mm           | 0.95 mm      | HPM 010                 |

Further aluminium, copper gold coated specimen carriers, stainless steel and copper gold coated spacers, holders, copper tubes, omega platelets, capillary tubes, etc. are available ex stock.

We also deliver special customized platelets and spacers on request!

**Engineering Office M. Wohlwend GmbH**  
**Bifig 14**  
**9466 Sennwald**  
**Switzerland**

**Telephone: 0041 81 7571924**  
**Telefax: 0041 81 7572243**  
**Email: info@wohlwend-hpf.ch**