

INDOOR, OUTDOOR & REMOTE

**CONDENSING
UNITS**





Unit Nomenclature

CONDENSING UNITS NOMENCLATURE

R K O S - 0100 - C S - H 2 - 8

UNIT VOLTAGE: 2: 240/1/60
5: 208-240/3/60
9: 480/3/60
8: 600/3/60

REFRIGERANT: 1: R-134a, 2: R-22; 4: R-404a; 5: R-507

TEMP RANGE: H: High; M: Medium; L: Low; U: Ultra-low

TYPE: H: Hermetic; S: Semi-Hermetic; Z: Scroll; W: Screw

COMPRESSOR: C: Copeland; B: Bitzer; R: Carlyle; D: Danfoss

COMPRESSOR HP: 0008 = 3/4 HP; 0050 = 5 HP; 0100 = 10 HP

COMPRESSOR ARRANGEMENT: S: Single; D: Dual; P: Parallel; M: Multiple

UNIT TYPE: O: Outdoor; I: Indoor; R: Remote; W: Water cooled; M: Marine type

KOOL-AIR

REFRIGERATION

Optional equipment

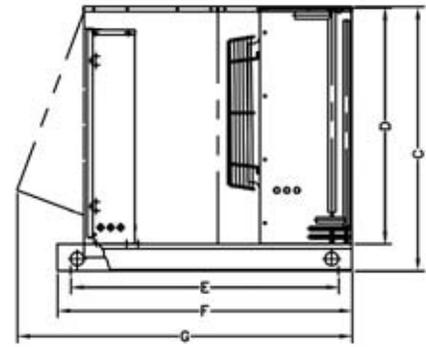
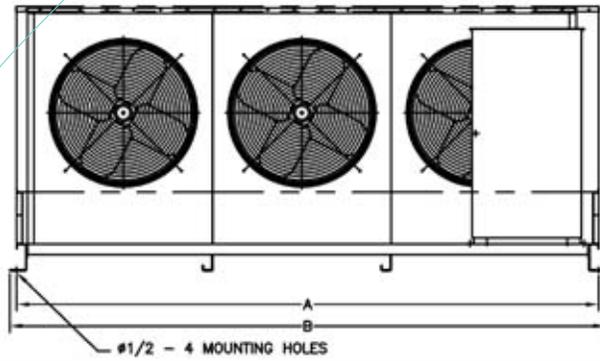
Mechanical

- Soldered or replaceable liquid line kit (dryer & sight glass)
- Solenoid valve
- Suction accumulator, regular or with boil-out coil
- Suction filter, soldered or replaceable
- Oil separator
- Oil level control device (parallel)
- Main suction and liquid valves
- Hot gas defrost kit
- Oversized receiver
- Suction to liquid heat exchanger
- Adjustable head pressure controls (under 10 HP)
- Custom color paint for housing
- Factory installed pressure gauges
- Hot gas by-pass valves
- Discharge line muffler
- Heat reclaim valve
- Etc.

Electrical

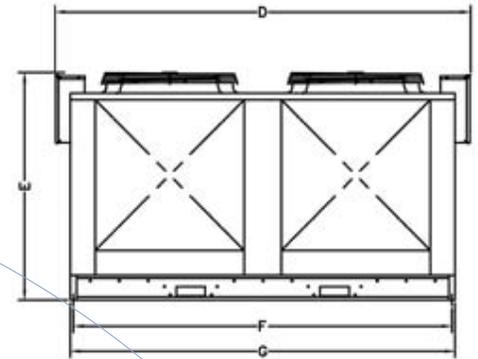
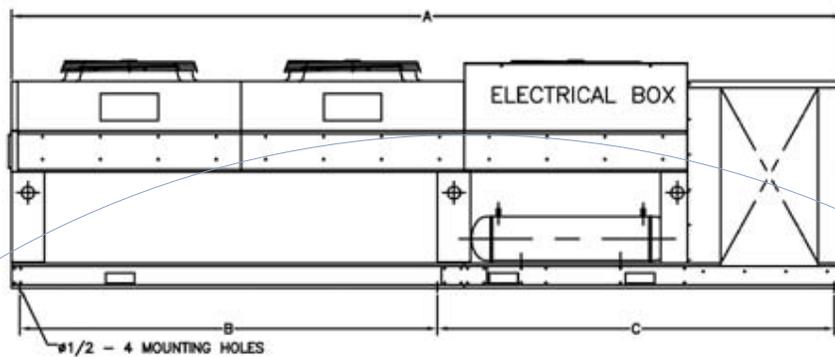
- Auxiliary contacts
- Phases monitor
- Electric defrost kit with fuses and evaporator (s) contactor (s)
- Defrost timer
- Non fused disconnect switch
- Fused disconnect switch
- Fan cycling (2 or 3 fans) for indoor units

Custom made units are available, please consult factory



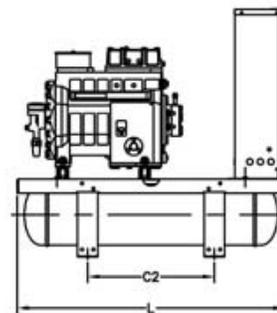
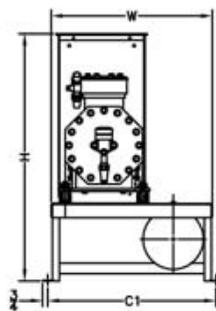
DIMENSIONAL DATA

MODEL	A	B	C	D	E	F	G
0008 @ 0015	38	36	29 1/4	25 1/4	30	34	36 3/4
0020 @ 0030	47	45	29 1/4	24 1/4	35	39	41 3/4
0035 @ 0060	47	45	39 1/4	35 1/4	35	39	45
0070 @ 0075	49	47	39 1/4	35 1/4	40	44	50
0080 @ 0120	69	67	39 1/4	35 1/4	40	44	50
0150 @ 0200	89	87	39 1/4	35 1/4	40	44	50



DIMENSIONAL DATA

MODEL	A	B	C	D	E	F	G
0250 @ 0300	147	47	96	51 3/4	55	46 1/2	48
0350 @ 0400 (1 COMP)	201	101	96	51 3/4	55	46 1/2	48
0400 (2 COMP) @ 0600	147	47	96	96 3/4	55	91 1/2	93
0700 @ 0800	201	101	96	96 3/4	55	91 1/2	93



DIMENSIONAL DATA (REMOTE UNITS)

MODEL	L	W	H	C1	C2
0008 @ 0030	38	21	41	22	18
0040 @ 0060	38	23	43 1/2	24	18
0070 @ 0100	44	23	43 1/2	24	21
0150 @ 0250	50	25	45 1/2	26	24
0270 @ 0400	60	25	45 1/2	26	30

Specification

- Base and housing:** Sturdy heavy gage galvanized steel formed base. The base also allows the contractor to install pipes clamps to secure its pipe run to the roof opening. Weather proof enclosure made of white pre-painted thick gage aluminum, rust proof hardware on unit from 0008 to 0200 and galvanized steel enclosures on unit 0250 and higher. The hood style design, when open gives full access to all the components on the outdoor units.
- Condenser coil:** The condenser coil is enclosed in a galvanized casing. The 3/8" copper rifflled tubes are mechanically expanded in self-spaced, full-collared aluminum corrugated plate fins for permanent bond and maximum heat transfer. All coils have 10 fins per inch for easy cleaning and high efficiency. A separate and efficient sub-cooling circuit is integrated at the base of the coil to provide a vapor free liquid to the metering device. Coils are pressure tested under water with 400 PSIG. They are dried with nitrogen and shipped pressurized. A factory installed fixed head pressure flooding valve (adjustable for 10 HP or more) is installed to maintain an adequate head pressure during the low ambient temperature operation, (outdoor units only). The condenser coil incorporates a friction free expansion coil design.
- Fans:** Direct driven 20" diameter fans are installed on 1/2 hp motor on units from 0008 to 0220 and 30" diameter fans are installed on 1 hp motors for model 0250 and higher. 20 inch diameter fans have 1" venturi and 30" diameter fans have 3 3/4 spun venturi to provide maximum fan efficiency and minimum noise level. Fans are protected by a baked on powder epoxy coating fan guard; each fan section is divided to prevent by-pass. Each fan is statically and dynamically balanced to provide a vibration free operation.
- Receiver:** The receiver is sized to hold the entire charge of the evaporator, condenser and liquid line refrigerant when the unit is in a pump down mode, (based on standard installations), oversized receivers are available. On outdoor units, the receiver vessel is heated and insulated to maintain an adequate pressure during the cold season. A fusible safety plug or pressure relief valve and service valves are standard on each unit.
- Controls:** Located in a sturdy galvanized steel enclosure, built to provide an easy access to every component, the control panel contains all the electrical devices such as contactors, fuses, timer, compressor time delay relay, terminal block etc, standard and optional controls. A pump down switch is mounted on the side of the box to be operated without the need to open the enclosure.
- Piping:** Hard drawn copper pipes and vibration absorber are used in every condensing unit with semi-hermetic compressor.
- Compressor:** Kool-Air will select the most efficient compressors, from a wide range of manufacturer to perform the work. Adjustable dual pressure controls (with flexible hoses), crankcase heater (outdoor unit), rubber or spring mounts are standard equipment. On some compressors oil level sight glass, oil pump, oil failure switch, internal overheat protection, suction and discharge valves are standard when required.



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Due to Kool-Air policies to continuously improve the quality of its products, specifications are subject to change without notice