

## Single Pack BD35F 12/24V DC, 100-240V AC 50/60Hz PM

Single pack code number: **195B4550**

| Position | Title  | Code     | Amount |
|----------|--|----------|--------|
| 1        | Compressor BD35F                               | 101Z0204 | 1      |
| 2        | Electronic unit 12/24V DC, 100-240V AC 50/60Hz | 101N0511 | 1      |
| 3        | Bolt joint for one compressor   M6   ø16mm     | 118-1917 | 1      |

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## BD35F Direct Current Compressor R134a, R1234yf, 12/24V DC, 10-45V DC Solar & 100-240V AC 50/60Hz



### General

|   |                            |
|---|----------------------------|
| Code number (without electronic units)          | 101Z0204                   |
| Electronic unit 12/24V DC - Standard            | 101N0242, 30 pcs: 101N0243 |
| Electronic unit 12/24V DC - AEO                 | 101N0340, 30 pcs: 101N0341 |
| Electronic unit 10-45V DC - Solar               | 101N0420, 30 pcs: 101N0421 |
| Electronic unit 12/24V DC & 100-240V AC 50/60Hz | 101N0510, 28 pcs: 101N0511 |
| Electronic unit 12/24V DC - Automotive          | 101N0680, 30 pcs: 101N0681 |
| Compressors on pallet                           | 150                        |

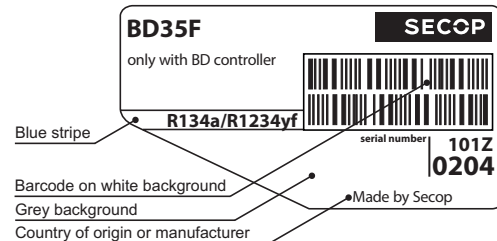
### Approvals

| R134a | R134a/R1234yf |
|-------|---------------|
| –     | –             |
| VDE   | UL            |
| VDE   | –             |
| VDE   | UL            |
| –     | UL / CB       |



### Application

|  |                            |
|--|----------------------------|
| Application                                    | LBP/MBP/HBP                |
| Evaporating temperature                        | °F -20 to 50               |
| Voltage range DC                               | VDC 9.6 - 17 / 21.3 - 31.5 |
| Voltage range AC                               | V/Hz 100 - 240 / 50 - 60   |
| Voltage range for solar applications           | VDC 10 - 45                |
| Max. condensing temperature continuous (short) | °F 140 (158)               |
| Max. winding temperature continuous (short)    | °F 257 (275)               |



### Cooling requirements

| Application | LBP | MBP | HBP |
|-------------|-----|-----|-----|
| 32°C        | S   | S   | S   |
| 38°C        | S   | S   | S   |
| 43°C        | S   | S   | S   |

Remarks on application: Fan cooling F<sub>1</sub> depending on application and speed.

- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area

### Motor

|                                   |                |
|-----------------------------------|----------------|
| Motor type                        | variable speed |
| Resistance, all 3 windings (25°C) | Ω 2.2          |

### Design

|                                     |        |                       |
|-------------------------------------|--------|-----------------------|
| Displacement                        | cu.in. | 0.12                  |
| Oil quantity (type)                 | fl.oz. | 5.1 (polyolester)     |
| Maximum refrigerant charge          | oz.    | 10.5                  |
| Free gas volume in compressor       | fl.oz. | 29.6                  |
| Weight - Compressor/Electronic unit | lbs.   | 9.5 / 0.42 (Standard) |

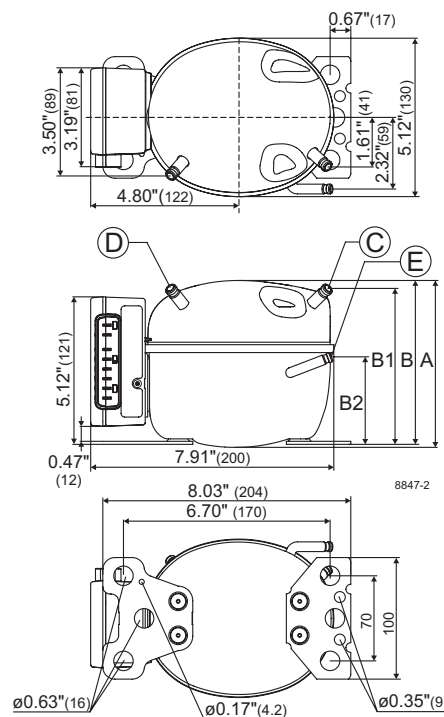
### Standard battery protection settings (refer to electronic unit Instructions for optional settings)

|         |          |      |
|---------|----------|------|
| Voltage | 12V      | 24V  |
| Cut out | VDC 10.4 | 22.8 |
| Cut in  | VDC 11.7 | 24.2 |

### Dimensions

|                     |                            |    |                          |
|---------------------|----------------------------|----|--------------------------|
| Height              | inch                       | A  | 5.39                     |
|                     |                            | B  | 5.32                     |
|                     |                            | B1 | 5.04                     |
|                     |                            | B2 | 2.87                     |
| Suction connector   | location/I.D. inch   angle | C  | 0.252-0259   40°         |
|                     | material   comment         |    | Cu-plated steel   Al cap |
| Process connector   | location/I.D. inch   angle | D  | 0.252-0259   45°         |
|                     | material   comment         |    | Cu-plated steel   Al cap |
| Discharge connector | location/I.D. inch   angle | E  | 0.202-0.205   21°        |
|                     | material   comment         |    | Cu-plated steel   Al cap |

Remarks: **inch connectors**



# Performance Data with Refrigerant R134a

| Capacity (ASHRAE LBP) |      | 12V DC, static cooling |     |     |     |     |     |     |     |     |     | BTU/h |
|-----------------------|------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| rpm \ °F              | -20  | -13                    | -10 | 0   | 10  | 14  | 20  | 30  | 40  | 41  | 45  | 50    |
| 2,000                 | 75.2 | 101                    | 114 | 160 | 215 | 241 | 283 | 364 | 462 | 472 | 517 | 577   |
| 2,500                 | 90.9 | 128                    | 144 | 203 | 272 | 303 | 354 | 455 | 577 | 591 | 649 |       |
| 3,000                 | 105  | 141                    | 158 | 226 | 311 | 350 | 415 | 539 |     |     |     |       |
| 3,500                 | 122  | 154                    | 172 | 249 | 352 | 400 | 479 | 626 |     |     |     |       |

| Capacity (EN 12900 Household/CECOMAF) |      | 12V DC, static cooling |      |      |      |      |      |      |     |     |     | watt |
|---------------------------------------|------|------------------------|------|------|------|------|------|------|-----|-----|-----|------|
| rpm \ °F                              | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40  | 41  | 45  | 50   |
| 2,000                                 | 17.7 | 23.8                   | 26.7 | 37.4 | 50.5 | 56.5 | 66.4 | 85.5 | 108 | 111 | 121 | 136  |
| 2,500                                 | 21.3 | 29.9                   | 33.8 | 47.6 | 63.8 | 71.1 | 83.2 | 107  | 136 | 139 | 152 |      |
| 3,000                                 | 24.5 | 32.9                   | 37.0 | 53.0 | 73.0 | 82.2 | 97.4 | 127  |     |     |     |      |
| 3,500                                 | 28.5 | 35.9                   | 40.1 | 58.4 | 82.6 | 93.9 | 112  | 147  |     |     |     |      |

| Power consumption |      | 12V DC, static cooling |      |      |      |      |      |      |      |      |      | watt |
|-------------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|
| rpm \ °F          | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50   |
| 2,000             | 19.0 | 22.9                   | 24.5 | 29.6 | 34.6 | 36.5 | 39.5 | 44.8 | 50.7 | 51.4 | 54.0 | 57.5 |
| 2,500             | 23.9 | 29.7                   | 31.9 | 39.0 | 45.4 | 47.9 | 51.6 | 58.0 | 65.0 | 65.7 | 68.8 |      |
| 3,000             | 30.4 | 34.6                   | 36.6 | 44.3 | 52.8 | 56.3 | 61.5 | 70.0 |      |      |      |      |
| 3,500             | 36.0 | 41.3                   | 43.7 | 52.5 | 62.0 | 65.9 | 72.0 | 82.2 |      |      |      |      |

| Current consumption (for 24V applications the following must be halved) |      |      |      |      |      |      |      |      |      |      |      | A    |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| rpm \ °F  | -20  | -13  | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50   |
| 2,000   | 1.51 | 1.87 | 2.02 | 2.47 | 2.89 | 3.05 | 3.30 | 3.73 | 4.20 | 4.25 | 4.46 | 4.74 |
| 2,500   | 1.99 | 2.47 | 2.66 | 3.25 | 3.79 | 4.00 | 4.31 | 4.84 | 5.42 | 5.48 | 5.74 |      |
| 3,000   | 2.49 | 2.88 | 3.05 | 3.70 | 4.39 | 4.67 | 5.10 | 5.81 |      |      |      |      |
| 3,500   | 2.99 | 3.42 | 3.63 | 4.36 | 5.15 | 5.48 | 5.99 | 6.85 |      |      |      |      |

| EER (ASHRAE LBP) |      | 12V DC, static cooling |      |      |      |      |      |      |      |      |      | BTU/Wh |
|------------------|------|------------------------|------|------|------|------|------|------|------|------|------|--------|
| rpm \ °F         | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50     |
| 2,000            | 3.97 | 4.42                   | 4.63 | 5.38 | 6.23 | 6.59 | 7.15 | 8.12 | 9.10 | 9.20 | 9.58 | 10.05  |
| 2,500            | 3.80 | 4.31                   | 4.51 | 5.21 | 5.98 | 6.32 | 6.86 | 7.84 | 8.89 | 9.00 | 9.43 |        |
| 3,000            | 3.45 | 4.06                   | 4.31 | 5.11 | 5.89 | 6.22 | 6.74 | 7.70 |      |      |      |        |
| 3,500            | 3.39 | 3.73                   | 3.93 | 4.75 | 5.68 | 6.07 | 6.65 | 7.62 |      |      |      |        |

| COP (EN 12900 Household/CECOMAF) |      | 12V DC, static cooling |      |      |      |      |      |      |      |      |      | W/W  |
|----------------------------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|
| rpm \ °F                         | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50   |
| 2,000                            | 0.93 | 1.04                   | 1.09 | 1.26 | 1.46 | 1.54 | 1.67 | 1.90 | 2.13 | 2.15 | 2.24 | 2.35 |
| 2,500                            | 0.89 | 1.01                   | 1.06 | 1.22 | 1.40 | 1.48 | 1.60 | 1.83 | 2.08 | 2.10 |      |      |
| 3,000                            | 0.81 | 0.95                   | 1.01 | 1.19 | 1.38 | 1.45 | 1.58 | 1.80 |      |      |      |      |
| 3,500                            | 0.79 | 0.87                   | 0.92 | 1.11 | 1.33 | 1.42 | 1.55 | 1.78 |      |      |      |      |

| Test conditions with electronic units |                      | EN 12900/CECOMAF | ASHRAE LBP |
|---------------------------------------|----------------------|------------------|------------|
| Condensing temperature                | 101N0242<br>101N0680 | 131°F            | 130°F      |
| Ambient temperature                   |                      | 90°F             | 90°F       |
| Suction gas temperature               |                      | 90°F             | 90°F       |
| Liquid temperature                    |                      | no subcooling    | 90°F       |

| Accessories for BD35F      |   | Code number                |
|----------------------------|---|----------------------------|
| Bolt joint for one comp.   | Ø: 5/8 in.  | 118-1917                   |
| Bolt joint in quantities   | Ø: 5/8 in.  | 118-1918                   |
| Snap-on in quantities      | Ø: 5/8 in.  | 118-1919                   |
| Remote kit (without cable) |   | 105N9210                   |
| Secop Gateway              |   | 105N9518                   |
| DC usage:                  | Automobile fuse, DIN 7258 12V: 15A   24V: 7.5 A<br>Main switch min. 20A | Not deliverable from Secop |
| AC usage:                  | Fuse, 100-240V<br>Main switch min. 6A                                   |                            |

## Compressor speed

| Electronit unit | Resistor (R1) [Ω] | Motor speed |
|-----------------|-------------------|-------------|
| Code number     | calculated values | [rpm]       |
|                 | 0                 | 2,000       |
|                 | 277               | 2,500       |
| 101N0242        | 692               | 3,000       |
| 101N0510        | 1523              | 3,500       |
| 101N0680        | 0                 | AEO         |
| 101N0340        | 173               | 2,000       |
| 101N0420        | 450               | 2,500       |
| with AEO        | 865               | 3,000       |
|                 | 1696              | 3,500       |

In AEO (Adaptive Energy Optimizing) speed mode the BD compressor will always adapt its speed to the actual cooling demand.

## Wire dimensions DC

| Cross section | Size |       | Max. length* 12V operation |       | Max. length* 24V operation |       |
|---------------|------|-------|----------------------------|-------|----------------------------|-------|
|               | AWG  | [mm²] | [m]                        | [ft.] | [m]                        | [ft.] |
| 2.5           | 12   | 2.5   | 8                          | 5     | 16                         |       |
| 4             | 12   | 4     | 13                         | 8     | 26                         |       |
| 6             | 10   | 6     | 20                         | 12    | 39                         |       |
| 10            | 8    | 10    | 33                         | 20    | 66                         |       |

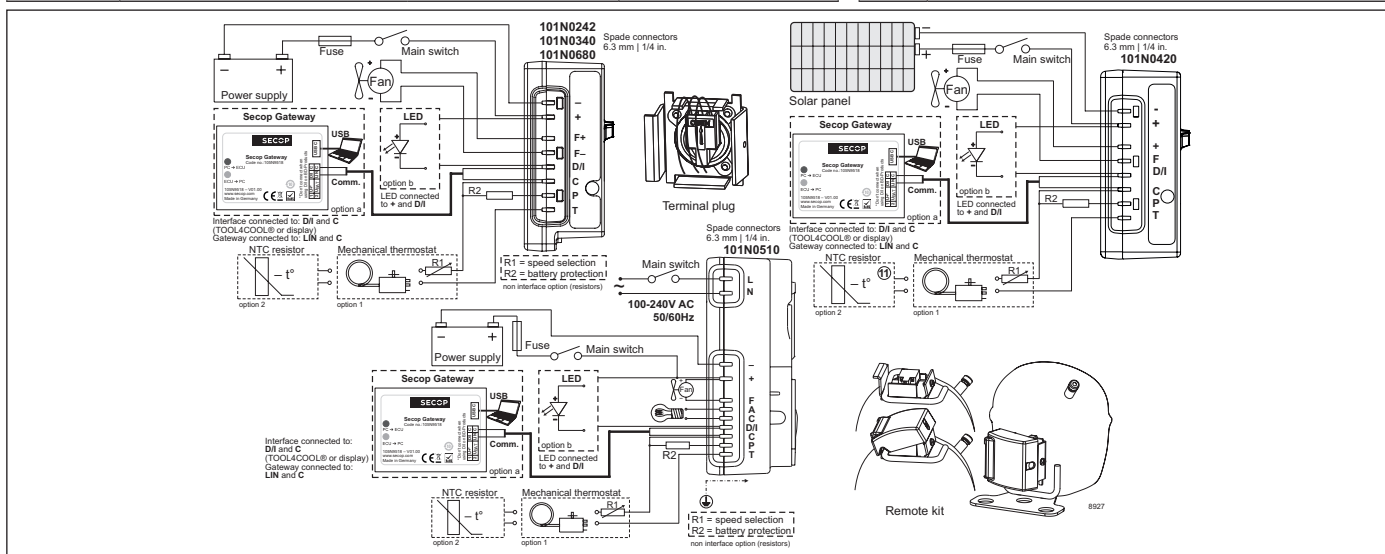
\*Length between battery and electronic unit

## Wire dimensions AC

Cross section min. 0.75 mm² or AWG 18

## Operational errors

| Error code or LED flashes | Error type   |
|---------------------------|--|
|                           | Can be read out in the software <b>TOOL4COOL®</b>  |
| 6                         | <b>Thermostat failure</b><br>(If the NTC thermistor is short-circuit or has no connection).  |
| 5                         | <b>Thermal cut-out of electronic unit</b><br>(If the refrigeration system has been too heavily loaded, or if the ambient temperature is high, the electronic unit will run too hot). |
| 4                         | <b>Minimum motor speed error</b><br>(If the refrigeration system is too heavily loaded, the motor cannot maintain minimum speed at approximately 1,850 rpm).                         |
| 3                         | <b>Motor start error</b><br>(The rotor is blocked or the differential pressure in the refrigeration system is too high (>5 bar)).  |
| 2                         | <b>Too many start attempts or fan over current</b><br>(Too many compressor or fan starts in short time or fan current higher than 0.5A <sub>avg</sub> ).                             |
| 1                         | <b>Battery protection cut-out</b><br>(The voltage is outside the cut-out setting).   |



# Performance Data with Refrigerant R1234yf

| Capacity (ASHRAE LBP) |      | 12V DC, static cooling |     |     |     |     |     |     |     |     |     | BTU/h |
|-----------------------|------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| rpm \ °F              | -20  | -13                    | -10 | 0   | 10  | 14  | 20  | 30  | 40  | 41  | 45  | 50    |
| 2,000                 | 82.5 | 110                    | 123 | 172 | 230 | 256 | 297 | 374 | 459 | 469 | 506 | 555   |
| 2,500                 | 92.4 | 131                    | 150 | 216 | 293 | 326 | 379 | 475 | 579 | 590 | 635 |       |
| 3,000                 | 123  | 158                    | 175 | 241 | 322 | 359 | 420 | 538 |     |     |     |       |
| 3,500                 | 142  | 175                    | 193 | 266 | 362 | 406 | 478 | 616 |     |     |     |       |

| Capacity (EN 12900 Household/CECOMAF) |      | 12V DC, static cooling |      |      |      |      |      |      |     |     |     | watt |
|---------------------------------------|------|------------------------|------|------|------|------|------|------|-----|-----|-----|------|
| rpm \ °F                              | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40  | 41  | 45  | 50   |
| 2,000                                 | 18.6 | 24.8                   | 27.8 | 38.8 | 51.9 | 57.7 | 67.0 | 84.1 | 103 | 105 | 114 | 125  |
| 2,500                                 | 20.8 | 29.6                   | 33.8 | 48.9 | 66.2 | 73.7 | 85.6 | 107  | 131 | 133 | 143 |      |
| 3,000                                 | 27.5 | 35.3                   | 39.2 | 53.9 | 72.1 | 80.5 | 94.3 | 121  |     |     |     |      |
| 3,500                                 | 31.9 | 39.3                   | 43.3 | 59.7 | 81.1 | 91.0 | 107  | 138  |     |     |     |      |

| Power consumption |      | 12V DC, static cooling |      |      |      |      |      |      |      |      |      | watt |
|-------------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|
| rpm \ °F          | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50   |
| 2,000             | 19.0 | 22.9                   | 24.5 | 29.6 | 34.6 | 36.5 | 39.5 | 44.8 | 50.7 | 51.4 | 54.0 | 57.5 |
| 2,500             | 23.9 | 29.7                   | 31.9 | 39.0 | 45.4 | 47.9 | 51.6 | 58.0 | 65.0 | 65.7 | 68.8 |      |
| 3,000             | 30.4 | 34.6                   | 36.6 | 44.3 | 52.8 | 56.3 | 61.5 | 70.0 |      |      |      |      |
| 3,500             | 36.0 | 41.3                   | 43.7 | 52.5 | 62.0 | 65.9 | 72.0 | 82.2 |      |      |      |      |

| Current consumption (for 24V applications the following must be halved) |      |      |      |      |      |      |      |      |      |      |      | A    |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| rpm \ °F  | -20  | -13  | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50   |
| 2,000   | 1.51 | 1.87 | 2.02 | 2.47 | 2.89 | 3.05 | 3.30 | 3.73 | 4.20 | 4.25 | 4.46 | 4.74 |
| 2,500   | 1.99 | 2.47 | 2.66 | 3.25 | 3.79 | 4.00 | 4.31 | 4.84 | 5.42 | 5.48 | 5.74 |      |
| 3,000   | 2.49 | 2.88 | 3.05 | 3.70 | 4.39 | 4.67 | 5.10 | 5.81 |      |      |      |      |
| 3,500   | 2.99 | 3.42 | 3.63 | 4.36 | 5.15 | 5.48 | 5.99 | 6.85 |      |      |      |      |

| EER (ASHRAE LBP) |      | 12V DC, static cooling |      |      |      |      |      |      |      |      |      | BTU/Wh |
|------------------|------|------------------------|------|------|------|------|------|------|------|------|------|--------|
| rpm \ °F         | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50     |
| 2,000            | 4.06 | 4.57                   | 4.80 | 5.59 | 6.43 | 6.77 | 7.29 | 8.16 | 9.04 | 9.12 | 9.47 | 9.90   |
| 2,500            | 3.59 | 4.19                   | 4.44 | 5.28 | 6.14 | 6.49 | 7.02 | 7.93 | 8.84 | 8.94 | 9.31 |        |
| 3,000            | 3.68 | 4.27                   | 4.51 | 5.25 | 5.98 | 6.29 | 6.77 | 7.68 |      |      |      |        |
| 3,500            | 3.55 | 3.91                   | 4.10 | 4.83 | 5.66 | 6.01 | 6.55 | 7.48 |      |      |      |        |

| COP (EN 12900 Household/CECOMAF) |      | 12V DC, static cooling |      |      |      |      |      |      |      |      |      | W/W  |
|----------------------------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|
| rpm \ °F                         | -20  | -13                    | -10  | 0    | 10   | 14   | 20   | 30   | 40   | 41   | 45   | 50   |
| 2,000                            | 0.91 | 1.03                   | 1.08 | 1.26 | 1.44 | 1.52 | 1.63 | 1.83 | 2.02 | 2.04 | 2.11 | 2.21 |
| 2,500                            | 0.81 | 0.94                   | 1.00 | 1.19 | 1.38 | 1.46 | 1.58 | 1.78 | 1.98 | 2.00 |      |      |
| 3,000                            | 0.82 | 0.95                   | 1.01 | 1.17 | 1.34 | 1.40 | 1.51 | 1.72 |      |      |      |      |
| 3,500                            | 0.80 | 0.88                   | 0.92 | 1.08 | 1.26 | 1.34 | 1.46 | 1.67 |      |      |      |      |

| Test conditions with electronic units |                      | EN 12900/CECOMAF | ASHRAE LBP |
|---------------------------------------|----------------------|------------------|------------|
| Condensing temperature                | 101N0242<br>101N0680 | 131°F            | 130°F      |
| Ambient temperature                   |                      | 90°F             | 90°F       |
| Suction gas temperature               |                      | 90°F             | 90°F       |
| Liquid temperature                    |                      | no subcooling    | 90°F       |

| Accessories for BD35F      |   | Code number                |
|----------------------------|---|----------------------------|
| Bolt joint for one comp.   | Ø: 5/8 in.  | 118-1917                   |
| Bolt joint in quantities   | Ø: 5/8 in.  | 118-1918                   |
| Snap-on in quantities      | Ø: 5/8 in.  | 118-1919                   |
| Remote kit (without cable) |   | 105N9210                   |
| Secop Gateway              |   | 105N9518                   |
| DC usage:                  | Automobile fuse, DIN 7258 12V: 15A   24V: 7.5 A<br>Main switch min. 20A | Not deliverable from Secop |
| AC usage:                  | Fuse, 100-240V<br>Main switch min. 6A                                   |                            |

## Compressor speed

| Electronit unit                  | Resistor (R1) [Ω] | Motor speed |
|----------------------------------|-------------------|-------------|
| Code number                      | calculated values | [rpm]       |
| 101N0242<br>101N0510<br>101N0680 | 0                 | 2,000       |
|                                  | 277               | 2,500       |
|                                  | 692               | 3,000       |
| 101N0340<br>101N0420<br>with AEO | 1523              | 3,500       |
|                                  | 0                 | AEO         |
|                                  | 173               | 2,000       |
|                                  | 450               | 2,500       |
|                                  | 865               | 3,000       |
|                                  | 1696              | 3,500       |

In AEO (Adaptive Energy Optimizing) speed mode the BD compressor will always adapt its speed to the actual cooling demand.

## Wire dimensions DC

| Cross section | Size |       | Max. length* 12V operation |       | Max. length* 24V operation |       |
|---------------|------|-------|----------------------------|-------|----------------------------|-------|
|               | AWG  | [mm²] | [m]                        | [ft.] | [m]                        | [ft.] |
| 2.5           | 12   |       | 2.5                        | 8     | 5                          | 16    |
| 4             | 12   |       | 4                          | 13    | 8                          | 26    |
| 6             | 10   |       | 6                          | 20    | 12                         | 39    |
| 10            | 8    |       | 10                         | 33    | 20                         | 66    |

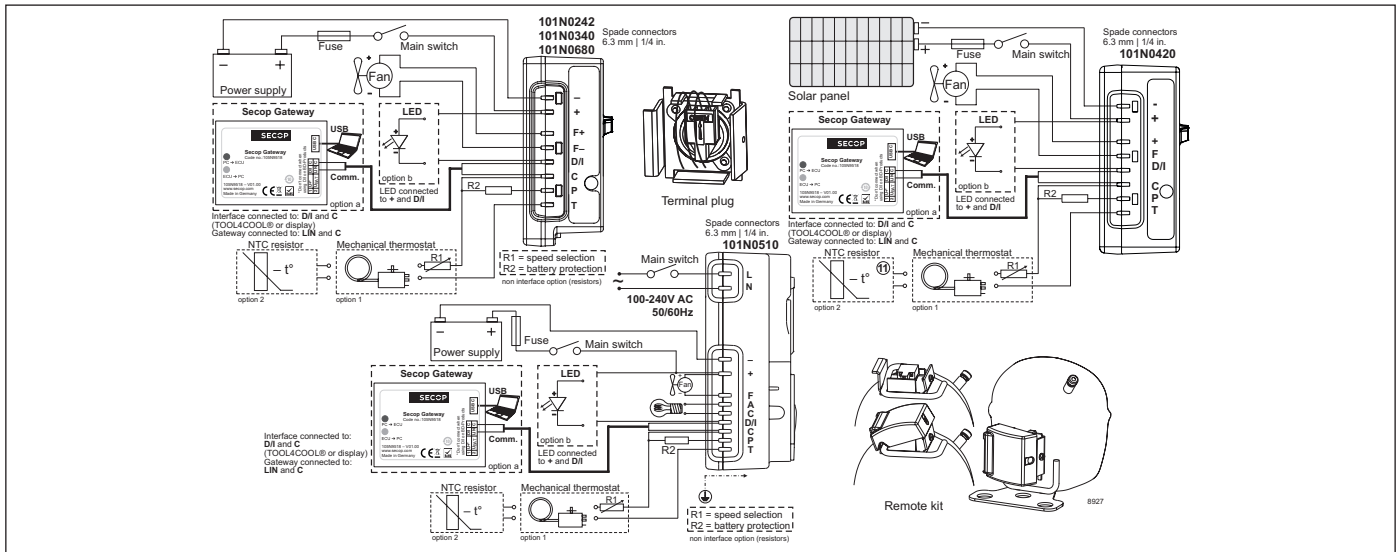
\*Length between battery and electronic unit

## Wire dimensions AC

Cross section min. 0.75 mm² or AWG 18

## Operational errors

| Error code or LED flashes | Error type   |
|---------------------------|--|
|                           | Can be read out in the software <b>TOOL4COOL®</b>  |
| 6                         | <b>Thermostat failure</b><br>(If the NTC thermistor is short-circuit or has no connection).  |
| 5                         | <b>Thermal cut-out of electronic unit</b><br>(If the refrigeration system has been too heavily loaded, or if the ambient temperature is high, the electronic unit will run too hot). |
| 4                         | <b>Minimum motor speed error</b><br>(If the refrigeration system is too heavily loaded, the motor cannot maintain minimum speed at approximately 1,850 rpm).                         |
| 3                         | <b>Motor start error</b><br>(The rotor is blocked or the differential pressure in the refrigeration system is too high (>5 bar)).  |
| 2                         | <b>Too many start attempts or fan over current</b><br>(Too many compressor or fan starts in short time or fan current higher than 0.5A <sub>avg</sub> ).                             |
| 1                         | <b>Battery protection cut-out</b><br>(The voltage is outside the cut-out setting).   |



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Instructions for Electronic Units  
are available for download on  
[www.secop.com](http://www.secop.com)



# BD Compressors



## Service/Repair



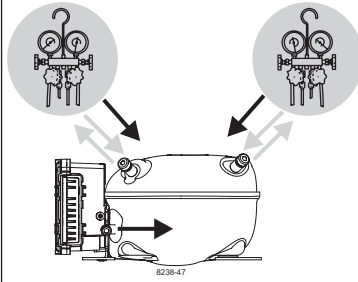
### BD Nano



**! max. 150°C/302°F !  
at socket**  
brazing solder: silver with flux

Do not heat up the bottom of the discharge connector directly.  
Do not braze longer than 10 seconds and wait for 5 minutes for the next soldering attempt (Product Bulletin DES.N.101.M1).

### BD Micro



### BD P-Housing



### BD T-Housing



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