

1 Overview of connections, ranges and dimensions



Electrical connections must be carried out by qualified experts in accordance with the guidelines and standards for low-voltage installations and the specifications of the local electricity supply companies.

A plug-in appliance may only be connected to a socket outlet with earthing contact, installed according to specifications. An all-pole mains isolating device with 3 mm contact opening should be provided in the house wiring system. Switches, plug and socket devices, circuit breakers and fusible cut-outs which are accessible after installation and which have all-poles switching are permissible as isolating devices. Effective earthing and separately installed neutral and earth conductors ensure safe and fault-free operation. After installation, live parts and cables with basic insulation must not be accessible. Check old installations.



Electrical connections must be carried out by qualified experts.

Plan a separate inlet for the electrical connection for each appliance.

1.1 General operating conditions



Detailed information on the electrical connection data can be found at the beginning of each section.

Value	Nominal value	Minimum	Maximum
Voltage	230 V	207 V	253 V
Voltage	400 V	360 V	440 V
Frequency	50 Hz sinusoidal	49 Hz sinusoidal	51 Hz sinusoidal

- Short duration frequency variation in the mains: $\pm 5\%$
- Long duration frequency stability in the mains (for synchronous clocks): ± 10 ppm
- The appliances are designed for use up to a max. altitude of 2000 m above sea level.

1.2 Using residual current devices in house wiring system / fault current

High fault currents are inherently present in ovens and hobs. The values can be affected by various factors and vary widely. Fault currents of up to approximately 10 mA per appliance are permissible in accordance with the norm. The values are measured in the warm operating state.

If residual current devices (RCDs) are used in the house wiring system, we recommend that the above-mentioned appliances have their own RCD protection, separate from the power supply for the rest of the system. 30 mA or higher should be selected as the tripping current for the residual current device.

1.4 Positions of electrical connections

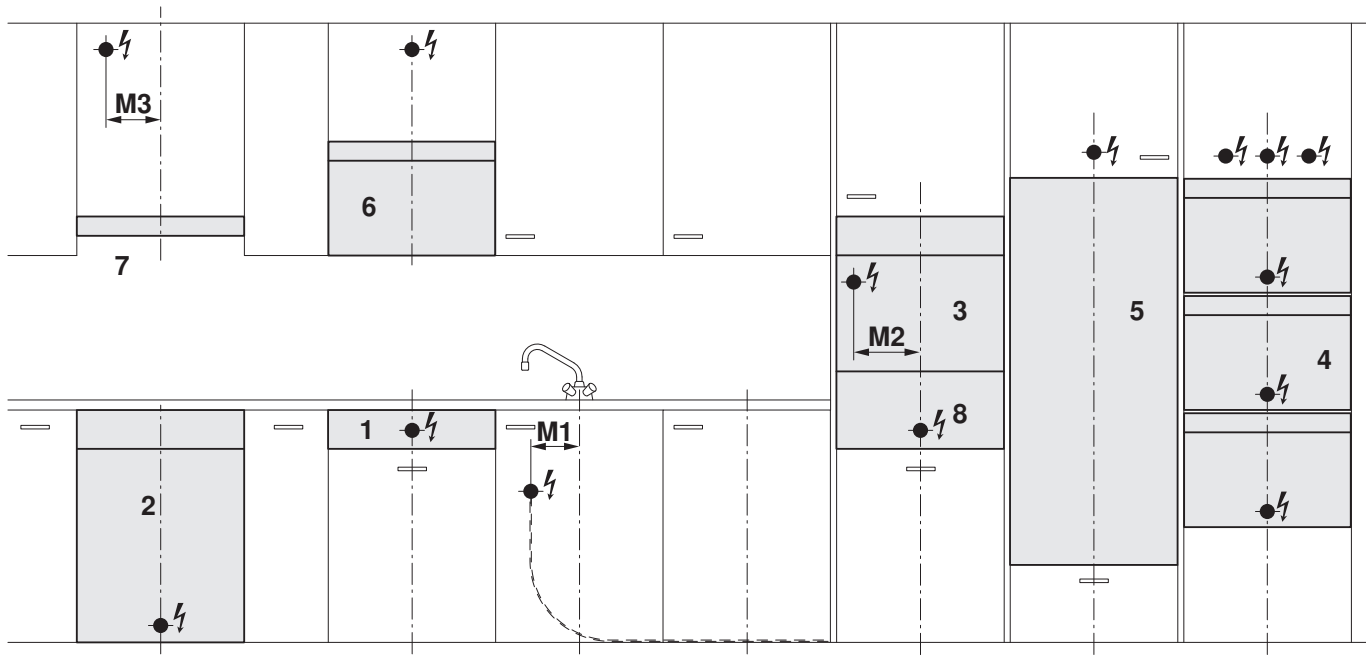
For EURO kitchens, allowance from the floor can vary. In this case, the electrical connection should be calculated using the dimension from the bottom edge of the appliance.

Oven above an oven

With this combination, an electrical connection should be provided for each appliance. Depending on the installation height and the type of combination, the connections may be located at different heights.

Wall hoods with telescopic casing

The electrical connection must pass between the exhaust air piping and the lagging sheets. The measurements given in the table ensure that this condition is met.



- 1 Wide switch box / control box / autarchic hob
- 2 Refrigerator in base unit / dishwasher
- 3 Oven/coffee-center
- 4 Combinations (oven / steam cooker / microwave)
- 5 Refrigerator, winecooler in tall unit
- 6 Microwave in a wall unit
- 7 Range hood
- 8 Warming drawer

M1 Distance from centre to dishwasher/refrigerator connection in base unit

M2 Distance from centre to coffee-center connection

M3 Distance from centre to range hood connection



Provide additional clearance for electrical connections if the installation niche has only the minimum depth.



12 Dishwashers

Dishwashers with heat pump (see page 110)

12.1 General notes



Efficient repairs can only be guaranteed if it is possible to uninstall the whole appliance at any time without causing any damage.



At any time it must be possible to pull the appliance out of the niche horizontally without dismantling any part of the cabinet.



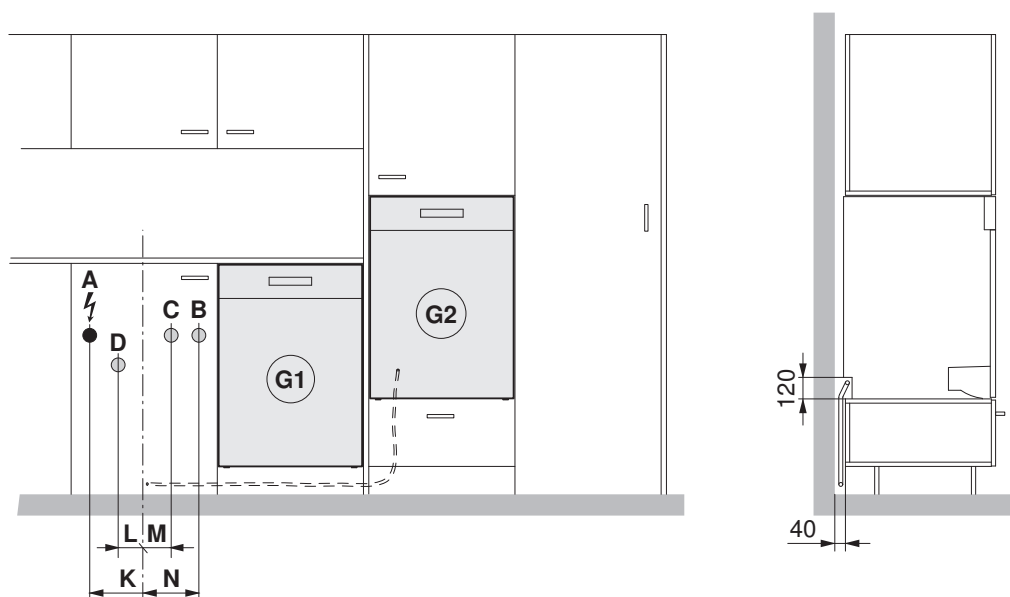
For work surfaces that are susceptible to moisture, use work surface protection W70163.

General operating conditions

Ambient temperature: from min. 10 °C to max. 35 °C

The appliances are designed for use up to a max. altitude of 2000 m above sea level.

12.2 Electrical connection data / plumbing in



Designation		Connection from floor (plinth height 105 mm)	Connection in niche (from centre to connection)	Type of connection
A	Electrical connection	600 mm	K = 160 mm	Flush power socket 230 V
B	Cold water	600 mm	N = 170 mm	G $\frac{3}{4}$ "
C	Hot water *	600 mm	M = 70 mm	G $\frac{3}{4}$ "
D	Drain, outlet	400 mm	L = 110 mm	ø56 mm
G1	Dishwasher in base unit	Connection in adjacent compartment left and right		
G2	Dishwasher in tall unit	Connection in max. 2 compartments left and right		

* Water connection at >60 °C is not recommended

Electrical connection data

Appliance	Country group *	Mains connection	Rated load	Fuse	Mains cable
Adora SL (41048, 41059–41061, 41085, 41086)	A, E	230 V~ 50 Hz	3200 W	16 A	1.5 m, with plug
	B, C		2200 W	10 A	
	D	220–240 V~ 50 Hz	2200 W	16 A	
	F		3200 W		
Adora S (41050, 41066, 41079, 41080)	A, B, C, D, E, F	230 V~ 50 Hz	2200 W	10 A	
Adora N (41052, 41063, 41075, 41077)					

* Key (see page 2)

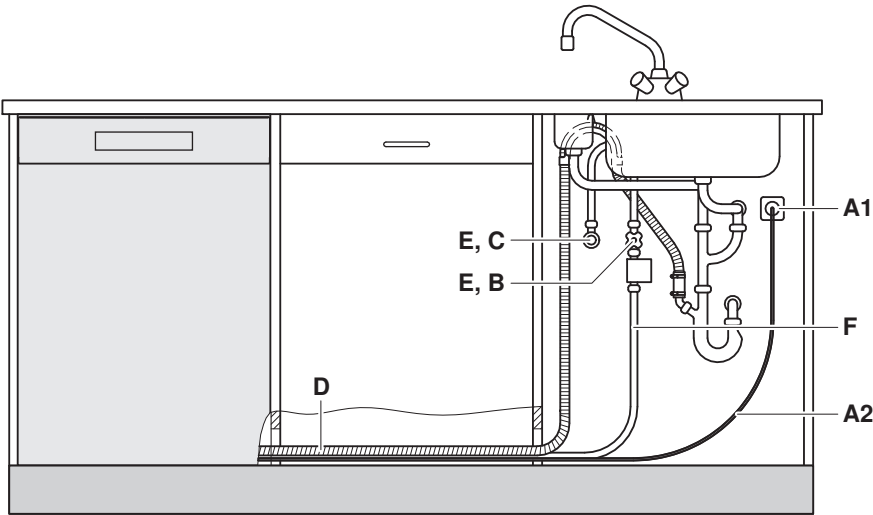


Plumbing-in data

For special cases with water hardness in excess of 50 °fH, an external water softener is recommended.

Value		Nominal value	Minimum	Maximum
Mains pressure (0.1 MPa = 1 bar)	Static	0.3–0.4 MPa	0.1 MPa	1.0 MPa
	Flowing	–	0.08 MPa	1.0 MPa
Water hardness		–	0.5 °fH	50 °fH
Water inlet temperature		–	5 °C	60 °C

Connection example



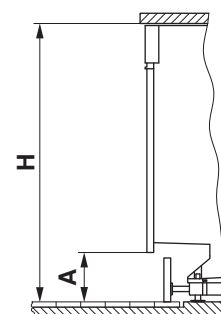
Designation		Adora dishwasher
A1	Power socket	Yes
A2	Connection cable	Length 1.50 m
B	Cold water connection	Yes
C	Hot water connection	Yes
D	Drain hose	Length 1.55 m / internal diameter = 22 mm
E	Shut-off devices	Yes
F	Aquastop / water inlet with filter, G¾"	Length 1.55 m

12.3 Installation overview

Depending on niche height **H**, either standard or extra height appliances or only one of the two can be installed.

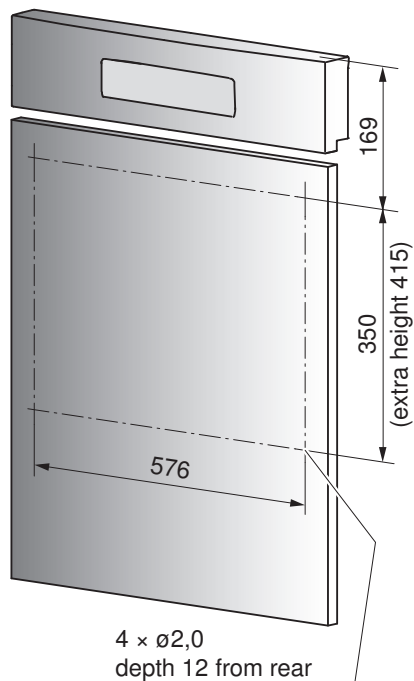
		Niche height H in mm																	
		790	800	810	820	830	840	851	860	870	880	890	900	910	920	930	940	950	960
Dimension A in mm	250												S						G
	240											S	S					G	G
	230										S	S	S				G	G	G
	220									S	S	S	S			G	G	G	G
	210								S	S	S	S	S		G	G	G	G	G
	200							S	S	S	S	S	S	G	G	G	G	G	G
	190						S	S	S	S	S	S	S/G	G	G	G	G	G	G
	180					S	S	S	S	S	S	S/G	S/G	G	G	G	G	G	G
	170				S	S	S	S	S	S	S	S/G	S/G	S/G	G	G	G	G	G
	160			S	S	S	S	S	S	S	S/G	S/G	S/G	S/G	G	G	G	G	G
	150		S	S	S	S	S	S	S	S/G	S/G	S/G	S/G	S/G	G	G	G	G	G
	140	S	S	S	S	S	S	S	S/G	S/G	S/G	S/G	S/G	S/G	G	G	G	G	G
	130	S	S	S	S	S	S	S	S/G	S/G	S/G	S/G	S/G	G	G	G	G	G	
	120	S	S	S	S	S	S	S	S/G	S/G	S/G	S/G	G	G	G	G	G	G	
	110	S	S	S	S	S	S	S	S/G	S/G	S/G	G	G	G	G	G	G		
	107	S	S	S	S	S	S	S	S/G	S/G	S/G	G	G	G	G	G			
	100	S	S	S	S	S	S	S	S/G	S/G	G	G	G	G	G	G			
	90	S	S	S	S	S	S	S	S/G	G	G	G	G	G	G				
	80	S	S	S	S	S	S		G	G	G	G	G	G					
	70	S	S	S	S	S			G	G	G	G	G						
	60	S	S	S	S				G	G	G	G							
	50	S	S	S					G	G	G								
	40	S	S						G	G									
	30	S							G										
	23								G										

S	Standard
G	Extra height
S/G	Standard and extra height

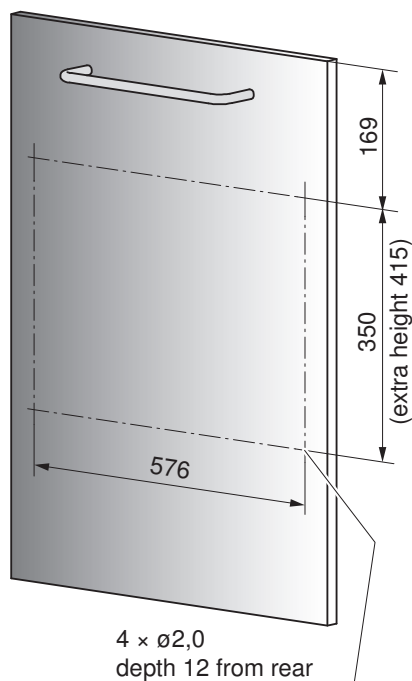


12.4 Drilling plans for decor panel 60 cm

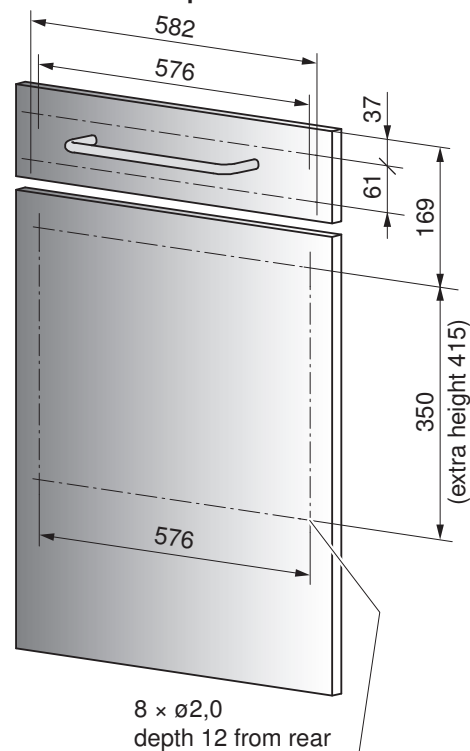
Integrated



Fully integrated



Two-part



For particularly heavy decor panels, use door hinge brake art. no. 1011228.

12.5 Adora SL, S, N with niche width 60 cm



It must be ensured air gap remains in the shadow gap.



Screws and fasteners must be countersunk in the niche. There should be no protruding parts, screw heads, brackets, etc., otherwise parts of the appliance could become damaged (risk of water damage).

The permissible weights of the front panel / decor system **1** depend on the design variant:

Decor system	Integrated Nero, white	Integrated ChromeClass	Design integrated Black glass	Fully integrated
Maximum weight	8 kg	7 kg	6.5 kg	7 kg
Minimum weight	5.5 kg	4.5 kg	4 kg	5 kg

- Front panel / decor system (wood) **1** fully integrated must be cut to the necessary dimensions.

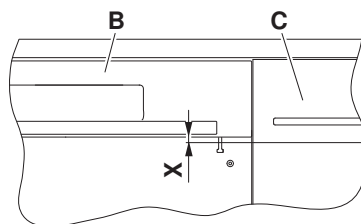
For stronger springs, see Accessories (see page 121)

For particularly heavy decor panels, use door hinge brake art. no. 1011228.

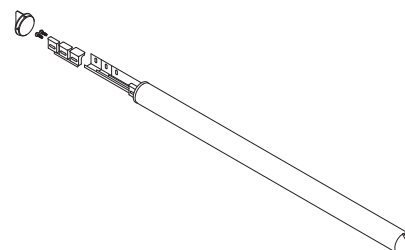
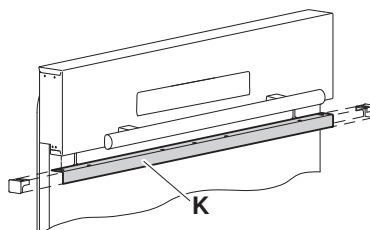
Compensator for ChromeClass and black glass

Compensator set: See Accessories Dishwashers (see page 134)

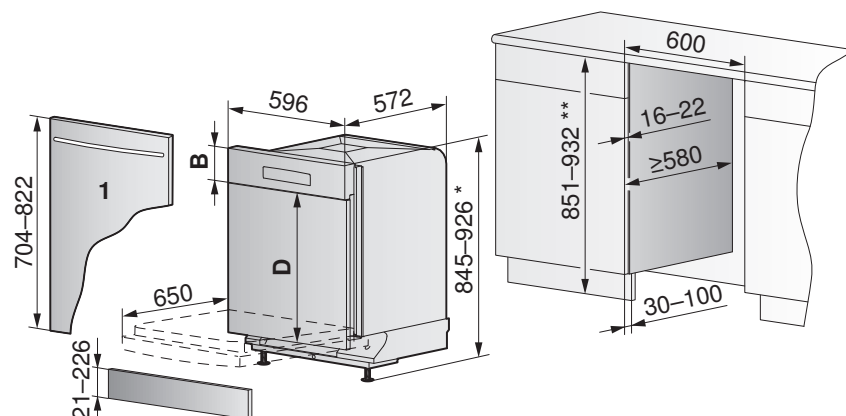
If the bottom edge of the operating panel **B** is not at the same height **X** as the bottom edge of the adjacent kitchen drawer **C**, a levelling piece (compensator **K**) must be mounted (see Installation instructions J18251).



Compensators contained in the set:
8 mm, 12 mm, 16 mm



Base unit «extra height»

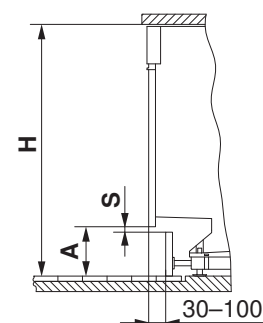


* From 926 up to max. 961 with a second runner only, can be ordered under W82930

** From 932 up to max. 967 with a second runner only, can be ordered under W82930

«Extra height»	Nero, white	ChromeClass	Black glass
Operating panel B incl. compensator	124–146 mm	124–140 mm	124–140 mm
Decor panel D	555–697 mm	561–697 mm	561–697 mm

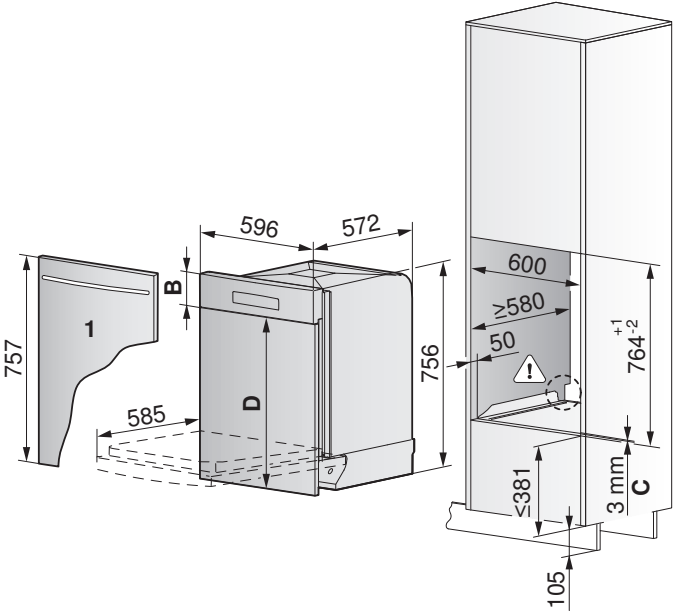
Niche height H in mm													Min. S in mm
Dimension A in mm Min.	851	860	870	880	890	900	910	920	930	940	950	960	
	23	32	42	52	62	72	82	92	102	112	122	132	2
	33	42	52	62	72	82	92	102	112	122	132	142	2
	43	52	62	72	82	92	102	112	122	132	142	152	2
	53	62	72	82	92	102	112	122	132	142	152	162	2
	63	72	82	92	102	112	122	132	142	152	162	172	2
	73	82	92	102	112	122	132	142	152	162	172	182	2
	83	92	102	112	122	132	142	152	162	172	182	192	2
	93	102	112	122	132	142	152	162	172	182	192	202	2
	103	112	122	132	142	152	162	172	182	192	202	212	5
	113	122	132	142	152	162	172	182	192	202	212	222	10
	123	132	142	152	162	172	182	192	202	212	222	232	15
Max.	133	142	152	162	172	182	192	202	212	222	232	242	23
	141	150	160	170	180	190	200	210	220	230	240	250	30



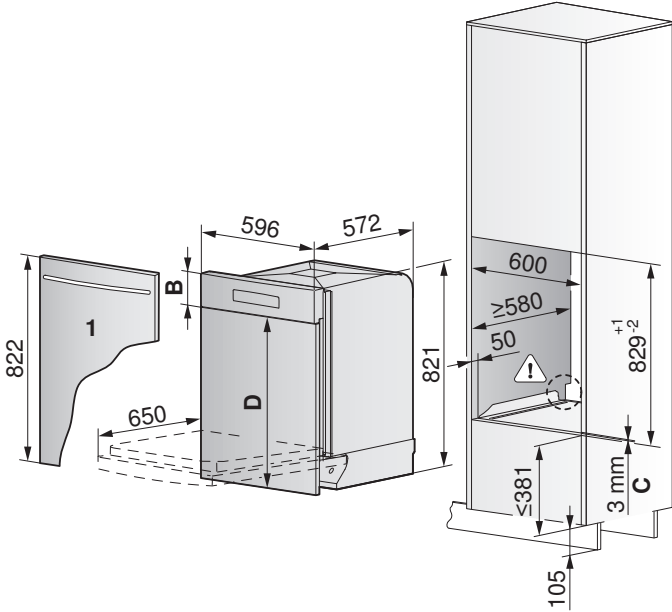


Tall unit «standard»

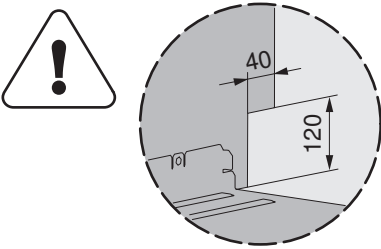
Can also be installed in base unit on base element



Tall unit «extra height»




C Slide plate



«Standard»	Nero, white	ChromeClass	Black glass
Operating panel B incl. compensator	124–146 mm	124–140 mm	124–140 mm
Decor panel D	610–632 mm	616–632 mm	616–632 mm

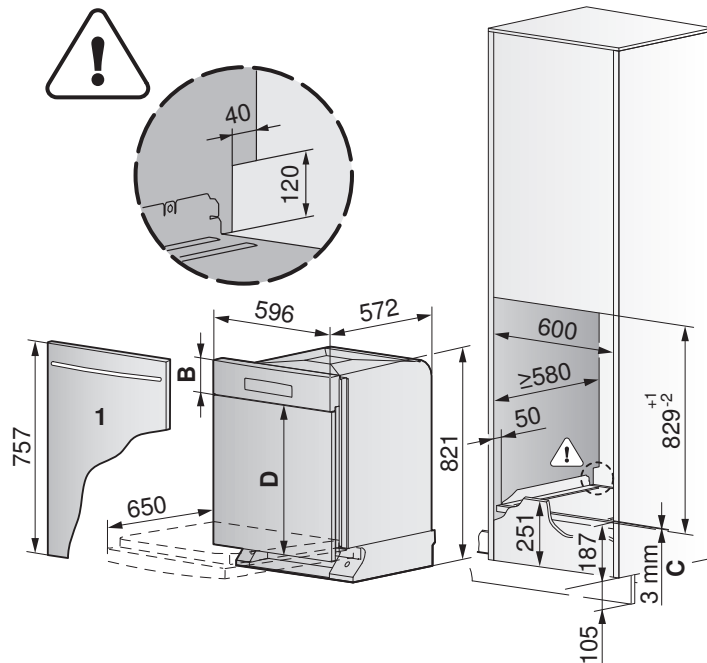
«Extra height»	Nero, white	ChromeClass	Black glass
Operating panel B incl. compensator	124–146 mm	124–140 mm	124–140 mm
Decor panel D	675–697 mm	681–697 mm	681–697 mm

 Slide plate conversion set for tall unit must be ordered from V-ZUG, see Accessories (see page 134).

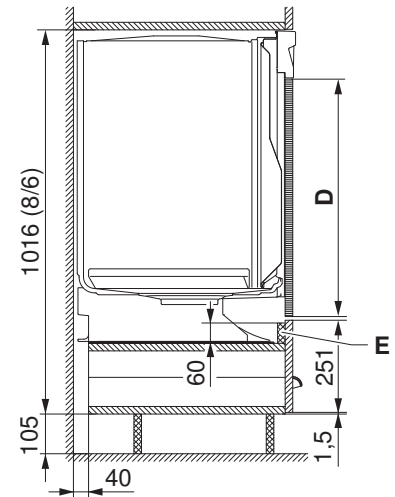
Tall unit «extra height» with decor panel and drawer 251 mm



Slide plate conversion set for tall unit must be ordered from V-ZUG, see Accessories (see page 134).



Cross-section of installation variant

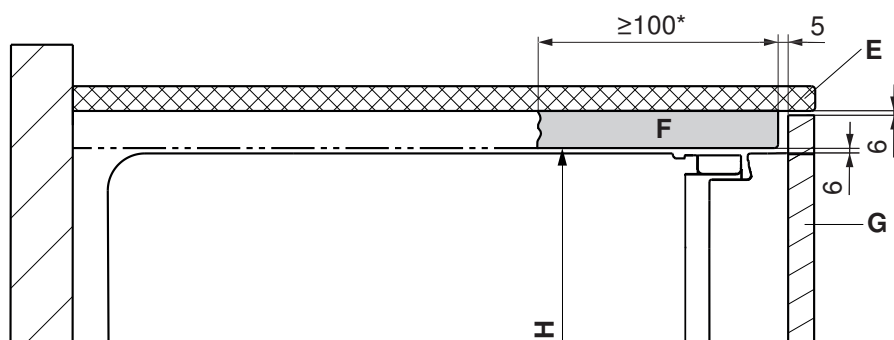


C Slide plate

E Removable cover strip

«Extra height»	Nero, white	ChromeClass	Black glass
Operating panel B incl. compensator	124–146 mm	124–140 mm	124–140 mm
Decor panel D	610–632 mm	616–632 mm	616–632 mm

Installing extra-long decor panel



* A continuous soffit vent is recommended.

E Worktop
F Continuous soffit vent
G Decor panel
H Niche height