

SC18/18CL LBP/MBP Twin Compressor R404A/R507 220-240V 50Hz

General

| | |
|-----------------------|---------------|
| Code number | 104L4090 |
| Approvals | EN 60335-2-34 |
| Compressors on pallet | 18 |

Application

| Application | LBP/MBP | | |
|--|---------|-----------|----|
| Frequency | Hz | 50 | 60 |
| Evaporating temperature | °C | -45 to -5 | - |
| Voltage range | V | 198 - 254 | - |
| Max. condensing temperature continuous (short) | °C | 55 (60) | - |
| Max. winding temperature continuous (short) | °C | 125 (135) | - |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|-------------------------|----|----------------|----------------|-----|-----|-----|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C | | F ₂ | F ₂ | - | - | - | - |
| 38°C | | F ₂ | F ₂ | - | - | - | - |
| 43°C | | - | - | - | - | - | - |
| Remarks on application: | | | | | | | |

Motor

| Motor type | CSR | | |
|---|-----|----------|------|
| LRA (rated after 4 sec. UL984) *, HST LST | A | 2 x 20.0 | - |
| Cut in Current *, HST LST | A | 2 x 20.0 | - |
| Resistance, main start winding (25°C) | Ω | 3.7 | 14.1 |

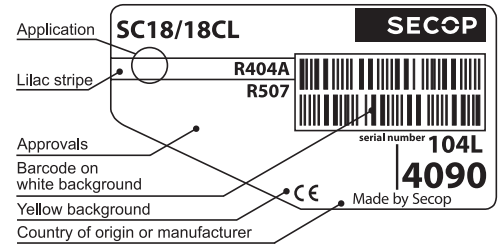
* Operational current for the second compressor time-delayed.

Design

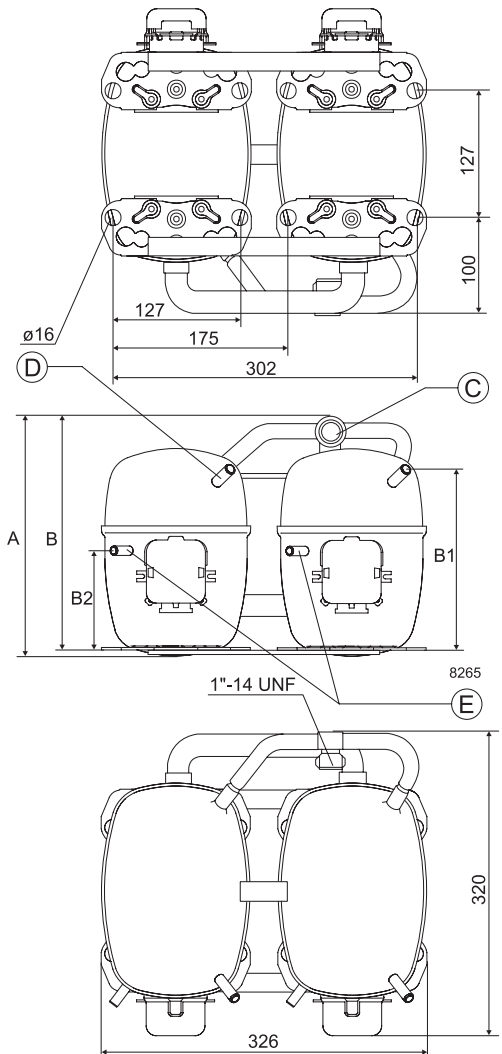
| | | |
|-------------------------------------|-----------------|--------------------|
| Displacement | cm ³ | 2 x 17.69 |
| Oil quantity (type) | cm ³ | 1220 (polyolester) |
| Maximum refrigerant charge | g | 2200 |
| Free gas volume in compressor | cm ³ | 2920 |
| Weight without electrical equipment | kg | 29.1 |

Dimensions

| Height | mm | A | 259 |
|--------------------------------------|--------------------------|----|----------------------|
| | | B | 254 |
| | | B1 | 193 |
| | | B2 | 110 |
| Suction connector (service valve) | location/I.D. mm | C | 16 37° |
| Suction connector (solder connector) | location/I.D. mm | C | 16 37° |
| Process connector | location/I.D. mm angle | D | 6.2 37° |
| | material comment | | Copper Rubber plug |
| Discharge connector | location/I.D. mm angle | E | 6.2 37° |
| | material comment | | Copper Rubber plug |
| Oil cooler connector | location/I.D. mm angle | F | - |
| | material comment | | - |
| Connector tolerance | I.D. mm | | ±0.09 |
| Remarks: | | | |



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



EN 12900 Household (CECOMAF)

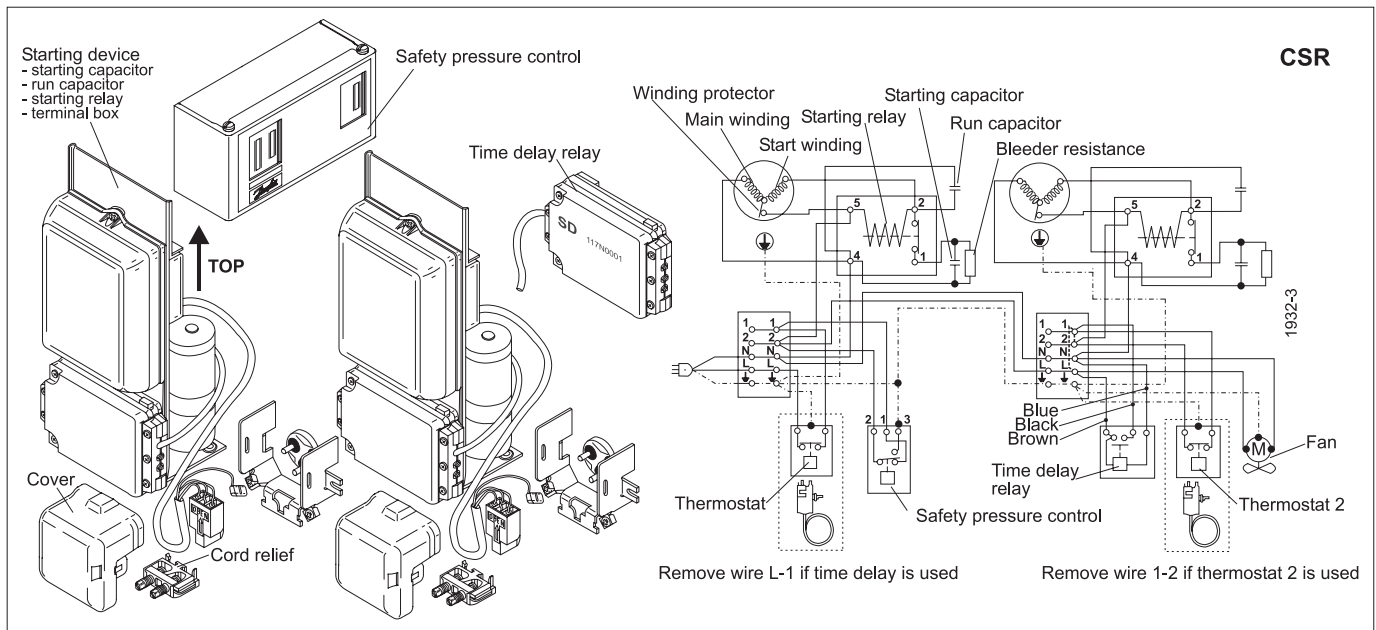
220V, 50Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|-------|------|------|------|-------|-------|---|---|-----|----|----|----|
| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
| Capacity in W | 333 | 541 | 789 | 1083 | 1430 | 1562 | 1836 | 2307 | 2849 | 3249 | 3469 | | | | | | |
| Power cons. in W | 587 | 752 | 910 | 1068 | 1230 | 1286 | 1400 | 1585 | 1788 | 1935 | 2015 | | | | | | |
| Current cons. in A | 5.22 | 5.59 | 6.04 | 6.58 | 7.21 | 7.44 | 7.92 | 8.72 | 9.61 | 10.24 | 10.58 | | | | | | |
| COP in W/W | 0.57 | 0.72 | 0.87 | 1.01 | 1.16 | 1.21 | 1.31 | 1.46 | 1.59 | 1.68 | 1.72 | | | | | | |

ASHRAE LBP

220V, 50Hz, fan cooling F₂

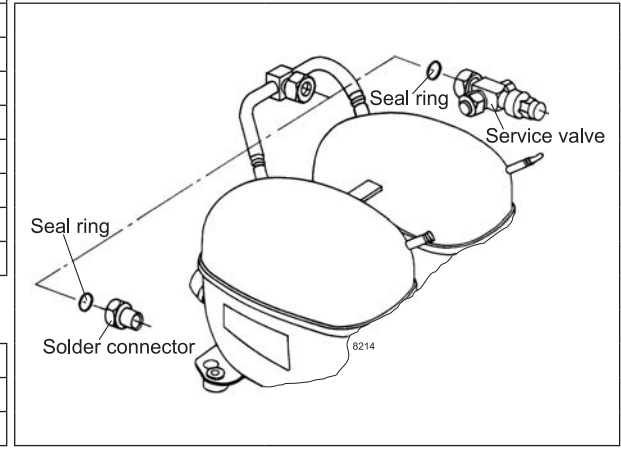
| | | | | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|-------|------|------|------|-------|-------|---|---|-----|----|----|----|
| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
| Capacity in W | 386 | 627 | 915 | 1256 | 1660 | 1813 | 2133 | 2683 | 3317 | 3769 | 4043 | | | | | | |
| Power cons. in W | 587 | 752 | 910 | 1068 | 1230 | 1286 | 1400 | 1585 | 1788 | 1935 | 2015 | | | | | | |
| Current cons. in A | 5.22 | 5.59 | 6.04 | 6.58 | 7.21 | 7.44 | 7.92 | 8.72 | 9.61 | 10.24 | 10.58 | | | | | | |
| COP in W/W | 0.66 | 0.83 | 1.00 | 1.18 | 1.35 | 1.41 | 1.52 | 1.69 | 1.85 | 1.95 | 2.01 | | | | | | |



| Accessories | SC18/18CL | pcs. | Code number |
|--|-------------------------|------|-------------|
| Starting device | 550 mm cable length | 2 | 117-7027 |
| | 650 mm cable length | | 117-7046 |
| | 1000 mm cable length | | 117-7040 |
| Starting relay | 6.3 mm spade connectors | 2 | - |
| Start. capacitor 80 µF | 6.3 mm spade connectors | 2 | - |
| Cover | | 2 | 103N2009 |
| Cord relief | | 2 | 103N1004 |
| Time-delay relay | | 1 | 117N0001 |
| Check valve (to be used with time-delay relay) | | 2 | 020-1014 |
| Service valve | 12 mm | 1 | - |
| Solder connector (alternative) | 12 mm | 1 | - |
| Service valve | 16 mm | 1 | 118-7351 |
| Solder connector (alternative) | 16 mm | 1 | 118-7405 |
| Seal ring for service valve and solder connector | | 1 | 118-3638 |

| Test conditions | EN 12900/CECOMAF | ASHRAE LBP |
|-------------------------|------------------|------------|
| Condensing temperature | 45°C | 45°C |
| Ambient temperature | 32°C | 32°C |
| Suction gas temperature | 32°C | 32°C |
| Liquid temperature | no subcooling | 32°C |

| Mounting accessories | | pcs. | Code number |
|-------------------------------|----------|------|-------------|
| Bolt joint for one compressor | Ø: 16 mm | 2 | 118-1917 |
| Bolt joint in quantities | Ø: 16 mm | 2 | 118-1918 |



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