SFFfg 5501

Laboratory freezer with an interior free of ignition sources

Performance



G German Engineering



Ext. dimensions in mm (w/d/h)747/769/1684Int. dimensions in mm (w/d/h)588/517/1388Energy consumption in 365 days516 kWh isAmbient temperature range+10 °C to +35 °CHeat output713 kJ/hRefrigerantR 290Noise output49 dB(A)Frequency / voltage50 Hz / 220 -240 V-Cooling systemstaticDefrostingmanualTemperature range-9 °C to -30 °CGradient / max. fluctuation5.4 °C ' 3.3 °C sHousing material/coloursteel / whiteDoor material / coloursteel / whiteDoor material / coloursteel / whiteLiner Materialcommercial grade moulded polystyrolType of Contolmonchrome display, tucch buttonsAlarm in case of malfunctionvisual and audiblePower failure alarmwhen mains power returnvolt-free alarm contactyesConnectivity solutionretrofittableInterfaceWLAN/LAN (optional)Adjustable Shelving4Shelf materialglassUsable shel area in mm (w / d)580 / 517Shelf Indarig1 x Ø 10 mmType of lockmechanicalDorn hingesright, reversible on siteGradient / max1 x Ø 10 mmShelf material900 stagasUsable shelf area in mm (w / d)580 / 517Shelf Indarig1 x Ø 10 mmType of lockmechanicalDorn hingesright, reversible on siteGross/net weight106 / 89 kg	Gross/net capacity	499/394 l
Energy consumption in 365 days 514 kWh ¹ Ambient temperature range +10 °C to +35 °C Heat output 713 kJ/h Refrigerant R 290 Noise output 49 dB(A) Frequency / voltage 50 Hz / 220-240 V- Cooling system static Defrosting manual Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ¹ / 3.3 °C ¹ Housing material / colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf foading 40 kg Maximum total load	Ext. dimensions in mm (w/d/h)	747/769/1684
Ambient temperature range +10 °C to +35 °C Andient temperature range +10 °C to +35 °C Refrigerant R 290 Noise output 49 dB(A) Frequency / voltage 50 Hz / 220-240 V- Cooling system static Defrosting manual Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ² Housing material/colour stel / white Door material / colour stel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Door hinges righ	Int. dimensions in mm (w/d/h)	588/517/1388
Heat output713 kJ/hRefrigerantR 290Noise output49 dB(A)Frequency / voltage50 Hz / 220-240 V-Cooling systemstaticDefrostingmanualTemperature range-9 °C to -30 °CGradient / max. fluctuation5.4 °C ¹ / 33 °C ³ Housing material/coloursteel / whiteDoor material / coloursteel / whiteDoor material / coloursteel / whiteConnectivity steelmonochrome display, touch buttonsAlarm in case of malfunctionvisual and audiblePower failure alarmwhen mains power returnvolt-free alarm contactyesConnectivity typeSmartModuleConnectivity solutionretrofittableInterfaceWLAN/LAN (optional)Adjustable Shelving4Shelf materialglassUsable shelf area in mm (w / d)580 / 517Shelf loading40 kgMaximum total load300 kgDravers8Handleantimicrobial handle with opening mechanismAccess ports1 x Ø 10 mmType of lockmechanicalDor hingesright, reversible on siteGross/net weight106/89 kgEAN-Nr.9005382280997Cleanroom class according to ISO ENISO Class 514646-1100	Energy consumption in 365 days	516 kWh ¹
RefrigerantR 290Noise output49 dB(A)Frequency / voltage50 Hz / 220-240 V-Cooling systemstaticDefrostingmanualTemperature range-9 °C to -30 °CGradient / max. fluctuation5.4 °C * / 3.3 °C *Housing material/coloursteel / whiteDoor material / coloursteel / whiteLiner Materialcommercial grade moulded polystyrolType of Controlmonochrome display, touch butonsAlarm in case of malfunctionvisual and audiblePower failure alarmwhen mains power returnvolt-free alarm contactyesConnectivity typeSmartModuleConnectivity solutionretrofittableInterfaceWLAN/LAN (optional)Adjustable Shelving4Shelf materialglassUsable shelf area in mm (w / d)580 / 517Shelf loading40 kgMaximum total load300 kgDrawers8Handleantimicrobial handle with opening mechanismAccess ports1 x Ø 10 mmType of lockmechanicalDoor hingesright, reversible on siteGross/net weight106/89 kgEAN-Nr.9005382280997Cleanroom class according to ISO EN1S0 class 514664-1150	Ambient temperature range	+10 °C to +35 °C
Noise output 49 dB(A) Frequency / voltage 50 Hz / 220-240 V- Cooling system static Defrosting manual Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ² Housing material/colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9	Heat output	713 kJ/h
Frequency / voltage 50 Hz / 220-240 V- Cooling system static Defrosting manual Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ² Housing material/colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280977 Cleanroom class accordin	Refrigerant	R 290
Cooling system static Defrosting manual Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ² Housing material/colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 <th>Noise output</th> <th>49 dB(A)</th>	Noise output	49 dB(A)
Defrosting manual Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ³ Housing material/colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN <t< th=""><th>Frequency / voltage</th><th>50 Hz / 220-240 V~</th></t<>	Frequency / voltage	50 Hz / 220-240 V~
Temperature range -9 °C to -30 °C Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ³ Housing material / colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN	Cooling system	static
Gradient / max. fluctuation 5.4 °C ² / 3.3 °C ³ Housing material/colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN IS0 class 5 14664-1	Defrosting	manual
Housing material/colour steel / white Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN IS0 class 5	Temperature range	-9 °C to -30 °C
Door material / colour steel / white Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Gradient / max. fluctuation	5.4 °C ² / 3.3 °C ³
Liner Material commercial grade moulded polystyrol Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Housing material/colour	steel / white
Type of Control monochrome display, touch buttons Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1 -1	Door material / colour	steel / white
Alarm in case of malfunction visual and audible Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5	Liner Material	commercial grade moulded polystyrol
Power failure alarm when mains power return volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5	Type of Control	monochrome display, touch buttons
volt-free alarm contact yes Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5	Alarm in case of malfunction	visual and audible
Connectivity type SmartModule Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5	Power failure alarm	when mains power return
Connectivity solution retrofittable Interface WLAN/LAN (optional) Adjustable Shelving 4 Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	volt-free alarm contact	уез
InterfaceWLAN/LAN (optional)Adjustable Shelving4Shelf materialglassUsable shelf area in mm (w / d)580 / 517Shelf loading40 kgMaximum total load300 kgDrawers8Handleantimicrobial handle with opening mechanismAccess ports1 x Ø 10 mmType of lockmechanicalDoor hingesright, reversible on siteGross/net weight106/89 kgEAN-Nr.9005382280997Cleanroom class according to ISO ENISO class 514664-1106	Connectivity type	SmartModule
Adjustable Shelving4Shelf materialglassUsable shelf area in mm (w / d)580 / 517Shelf loading40 kgMaximum total load300 kgDrawers8Handleantimicrobial handle with opening mechanismAccess ports1 x Ø 10 mmType of lockmechanicalDoor hingesright, reversible on siteGross/net weight106/89 kgEAN-Nr.9005382280997Cleanroom class according to ISO ENISO class 514664-1	Connectivity solution	retrofittable
Shelf material glass Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5	Interface	WLAN/LAN (optional)
Usable shelf area in mm (w / d) 580 / 517 Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO Class 5 14664-1	Adjustable Shelving	4
Shelf loading 40 kg Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Shelf material	glass
Maximum total load 300 kg Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Usable shelf area in mm (w / d)	580 / 517
Drawers 8 Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Shelf loading	40 kg
Handle antimicrobial handle with opening mechanism Access ports 1 x Ø 10 mm Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Maximum total load	300 kg
Access ports1 x Ø 10 mmType of lockmechanicalDoor hingesright, reversible on siteGross/net weight106/89 kgEAN-Nr.9005382280997Cleanroom class according to ISO ENISO class 514664-1	Drawers	8
Type of lock mechanical Door hinges right, reversible on site Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1 1	Handle	antimicrobial handle with opening mechanism
Door hingesright, reversible on siteGross/net weight106/89 kgEAN-Nr.9005382280997Cleanroom class according to ISO ENISO class 514664-1	Access ports	1 x Ø 10 mm
Gross/net weight 106/89 kg EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1 ISO class 5	Type of lock	mechanical
EAN-Nr. 9005382280997 Cleanroom class according to ISO EN ISO class 5 14664-1	Door hinges	right, reversible on site
Cleanroom class according to ISO EN ISO class 5 14664-1	Gross/net weight	106/89 kg
14664-1	EAN-Nr.	9005382280997
	Cleanroom class according to ISO EN	ISO class 5
GMP cleanroom class GMP class B	14664-1	
	GMP cleanroom class	GMP class B

¹ Measured at +25 °C ambient temperature and +5 °C set temperature for fridges

and -20 °C for freezers.
 ² Gradient as defined in EN 60068-3: the difference between the warmest and coldest average measurements, increased by their expanded uncertainty,

¹ Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.

