

# Model E 28 | Drying and heating chambers with mechanical adjustment

With a BINDER E series heating oven, you obtain a reliable and powerful unit in a solid configuration at a very attractive price. This heating oven is preferred for tasks in basic research, as well as in human and veterinary medicine.

## **BENEFITS**

- Uniform drying conditions thanks to APT.line™ technology
- Identical test conditions throughout the chamber interior independent of sample size and quantity
- Outstanding thermal insulation saves operation costs



Model 28



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#### **IMPORTANT FEATURES**

- Temperature range: +60 °C to +230 °C
- Adjustable exhaust air flap
- · Hydro-mechanical thermostat

- Class 1 temperature limitation device
- Timer o 120 min
- · 2 chrome-plated racks

#### ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model E 28					
28	230 V 1~ 50/60 Hz -	CEE 7/7	Standard	E028-230V	9010-0001



# TECHNICAL DATA

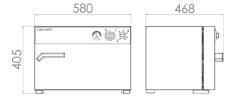
Designation         Coolst-layor           Addicts Nameder         person constrained           Coolst-layor Medical         Standard            Feedbrance Data Temperature            person in colston Coolst Support to ago or at system.            250 V            250 V            250 Mineral Acceptance of Mineral Verlagory            250 Mineral Verlagory	TECHNICAL DATA	
April or Name Option reade Option reade Option reade Option reade Performance Data Temperature Temperature range 60-239 °C Performance Data Temperature Temperature range Performance Data Temperature Temperature range Option reade Performance Data Temperature Temperature range Option reade Performance Data Temperature Temperature range Option reade Performance Data Temperature Performance Data Temperature Temperature range Option reade Performance Data Temperature Performance Data Temperature Performance Data Temperature Option reade Performance Data Temperature Option reade Normand votage Option reade Normand v	Data	
Option model         Standard           Performance Data Temperature           Temperature range         60.230 °C           Mescalery time after core was opened for so all stoPC         50 min           Recovery time after core was opened for so all stoPC         200 V           Retricted data         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Recovery time after core was opened for so all stoPC         200 V           Place (Normal Stope)         22 kg           Recovery time after core was opened for so all stoPC         22 kg           Wood per rank         200 min           Recovery time after core was opened for so all stoPC         200 min           Recovery time after core was opened for so all stoPC         200 min           Recovery time after core was opened for so all stoPC         200 min      <	Designation	E028-230V
Performance Data Temperature         60.230 °C           Temperature range         60.230 °C           Heading up time to storC         36 min           Recovery time after door was opened for yo a at sport.         39 min           Electrical Temperature         230 °C           Recovery time after door was opened for yo a at sport.         230 °C           Recovery time after door was opened for yo a at sport.         30 °C           Recovery time after door was opened for yo a at sport.         230 °C           Recovery time after door was opened for yo a at sport.         30 °C           Recovery time after door was opened for yo a at sport.         30 °C           Recovery time after door was opened for yo a at sport.         30 °C           Recovery time after door was opened for yo a at sport.         30 °C           Recovery time after door was opened for yo a at sport.         30 °C           Promotions and weights         30 °C           Recovery time after door was opened for yo at sport.         30 °C           Recovery time after door was opened for you at sport.         30 °C           Recovery time after door was opened for you at sport.         30 °C           Recovery time after door was opened for you at sport.         30 °C           Recovery time after door was opened for you at sport.         30 °C           Recover	Article Number	9010-0001
Fee personative range         60.230 °C           Heading up lime to 19°Y:         50 min           Recovery time after door was opened for 30 stat 50°C         50 min           Recovery frequency         291 °C           Power frequency         50/60 Ftz           Noninal power         08 kW           Place (Noninal voltage)         1-           Dimensions and weights         28 L           Net washin of the unit (wearly)         22 kg           Load per rack         10 kg           Permitted load         25 kg           Wall clearance back         100 mm           Wall clearance sidewise         100 mm           Metalling and connections         800 mm           Height and         400 mm           Interior width         400 mm           Interior height         250 mm           Interior height         250 mm	Option model	Standard
Receivery sine after door was opened for yo a at sport   200 min	Performance Data Temperature	
Recovery time after door was opened for 30 s at 150°C         150° min           Descrical data         200°V           Received Voltage         200°V           Power frequency         0.8 kWV           Nontinal power         100°C           Phase (Nominal voltage)         100°C           Dimensions and weights         22 kg           Load per rack         25 kg           Vest weight of the unit (empty)         25 kg           Used clearance back         360° mm           Well clearance sidewise         360° mm           Hought net         405° mm           Height net         405° mm           Interior width         400° mm           Interior width         400° mm           Interior width         400° mm           Interior width         400° mm           Interior depth         250° mm	Temperature range	60230 ℃
Electrical data         230 V           Power frequency         50/60 Hz           Nominal power         0,8 kW           Phase (Nominal voltage)         1-           Dimensions and weights         1 St. L.           Interior volume         28 L           Net weight of the unit (empty)         22 kg           Load per rack         10 kg           Woll clearance back         160 mm           Woll clearance back         160 mm           Woll clearance sidewise         100 mm           Height net         850 mm           Depth net         425 mm           Interior width         400 mm           Interior width         400 mm           Interior width         400 mm           Interior height         250 mm	Heating up time to 150°C	36 min
Rated Voltage         230 V           Power frequency         50/60 Hz           Nominal power         0.8 kW           Phase (Nominal voltage)         2-           Dimensions and weights         28 L           Net weight of the unit (empty)         22 kg           Load per rack         25 kg           Wall clearance back         56 mm           Wall clearance sidewise         300 mm           Nousing dimensions not incl. fittings and connections         405 mm           Width net         495 mm           begin net         405 mm           interior width         400 mm           interior width         400 mm           interior height         250 mm           tint doors         250 mm	Recovery time after door was opened for 30 s at 150°C	19 min
Power frequency         50/60 Hz           Nominal power         0,8 kW           Phase (Nominal voltage)         1-           Dimensions and weights         28 L           Net weight of the unit (empty)         22 kg           Load per rack         10 k8           Permitted load         25 kg           Wall clearance back         160 mm           Wall clearance sidewise         100 mm           Housing dimensions not incl. fittings and connections         580 mm           Permitted load         405 mm           Depth net         425 mm           Interior width         400 mm           Interior width         400 mm           Interior height         280 mm           Unit doors         1	Electrical data	
Nominal power         0,8 kW           Phase (Nominal voltage)         1-           Dimensions and weights         22 kg           Interior voltume         22 kg           Load per rack         10 kg           Permitted load         25 kg           Wall clearance back         160 mm           Wall clearance sidewise         100 mm           Housing dimensions not incl. fittings and connections         405 mm           Width net         405 mm           Depth net         405 mm           Interior width         400 mm           Interior width         400 mm           Interior height         280 mm           United ofepth         250 mm	Rated Voltage	230 V
Phase (Nominal voltage)    Dimensions and weights	Power frequency	50/60 Hz
Dimensions and weights  Interior volume 28 L  Net weight of the unit (empty) 22 kg  Load per rack 10 kg  Permitted load 25 kg  Wall clearance back 160 mm  Wall clearance back 100 mm  Housing dimensions not incl. fittings and connections  Writh net 405 mm  Depth net 405 mm  Depth net 405 mm  Interior width 400 mm  Interior width 400 mm  Interior width 181 kg mm  Interior depth 182 mm  Unit doors 1 cm mm  Interior depth 183 mm  Interi	Nominal power	o,8 kW
Interior volume 28 L  Net weight of the unit (empty) 22 kg  Load per rack 10 kg  Permitted load 25 kg  Wall clearance back 160 mm  Wall clearance sidewise 100 mm  Housing dimensions not incl. fittings and connections  Width net 405 mm  Depth net 405 mm  Depth net 405 mm  Interior width 400 mm  Interior width 400 mm  Interior width 280 mm  Interior width 280 mm  Interior height 280 mm  Unit doors 1 mm  Unit doors 1 mm	Phase (Nominal voltage)	1~
Net weight of the unit (empty)  Load per rack  Load per rack  Load per rack  Wall clearance back  Wall clearance back  Wall clearance sidewise  Loo mm  Housing dimensions not incl. fittings and connections  Width net  S80 mm  Leight net  405 mm  Interior width  Aoo mm  Interior width  Interior width  Interior depth  Littings and connections  Littings and connections  1  Littings and connections  Littings and connections  1  Littings and connections  Littin	Dimensions and weights	
Load per rack Permitted load 25 kg Wall clearance back Wall clearance sidewise Wolth clearance sidewise Width net Seo mm Height net Load per rack Interior width Interior height Interior depth Unit doors  10 kg  25 kg  100 mm  100	Interior volume	28 L
Permitted load 25 kg  Wall clearance back 160 mm  Wall clearance sidewise 100 mm  Housing dimensions not incl. fittings and connections  Width net 580 mm  Depth net 405 mm  Interior width 400 mm  Interior width 161 things and connections 280 mm  Interior height 280 mm  Unit doors 10 mm  Littings and connections 250 mm	Net weight of the unit (empty)	22 kg
Wall clearance back  Wall clearance sidewise  Housing dimensions not incl. fittings and connections  Width net  \$80 mm  Height net  405 mm  Linterior width  400 mm  Linterior height  Linterior depth  Linterior	Load per rack	10 kg
Wall clearance sidewise 100 mm  Housing dimensions not incl. fittings and connections  Width net 580 mm  Depth net 425 mm  Interior width 400 mm  Interior height 280 mm  Unit doors 1	Permitted load	25 kg
Housing dimensions not incl. fittings and connections  Width net 580 mm  Height net 405 mm  Depth net 425 mm  Internal Dimensions  Interior width 400 mm  Interior height 1250 mm  Unit doors 1	Wall clearance back	160 mm
Width net 580 mm Height net 405 mm  Depth net 425 mm  Internal Dimensions Interior width 400 mm Interior height 280 mm  Unit doors 1	Wall clearance sidewise	100 mm
Height net 405 mm  Depth net 425 mm  Internal Dimensions  Interior width 400 mm  Interior height 280 mm  Unit doors 1	Housing dimensions not incl. fittings and connections	
Depth net 425 mm  Internal Dimensions  Interior width 400 mm  Interior height 280 mm  Unit doors 1	Width net	580 mm
Interior width 400 mm Interior height 280 mm Interior depth 250 mm Unit doors 1	Height net	405 mm
Interior width 400 mm Interior height 280 mm Interior depth 250 mm Unit doors 1	Depth net	425 mm
Interior height 280 mm  Interior depth 250 mm  Unit doors 1	Internal Dimensions	
Interior depth 250 mm Unit doors 1	Interior width	400 mm
Unit doors 1	Interior height	280 mm
	Interior depth	250 mm
Fixtures	Unit doors	1
	Fixtures	



Number of shelves (std./max.) 2/4

All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10%. The temperature data is determined in accordance to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of the height, width, and depth of the inner chamber. All indications are average values, typical for units produced in series. We reserve the right to change technical specifications at any time.

# DIMENSIONS Incl. fittings and connections [mm]



## **OPTIONS**

Designation	Description	E 28	*	ArtNo.
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	-	8012-1114
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	•	-	8012-1133

#### **ACCESSORIES**

Designation	Description	E 28	*	ArtNo.
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250
Rack	chrome plated	•	-	8012-2032
Rubber pads	set anti-slip feet	•	-	8012-0702
Shelf, perforated	Stainless steel	•	-	8012-2160

# **SERVICES**

Designation	Description	*	ArtNo.
Calibration services			
	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	-	DL30-0110
Calibration certificate, temperature	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	-	DL30-0102
Installation services			
Unit commissioning	Connect the unit to the customer-side connections (electricity, water, wastewater, gas), basic functions check, brief operating instructions. (excl.: unpacking, setup, controller instructions, programming, installation work)	-	DL10-0100
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0500
Maintenance contracts			



Designation	Description	*	ArtNo.
BRONZE 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	-	DL20-0720
GOLD 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, replacement of wear parts, calibration of one test temperature specified by the user in the center of the usable space, including certificate	-	DL20-0915
SILVER 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, calibration of one test temperature specified by the user in the center of the usable space, without certificate	-	DL20-0815
Maintenance services			
Maintenance	One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Calibration of a test temperature specified by the user in center of usable space without certificate	-	DL20-0601
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0010



#### **NOTES**

Of Quoted prices do not include travel costs. Please refer to the chapter on BINDER Service for travel costs for your region. Quoted prices for services performed in Switzerland do not include a country-specific added fee (available on request).

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