

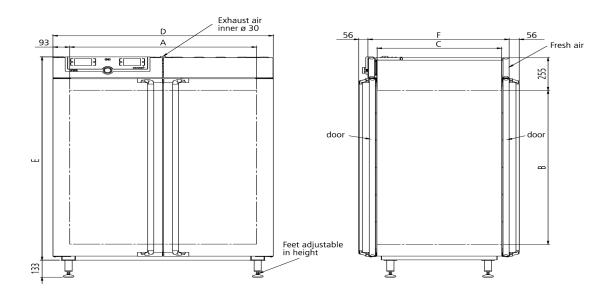
### Pass-through oven

# **UF450TS**

The Memmert pass-through oven saves time when loading and reduces the danger of contamination, especially when directly transporting the chamber load between the grey room and the clean room.



The Memmert heating oven with fully insulated stainless steel door on both sides saves time during loading and reduces the risk of contamination, specially when handling sensitive load between grey and clean rooms. On this page, you can find all the essential technical data on our pass-through oven. Our customer relations team will be pleased to help if you want further information. If you should require a customised special solution, please contact our technical specialists at <a href="mailto:myAtmoSAFE@memmert.com">myAtmoSAFE@memmert.com</a>.



Temperature	
Setting temperature range in °C	min. 10°C above ambient up to +250°C
resolution of display for actual values	0.1°C
Temperature	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
Control technology	
ControlCOCKPIT	TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.
Language setting	German, English, Spanish, French, Polish, Czech, Hungarian
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
Function HeatBALANCE	adapting the distribution of the heating performance of the upper and lower heating circuit from -50 $\%$ to +50 $\%$
Function SetpointWAIT	the process time does not start until the set temperature is reached
Calibration	three freely selectable temperature values
Ventilation	
Ventilation Fan Fresh air admixture	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment
Fan	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually
Fan Fresh air admixture	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment
Fan Fresh air admixture  Vent  Communication	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually  vent connection with restrictor flap
Fan Fresh air admixture Vent	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually
Fan Fresh air admixture  Vent  Communication  Documentation	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes
Fan Fresh air admixture  Vent  Communication  Documentation  Programming	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes
Fan Fresh air admixture  Vent  Communication Documentation Programming  Safety	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port  independently working, digitally adjustable electronic micro-processor overtemperature monitor TWW,
Fan Fresh air admixture  Vent  Communication Documentation Programming  Safety Temperature control	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port  independently working, digitally adjustable electronic micro-processor overtemperature monitor TWW, protection class 3.1 (max-value for overtemperature, min-value for undertemperature)  mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating
Fan Fresh air admixture  Vent  Communication Documentation Programming  Safety Temperature control  Temperature control	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port  independently working, digitally adjustable electronic micro-processor overtemperature monitor TWW, protection class 3.1 (max-value for overtemperature, min-value for undertemperature)  mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature  additionally integrated over- and undertemperature protection "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is

### Standard equipment

Internals	2 stainless steel grid(s), electropolished
Door	fully insulated stainless steel doors on two sides
Installation	with feet

#### Stainless steel interior

Interior	easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
Volume	449 I
Dimensions W x H x D in mm	w <sub>(A)</sub> x h <sub>(B)</sub> x d <sub>(C)</sub> : 1040 x 720 x 600 mm
Max. number of internals	8
Max. loading of chamber	300 kg
Max. loading per internal	30 kg

### Textured stainless steel casing

pass-through version

Dimensions	w <sub>(D)</sub> x h <sub>(E)</sub> x d <sub>(F)</sub> : 1224 x 1233 x 782 mm	
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#### **Ambient conditions**

Altitude of installation	max. 2,000 m above sea level
Ambient temperature	+5 °C to +40 °C
Humidity rh	max. 80 %, non-condensing
Overvoltage category	II
Pollution degree	2

## Packing/shipping data

Customs tariff number 8419 8998	
Country of origin Federal Republic of Germany	
<b>WEEE-RegNo.</b> DE 66812464	
Dimensions approx incl. B x H x T: 1330 x 1450 x 1050 mm carton	
Net weight approx. 213 kg	
Gross weight carton approx. 279 kg	

### Standard units are safety-approved and bear the test marks

