

Холодильники-морозильники, холодильники, морозильники взрывозащищенные CARL ROTH

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Fridge-freezers



Laboratory fridge-freezer unit 263C-AEV-TS

Thermo.

- **Adjustable cooling temperature from:**
Fridge unit: 4 to 6 °C; 5 °C is preset
Freezer unit: -20 °C (non-adjustable)
- **Max. temperature range**
Fridge unit: 1 to 10 °C
Freezer unit: -18 to -25 °C
- **Digital temperature display (resolution 1 °C)**
- Alarm function for high and low temperature limits (alarm limits have fixed settings; 1 and 11 °C or -15 and -30 °C)
- Standard entries (Ø 16 mm), e.g. for external temperature sensors
- With lockable door

Technical specifications:

Art. No.	NN38.1
Type	263C-AEV-TS
Fridge unit cooling capacity	159 l
Freezer unit cooling capacity	109 l
Removable shelves in the fridge unit	Grate/drawer
Removable shelves in the freezer unit	Grate/drawer
Number of shelves in the fridge unit	3
Number of shelves in the freezer unit	1
Additional data	Number of baskets: Fridge unit: 2 basket halves; Freezer unit: 2 baskets
Inner fridge unit width	457 mm
Inner fridge unit depth	450 mm
Inner fridge unit height	725 mm
Inner freezer unit width	408 mm
Inner freezer unit depth	415 mm
Inner freezer unit height	670 mm
Outer width	540 mm
Outer depth	600 mm
Outer height	1,680 mm
Thawing method	Automatic cooling compartment, manual freezer compartment
Energy consumption (24 h)	0.9 kWh
Weight	95 kg
Mains connection	230 V, 50 Hz

Please note: Additional transport costs apply for delivery to the place of use. We will be happy to inform you of these on request.

Type	Art. No.	Pack Qty.
263C-AEV-TS	NN38.1	1 unit(s)



Laboratory fridge-freezer combination LCv 4010 and LCexv 4010, explosion protected

Liebherr.

- Adjustable cooling temperature (2 separately adjustable refrigeration circuits)
Fridge unit: +3 to +16 °C
Freezer unit: -9 to -30 °C
- Fridge unit with recirculated-air ventilation system, freezer unit with static cooling system
- Digital temperature display
fridge unit resolution: 0.1 °C
freezer unit resolution: 0.1 °C (to -19,9 °C) and/or 1 °C (from -20 °C)
- Temperature consistency
fridge unit: ±2.0 K
freezer unit: ±3.5 K
- With lockable door
- Memory for Min/Max temperatures
- Memory function for storing last three temperature alarms and power failures with date/time/duration of alarm
- Audible and visual limit alarms
- Audible and visual door opening alarms
- Feedthrough for external temperature sensor (Ø 10 mm)

Technical specifications:

Art. No.	TP33.1	AET2.1
Type	LCv 4010	LCexv 4010, explosion protected
Fridge unit cooling capacity	240 l	
Freezer unit cooling capacity	105 l	
Removable shelves in the fridge unit	Grate	Glass stage
Removable shelves in the freezer unit	Drawer	
Number of shelves in the fridge unit	4	
Number of shelves in the freezer unit	3	
Inner fridge unit width	440 mm	
Inner fridge unit depth	435 mm	
Inner fridge unit height	1,105 mm	
Inner freezer unit width	431 mm	
Inner freezer unit depth	435 mm	
Inner freezer unit height	597 mm	
Outer width	600 mm	
Outer depth	615 mm	
Outer height	2,000 mm	
Thawing method	Automatic cooling compartment, manual freezer compartment	
Energy consumption (24 h)	1.800 kWh	
Weight	91 kg	
Mains connection	220–240 V, 50/60 Hz	

Please note: Additional transport costs apply for delivery to the place of use. We will be happy to inform you of these on request.

Model LCv 4010, standard version

Type	Art. No.	Pack Qty.
LCv 4010	TP33.1	1 unit(s)

Fridge-freezers

Model LCexv 4010, explosion protected

With explosion protected interior in compliance with the safety requirements of EU Directive 94/9/EC (ATEX 95) for the storage of explosive and highly flammable substances in enclosed containers.

Type	Art. No.	Pack Qty.	
LCexv 4010, explosion protected	AET2.1	1 unit(s)	



Ultra-low temperature freezer -86 °C HERAfreeze™ HFC390TV

Thermo.

- Cooling temperature is adjustable from -50 to -86 °C
- Outer housing made of robust steel with powder-baked finish
- Stainless steel interior
- Alphanumeric LED display shows thresholds, system status and alarm messages
- Set-up adjustable for high-temperature and low-temperature alarm
- Backup battery (NiCd Gel battery 12 V) to preserve the display and alarm functions for 48 hours in the event of a power failure
- Access code to protect the setpoint defined
- Lockable door handle
- RS 232 interface and 4 mA up to 20 mA analogue outputs

Technical specifications:

Art. No.	HPA6.1
Type	HERAfreeze™ HFC390TV
Operating temperature	-50 to -86 °C
Cooling capacity	85 l
Outer width	724 mm
Outer depth	759 mm
Outer height	1,133 mm
Inner width	470 mm
Inner depth	470 mm
Inner height	417 mm
Energy consumption (24 h)	5.3 kWh
Weight	196 kg
Mains connection	230 V, 50 Hz

Type	Art. No.	
HERAfreeze™ HFC390TV	HPA6.1	



Thermostat cabinet TCS series

Tintometer.

For continuous temperature control in different applications, e.g. micro-biological research, BSB requirements etc.

- Temperature range +2 to +40 °C, infinitely adjustable in 0.1 °C increments
- Illuminated LED temperature display for actual/nominal values
- Temperature constancy ± 1.0 °C
- With internal sockets for devices which require a power supply, e.g. magnetic stirrer
- Built-in cooling and heating units
- Lockable door
- With height-adjustable grids

Technical specifications:

Art. No.	AKX5.1	AKX9.1	AKX7.1	AKY0.1	AKX8.1
Type	TC 135 S	TC 140 G	TC 255 S	TC 256 G	TC 455 S
Cooling capacity	135 l	140 l	255 l		445 l
Base grid	1				
Number of grates	3		4		
Outer width	600 mm				750 mm
Outer depth	600 mm		610 mm		730 mm
Outer height	850 mm		1,640 mm		
Inner width	513 mm		470 mm		600 mm
Inner depth	441 mm		440 mm		560 mm
Inner height	702 mm		1,452 mm		
Sockets in the working area	4 unit(s)		7 unit(s)		9 unit(s)
Energy consumption (24 h)	1.35 kWh	1.77 kWh	1.54 kWh	1.56 kWh	1.42 kWh
Weight	39 kg	50 kg	61 kg	77 kg	78.5 kg
Mains connection	220–240 V, 50 Hz				

With standard door

Type	Art. No.	Pack Qty.	
TC 135 S	AKX5.1	1 unit(s)	
TC 255 S	AKX7.1	1 unit(s)	
TC 455 S	AKX8.1	1 unit(s)	

With glass door, double insulating glass with ABS frame

Type	Art. No.	Pack Qty.	
TC 140 G	AKX9.1	1 unit(s)	
TC 256 G	AKY0.1	1 unit(s)	



Refrigerators/freezers, explosion-proof



Laboratory fridge, explosion-proof

Tintometer.

Explosion-proof acc. to directive for "safe working in laboratories DGUV Information 213-850 of BG RCI". Enclosed spaces in which hazardous, explosive atmospheres can develop, e.g. rooms where flammable liquids are stored, must be explosion-proof.

- Cooling temperature is infinitely variable from +1 to +15 °C
- Temperature selection range:
1 (= lowest cooling capacity) to 5 (= highest cooling capacity)
- Mechanical control unit
- Digital temperature display (resolution 1 °C)
- Sheet steel housing with impact resistant powder coating
- With lockable door and height-adjustable glass base
- Dynamic cooling system (with forced air ventilation)
- Models EX 220, EX 300 and EX 490 have a fan stop function which switches off the fan when the door is opened
- Automatic condensation drainage into inner catch tank

Technical specifications:

Art. No.	AKY7.1	AKY8.1	AKY9.1	ALA0.1
Type	EX 160	EX 220	EX 300	EX 490
Cooling capacity	160 l	221 l	307 l	520 l
Refrigeration temperature from	+1 °C			
Refrigeration temperature up to	+15 °C			
Number of bases	3	4	5	
Additional data	Shelves made of glass			
Outer width	600 mm			750 mm
Outer depth	600 mm	610 mm	730 mm	
Outer height	860 mm	1,250 mm	1,640 mm	
Inner width	513 mm	470 mm	600 mm	
Inner depth	441 mm	440 mm	560 mm	
Inner height	702 mm	1,062 mm	1,452 mm	
Energy consumption (24 h)	0.898 kWh	0.786 kWh	0.947 kWh	0.983 kWh
Weight	40 kg	53 kg	64 kg	84 kg
Mains connection	220–240 V, 50 Hz			

Delivery incl. height-adjustable glass shelf.

Type	Art. No.	Pack Qty.	
EX 160	AKY7.1	1 unit(s)	
EX 220	AKY8.1	1 unit(s)	
EX 300	AKY9.1	1 unit(s)	
EX 490	ALA0.1	1 unit(s)	



Fridge, explosion-proof MediLine type LK series

Liebherr.

With explosion-proof interior acc. to EU Directive 94/9/EG (ATEX 95).

General information for all models:

- Cooling temperature adjustable from +3 to +16 °C
- With convection cooling
- Digital temperature display (resolution 0.1 °C)
- Temperature constancy ±2,0 K
- Memory for Min/Max temperatures
- Memory function for storing last three temperature alarms and power failures with date/time/duration of alarm
- With lockable door
- Audible and visual with alarms
- Audible and visual door opening alarms

Technical specifications:

Art. No.	LL34.1	LL33.1
Type	LKUexv 1610	LKexv 3910
Cooling capacity	130 l	344 l
Refrigeration temperature from	+3 °C	
Refrigeration temperature up to	+16 °C	
Number of bases	3	5
Additional data	Shelves made of glass	
Outer width	600 mm	
Outer depth	615 mm	
Outer height	820 mm	1,840 mm
Inner width	455 mm	
Inner depth	435 mm	
Inner height	669 mm	1,650 mm
Thawing method	Automatic	
Energy consumption (24 h)	0.747 kWh	0.865 kWh
Weight	42 kg	70 kg

Please note: Additional transport costs apply for delivery to the place of use. We will be happy to inform you of these on request.

Type	Art. No.	Pack Qty.	
LKUexv 1610	LL34.1	1 unit(s)	
LKexv 3910	LL33.1	1 unit(s)	

Refrigerators/freezers, explosion-proof



Freezer, explosion-proof MediLine type LG series

Liebherr.

With explosion-proof interior acc. to EU Directive 94/9/EG (ATEX 95).

General information for all models:

- Static cooling
- Digital temperature display
resolution: 0.1 °C (to -19.9 °C) and/or 1 °C (from -20 °C)
- Temperature constancy ± 2 K
- Memory for Min/Max temperatures
- Memory function for storing last three temperature alarms and power failures with date/time/duration of alarm
- With lockable door
- Audible and visual with alarms
- Audible and visual door opening alarms

Technical specifications:

Art. No.	LL36.1	LL35.1
Type	LGUex 1500	LGex 3410
Cooling capacity	129 l	284 l
Freezing temperature from	-9 °C	
Freezing temperature up to	-26 °C	-30 °C
Basket	1	
Drawers	3 unit(s)	8 unit(s)
Outer width	600 mm	
Outer depth	615 mm	
Outer height	820 mm	1,840 mm
Inner width	454 mm	420 mm
Inner depth	450 mm	400 mm
Inner height	663 mm	1,587 mm
Thawing method	manual	
Energy consumption (24 h)	0.926 kWh	1.309 kWh
Weight	46 kg	89 kg

Please note: Additional transport costs apply for delivery to the place of use. We will be happy to inform you of these on request.

Type	Art. No.	Pack Qty.
LGUex 1500	LL36.1	1 unit(s)
LGex 3410	LL35.1	1 unit(s)



Cone ice makers SCOTSMAN® B-series

Scotsman.

For making solid and crystal clear cone ice. Applications: Laboratories and industry.

- Stainless steel version, air-cooled
- Integrated reservoir
- Insulated removal flap for reduced condensation
- Ice cone size: Approx. H 30.5 x Ø 34 mm (20 g)
- Suitable for use with drinking water and demineralised water

Technical specifications:

Art. No.	NH38.1	NH39.1
Type	B 2508	B 3015
Max. output in 24 h	25 kg	31 kg
Storage capacity	8 kg	15 kg
Width	390 mm	467 mm
Depth	515 mm	570 mm
Height	640 mm	690 mm
Operating limits	Ambient temperature: Min. 10 °C/max. 43 °C Water temperature: Min. 5 °C/max. 38 °C Water pressure: Min. 0.8 bar/max. 5 bar	
Weight	31 kg	34 kg
Mains connection	230 V, 50 Hz	

Delivery incl. one ice shovel, 1 supply hose $\frac{3}{4}$ " (length 1.5 m), drainage hose (Ø 20 mm, length 1.5 m).

Type	Storage capacity (kg)	Art. No.	Pack Qty.
B 2508	8	NH38.1	1 unit(s)
B 3015	15	NH39.1	1 unit(s)

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