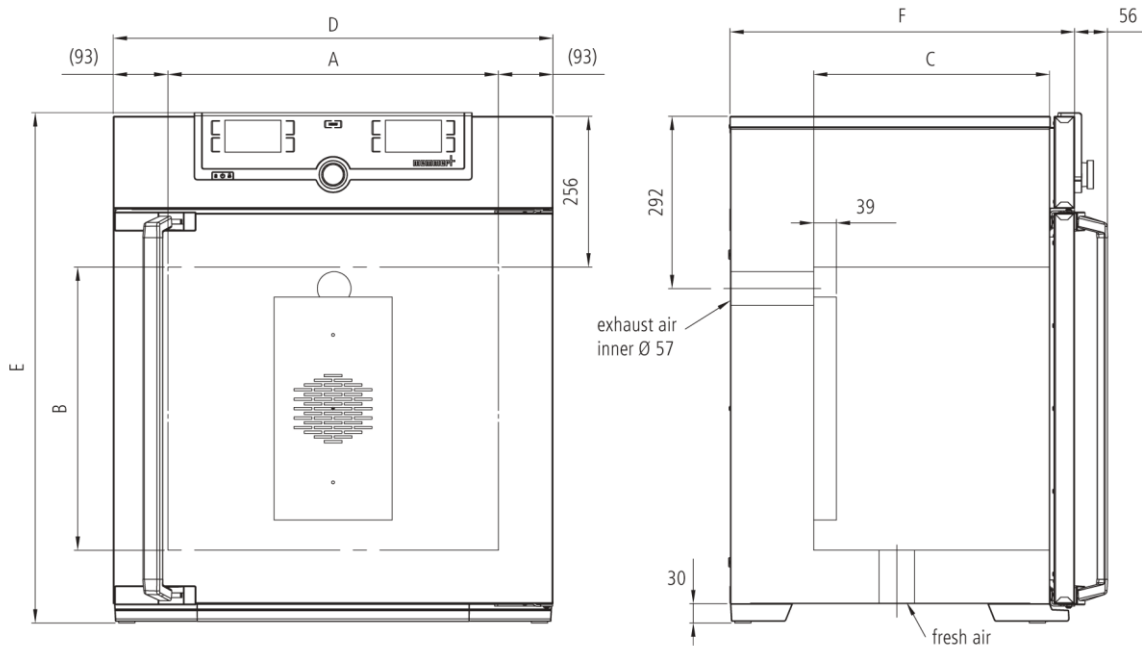**Universal Oven**

UN160plus

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.

Control of standard components

ControlCOCKPIT	adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-color displays
Temperature	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
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, program time, time zones, daylight savings time
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
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 for each segment individually
Vent	vent connection with restrictor flap

Communication

Programming	AtmoCONTROL software on a USB stick for programming, managing and transferring programs via Ethernet interface or USB port
Documentation	program stored in case of power failure

Safety

Alarm	audible and visual
Temperature control	overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
AutoSAFETY	additionally integrated over- and undertemperature monitor "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is switched off in case of overtemperature
Temperature control	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 with 2-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

$w_{(A)}$ x $h_{(B)}$ x $d_{(C)}$: 22" x 28.4" x 15.8"
Volume 161 l
Max. loading of chamber: 462 lbs

Textured stainless steel casing

$w_{(D)}$ x $h_{(E)}$ x $d_{(F)}$: 29.3" x 43.6" x 23"

Electrical data

230 V (+ / - 10%), 50/60 Hz / 13.9 amps
115 V (+ / - 10%), 50/60 Hz / 19.1 amps

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 W x H x D: 32.7" x 51.2" x 31.5"
	Net weight approx. 212 lbs
	Gross weight carton approx. 269 lbs

Standard units are safety-approved and bear the test marks