memmert
Experts in Thermostatics
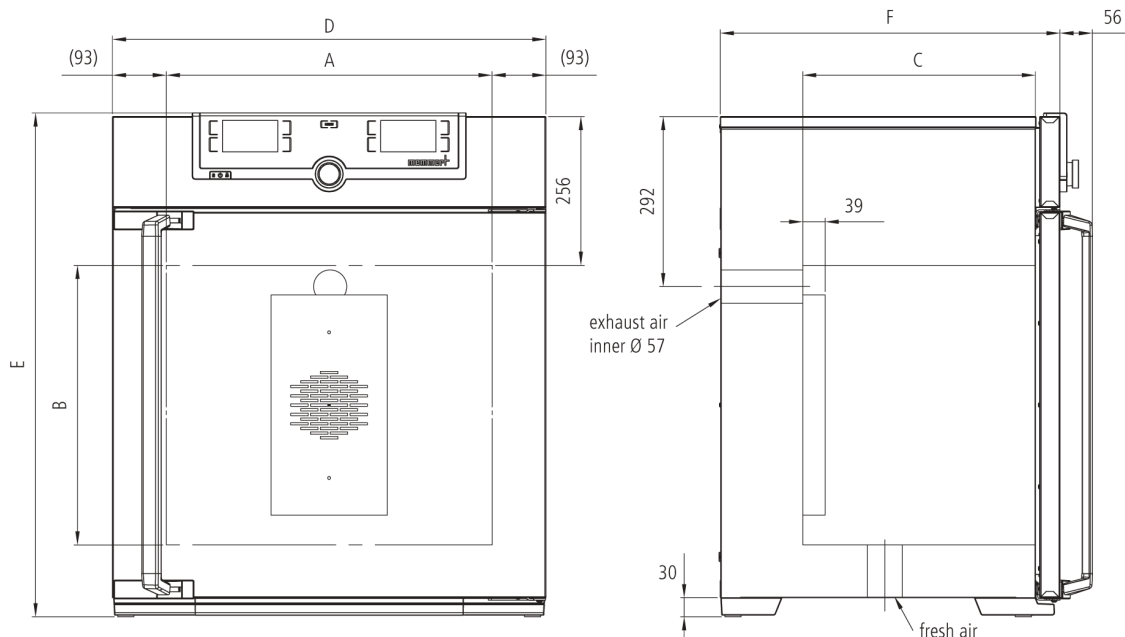
Universal Oven

UN160

Precise drying, heating, ageing, burn-in
and hardening in research, science,
industry and quality assurance.

The universally applicable lab oven U is Memmert's classic appliance for temperature control in science, research
and material tests in industry. The technologically perfected masterpiece made of high-quality, hygienic,
easy-to-clean stainless steel leaves nothing to be desired in terms of ventilation and control technology,
overtemperature protection and precisely tuned heating technology.
On this page, you can find all the essential technical data on the universal Memmert lab 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 myAtmoSAFE@memmert.com.

Control of standard components

ControlCOCKPIT	adaptive multifunctional digital PID-microprocessor controller with high-definition TFT-colour display
Temperature	1 Pt100 sensor DIN class A in 4-wire-circuit
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days

Temperature

Set temperature range in °C	min. 5°C above ambient up to +300°C
	resolution of display for setpoint values 0.1°C up to 99.9°C, 0.5°C from 100°C and for actual values 0.1°C (LED)

Control technology

adjustable parameters	temperature (Celsius or Fahrenheit), air flap position, programme time, time zones, summertime/wintertime
Function SetpointWAIT	the process time does not start until the set temperature is reached
Language setting	German/English/Spanish/French
Calibration	three freely selectable temperature values

Ventilation

natural convection

Fresh air admixture	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps
Vent	vent connection with restrictor flap

Communication

Programming	AtmoCONTROL software for reading out, managing and organising the data logger via Ethernet interface (temporary trial version can be downloaded). USB stick with AtmoCONTROL software available as accessory (on demand).
Documentation	programme stored in case of power failure

Safety

Temperature control	adjustable electronic overtemperature monitor and mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature
Autodiagnostic system	for fault analysis

Standard equipment

Door	fully insulated stainless steel door with2-point locking (compression door lock)
Internals	2 stainless steel grids
Scope of delivery	incl. works calibration certificate for +160°C
Housing	rear zinc-plated steel
Interior	easy-to-clean interior,made of stainless steel,reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides

Stainless steel interior

Dimensions W x H x D in mm	$w_{(A)}$ x $h_{(B)}$ x $d_{(C)}$: 560 x 720 x 400 mm
Volume	161 l
Max. loading of chamber:	210 kg

Textured stainless steel casing

	$w_{(D)}$ x $h_{(E)}$ x $d_{(F)}$: 745 x 1104 x 584 mm

Electrical data

Voltage	230 V, 50/60 Hz
Electrical load	approx. 3200 W
Voltage	115 V, 50/60 Hz
Electrical load	approx. 1800 W

Packing/shipping data

the appliances must be transported upright

Customs tariff number	8419 8998
Country of origin	Federal Republic of Germany
WEEE-Reg.-No.	DE 66812464
Dimensions approx incl. carton	B x H x T: 830 x 1300 x 800 mm
Net weight	approx. 96 kg
Gross weight carton	approx. 122 kg

Standard units are safety-approved and bear the test marks