

Model

Designation

CU SCE21MNX R290 230/1/50 CAP



Sales code:

314H4005

Engineering code: CUSCE21MNX0CE

Application Data

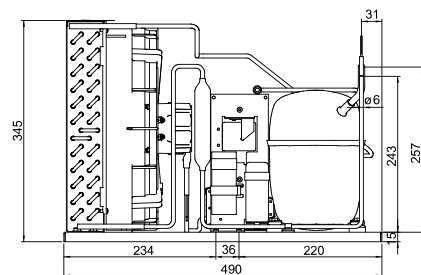
| | |
|----------------------------|---|
| Power supply | 220-240V / 50Hz 1~ |
| Refrigerants | R290 |
| Refr. charge - tech. limit | 550g / 19,4oz |
| Starter | HST / capillary tube or expansion valve |
| Sound pressure (10m) | 36,5dB(A) |

Generic data

| | |
|---------------------|---|
| Voltage range | 198 - 254V / 50Hz |
| Refrigerant | R290 |
| Application | MBP |
| Rated performance | <u>pe=-10°C, Tsuc=20°C, Tamb=25°C, subcooling: 2K</u> |
| Cooling capacity | 1683W / 5749Btu/h |
| Power consumption | 723,4W |
| Current consumption | 3,6A |
| COP/EER | 2,33 / 7,95Btu/Wh |
| Approvals | Eco design (EU) 2015/1095, CE, UK CA, VDE |

Compressor

| | |
|-------------------------|--------------------------------|
| Designation | SCE21MNX |
| Motor configuration | CSCR |
| Locked rotor amperage | 22,3A |
| Rated load amperage | 3,69A |
| Winding resistance main | 3,65Ω |
| Winding resistance aux | 14,16Ω |
| Oil quantity | 550cm ³ / 18,6fl.oz |
| Oil type | POE |
| Horsepower rating | 1 HP |



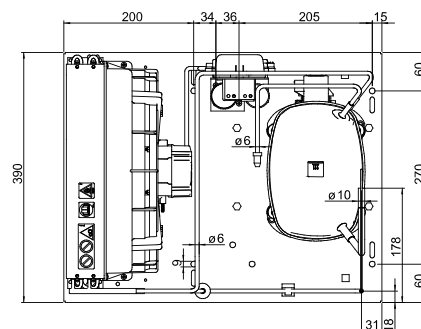
Dimensions

Condensing unit

| | |
|------------------------|--|
| Height x Width x Depth | 345 x 390 x 490 [mm] / 13,6 x 15,4 x 19,3 [in] |
| Weight | 22kg / 48,4lbs |
| Suction adapter | OD ø10mm / 2/5in |
| Discharge adapter | OD ø6mm / 1/4in |
| Process connector | ø6,2mm / 0,24in |

Package data

| | |
|------------------------|--|
| Height x Width x Depth | 380 x 450 x 540 [mm] / 15 x 17,7 x 21,3 [in] |
| Weight | 26kg / 57,2lbs |



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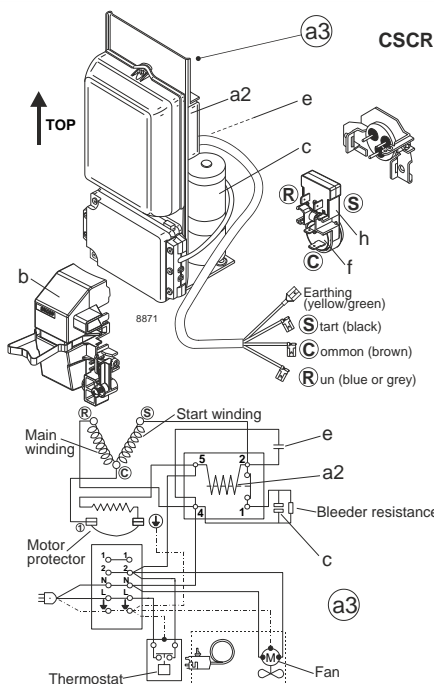
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Components Condensing-Unit / Spare Parts

| Component | Type | Spare part code number |
|--------------------|-------------------------------|------------------------|
| Compressor code | SCE21MNX | 104H8160 |
| Condenser | Condenser (4 rows x 13 tubes) | SP 314S0012 |
| Fan motor | | MP 314S0017 |
| Blade code | ø300mm 22° | SP 314S0029 |
| Air flow | 985,5m³/h | |
| Receiver code | not installed | -/- |
| Suction valve code | OD ø10mm / 2/5in | -/- |
| Liquid valve code | OD ø6mm / 1/4in | -/- |

| Compressor starting equipment | Spare part code number |
|---|------------------------|
| pos. a3 - SC starter kit | 117-7800 |
| pos. f / h - motor protector assy. (T 117U8000) | |
| pos. b - plastic cover | 117U1028 |

Wiring Sketch Compressor



Model

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Cooling performance - Conf. 1

| | | | |
|----------------------------|---|---------------|-------------------|
| Power supply | 220-240V / 50Hz 1~ | Voltage range | 198 - 254V / 50Hz |
| Refr. charge - tech. limit | 550g / 19,4oz | | |
| Starter | HST / capillary tube or expansion valve | | |
| Motor configuration | CSCR | | |
| Refrigerant | R290 | | |
| Application | MBP | | |
| Approvals | Eco design (EU) 2015/1095, CE, UK CA, VDE | | |

| ambient temperature | [°C / °F] | 25 / 77 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|--|----------|---------|----------|--------|--------|---------|
| evaporating temperature | [°C / °F] | -25 / -13 | -20 / -4 | -15 / 5 | -10 / 14 | 0 / 32 | 5 / 41 | 10 / 50 |
| cooling capacity | [W] | 998 | 1205 | 1433 | 1683 | 2255 | 2573 | 2911 |
| COP | [W/W] | 1,79 | 1,98 | 2,15 | 2,33 | 2,67 | 2,82 | 2,97 |
| cooling capacity | [Btu/h] | 3410 | 4114 | 4894 | 5749 | 7701 | 8786 | 9943 |
| power consumption | [W] | 557 | 610 | 666 | 723 | 845 | 911 | 979 |
| current consumption | [A] | 2,9 | 3,1 | 3,3 | 3,6 | 4,1 | 4,4 | 4,7 |

| ambient temperature | [°C / °F] | 32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|--|----------|---------|----------|--------|--------|---------|
| evaporating temperature | [°C / °F] | -25 / -13 | -20 / -4 | -15 / 5 | -10 / 14 | 0 / 32 | 5 / 41 | 10 / 50 |
| cooling capacity | [W] | 917 | 1110 | 1319 | 1545 | 2053 | 2335 | 2635 |
| COP | [W/W] | 1,6 | 1,76 | 1,9 | 2,03 | 2,27 | 2,38 | 2,48 |
| cooling capacity | [Btu/h] | 3132 | 3792 | 4504 | 5277 | 7013 | 7976 | 8998 |
| power consumption | [W] | 572 | 632 | 695 | 762 | 904 | 981 | 1061 |
| current consumption | [A] | 2,9 | 3,2 | 3,5 | 3,8 | 4,4 | 4,7 | 5,1 |

| ambient temperature | [°C / °F] | 38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|---|----------|---------|----------|--------|--------|---------|
| evaporating temperature | [°C / °F] | -25 / -13 | -20 / -4 | -15 / 5 | -10 / 14 | 0 / 32 | 5 / 41 | 10 / 50 |
| cooling capacity | [W] | 841 | 1023 | 1215 | 1420 | 1875 | 2125 | 2390 |
| COP | [W/W] | 1,43 | 1,56 | 1,67 | 1,77 | 1,95 | 2,03 | 2,1 |
| cooling capacity | [Btu/h] | 2873 | 3494 | 4150 | 4849 | 6402 | 7256 | 8162 |
| power consumption | [W] | 589 | 656 | 727 | 802 | 963 | 1048 | 1138 |
| current consumption | [A] | 3 | 3,3 | 3,6 | 3,9 | 4,6 | 5 | 5,4 |

| ambient temperature | [°C / °F] | 43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|---|----------|---------|----------|--------|--------|--|
| evaporating temperature | [°C / °F] | -25 / -13 | -20 / -4 | -15 / 5 | -10 / 14 | 0 / 32 | 5 / 41 | |
| cooling capacity | [W] | 768 | 941 | 1120 | 1308 | 1718 | 1942 | |
| COP | [W/W] | 1,27 | 1,39 | 1,48 | 1,56 | 1,69 | 1,75 | |
| cooling capacity | [Btu/h] | 2623 | 3214 | 3824 | 4465 | 5866 | 6631 | |
| power consumption | [W] | 604 | 677 | 755 | 837 | 1014 | 1108 | |
| current consumption | [A] | 3,1 | 3,4 | 3,7 | 4,1 | 4,9 | 5,3 | |