

# L700

## 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%   |
| <b>Voltage V:</b>                              | <b>220-240</b>  |
| <b>Frequency Hz:</b>                           | <b>50/60</b>  |
| Fuse Amp:                                      | 8   |
| Power W:                                       | 300   |
| Running current A:                             | 1.2   |
| Energy consumption Kwh/24h:                    | 1.40 @50Hz / 1.50 @60Hz   |
| Heat ejection Kcal/h:                          | 32  |
| Running time %:                                | 24  |
| Noise level dB(A) (in 1m height +1m distance): | 50 @50Hz / 51 @60HZ   |
| Accu data / function time:                     | 12V -7.0 AH / 48 hours  |
| Defrosting technique:                          | natural   |
| 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):                   | 80 ( 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 <sup>2</sup> 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):                          | 636 ( 22.460 )  |
| Gross volume l (cu ft):                        | 747 ( 26.380 )  |
| Internal width mm (inch):                      | 740 ( 29.13 )   |
| Internal depth mm (inch):                      | 713 ( 28.07 )   |
| Internal height mm (inch):                     | 1167 ( 45.95 )  |
| External width mm (inch):                      | 992 ( 39.06 )   |
| External depth mm (inch):                      | 1039 ( 40.91 )  |
| External height mm (inch):                     | 1988 ( 78.27 )  |
| Net weight with standard equipment kg (lbs):   | 237 ( 522.50 )  |
| EMC directive:                                 | 2014/30/EU  |
| Low voltage directive:                         | 2014/35/EU  |
| 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  |

Subject to changes without prior notice !

Revision: 07.02.2019

### Measurement conditions:

Setpoint +5°C ( 41°F ) @ +25°C ( 77°F ) ambient temperature, unless otherwise stated  
All appliances without load

L700

Technical data sheet

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|--|---|
| 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%   |
| <b>Voltage V:</b>                              | <b>115-127</b>  |
| <b>Frequency Hz:</b>                           | <b>60</b>   |
| Fuse Amp:                                      | 8   |
| Power W:                                       | 300   |
| Running current A:                             | 2.4   |
| Energy consumption Kwh/24h:                    | 1.30  |
| Heat ejection Kcal/h:                          | 30  |
| Running time %:                                | 25  |
| Noise level dB(A) (in 1m height +1m distance): | 46  |
| 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):                   | 50 ( 1.764 )  |
| 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/m²xK at 20°C (68°F):                 | N/A   |
| 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):                          | 636 ( 22.460 )  |
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| Internal width mm (inch):                      | 740 ( 29.13 )   |
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| External width mm (inch):                      | 992 ( 39.06 )   |
| External depth mm (inch):                      | 1039 ( 40.91 )  |
| External height mm (inch):                     | 1988 ( 78.27 )  |
| Net weight with standard equipment kg (lbs):   | 237 ( 522.50 )  |
| 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: 04.07.2019

**Measurement conditions:**

Setpoint +5°C ( 41°F ) @ +25°C ( 77°F ) ambient temperature, unless otherwise stated  
All appliances without load

## L700

## 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 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)     |

# L700

## 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 shelves, recommend / maximum:     | 5 / 13   |
| Lots of drawers, recommend / maximum:     | 5 / 5  |
| Lots of shuttle racks per shelf, maximum: | 5  |
| 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 / - |

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