

L500

Electronic data sheet

Electronic type:	Premium electronic
RS 485:	not available
°B Connected monitoring software:	Option
Data transmission:	standard
Wireless data transmission:	not available
Display range °C (°F):	-99.0°C to +99.0°C (-146°F to 210°F)
Display indication step K:	0.1
Preset set point °C (°F):	5 (41)
Set point range °C (°F):	from 4 to 15 (from 39 to 59)
Set point adjustable step K:	0.1
Temperature distribution acc. to FDX 15-140 K:	4
Preset warm alarm °C (°F):	7 (45)
Preset cold alarm °C (°F):	3 (37)
Alarm range °C (°F):	-16 to +35 (3 to 95)
Alarm adjustable step K:	0.1
Min alarm difference to set point K:	2.0
Alarm indication:	optically + acoustically
Remote alarm relais:	change-over switch
Remote alarm relais output:	temperature and system error
Additional remote alarm:	yes as standard: powerfail, system fault and door alarm
Regulation sensor type:	PT1000 2-WIRE 1/3DIN CL.B
Regulation sensor measuring accuracy:	at -80 to 180°C ± 0,2°C (at -112 to 356°F ± 35.6°F)
Display sensor type:	PT1000 2-WIRE 1/3DIN CL.B
Display sensor measuring accuracy:	at -80 to 180°C ± 0,2°C (at -112 to 356°F ± 35.6°F)
Display sensor reference body:	100ml DOW corning 200-5CST (silicon oil)
Safety thermostat at °C (°F) / type:	1,6 (34.9) / capillary tube
Safety thermostat measuring accuracy:	at 25°C ± 0,3°C (at 77°F ± 37.4°F)
Evaporator sensor type:	not available
Evaporator sensor measuring accuracy:	/
Ambient temp sensor as option, type:	PT1000 2-WIRE CL.B
Ambient temp sensor measuring accuracy:	at -80 to 180°C ± 0,6°C (at -112 to 356°F ± 33.1°F)

L500

Material and equipment

Material specifications

Inner body material:	stainless steel - 1.4301
Outer body material:	DX51D + Z100, with a white/grey coating
Inner door material:	stainless steel - 1.4301
Outer door material:	DX51D + Z100, with a white/grey coating
Wire shelf material:	wire DIN 177, white PA11 coated RAL9010
Drawer material:	stainless steel - 1.4301
Shuttle rack material:	polycarbonate (PC) transparent

Equipment

<i>Standard equipment inside:</i>	
5 wire shelves	
Lots of wire shelves, recommend / maximum:	5 / 13
Lots of drawers, recommend / maximum:	5 / 5
Lots of shuttle racks per wire shelf, maximum:	4
Door hinge standard / option:	right / left
Light:	LED standard
Castors:	4 castors with integrated feet
Water cooling:	not available
External unit:	not available
Recorder as option, range / sensor type:	from -10 to +20°C (from 14 to 68°F) / PT1000
Recorder sensor measuring accuracy:	at +25°C ± 0,5°C (at 77°F ± 32.9°F)
Recorder sensor reference body:	100ml DOW coming 200-5CST (silicon oil)
PT100 sensor additional as option:	yes, type class B, 3-wire
PT100 sensor measuring accuracy:	at +25°C ± 0,2°C (at 77°F ± 32.4°F)
PT100 sensor reference body:	100ml DOW coming 200-5CST (silicon oil)
Packing standard / option:	EPS corners, plastic foil and wooden palette / -

Subject to changes without prior notice !

Revision: 21.06.2018

L500

Technical data sheet

CFC / HCFC free:	yes
Climate class:	SN / T
Ambient temperature range °C (°F):	from +10 to +43 (from 50 to 109.4)
Max. relative humidity:	75%
Voltage V:	115-127
Frequency Hz:	60
Fuse Amp:	2x 8
Power W:	300
Running current A:	2.4
Energy consumption Kwh/24h:	1.30
Heat ejection Kcal/h:	28
Running time %:	23
Noise level dB(A) (in 1m height +1m distance):	50
Accu data / function time:	12V -7.0 AH / 48 hours
Defrosting technique:	natural
Compressor manufacturer:	Embraco
Compressor type:	EM2C46CLC
Cooling capacity W (ASHRAE):	140
Capillary tube, inner diam x length mm (inch):	0.90 x 3000 (0.035 x 118.11)
Refrigerant type:	R600a
Refrigerant quantity g (oz):	60 (2.116)
Door insulation mm (inch):	65 to 82 (2.56 to 3.23)
Cabinet insulation mm (inch):	77 to 82 (3.03 to 3.23)
K value W/m ² xK at 20°C (68°F):	
Hold over time h at °C (°F):	1.6 from +5 to +10°C (from 41 to 50°F), DIN58345 @25°C (77°F)
Net volume l (cu ft):	510 (18.011)
Gross volume l (cu ft):	598 (21.118)
Internal width mm (inch):	590 (23.23)
Internal depth mm (inch):	713 (28.07)
Internal height mm (inch):	1167 (45.95)
External width mm (inch):	845 (33.27)
External depth mm (inch):	1039 (40.91)
External height mm (inch) [with recorder]:	1988 (78.27) [2163 (85.16)]
Net weight with standard equipment kg (lbs):	215 (474.00)
EMC directive:	not applicable
Low voltage directive:	not applicable
GS certificate:	no
Medical device directive:	not applicable
GMP-clean room classification:	class ISO5/EC GMP A
ATEX-categorie III, zone 2, interior:	no

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Revision: 23.07.2018

**Measurement conditions: +25°C (77°F) ambient temperature unless otherwise stated
All appliances without load**

L500

Technical data sheet

CFC / HCFC free:	yes
Climate class:	SN / T
Ambient temperature range °C (°F):	from +10 to +43 (from 50 to 109.4)
Max. relative humidity:	75%
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Voltage V:	220-240
Frequency Hz:	50-60
Fuse Amp:	2x 8
Power W:	300
Running current A:	1.2
Energy consumption Kwh/24h:	1.40 @50Hz / 1.40 @60Hz
Heat ejection Kcal/h:	33
Running time %:	25
Noise level dB(A) (in 1m height +1m distance):	47 @50Hz / 51 @60Hz
Accu data / function time:	12V -7.0 AH / 48 hours
Defrosting technique:	natural
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Compressor manufacturer:	Secop
Compressor type:	NLE9KTK
Cooling capacity W (ASHRAE):	131
Capillary tube, inner diam x length mm (inch):	0.90 x 3000 (0.035 x 118.11)
Refrigerant type:	R600a
Refrigerant quantity g (oz):	60 (2.116)
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Net weight with standard equipment kg (lbs):	215 (474.00)
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EMC directive:	2014/30/EC
Low voltage directive:	2014/35/EC
GS certificate:	no
Medical device directive:	93/42/EEC, Class I
GMP-clean room classification:	class ISO5/EC GMP A
ATEX-categorie III, zone 2, interior:	no

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Revision: 23.07.2018

**Measurement conditions: +25°C (77°F) ambient temperature unless otherwise stated
All appliances without load**