

Model FP 400 | Drying and heating chambers with forced convection and program functions

A BINDER material test chamber with mechanical convection of the FP series provides reliably short drying times and particularly fast heating — even for chambers under full loads.

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
- · Advanced programming options



Model 400



Model 400

MAIN FEATURES

- Temperature range: +5 °C above ambient temperature to +300 °C
- APT.line™ preheating chamber technology
- Adjustable fan speed
- Adjustable exhaust air flap
- · Controller with time-segment and real-time programming
- 2 chrome-plated racks
- Class 2 independent adjustable temperature safety device (DIN 12880) with visual alarm
- Computer interface: RS 422

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
400	400 V 3~ ph 50/60 Hz	Standard	FP400-400V	9010-0265
	208 V 3~ ph 60 Hz	Standard	FP400UL-208V	9010-0266

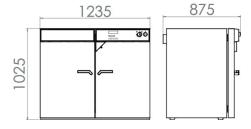


TECHNICAL DATA

Aircle Number 900-0265 900-0265 Performance Data Temperature and Fer Cabova ambient temperature to [**Cl 30 30 Temperature variation at 150 **C[x] 25 30 Heating-spit lime to 150 **C[x] 35 32 Recovery time after 90 seconds door open at 150 **C[m] 32 32 Air change daptows at 150 **C[x]*I] 88 32 Air change (approx.) at 150 **C[x]*I] 40 32 Power frequency [ht] 40 32 Power frequency [ht] 40 32 Power frequency [ht] 40 40 Nominal power [kW] 44 40 Nominal power [kW] 40 40 Not weight of the unit (empty) [k] 50 40 Not weight of the unit (empty) [k] 50 50 Not weight of the	Description	FP400-400V ¹	FP400UL-208V ¹
Temperature range +\$ °C above ambient temperature to °C 300 300 Temperature variation at 150 °C s K 2.5 2.5 Temperature fluctuation at 150 °C s K 0.3 0.3 Recovery time to 150 °C [min] 35 35 Recovery time after 30 seconds doro open at 150 °C [min] 17 17 Air change data 18 18 18 Air change (approx) at 350 °C [x/h] 400 208 18 Power frequency [Hz] 400 208 18 Power frequency [Hz] 30/60 60 10 Nominal power [kW] 34 34 10 Phase (Nominal voltage) 3-2 3-2 10 Not fit fue [M] 400 400 10 10 Net weight of the unit (empty) [kg] 45 45 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10<	Article Number	9010-0265	9010-0266
Temperature variation at 150°C[e K] 25 32 Temperature fluctuation at 150°C[e K] 9.3 32 Heating-up time to 150°C[min] 35 32 Recovery time after 30 seconds door open at 550°C[min] 17 72 Air change (approx.) at 550°C[k/h] 18 8 Fleating-up time to 150°C[k/h] 18 8 Fleating-data ************************************	Performance Data Temperature		
Temperature fluctuation at 150 °C [a K] 0.3 0.3 Heating-up time to 150 °C [min] 35 35 Recovery time after 30 seconds door open at 150 °C [min] 17 12 Air change data *** *** Air change data 18 18 18 Electrical data *** *** *** Rated Voltage [V] 400 208 *** Power frequency [kl2] 36/60 30 *** Nominal power [kW] 34 34 *** Unit fuse [A] 3 x 16 3 x 16 *** Whater [W] 400 3 x 16 ** Whater [W] 400 400 ** Net weight of the unit (empty) [kg] 45 45 ** Net weight of the unit (empty) [kg] 35 35 ** Vall clearance back [m] 100 100 ** Vall clearance back [m] 100 100 ** Vall clearance back [m] 100 100 ** Well clearance ba	Temperature range +5 °C above ambient temperature to [°C]	300	300
Heating-up time to 150 °C (min) 35 35 Recovery time after 30 seconds door open at 150 °C (min) 17 37 Air change data 4 4 Air change (approx.) at 150 °C (x/h) 8 8 8 Electrical data 400 208 Power frequency [Hz] 50/60 60 Nominal power [kW] 3.4 3.4 Unit fuse [A] 3.2 3.2 Phase (Monial voltage) 3.2 3.2 Measures 4.0 3.4 Messures 4.0 4.0 Net weight of the unit (empty) [kg] 4.0 4.0 Net weight of the unit (empty) [kg] 5. 5. Value (learance back (min) 160 9. Wall (elearance back (min) 160 100 Wall (elearance sidewise [mm] 160 100 Internal Dimensions 100 100 Wall (elearance sidewise [mm] 100 100 Height (mm] 200 100 Depth (mm] 200 20 <td>Temperature variation at 150 °C [± K]</td> <td>2.5</td> <td>2.5</td>	Temperature variation at 150 °C [± K]	2.5	2.5
Recovery time after 30 seconds door open at 150 °C [min] 17 17 Air change data 8 18 Air change (approx.) at 150 °C [x/h] 18 8 Electrical data 3 208 Power frequency [Hz] 400 208 Nominal power [kW] 3.4 3.4 Unit fuse [A] 3 x 16 3.4 Phase (Nominal votage) 3 x 16 3.2 Measures 3 4.0 3.4 Interior volume [L] 400 400 4.0 Net weight of the unit (empty) [kg] 45 4.5 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Height [mm] 90 100 Height [mm] 100 100 Height [mm] 100 100 Housing dimensions not incl. fittings and connections 235 <	Temperature fluctuation at 150 °C [± K]	0.3	0.3
Air change data Air change (approx.) at 150 °C [x/h] 18 18 18 Electrical data Rated Voltage [V] 200 200 200 200 200 200 200 200 200 20	Heating-up time to 150 °C [min]	35	35
Air change (approx.) at 150 °C (x/h) 18 18 Electrical data Vereigneuer (Pt2) 400 208 Power frequency (Hz) 50/60 60 Nominal power (kW) 3.4 3.4 Unit fuse (A) 3 x 16 3x 16 Phase (Nominal voltage) 3 2 3 Measures Vereight of the unit (empty) (kg) 400 400 Net weight of the unit (empty) (kg) 92 92 Permitted load (kg) 90 90 Uad per rack (kg) 35 35 Wall clearance back (mm) 166 60 Wall clearance back (mm) 100 100 Wall clearance sidewise (mm) 100 100 Wall clearance back (mm) 100 100 Height (mm) 80 80 Pett (ptm) 100 100 Height (mm) 125 125 Wildth (mm) 125 125 Height (me (mm) 125 125 Depth net (mm) 65 5	Recovery time after 30 seconds door open at 150 °C [min]	17	17
Electrical data Compare (V) 208 Power frequency (Hz) 50/60 60 Nominal power (kW) 3.4 3.4 Unit fuse (A) 3 x 16 3 x 16 Phase (Nominal voltage) 3 - 3 x 16 Measures Western (A) 400 400 Net weight of the unit (empty) (kg) 445 45 Net weight of the unit (empty) (kg) 55 35 Load per rack (kg) 59 90 Uall clearance back (mm] 160 100 Wall clearance sidewise (mm) 100 100 Internal Dimensions 50 800 Weight (mm) 800 800 Height (mm) 800 800 Poth (mm) 1235 1235 Woldth (mm) 1235 1235 Height net [mm] 67 5 Depth net [mm] 625 100 Height net [mm] 1235 1235 Depth net [mm] 67 5 Depth net [mm] 67	Air change data		
Rated Voltage [V] 400 208 Power frequency [Hz] 50/60 60 Nominal power [kW] 3.4 3.4 Unit fuse [A] 3x 16 3x 16 Phase (Nominal voltage) 3- 3x 16 Measures Metweight of the unit (empty) [kg] 400 400 Net weight of the unit (empty) [kg] 90 90 Load per rack [kg] 55 35 Wall clearance back [mm] 160 100 Wall clearance sidewise [mm] 100 100 Wall clearance sidewise [mm] 1000 100 Height [mm] 800 800 Depting 800 800 Depting 1235 1235 Height net [mm] 1025 1025 Depth net [mm] 1025 765 Erwironment-specific data 1200 1200 Erwironment-specific data 1200 1200	Air change (approx.) at 150 $^{\circ}$ C [x/h]	18	18
Power frequency [Hz] 50/60 60 Nominal power [kW] 3.4 3.4 Unit fuse [A] 3 x 16 3 x 16 Phase (Nominal voltage) 3 - 3 - Measures The common of the unit (empty) [kg] 400 400 Net weight of the unit (empty) [kg] 45 145 145 Permitted load [kg] 90 90 90 Ucal per rack [kg] 35 35 Wall clearance back [mm] 160 160 100 Internal Dimensions 90 90 90 Wild [mm] 1000 100 90 Height [mm] 800 800 90 Depth [mm] 910 90 90 Housing dimensions not incl. fittings and connections 90 90 90 Width net [mm] 1235 1235 1235 Beight net [mm] 1235 1235 1235 Beight net [mm] 1202 765 765 Environment-specific data 1200 1200 <td>Electrical data</td> <td></td> <td></td>	Electrical data		
Nominal power [kW] 3.4 3.4 Unit fuse [A] 3 x 16 3 x 16 Phase (Nominal voltage) 3- 3- Measures Interior volume [L] 400 400 Net weight of the unit (empty) [kg] 145 145 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance sidewise [mm] 160 100 Wall clearance sidewise [mm] 1000 100 With [mm] 800 800 Height [mm] 1000 1000 Height [mm] 50 50 Housing dimensions not incl. fittings and connections 80 80 Width net [mm] 1235 1235 Height net [mm] 1025 1025 Depth net [mm] 1026 765 Environment-specific data 1200 1200 Fixtures 1200 1200	Rated Voltage [V]	400	208
Unit fuse [A] 3 x 16 3 x 16 Phase (Nominal voltage) 3- 3- Measures Unit fuse [L] 400 400 Net weight of the unit (empty) [kg] 145 145 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 800 800 Upstyl [mm] 800 800 90 Height [mm] 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	Power frequency [Hz]	50/60	60
Phase (Nominal voltage) 3~ 3~ Measures 400 400 400 Net weight of the unit (empty) [kg] 45 45 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions V V Width [mm] 800 800 Height [mm] 510 510 Housing dimensions not incl. fittings and connections V Width net [mm] 1235 1235 Height net [mm] 1025 1235 Depth net [mm] 765 5 Environment-specific data 1200 1200 Environment-specific data 1200 1200 Fixtures 1200 1200	Nominal power [kW]	3.4	3.4
Measures Interior volume [L] 400 400 Net weight of the unit (empty) [kg] 145 145 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions 90 90 Weight [mm] 800 800 Depth [mm] 800 800 Housing dimensions not incl. fittings and connections 91 1235 Width net [mm] 1225 1235 Height net [mm] 1025 765 Epith net [mm] 1200 1200	Unit fuse [A]	3 x 16	3 X 16
Interior volume [L] 400 400 Net weight of the unit (empty) [kg] 145 145 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions V 1000 Height [mm] 800 800 Depth [mm] 510 50 Housing dimensions not incl. fittings and connections 1235 1235 Width net [mm] 1025 765 Depth net [mm] 765 765 Environment-specific data 1200 1200 Fixtures 1200 1200	Phase (Nominal voltage)	3~	3~
Net weight of the unit (empty) [kg] 145 145 Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 1000 1000 Height [mm] 800 800 800 Depth [mm] 510 510 510 Housing dimensions not incl. fittings and connections 1235 1235 Height net [mm] 1025 765 765 Environment-specific data 1200 1200 1200 Fixtures 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 <td>Measures</td> <td></td> <td></td>	Measures		
Permitted load [kg] 90 90 Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 1000 1000 Height [mm] 800 800 Depth [mm] 510 510 Housing dimensions not incl. fittings and connections 1235 1235 Height net [mm] 1025 1025 Depth net [mm] 765 765 Environment-specific data 1200 1200 Energy consumption at 150 °C [Wh/h] 1200 1200	Interior volume [L]	400	400
Load per rack [kg] 35 35 Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 1000 1000 Height [mm] 800 800 Depth [mm] 510 510 Housing dimensions not incl. fittings and connections 1235 1235 Width net [mm] 1235 1235 1235 Depth net [mm] 765 765 765 Environment-specific data 1200 1200 1200 Fixtures	Net weight of the unit (empty) [kg]	145	145
Wall clearance back [mm] 160 160 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 1000 1000 Height [mm] 800 800 Depth [mm] 510 510 Housing dimensions not incl. fittings and connections 1235 1235 Width net [mm] 1025 1025 Depth net [mm] 1025 765 765 Environment-specific data 1200 1200 1200 Fixtures	Permitted load [kg]	90	90
Wall clearance sidewise [mm] 100 100 Internal Dimensions 1000 1000 Width [mm] 800 800 Beight [mm] 510 510 Housing dimensions not incl. fittings and connections 1235 1235 Width net [mm] 1025 1025 Depth net [mm] 765 765 Environment-specific data 1200 1200 Fixtures	Load per rack [kg]	35	35
Internal Dimensions Width [mm] 1000 1000 Height [mm] 800 800 Depth [mm] 510 510 Housing dimensions not incl. fittings and connections ************************************	Wall clearance back [mm]	160	160
Width [mm] 1000 1000 Height [mm] 800 800 Depth [mm] 510 510 Housing dimensions not incl. fittings and connections ************************************	Wall clearance sidewise [mm]	100	100
Height [mm] 800 800 Depth [mm] 510 510 Housing dimensions not incl. fittings and connections Width net [mm] 1235 1235 Height net [mm] 1025 1025 Depth net [mm] 765 765 Environment-specific data 1200 1200 Fixtures 1200 1200	Internal Dimensions		
Depth [mm] 510 510 510 510 510 510 510 510 510 510	Width [mm]	1000	1000
Housing dimensions not incl. fittings and connections Width net [mm] 1235 1235 Height net [mm] 1025 1025 Depth net [mm] 765 765 Environment-specific data Energy consumption at 150 °C [Wh/h] 1200 1200 Fixtures	Height [mm]	800	800
Width net [mm] 1235 1235 Height net [mm] 1025 1025 Depth net [mm] 765 765 Environment-specific data Tenergy consumption at 150 °C [Wh/h] 1200 1200 Fixtures Tenergy Consumption at 150 °C [Wh/h] 1200 1200	Depth [mm]	510	510
Height net [mm] 1025 1025 Depth net [mm] 765 765 Environment-specific data Energy consumption at 150 °C [Wh/h] 1200 1200 Fixtures	Housing dimensions not incl. fittings and connections		
Depth net [mm] 765 765 Environment-specific data Energy consumption at 150 °C [Wh/h] 1200 1200 Fixtures	Width net [mm]	1235	1235
Environment-specific data Energy consumption at 150 °C [Wh/h] 1200 1200 Fixtures	Height net [mm]	1025	1025
Energy consumption at 150 °C [Wh/h] 1200 1200 Fixtures	Depth net [mm]	765	765
Fixtures	Environment-specific data		
	Energy consumption at 150 °C [Wh/h]	1200	1200
Number of shelves (std./max.) 2/10 2/10	Fixtures		
	Number of shelves (std./max.)	2/10	2/10

¹ 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. Technical data refers to 100 % fan speed. 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	*	ArtNo.
	back		
	10 mm	01	8012-1286
	30 mm	01	8012-1370
	50 mm	01	8012-1386
	left		
	10 mm	01	8012-1279
	30 mm	01	8012-1362
	50 mm	01	8012-1378
	100 mm	01	8012-1510
Access port with silicone	right		
olug	10 mm	01	8012-1272
	30 mm	01	8012-1357
	50 mm	01	8012-1374
	100 mm	01	8012-1507
	top		0012 1507
			9040 406
	10 mm	01	8012-126
	30 mm	01	8012-1366
	50 mm	01	8012-1382
	100 mm	01	8012-1389
Analog output 4-20 mA	for temperature values (output not adjustable)	02	8012-048
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1119
	for temperature, measurement in center of chamber at specified temperature	-	8012-1138
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1597
emperature	temperature measurement incl. certificate, 15-18 measuring points at specified temperature	-	8012-1576
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-1555
Class 3.1 independent temperature safety device	with visual alarm (DIN 12880)	-	8012-1149
Door gasket	made of FKM, silicone-free	_	8012-1311
Door lock	lockable door handle	_	8012-1255
	to increase air change rates		
an, reinforced	400 V option model	_	8012-1200
IEPA air filter	On fresh air supply for unit; filter classification H14 (acc. to. EN 1822-1:2009, > 99.995% at 0.3 µm)	_	8012-1169
	including 2 reinforced racks		
Inner chamber, reinforced	max. total load 250 kg	_	8012-1257
Measurement of air	in accordance with ASTM D5374, definition and protocol according to ambient temperature		8012-1198
Pt 100 temperature sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-050
	viewing window in each door, 290 x 470 mm, and 30 W interior lighting		
lewing window and	208 V option model	_	8012-024
interior lighting	400 V option model	_	8012-024
Notes > See last page	400 t Option model		0012-000

Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC- Edition	for simple logging and documentation requirements with up to 5 networked units.		
	version 4, BASIC edition	_	9053-0039

^{*} Notes > See last page



Designation	Description	*	ArtNo.
APT-COM™ 4 GLP- Edition	for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CFR 11.		
	version 4, GLP edition	-	9053-004
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	-	9053-004
oH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-001
	IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO ₂ , O ₂ , pressure, depending on unit		
	Digital in PDF format	-	7057-000
Qualification documents	Hard copy inside folder	-	7007-000
Qualification documents	IQ/OQ/PQ documents – supporting documents for validation performed by customers, according to customer requirements, PQ section added to qualification folder IQ/OQ; parameters: temperature, CO_2 , O_2 – or pressure, depending on unit		
	Digital in PDF format	-	7057-000
	Hard copy inside folder	-	7007-000
a a l	chrome plated	-	8012-203
Rack	stainless steel	-	6004-001
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-053
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-034
Rubber pads	set anti-slip feet	-	8012-203
Shelf, perforated	Stainless steel	-	6004-003
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^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
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)	05	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			
Maintenance services			
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	05	DL20-0710
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	05	DL20-0910
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	05	DL20-0200
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	05	DL20-0810
Calibration services			
Calibration contificate temporature	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
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	03, 04, 05	DL30-0102
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	03, 04, 05	DL33-0000
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0010

^{*} Notes > See last page



NOTES

- Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge. UL mark is not granted when this option is used.
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard.
- 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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