# Cabinet Condensing Units

REFRIGERATION


KRA038 Unit Shown

## Features

- Refrigeration/Freezer condensing unit in attractive white aluminum enclosure
- Dual air and water condensers standard
- Pre-charged with R-134a refrigerant
- 1/4, 3/8 and 1/2HP compressors available
- 115V 50/60 Hz, and 230V 50 Hz models
- Vertical or horizontal mounting
- Self-sealing quick-connect fittings
- R-134a automobile style service connections
- Charged with leak-detector dye
- Pre-charged line sets and custom evaporator plates available
- Digital thermostats available

### KRA Condensing Units

The KRA cabinet condensing unit is designed for use in direct expansion refrigeration and freezer systems, such as cockpit freezers/refrigerators or catch-box chillers (not holdover plate systems), and can also be used with built in galley freezer/refrigerators or small walk-in coolers. The condensing unit works in conjunction with evaporator plates installed in an insulated box, or a box wrapped with evaporator tubing. Box temperatures between -5° F and 40° F (-20° C and 5° C) can be achieved with the proper application.

The condensing unit is housed in an attractive white aluminum enclosure, which can be mounted on a vertical bulkhead or a horizontal shelf. An integral drain pan allows any condensate to be routed to the bilge or sump.

Units are available with 3 different size compressors; 1/4HP, 3/8HP, and 1/2HP, and in 115V 50/60 Hz or 230V 50 Hz only units.

All KRA units have both air and water condensers. The air cooled condenser is supplemented by a durable cupra-nickel water condenser. This double condenser configuration will ensure that the unit performs efficiently in hot engine rooms, while also allowing full air cooled operation when no cooling water is available.

The KRA condensing units is typically installed in the engine room or other mechanical space, with copper or flexible refrigerant tubing connecting the evaporator section. The condensing unit is pre-charged with a sufficient amount of R-134a refrigerant for any line set/evaporator combination, and does not need further charging.

Quick connect fittings on the condensing unit are self-sealing, and are used instead of base valves. R-134a automotive type service fittings are provided to prevent accidental connection or charging of incorrect refrigerant.

A large receiver/filter/drier is included to store excess refrigerant, and a built-in sight glass/moisture indicator can help identify possible problems. The unit is also charged with ultraviolet dye to help locate leaks.

A dual box system is available that will allow 2 different boxes to run on one condensing unit. Contact the Taylor Made Environmental, Inc. Applications department for more information.

### Line Sets

Pre-charged refrigerant lines, in copper or flexible hose, are available in lengths up to 25 feet (7.6m).

The 1/4" liquid line includes a constant pressure valve for metering the refrigerant. The 3/8" suction line is insulated.



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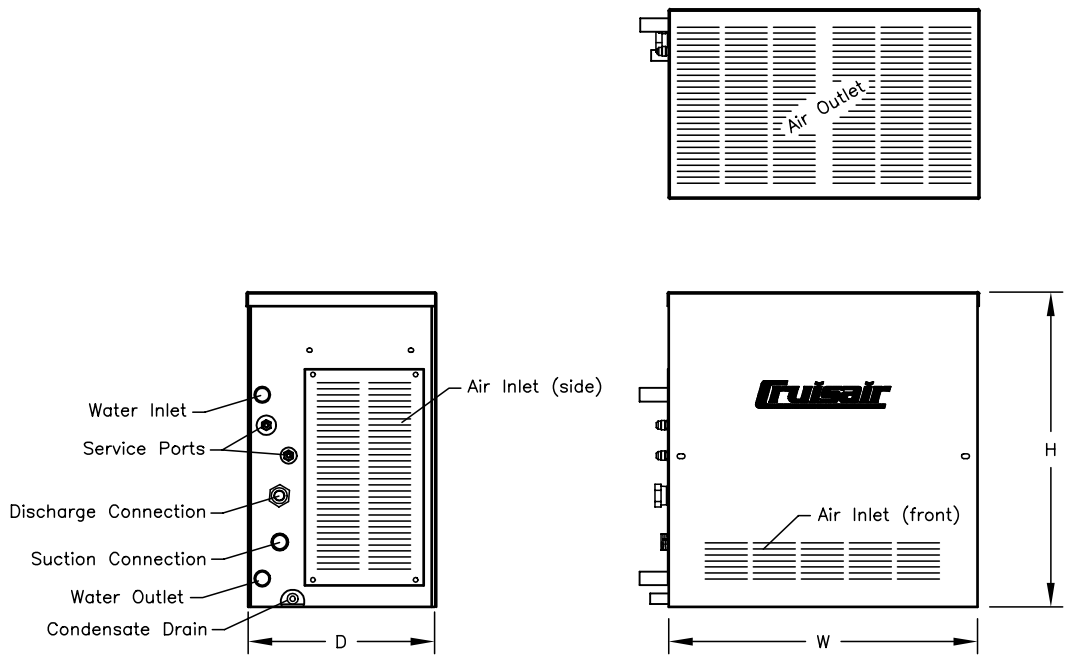


## *TECHNICAL SPECIFICATIONS*

| Model | Compressor Horsepower | Voltage | Freq. (Hz) | Run Amps | Height (in/cm) | Width (in/cm) | Depth (in/cm) | Weight (lb/kg) |
|---|---|---|---|---|---|---|---|---|
| KRA025 | 1/4HP | 115 | 50/60 | 6.2 | 14.75/37.5 | 14.25/36.2 | 8.75/22.2 | 50/110.2 |
| KRA025CK | | 220 | 50 | 2.7 | | | | |
| KRA038 | 3/8HP | 115 | 50/60 | 6.6 | 14.75/37.5 | 14.25/36.2 | 8.75/22.2 | 51/112.4 |
| KRA038CK | | 220 | 50 | 3.7 | | | | |
| KRA050 | 1/2HP | 115 | 50/60 | 8.9 | 17.5/44.5 | 16.1/40.9 | 10.3/26.2 | 65/143.3 |

## *CAPACITY (BTU/HR)*

| Compressor Horsepower | Evaporating Pressure | Air Cooled Only | Air/Water Cooled |
|---|---|---|---|
| 1/4HP | 2 psi | 1170 | 1495 |
| | 12 psi | 1880 | 2440 |
| 3/8HP | 2 psi | 1545 | 1980 |
| | 12 psi | 2485 | 3230 |
| 1/2HP | 2 psi | 1860 | 2405 |
| | 12 psi | 3425 | 4165 |

Note:
Refrigerator Use: 12 psi = 10°F (-12°C)
Freezer Use: 2 psi = -10°F (-23°C)

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