

Electronic data sheet

| | |
|--|---|
| Electronic type: | Precision electronic |
| RS 485: | not available |
| °B Connected monitoring software: | Option, with DCU |
| DCU: | Option |
| DCU Wlan: | not available |
| Display range °C (°F): | -50.0°C to +50.0°C (-58°F to 122°F) |
| Display indication step K: | 0.1 |
| Preset set point °C (°F): | 4 (39) |
| Set point range °C (°F): | not available |
| Set point adjustable step K: | not available |
| Temperature distribution acc. to FDX 15-140 K: | 4 |
| Preset warm alarm °C (°F): | 6 (43) |
| Preset cold alarm °C (°F): | 2 (36) |
| Alarm range °C (°F): | 2 to 6 (36 to 43) |
| Alarm adjustable step K: | 0.1 |
| Min alarm difference to set point K: | 1.5 |
| Alarm indication: | optically + acoustically |
| Remote alarm relais: | change-over switch |
| Remote alarm relais output: | temperature and display sensor error |
| Additional remote alarm: | yes as standard: powerfail, system fault and door alarm |
| Regulation sensor type: | NTC |
| Regulation sensor measuring accuracy: | at 0°C ± 0,3°C (at 32°F ± 37.4°F) |
| Display sensor type: | NTC |
| Display sensor measuring accuracy: | at 0°C ± 0,3°C (at 32°F ± 37.4°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: | not available |
| Ambient temp sensor measuring accuracy: | / |

Material and equipment

Material specifications

| | |
|----------------------|----------------------------|
| Inner body material: | PP copolymer UV RAL9016 |
| Outer body material: | PP copolymer UV RAL9016 |
| Inner door material: | Aluminium |
| Outer door material: | PP copolymer UV RAL9016 |
| Wire shelf material: | no wire shelf |
| Drawer material: | Polycarbonate, transparent |

Equipment

| | |
|--|--|
| <i>Standard equipment inside:</i> | |
| 5 drawers with front and divider / 1 bottom drawer | |
| Lots of wire shelves, recommend / maximum: | not available |
| Lots of drawers, recommend / maximum: | See standard configuration |
| Lots of shuttle racks per wire shelf, maximum: | Not available |
| Door hinge standard / option: | right / left |
| Light: | LED standard |
| Castors: | 2 rollers |
| 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 corning 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 corning 200-5CST (silicon oil) |
| Packing standard / option: | cardboard / - |

Subject to changes without prior notice !

Revision: 18.04.2018

B291

Technical data sheet

| | |
|--|---|
| CFC / HCFC free: | yes |
| Climate class: | SN |
| Ambient temperature range °C (°F): | from +10 to +32 (from 50 to 90) |
| Max. relative humidity: | 75% |
| Voltage V: | 115-127 |
| Frequency Hz: | 60 |
| Fuse Amp: | 8 |
| Power W: | 200 |
| Running current A: | 1.0 |
| Energy consumption Kwh/24h: | 0.99 |
| Heat ejection Kcal/h: | 34 |
| Running time %: | 46 |
| Noise level dB(A) (in 1m height +1m distance): | 39 |
| Accu data / function time: | 12V -2.3 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): | 0.83 x 2050 (0.033 x 80.71) |
| Refrigerant type: | R600a |
| Refrigerant quantity g (oz): | 26 (0.917) |
| Door insulation mm (inch): | 82 (3.23) with 4-layer organic glass insert, not heated |
| Cabinet insulation mm (inch): | 60 to 65 (2.36 to 2.56) |
| K value W/m ² xK at 20°C (68°F): | |
| Hold over time h at °C (°F): | 2.2 from +4 to +10°C (from 39 to 50°F), DIN58371 @20°C (68°F) |
| Net volume l (cu ft): | 269 (9.500) |
| Gross volume l (cu ft): | 297 (10.489) |
| Internal width mm (inch): | 475 (18.70) |
| Internal depth mm (inch): | 470 (18.50) |
| Internal height mm (inch): | 1470 (57.87) |
| External width mm (inch): | 595 (23.43) |
| External depth mm (inch): | 695 (27.36) |
| External height mm (inch) [with recorder]: | 1670 (65.75) [1843 (72.56)] |
| Net weight with standard equipment kg (lbs): | 96 (211.64) |
| EMC directive: | not applicable |
| Low voltage directive: | not applicable |
| GS certificate: | no |
| Medical device directive: | not applicable |
| GMP-clean room classification: | class ISO6/EC GMP B |
| ATEX-categorie III, zone 2, interior: | no |

Subject to changes without prior notice !

Revision: 17.07.2018

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

B291

Technical data sheet

| | |
|--|---|
| CFC / HCFC free: | yes |
| Climate class: | SN |
| Ambient temperature range °C (°F): | from +10 to +32 (from 50 to 90) |
| Max. relative humidity: | 75% |
| Voltage V: | 220-240 |
| Frequency Hz: | 50-60 |
| Fuse Amp: | 8 |
| Power W: | 200 |
| Running current A: | 1.0 |
| Energy consumption Kwh/24h: | 1.13 @50Hz / 1.21 @60Hz |
| Heat ejection Kcal/h: | 34 |
| Running time %: | 33 |
| Noise level dB(A) (in 1m height +1m distance): | 38 @50Hz/ 40 @60Hz |
| Accu data / function time: | 12V -2.3 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): | 0.83 x 2050 (0.033 x 80.71) |
| Refrigerant type: | R600a |
| Refrigerant quantity g (oz): | 33 (1.164) |
| Door insulation mm (inch): | 82 (3.23) with 4-layer organic glass insert, not heated |
| Cabinet insulation mm (inch): | 60 to 65 (2.36 to 2.56) |
| K value W/m ² xK at 20°C (68°F): | |
| Hold over time h at °C (°F): | 2.2 from +4 to +10°C (from 39 to 50°F), DIN58371 @20°C (68°F) |
| Net volume l (cu ft): | 269 (9.500) |
| Gross volume l (cu ft): | 297 (10.489) |
| Internal width mm (inch): | 475 (18.70) |
| Internal depth mm (inch): | 470 (18.50) |
| Internal height mm (inch): | 1470 (57.87) |
| External width mm (inch): | 595 (23.43) |
| External depth mm (inch): | 695 (27.36) |
| External height mm (inch) [with recorder]: | 1670 (65.75) [1843 (72.56)] |
| Net weight with standard equipment kg (lbs): | 98 (216.05) |
| EMC directive: | 2014/30/EC |
| Low voltage directive: | 2014/35/EC |
| GS certificate: | no |
| Medical device directive: | 93/42/EEC, Class IIa |
| GMP-clean room classification: | class ISO6/EC GMP B |
| ATEX-categorie III, zone 2, interior: | no |

Subject to changes without prior notice !

Revision: 17.07.2018

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