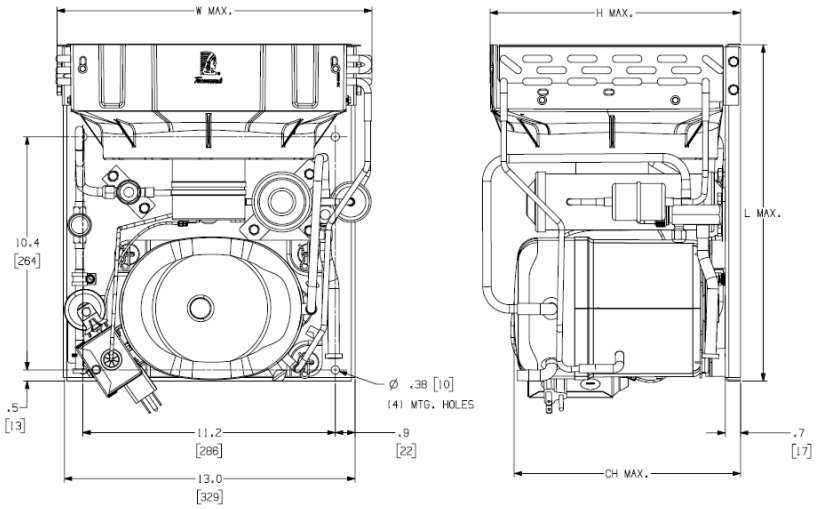
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# Celseon® Air Cooled Condensing Unit

**Model: AKA9430ZNAD***
**BoM: 2G302-**  R-404A  1/3 HP**




| Model | Dimensions, inches | | | | Line Connection* | | Pumpdown | Air | Oil Ch | Gr. Wt. |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | CH | Suction | Liquid | 90 °F 90% | SCFM | Oz. | Lbs. |
| AKA9430ZNADA | 15.0 | 14.0 | 11.5 | 10.1 | 3/8" S | 1/4" S | N/A | 185 | 17 | 52 |
| AKA9430ZNADG | | | | | 1/2" S | 3/8" S | 2.2 lbs | | | 54 |
| AKA9430ZNADH | | | | | 1/2" S | 3/8" S | N/A | | | 52 |
| AKA9430ZNADK | | | | | 3/8" S | 1/4" S | | | | 52 |
| AKA9430ZNADC | | | | | 1/2" S | 3/8" S | 2.2 lbs | | | 54 |
| AKA9430ZNADS | | | | | 1/2" S | 3/8" S | N/A | | | 52 |
| AKA9430ZNADJ | | | | | 1/2" S | 3/8" S | 2.2 lbs | | | 54 |
| AKA9430ZNADP | | | | | 1/2" S | 3/8" S | 2.2 lbs | | | 54 |

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

| | | Ambient Temperatures | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Evaporator T, | | 80°F | | | 90°F | | | 100°F | | | 110°F | | |
| °F | PSIG | BTUH | Watts | Cond T | BTUH | Watts | Cond T | BTUH | Watts | Cond T | BTUH | Watts | Cond T |
| -10 | 23.7 | 1881 | 450 | 95 | 1475 | 441 | 102 | 1177 | 390 | 109 | 637 | 322 | 116 |
| -5 | 27.9 | 2092 | 480 | 97 | 1715 | 475 | 105 | 1376 | 435 | 112 | 911 | 380 | 119 |
| 0 | 32.6 | 2329 | 510 | 100 | 1967 | 511 | 108 | 1595 | 479 | 115 | 1183 | 438 | 122 |
| 5 | 37.6 | 2593 | 543 | 103 | 2230 | 547 | 110 | 1834 | 524 | 118 | 1454 | 493 | 125 |
| 10 | 43.1 | 2882 | 577 | 105 | 2505 | 585 | 113 | 2092 | 570 | 121 | 1724 | 548 | 128 |
| 15 | 49.8 | 3199 | 612 | 108 | 2792 | 624 | 116 | 2370 | 615 | 123 | 1992 | 601 | 131 |
| 20 | 56.1 | 3541 | 650 | 111 | 3091 | 665 | 119 | 2668 | 661 | 126 | 2260 | 653 | 134 |
| 25 | 62.9 | 3910 | 689 | 114 | 3401 | 707 | 122 | 2985 | 707 | 129 | 2527 | 703 | 137 |
| 30 | 70.2 | 4305 | 729 | 117 | 3724 | 750 | 125 | 3322 | 753 | 132 | 2793 | 752 | 139 |
| 35 | 77.9 | 4727 | 771 | 121 | 4058 | 794 | 128 | 3678 | 800 | 135 | --- | --- | --- |
| 40 | 87.0 | 5175 | 815 | 124 | 4404 | 840 | 131 | 4055 | 847 | 138 | --- | --- | --- |
| 45 | 95.1 | 5649 | 860 | 128 | 4762 | 887 | 134 | --- | --- | --- | --- | --- | --- |

## 60 Hz Performance

Return gas temp 40°F below 20°F evaporator,
and 65°F above 20° evap, 5°F sub cooling

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## Specifications/ Parts:

| **Unit Model** | **AKA9430ZNADA** |
|---|---|
| **Unit Bill of Material** | **2G302-09** |
| Refrigeration Range | -10° F to +45° F |
| Design Pressure Low | 181 |
| Design Pressure High | 450 |
| Nominal Volts-Hz-Ph | 208-230/60/1 |
| Voltage Range | 187 to 254 |
| Min. Circuit Ampacity | 5.0 |
| Max. Fuse Size (amps) | 15 |
| | |
| Compressor Model | AKA9427ZXD |
| Comp. Bill of Material | AK174ET-037-J7 |
| Compressor RLA/LRA | 3.8/23 |
| Overload | 8300MRTL62 |
| Relay | 8200EMBJ92 |
| Run Capacitor | N/A |
| Start Capacitor | 85PS330D12 |
| | |
| Fan Motor | 810-10094 |
| Fan Motor RLA | .29 |
| Fan Blade | 515-10002 |
| Fan Shroud/Guard Combo | 707-00004 |
| Condenser | 506-10004 |
| | |
| Unit Drawing | DGU1970-07 |
| Wiring Diagram | 91266-01 |
| | |
| Replacement Kit: Relay | K71-32 |
| Replacement kit: O/L | K90-100 |
| Replacement kit: St. Cap | K146-65 |
| | |
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| **Unit Model** | **AKA9430ZNADG** |
|---|---|
| **Unit Bill of Material** | **2G302-19** |
| Receiver Tank | 510-10000 |
| Liquid Valve | 56659 |
| Suction Valve | 56663 |
| | |
| **Unit Model** | **AKA9430ZNADH** |
| **Unit Bill of Material** | **2G302-29** |
| Liquid Valve | 56659 |
| Suction Valve | 56663 |
| | |
| **Unit Model** | **AKA9430ZNADK** |
| **Unit Bill of Material** | **2G302-39** |
| Power Cord | 85259-5 |
| | |
| **Unit Model** | **AKA9430ZNADC** |
| **Unit Bill of Material** | **2G302-59** |
| Receiver Tank | 510-10000 |
| Liquid Valve | 56659 |
| Suction Valve | 56663 |
| Power Cord | 85259-5 |
| | |
| **Unit Model** | **AKA9430ZNADS** |
| **Unit Bill of Material** | **2G302-69** |
| Liquid Valve | 56659 |
| Suction Valve | 56663 |
| Power Cord | 85259-5 |
| | |
| **Unit Model** | **AKA9430ZNADJ** |
| **Unit Bill of Material** | **2G302-79** |
| Receiver Tank | 510-10000 |
| Liquid Valve | 56659 |
| Suction Valve | 56663 |
| Filter Drier | 71116 |
| Sight Glass | 70084 |
| | |
| **Unit Model** | **AKA9430ZNADP** |
| **Unit Bill of Material** | **2G302-89** |
| Receiver Tank | 510-10000 |
| Liquid Valve | 56659 |
| Suction Valve | 56663 |
| Power Cord | 85259-5 |
| Filter Drier | 71116 |
| Sight Glass | 70084 |

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# Electrical Diagram Page 3

