

Model

Designation **CU NL8.4MF MG_Y 230/1/50 CAP**



Sales code: 314G5004
Engineering code: CUNL84MF000CE

Application Data

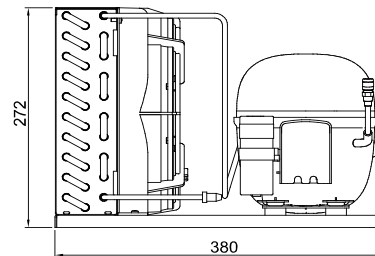
| | |
|----------------------------|---|
| Power supply | 220-240V / 50Hz 1~ |
| Refrigerants | R134a-R513A |
| Refr. charge - tech. limit | 600g / 21,2oz |
| Starter | HST / capillary tube or expansion valve |
| Sound pressure (10m) | 26,3dB(A) |

Configuration data

| | Conf. 1 | Conf. 2 |
|---------------------|---|--|
| Voltage range | 187 - 254V / 50Hz | 187 - 254V / 50Hz |
| Refrigerant | R134a | R513A |
| Application | MBP+HBP | MBP+HBP |
| Rated performance | <u>pe=-10°C, Tsuc=20°C, Tamb=25°C, subccoling: 2K</u> | |
| Cooling capacity | 451W / 1539Btu/h | 472W / 1610Btu/h |
| Power consumption | 248,5W | 263,1W |
| Current consumption | 1,9A | 2A |
| COP/EER | 1,81 / 6,19Btu/Wh | 1,79 / 6,12Btu/Wh |
| Approvals | Eco design (EU) 2015/1095, CE, UK CA, VDE | Eco design (EU) 2015/1095, CE, UK CA, VDE |

Compressor

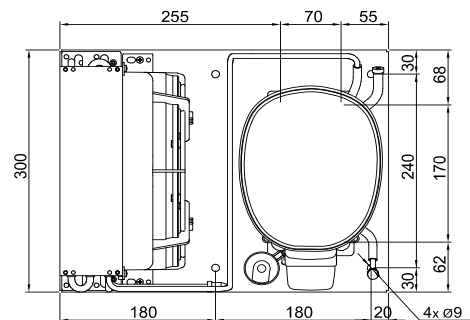
| | |
|-------------------------|-------------------------------|
| Designation | NL8.4MF |
| Motor configuration | CSIR |
| Locked rotor amperage | 10,6A |
| Rated load amperage | 2,2A |
| Winding resistance main | 7,1Ω |
| Winding resistance aux | 9,6Ω |
| Oil quantity | 270cm ³ / 9,1fl.oz |
| Oil type | POE |
| Horsepower rating | 1/5 HP |



Dimensions

Condensing unit

| | |
|------------------------|--|
| Height x Width x Depth | 272 x 300 x 380 [mm] / 10,7 x 11,8 x 15 [in] |
| Weight | 15,9kg / 35,1lbs |
| Suction adapter | OD ø8mm / 1/3in |
| Discharge adapter | OD ø6mm / 1/4in |
| Process connector | ø6,2mm / 0,24in |



Package data

| | |
|------------------------|--|
| Height x Width x Depth | 350 x 400 x 500 [mm] / 13,8 x 15,7 x 19,7 [in] |
| Weight | 18,9kg / 41,7lbs |

Model

Designation **CU NL8.4MF MG_Y 230/1/50 CAP**

Sales code: 314G5004
Engineering code: CUNL84MF000CE

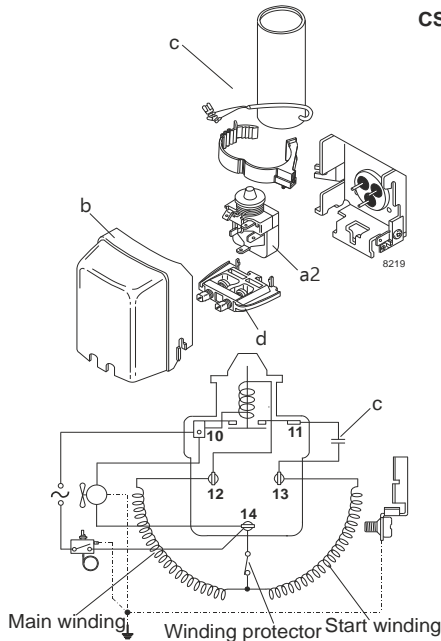
Components Condensing-Unit / Spare Parts

| Component | Type | Spare part code number |
|--------------------|-------------------------------|------------------------|
| Compressor code | NL8.4MF | 105G7802 |
| Condenser | Condenser (3 rows x 10 tubes) | 1030240F70 |
| Fan motor | 10W | AA707710X |
| Blade code | ø230mm 22° | A230-22 |
| Air flow | 385,8m³/h | |
| Receiver code | not installed | -/- |
| Suction valve code | OD ø8mm / 1/3in | -/- |
| Liquid valve code | OD ø6mm / 1/4in | -/- |

| Compressor starting equipment | Spare part code number |
|---------------------------------|------------------------|
| pos. a2 - relay | 117U6016 |
| pos. c - start capacitor (80µF) | 117U5015 |
| pos. b - plastic cover | 103N2011 |
| pos. d - cord relief | 103N1010 |

Wiring Sketch Compressor

Wiring Sketch Condensing Unit



Model

Designation **CU NL8.4MF MG_Y 230/1/50 CAP**

Sales code: 314G5004

Engineering code: CUNL84MF000CE

Cooling performance - Conf. 1

| | | | |
|----------------------------|---|---------------|-------------------|
| Power supply | 220-240V / 50Hz 1~ | Voltage range | 187 - 254V / 50Hz |
| Refr. charge - tech. limit | 600g / 21,2oz | | |
| Starter | HST / capillary tube or expansion valve | | |
| Motor configuration | CSIR | | |
| Refrigerant | R134a | | |
| Application | MBP+HBP | | |
| 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] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | 5 / 41 | 15 / 59 |
| cooling capacity | [W] | 292 | 366 | 451 | 545 | 650 | 762 | 1007 |
| COP | [W/W] | 1,42 | 1,62 | 1,81 | 1,99 | 2,15 | 2,26 | 2,4 |
| cooling capacity | [Btu/h] | 996 | 1249 | 1539 | 1863 | 2219 | 2604 | 3441 |
| power consumption | [W] | 205 | 226 | 249 | 274 | 303 | 337 | 420 |
| current consumption | [A] | 1,9 | 1,9 | 1,9 | 2 | 2,1 | 2,2 | 2,7 |

| ambient temperature | [°C / °F] | 32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|--|---------|----------|---------|--------|--------|---------|
| evaporating temperature | [°C / °F] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | 5 / 41 | 15 / 59 |
| cooling capacity | [W] | 263 | 331 | 409 | 496 | 591 | 695 | 919 |
| COP | [W/W] | 1,25 | 1,42 | 1,59 | 1,74 | 1,87 | 1,97 | 2,09 |
| cooling capacity | [Btu/h] | 899 | 1132 | 1397 | 1693 | 2020 | 2373 | 3139 |
| power consumption | [W] | 210 | 233 | 257 | 285 | 316 | 352 | 439 |
| current consumption | [A] | 1,9 | 1,9 | 2 | 2 | 2,1 | 2,2 | 2,7 |

| ambient temperature | [°C / °F] | 38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|---|---------|----------|---------|--------|--------|--|
| evaporating temperature | [°C / °F] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | 5 / 41 | |
| cooling capacity | [W] | 240 | 303 | 374 | 454 | 542 | 638 | |
| COP | [W/W] | 1,12 | 1,27 | 1,41 | 1,54 | 1,66 | 1,75 | |
| cooling capacity | [Btu/h] | 821 | 1035 | 1279 | 1552 | 1853 | 2178 | |
| power consumption | [W] | 214 | 238 | 265 | 294 | 327 | 365 | |
| current consumption | [A] | 1,9 | 1,9 | 2 | 2 | 2,1 | 2,3 | |

| ambient temperature | [°C / °F] | 43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|---|---------|----------|---------|--------|--|--|
| evaporating temperature | [°C / °F] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | | |
| cooling capacity | [W] | 222 | 280 | 347 | 421 | 502 | | |
| COP | [W/W] | 1,03 | 1,16 | 1,28 | 1,39 | 1,49 | | |
| cooling capacity | [Btu/h] | 758 | 957 | 1184 | 1437 | 1716 | | |
| power consumption | [W] | 216 | 242 | 271 | 302 | 337 | | |
| current consumption | [A] | 1,9 | 1,9 | 2 | 2 | 2,1 | | |

Model

Designation **CU NL8.4MF MG_Y 230/1/50 CAP**

Sales code: 314G5004

Engineering code: CUNL84MF000CE

Cooling performance - Conf. 2

| | | | |
|----------------------------|---|---------------|-------------------|
| Power supply | 220-240V / 50Hz 1~ | Voltage range | 187 - 254V / 50Hz |
| Refr. charge - tech. limit | 600g / 21,2oz | | |
| Starter | HST / capillary tube or expansion valve | | |
| Motor configuration | CSIR | | |
| Refrigerant | R513A | | |
| Application | MBP+HBP | | |
| 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] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | 5 / 41 | 15 / 59 |
| cooling capacity | [W] | 312 | 387 | 472 | 565 | 667 | 775 | 1007 |
| COP | [W/W] | 1,43 | 1,62 | 1,79 | 1,96 | 2,09 | 2,2 | 2,31 |
| cooling capacity | [Btu/h] | 1066 | 1322 | 1610 | 1930 | 2277 | 2647 | 3439 |
| power consumption | [W] | 218 | 239 | 263 | 289 | 319 | 353 | 436 |
| current consumption | [A] | 1,9 | 1,9 | 2 | 2,1 | 2,2 | 2,3 | 2,5 |

| ambient temperature | [°C / °F] | 32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|--|---------|----------|---------|--------|--------|---------|
| evaporating temperature | [°C / °F] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | 5 / 41 | 15 / 59 |
| cooling capacity | [W] | 281 | 349 | 425 | 510 | 602 | 700 | 910 |
| COP | [W/W] | 1,25 | 1,41 | 1,56 | 1,69 | 1,81 | 1,9 | 2 |
| cooling capacity | [Btu/h] | 959 | 1191 | 1452 | 1742 | 2056 | 2391 | 3107 |
| power consumption | [W] | 224 | 247 | 273 | 301 | 333 | 368 | 456 |
| current consumption | [A] | 1,9 | 2 | 2 | 2,1 | 2,2 | 2,3 | 2,5 |

| ambient temperature | [°C / °F] | 38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|---|---------|----------|---------|--------|--------|--|
| evaporating temperature | [°C / °F] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | 5 / 41 | |
| cooling capacity | [W] | 255 | 317 | 387 | 463 | 547 | 637 | |
| COP | [W/W] | 1,12 | 1,25 | 1,38 | 1,49 | 1,59 | 1,67 | |
| cooling capacity | [Btu/h] | 871 | 1082 | 1320 | 1583 | 1869 | 2174 | |
| power consumption | [W] | 228 | 253 | 281 | 311 | 344 | 382 | |
| current consumption | [A] | 1,9 | 2 | 2,1 | 2,1 | 2,2 | 2,3 | |

| ambient temperature | [°C / °F] | 43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K) | | | | | | |
|-------------------------|-----------|---|---------|----------|---------|--------|--|--|
| evaporating temperature | [°C / °F] | -20 / -4 | -15 / 5 | -10 / 14 | -5 / 23 | 0 / 32 | | |
| cooling capacity | [W] | 234 | 291 | 355 | 426 | 502 | | |
| COP | [W/W] | 1,01 | 1,13 | 1,24 | 1,34 | 1,42 | | |
| cooling capacity | [Btu/h] | 800 | 995 | 1213 | 1453 | 1716 | | |
| power consumption | [W] | 232 | 258 | 287 | 319 | 354 | | |
| current consumption | [A] | 1,9 | 2 | 2,1 | 2,2 | 2,3 | | |