

RATING CONDITIONS

11.1 K Superheat
 8.3 K Subcooling
 35 C Ambient Air Over

50 Hz Operation

AIR CONDITIONING

ZR250KCE-TWD

HFC-407C - Dew Pt
 COPELAND SCROLL®
 TWD 380/420-3-50

Evaporating Temperature C (Sat Dew Pt Pressure, bar)

| | | -20(2.2) | -15(2.6) | -10(3.2) | -5(3.9) | 0(4.6) | 5(5.5) | 7(5.8) | 10(6.4) | 12.5(7) |
|--|-----------|----------|----------|----------|---------|--------|--------|--------|---------|---------|
| Condensing Temperature C (Sat Dew Pt Pressure, bar) | 65 (28) C | | | | | | 45500 | 49000 | 55500 | 61500 |
| | P | | | | | | 23300 | 23300 | 23400 | 23500 |
| | A | | | | | | 37.4 | 37.4 | 37.5 | 37.5 |
| | M | | | | | | 324 | 350 | 390 | 427 |
| | E | | | | | | 1.9 | 2.1 | 2.4 | 2.6 |
| | % | | | | | | 59.4 | 61.2 | 63.6 | 65.3 |
| | 60 (25) C | | | | | 40000 | 49500 | 53500 | 60000 | 66500 |
| | P | | | | | 20400 | 20500 | 20600 | 20700 | 20800 |
| | A | | | | | 33.5 | 33.6 | 33.7 | 33.7 | 33.8 |
| | M | | | | | 273 | 331 | 357 | 397 | 433 |
| E | | | | | 2 | 2.4 | 2.6 | 2.9 | 3.2 | |
| % | | | | | 59.2 | 63.9 | 65.5 | 67.4 | 68.7 | |
| 55 (22) C | | | | 35000 | 43500 | 53000 | 57500 | 64500 | 71000 | |
| P | | | | 17900 | 18000 | 18200 | 18200 | 18400 | 18400 | |
| A | | | | 30.2 | 30.3 | 30.4 | 30.5 | 30.5 | 30.6 | |
| M | | | | 228 | 279 | 337 | 362 | 403 | 439 | |
| E | | | | 1.9 | 2.4 | 2.9 | 3.2 | 3.5 | 3.9 | |
| % | | | | 58.5 | 63.7 | 67.7 | 68.9 | 70.4 | 71.2 | |
| 50 (20) C | | | 30000 | 38000 | 46500 | 57000 | 61500 | 69000 | 75500 | |
| P | | | 15800 | 15900 | 16000 | 16200 | 16200 | 16300 | 16400 | |
| A | | | 27.3 | 27.4 | 27.6 | 27.7 | 27.7 | 27.8 | 27.9 | |
| M | | | 190 | 234 | 285 | 342 | 368 | 408 | 443 | |
| E | | | 1.9 | 2.4 | 2.9 | 3.5 | 3.8 | 4.2 | 4.6 | |
| % | | | 57.3 | 63 | 67.4 | 70.4 | 71.3 | 72.1 | 72.3 | |
| 45 (18) C | | 25800 | 32500 | 40500 | 50000 | 60500 | 65500 | 73000 | 80000 | |
| P | | 14000 | 14100 | 14200 | 14300 | 14500 | 14500 | 14600 | 14600 | |
| A | | 24.9 | 25 | 25.1 | 25.2 | 25.4 | 25.4 | 25.5 | 25.7 | |
| M | | 157 | 195 | 239 | 289 | 347 | 372 | 412 | 447 | |
| E | | 1.8 | 2.3 | 2.9 | 3.5 | 4.2 | 4.5 | 5 | 5.5 | |
| % | | 55.5 | 61.6 | 66.4 | 69.9 | 71.9 | 72.3 | 72.4 | 72 | |
| 40 (15) C | 21800 | 27800 | 35000 | 43000 | 53000 | 64000 | 69000 | 77000 | 84000 | |
| P | 12500 | 12500 | 12600 | 12700 | 12800 | 13000 | 13000 | 13000 | 13000 | |
| A | 22.7 | 22.9 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | |
| M | 129 | 162 | 199 | 243 | 293 | 350 | 375 | 415 | 450 | |
| E | 1.7 | 2.2 | 2.8 | 3.4 | 4.1 | 4.9 | 5.3 | 5.9 | 6.5 | |
| % | 53.2 | 59.6 | 64.8 | 68.6 | 71 | 71.8 | 71.7 | 71.1 | 70 | |
| 35 (13) C | 23500 | 29700 | 37000 | 45500 | 55500 | 67000 | 72500 | 80500 | 88000 | |
| P | 11200 | 11200 | 11300 | 11400 | 11600 | 11600 | 11600 | 11500 | 11500 | |
| A | 21.1 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 22 | |
| M | 133 | 165 | 203 | 246 | 296 | 353 | 378 | 417 | 453 | |
| E | 2.1 | 2.6 | 3.3 | 4 | 4.8 | 5.8 | 6.2 | 7 | 7.7 | |
| % | 57.1 | 62.5 | 66.7 | 69.4 | 70.7 | 70.3 | 69.6 | 68 | 66.1 | |
| 30 (12) C | 25100 | 31500 | 39000 | 48000 | 58500 | 70500 | 75500 | 84000 | 92000 | |
| P | 10000 | 10100 | 10200 | 10300 | 10400 | 10300 | 10300 | 10100 | 9950 | |
| A | 19.7 | 19.9 | 20 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | |
| M | 136 | 168 | 205 | 248 | 298 | 355 | 379 | 419 | 454 | |
| E | 2.5 | 3.1 | 3.8 | 4.6 | 5.6 | 6.8 | 7.4 | 8.3 | 9.2 | |
| % | 59.8 | 64.3 | 67.3 | 68.9 | 68.9 | 67.1 | 65.8 | 63.2 | 60.2 | |
| 27 (11) C | 26000 | 32500 | 40000 | 49500 | 60000 | 72000 | 77500 | 86000 | 94000 | |
| P | 9400 | 9500 | 9600 | 9700 | 9700 | 9500 | 9450 | 9250 | 9050 | |
| A | 19 | 19.2 | 19.3 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | |
| M | 137 | 169 | 206 | 249 | 299 | 355 | 380 | 420 | 455 | |
| E | 2.8 | 3.4 | 4.2 | 5.1 | 6.2 | 7.5 | 8.2 | 9.3 | 10.4 | |
| % | 60.9 | 64.7 | 67.1 | 68 | 67.2 | 64.4 | 62.7 | 59.3 | 55.5 | |

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 400 V

C:Capacity(Watts), P:Power(W), A:Current(Amps), M:Mass Flow(g/s), E:COP(W/W), %:Isentropic Efficiency(%)