

## 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%   |
| <b>Voltage V:</b>                              | <b>220-240</b>  |
| <b>Frequency Hz:</b>                           | <b>50/60</b>  |
| Fuse Amp:                                      | 8   |
| Power W:                                       | 100   |
| Running current A:                             | 1.0   |
| Energy consumption Kwh/24h:                    | 0.42 @50Hz / 0.44 @60Hz   |
| Heat ejection Kcal/h:                          | 12  |
| Running time %:                                | 32  |
| Noise level dB(A) (in 1m height +1m distance): | 35 @50Hz / 36 @60Hz   |
| Accu data / function time:                     | 12V -2.3 AH / 48 hours  |
| Defrosting technique:                          | natural   |
| Compressor manufacturer:                       | Secop   |
| Compressor type:                               | HTD30AG   |
| Cooling capacity W (ASHRAE):                   | 50  |
| Capillary tube, inner diam x length mm (inch): | 0.77 x 1700 ( 0.030 x 66.93 )                                     |
| Refrigerant type:                              | R600a   |
| Refrigerant quantity g (oz):                   | 14 ( 0.494 )  |
| 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 <sup>2</sup> xK at 20°C (68°F):    |   |
| Hold over time h at °C (°F):                   | 2.5 from +4 to +10°C ( from 39 to 50°F ), DIN58371 @20°C ( 68°F ) |
| Net volume l (cu ft):                          | 45 ( 1.589 )  |
| Gross volume l (cu ft):                        | 52 ( 1.836 )  |
| Internal width mm (inch):                      | 375 ( 14.76 )   |
| Internal depth mm (inch):                      | 350 ( 13.78 )   |
| Internal height mm (inch):                     | 470 ( 18.50 )   |
| External width mm (inch):                      | 495 ( 19.49 )   |
| External depth mm (inch):                      | 575 ( 22.64 )   |
| External height mm (inch) [with recorder]:     | 670 ( 26.38 ) [ 843 ( 33.19 ) ]                                   |
| Net weight with standard equipment kg (lbs):   | 39 ( 85.98 )  |
| EMC directive:                                 | 2014/30/EU  |
| Low voltage directive:                         | 2014/35/EU  |
| 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: 07.02.2019

## Measurement conditions:

Setpoint +4°C ( 39°F ) @ +25°C ( 77°F ) ambient temperature, unless otherwise stated  
All appliances without load

## 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%   |
| <b>Voltage V:</b>                              | <b>115-127</b>  |
| <b>Frequency Hz:</b>                           | <b>60</b>   |
| Fuse Amp:                                      | 8   |
| Power W:                                       | 100   |
| Running current A:                             | 1.0   |
| Energy consumption Kwh/24h:                    | 0.50  |
| Heat ejection Kcal/h:                          | 12  |
| Running time %:                                | 31  |
| Noise level dB(A) (in 1m height +1m distance): | 37  |
| Accu data / function time:                     | 12V -2.3 AH / 48 hours  |
| Defrosting technique:                          | natural   |
| Compressor manufacturer:                       | Secop   |
| Compressor type:                               | HTD30AE   |
| Cooling capacity W (ASHRAE):                   | 64  |
| Capillary tube, inner diam x length mm (inch): | 0.77 x 1700 ( 0.030 x 66.93 )                                     |
| Refrigerant type:                              | R600a   |
| Refrigerant quantity g (oz):                   | 14 ( 0.494 )  |
| 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 <sup>2</sup> xK at 20°C (68°F):    |   |
| Hold over time h at °C (°F):                   | 2.5 from +4 to +10°C ( from 39 to 50°F ), DIN58371 @20°C ( 68°F ) |
| Net volume l (cu ft):                          | 45 ( 1.589 )  |
| Gross volume l (cu ft):                        | 52 ( 1.836 )  |
| Internal width mm (inch):                      | 375 ( 14.76 )   |
| Internal depth mm (inch):                      | 350 ( 13.78 )   |
| Internal height mm (inch):                     | 470 ( 18.50 )   |
| External width mm (inch):                      | 495 ( 19.49 )   |
| External depth mm (inch):                      | 575 ( 22.64 )   |
| External height mm (inch) [with recorder]:     | 670 ( 26.38 ) [ 843 ( 33.19 ) ]                                   |
| Net weight with standard equipment kg (lbs):   | 38 ( 83.78 )  |
| 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  |

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## Measurement conditions:

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All appliances without load

## 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: | PP copolymer UV RAL9016    |
| Outer door material: | PP copolymer UV RAL9016    |
| Wire shelf material: | no wire shelf              |
| Drawer material:     | Polycarbonate, transparent |

## Equipment

|  |  |
|--|--|
| <i>Standard equipment inside:</i>              |  |
| 1 drawer with 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:                                       | No   |
| 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:                     | cardboard / -                                |

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