

Single Pack FR10G 220-240V 50/60Hz RSIR

Codice Imballo Singolo: **195B4505**

| Posizione | Titolo | Codice | Quantità |
|-----------|--|----------|----------|
| 1 | Compressor FR10G | 103G6890 | 1 |
| 2 | PTC starting device (220V, 250hm, 4.8mm) | 103N0021 | 1 |
| 3 | Protection screen for PTC | 103N0476 | 1 |
| 4 | Cord relief | 103N1010 | 1 |
| 5 | Cover | 103N2010 | 1 |
| 6 | Bolt joint for one compressor M6 ø16mm | 118-1917 | 1 |

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FR10G Universal Compressor R134a 220-240V 50/60Hz

General

| | |
|-----------------------|--------------------|
| Code number | 103G6890 |
| Approvals | EN 60335-2-34, CCC |
| Compressors on pallet | 80 |

Application

| Application | LBP/HBP | LBP |
|--|--------------|------------|
| Frequency | Hz 50 | 60 |
| Evaporating temperature | °C -30 to 10 | -30 to -10 |
| Voltage range | V 187 - 254 | 198 - 254 |
| Max. condensing temperature continuous (short) | °C 60 (70) | 60 (70) |
| Max. winding temperature continuous (short) | °C 125 (135) | 125 (135) |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|--|----|-----|----------------|----------------|-----|-----|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C | | S | F ₂ | F ₂ | S | - | - |
| 38°C | | S | F ₂ | F ₂ | S | - | - |
| 43°C | | O | F ₂ | F ₂ | O | - | - |
| Remarks on application: HBP at 198 - 254V 50Hz only. | | | | | | | |

Motor

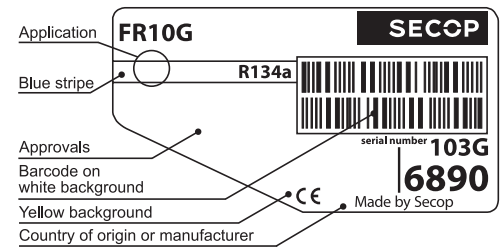
| Motor type | | RSIR/CSIR | |
|---|---|-----------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | 10.0 | 10.3 |
| Cut in Current, HST LST | A | 10.0 | 15.0 |
| Resistance, main start winding (25°C) | Ω | 7.3 | 12.0 |

Design

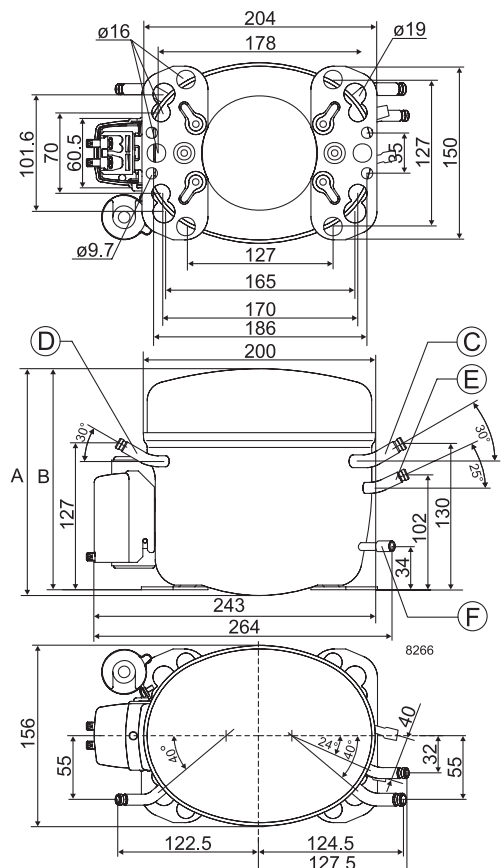
| | | |
|-------------------------------------|-----------------|-------------------|
| Displacement | cm ³ | 9.05 |
| Oil quantity (type) | cm ³ | 450 (polyolester) |
| Maximum refrigerant charge | g | 900 |
| Free gas volume in compressor | cm ³ | 1350 |
| Weight without electrical equipment | kg | 10.6 |

Dimensions

| | | | |
|----------------------|--------------------------|----|--------------------------|
| Height | mm | A | 196 |
| | | B | 191 |
| | | B1 | - |
| | | B2 | - |
| Suction connector | location/I.D. mm angle | C | 8.2 30° |
| | material comment | | Cu-plated steel Al cap |
| Process connector | location/I.D. mm angle | D | 6.2 30° |
| | material comment | | Cu-plated steel Al cap |
| Discharge connector | location/I.D. mm angle | E | 6.2 25° |
| | material comment | | Cu-plated steel Al cap |
| Oil cooler connector | location/I.D. mm angle | F | 6.2 25° |
| | material comment | | Cu-plated steel Al cap |
| 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 | | | | 91.9 | 136 | 152 | 188 | 250 | 324 | 380 | 412 | 516 | 638 | 697 | 779 | | |
| Power cons. in W | | | | 155 | 179 | 188 | 205 | 234 | 265 | 286 | 296 | 329 | 362 | 376 | 394 | | |
| Current cons. in A | | | | 1.51 | 1.58 | 1.61 | 1.66 | 1.75 | 1.84 | 1.91 | 1.94 | 2.05 | 2.16 | 2.21 | 2.28 | | |
| COP in W/W | | | | 0.59 | 0.76 | 0.81 | 0.91 | 1.07 | 1.22 | 1.33 | 1.39 | 1.57 | 1.76 | 1.85 | 1.98 | | |

EN 12900 Household (CECOMAF) 220V, 60Hz, 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 | | | | 98.8 | 153 | 173 | 217 | 292 | 381 | | | | | | | | |
| Power cons. in W | | | | 163 | 194 | 206 | 230 | 270 | 314 | | | | | | | | |
| Current cons. in A | | | | 1.32 | 1.44 | 1.48 | 1.57 | 1.73 | 1.90 | | | | | | | | |
| COP in W/W | | | | 0.61 | 0.79 | 0.84 | 0.94 | 1.08 | 1.21 | | | | | | | | |

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 | | | | 113 | 167 | 188 | 232 | 308 | 400 | 470 | 510 | 639 | 791 | 866 | 968 | | |
| Power cons. in W | | | | 155 | 179 | 188 | 205 | 234 | 265 | 286 | 296 | 329 | 362 | 376 | 394 | | |
| Current cons. in A | | | | 1.51 | 1.58 | 1.61 | 1.66 | 1.75 | 1.84 | 1.91 | 1.94 | 2.05 | 2.16 | 2.21 | 2.28 | | |
| COP in W/W | | | | 0.73 | 0.93 | 1.00 | 1.13 | 1.32 | 1.51 | 1.65 | 1.72 | 1.94 | 2.19 | 2.30 | 2.46 | | |

ASHRAE LBP 220V, 60Hz, 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 | | | | 122 | 188 | 214 | 267 | 361 | 471 | | | | | | | | |
| Power cons. in W | | | | 163 | 194 | 206 | 230 | 270 | 314 | | | | | | | | |
| Current cons. in A | | | | 1.32 | 1.44 | 1.48 | 1.57 | 1.73 | 1.90 | | | | | | | | |
| COP in W/W | | | | 0.75 | 0.97 | 1.04 | 1.16 | 1.34 | 1.50 | | | | | | | | |



| Accessories for | FR10G | Figure | Code number |
|---------------------------|-------------------------|--------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 | 103N0011 |
| | 4.8 mm spade connectors | | 103N0018 |
| Starting relay | 6.3 mm spade connectors | a2 | 117U6010 |
| Start. capacitor 80 µF | 6.3 mm spade connectors | c | 117U5015 |
| Cover | | b | 103N2010 |
| Cord relief | | d | 103N1010 |
| Protection screen for PTC | | g | 103N0476 |

| Test conditions | EN 12900/CECOMAF | ASHRAE |
|-------------------------|------------------|--------|
| Condensing temperature | 55°C | 55°C |
| Ambient temperature | 32°C | 32°C |
| Suction gas temperature | 32°C | 32°C |
| Liquid temperature | 55°C | 32°C |

| Mounting accessories | | Code number |
|--------------------------|----------|-------------|
| Bolt joint for one comp. | Ø: 16 mm | 118-1917 |
| Bolt joint in quantities | Ø: 16 mm | 118-1918 |
| Snap-on in quantities | Ø: 16 mm | 118-1919 |

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