



**Main Features**

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|--|---|
| Temperature range: -45°C up to -86°C               | Cascade compressor cooling unit                     |
| HFC Ecological refrigerant type, CFC and HCFC free | Robust exterior structure in phosphated sheet steel |
| Insulation CFC and HCFC free                       | Interior chamber made of full stainless steel       |
| Door closing with security key                     | Interior compartment doors                          |
| Alarm system with backup battery                   | LCD display with alarms and temperature memory log  |
| Easy and fast maintenance                          | Height adjustable stainless steel shelves           |
| Temperature backup emergency system (optional)     | Reliable door gasket with quadruple sealing points  |

**Ultra freezer Variations**

Interior volume	Orientation	Nominal Voltage	Description	Model code	Model code with medical device certification
230	Upright	230 V 1 ~ 50 Hz	230 liters, upright opening door	86NV23	86ES23
390			390 liters, upright opening door	86NV39	86ES39
500			500 liters, upright opening door	86NV50	86ES50
650			650 liters, upright opening door	86NV65	86ES65
230	Chest	230 V 1 ~ 50 Hz	230 liters, chest opening door	86NR23	86ES23R
390			390 liters, chest opening door	86NR39	86ES39R
500			500 liters, chest opening door	86NR50	86ES50R

**Upright models**

Upright model	86NV23	86NV39 86ES39	86NV50 86ES50	86NV65 86ES65
<b>Performance Data Temperature</b>				
Temperature range [°C]	-45...-86	-45...-86	-45...-86	-45...-86
Temperature variation at -80 °C [± K]	1.5	1.5	1.5	1.5
Warm-up time during power failure from -80 °C to -60 °C [min]	140	140	140	140
Warm-down time from 0 °C to -80 °C [min]	180	180	180	180
<b>Interior Dimension</b>				
Width [mm]	610	610	600	740
Depth [mm]	500	500	630	670
Height [mm]	760	1310	1310	1310
<b>Exterior Dimension</b>				
Width [mm]	840	840	840	980
Depth [mm]	750	750	880	900
Height [mm]	1420	1970	1970	1970
<b>Measures</b>				
Net capacity [L]	230	390	500	650
Net weight unit (without load) [kg]	200	280	320	390
<b>Door data</b>				
Service door [n°]	1	1	1	1
Interior compartment doors [n°]	2	4	4	4
<b>Shelves data</b>				
Fixed shelves [n°]	1	1	1	1
Adjustable shelves [n°]	2	3	3	3
Total shelves [n°]	3	4	4	4
Usable area, Width x Depth [mm]	440x590	440x590	570x590	730x660
Maximum load per shelf [kg]	50	50	50	50
<b>Rack for cryoboxes data</b>				
Total capacity of rack [n°]	8	16	16	20
Total capacity of cryoboxes 5.1 H size [n°]	144	240	320	400
Total capacity of cryoboxes 7.7 H size [n°]	96	144	192	240
<b>Sound pressure level</b>				
Sound pressure level [dB]	58, from one meter away			
<b>Electrical data</b>				
Rated Voltage [V]	230	230	230	230
Power Frequency [Hz]	50	50	50	50
Nominal Power [kW]	0.8	1.55	1.55	1.55
Unit Fuse [A]	10	10	10	10
Phase (nominal voltage)	1 ~	1 ~	1 ~	1 ~

**Chest models**

Chest model	86NR23 86ES23R	86NR39 86ES39R	86NR50 86ES50R
<b>Performance Data Temperature</b>			
Temperature range [°C]	-45...-86	-45...-86	-45...-86
Temperature variation at -80 °C [± K]	1.5	1.5	1.5
Warm-up time during power failure from -80 °C to -60 °C [min]	140	140	140
Warm-down time from 0 °C to -80 °C [min]	180	180	180
<b>Interior Dimension</b>			
Width [mm]	760	1310	1310
Depth [mm]	600	610	600
Height [mm]	500	500	630
<b>Exterior Dimension</b>			
Width [mm]	1000	1550	1890
Depth [mm]	840	840	840
Height [mm]	1090	1090	910
<b>Measures</b>			
Net capacity [L]	230	390	500
Net weight unit (without load) [kg]	190	270	310
<b>Door data</b>			
Service door [n°]	1	1	1
Interior compartment doors [n°]	-	-	-
<b>Rack for cryoboxes data</b>			
Total capacity of rack [n°]	20	36	36
Total capacity of cryoboxes 5.1 H size [n°]	160	288	360
Total capacity of cryoboxes 7.7 H size [n°]	100	180	360
<b>Sound pressure level</b>			
Sound pressure level [dB]	58, from one meter away		
<b>Electrical data</b>			
Rated Voltage [V]	230	230	230
Power Frequency [Hz]	50	50	50
Nominal Power [kW]	0.8	1.55	1.55
Unit Fuse [A]	10	10	10
Phase (nominal voltage)	1 ~	1 ~	1 ~