BAC Evaporative Condenser, Model VC1-N230PU, S/N U01682401, 218 tons of R-22 refrigerant at 105°F condensing temperature, 20°F suction temperature and 78°F entering wet bulb. Fan motor: (1) 15 hp, 1,800 /900 rpm, 3 phase, 60 hertz, 460 volt, 2 speed, 1 winding, TEFC enclosure fan drives based on 0 in. ESP. Pump motor: (1) 2 hp, 1,800 rpm, 3 phase, 60 hertz, 460 volt, TEFC enclosure. 12/08/2000
Includes additional subcooling circuit that can be not used, used as oil cooling circuit or used as liquid sub cooling for Freon


BAC


Baltimore Aircoil Company
P.O. BOX 960
MADERA, CA 93639
(559) 673-9231
B.A.C.
MOD. # VC1-N230PU
SER. # U1268240IMAD
BELT # 3B133
270047 REV. L

BALTIMORE AIRCOIL
ONE OF THE
Amsted
INDUSTRIES

SUBMITTAL DATA FORM

CUSTOMER	ALMCOE REFRIGERATION COMPANY 4050 CREST HILL ROAD DALLAS, TX 75227	DATE P.O. NO. B.A.C. NO. MODEL NO.	12/8/2000 1321-2419 U012682401-MAD VC1-N230PU

PROJECT:	TOM THUMB #560 - DALLAS, TX
ENGINEER:	
B.A.C. REP:	TIMBERLAKE & DICKSON, INC - DALLAS, TX

VC1- EVAPORATIVE CONDENSER
"ALL INFORMATION IS PER UNIT"

CERTIFIED CAPACITY: 218 TONS OF R-22 REFRIGERANT AT 105 F CONDENSING TEMPERATURE, 20 F SUCTION TEMPERATURE AND 78 F ENTERING WET BULB.

FAN MOTOR(S): (1) 15 HP, 1800/900 RPM, 3 PHASE, 60 HERTZ, 460 VOLTS, 2 -SPEED, 1 -WINDING, TEFC ENCLOSURE. FAN DRIVES BASED ON 0" ESP.

PUMP MOTOR(S): (1) 2 HP, 1800 RPM, 3 PHASE, 60 HERTZ, 460 VOLTS, TEFC ENCLOSURE.

NOTE: Two speed fan motors and/or Energy Miser Fan Systems require a starter that incorporates a 15 second time delay when switching from high to low speed.

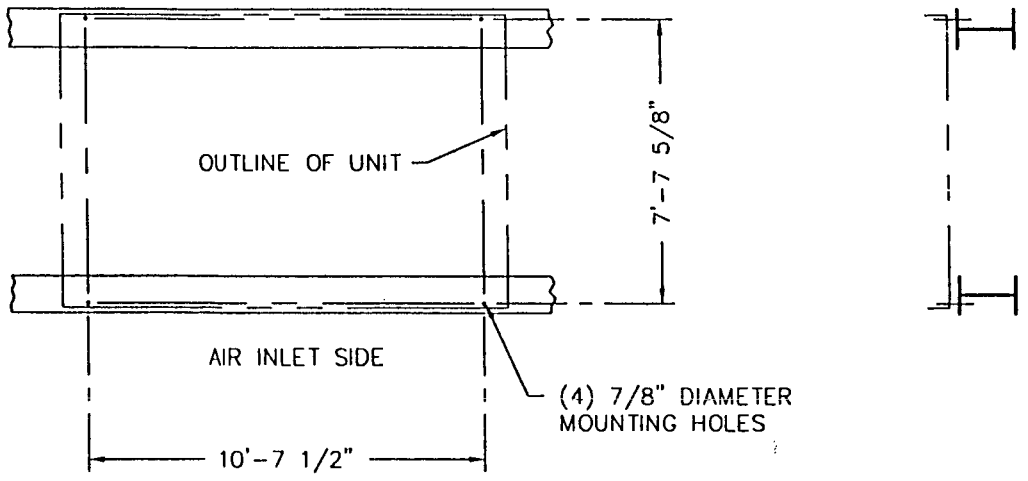
10 COPIES OF SUBMITTAL DATA FOR RECORD

FEATURE		FEATURE
UNIT DIMENSIONS & SUPPORT DATA	BAC-9831AX03 BAC-9918A	SUBCOOLING COIL
MECHANICAL SPECIFICATIONS		
SPLIT CIRCUIT		
EXTENDED LUBE LINES		
FAN DISCHARGE DAMPERS WITH MANUEL CONTROLS		

THANK YOU FOR YOUR ORDER ACCEPTED AT THE B.A.C. MADERA PLANT ON: 11/8/2000.

AN APPROVED SUBMITTAL IS NOT REQUIRED. YOUR ORDER IS SCHEDULED TO SHIP FROM OUR FACTORY APPROXIMATELY 12/22/2000. PLEASE BE PREPARED FOR THE ARRIVAL OF THIS EQUIPMENT, AS OUR FACILITIES CANNOT ACCOMMODATE THE STORAGE OF COMPLETED UNITS.

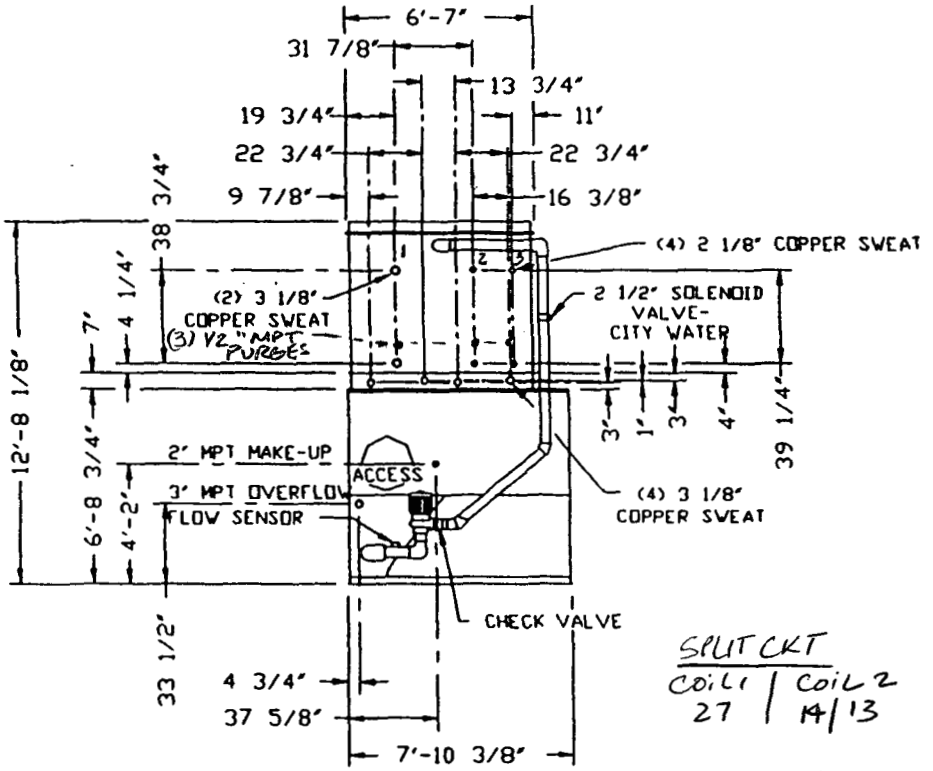
P.O. BOX 7322, BALTIMORE, MARYLAND 21227 / TELE: (410) 799-6200 / FAX: 410-799-6416
P.O. BOX 960, MADERA, CALIFORNIA 93639 / TELE: (559) 673-9231 / FAX: 559-673-5095
P.O. BOX 317, PAXTON, ILLINOIS 60957 / TELE: (217) 379-2311 / FAX: 217-379-3522
P O BOX 402, MILFORD, DELAWARE 19963 / TELE: (302) 422-3061 / FAX: 302-422-9269

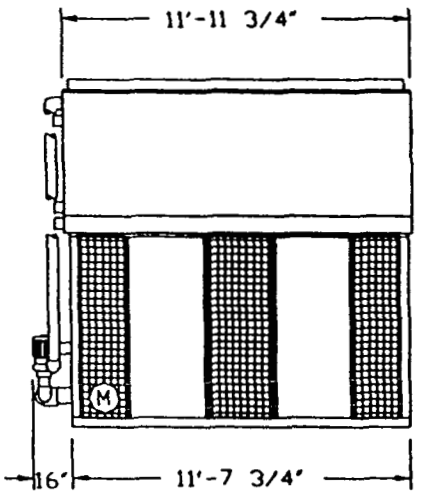


MODEL NO.
~~VC1-N208~~
VC1-N230

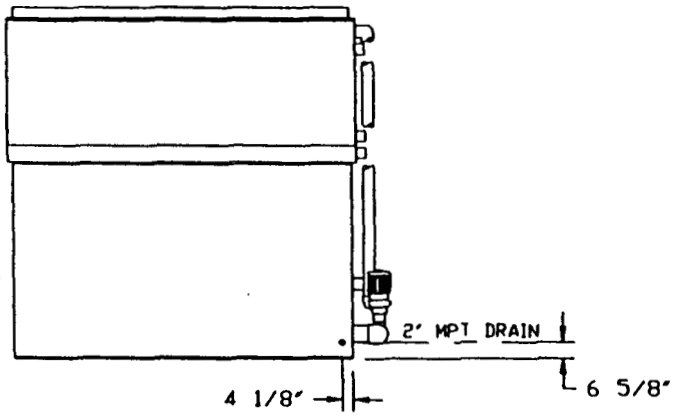
NOTES:
1. THE RECOMMENDED SUPPORT ARRANGEMENT FOR VC1 UNITS CONSISTS OF TWO PARALLEL I-BEAMS EXTENDING THE FULL LENGTH OF THE UNIT. SUPPORTS AND ANCHOR BOLTS ARE TO BE DESIGNED AND FURNISHED BY OTHERS.
2. ALL SUPPORTING BEAMS ARE TO BE FLUSH AND LEVEL AT TOP AND MUST BE ORIENTED RELATIVE TO GAGE LINE AS SHOWN.
3. RECOMMENDED DESIGN LOADS FOR EACH BEAM SHOULD BE 70% OF THE TOTAL UNIT OPERATING WEIGHT APPLIED AS A UNIFORM LOAD TO EACH BEAM. BEAMS SHOULD BE IN ACCORDANCE WITH STANDARD STRUCTURAL PRACTICE. THE MAXIMUM ALLOWABLE DEFLECTION OF BEAMS UNDER THE UNIT SHALL BE 3/8 OF AN INCH.
4. ALL MOUNTING HOLES ARE 7/8 INCH DIAMETER AT THE LOCATIONS SHOWN.
5. IF VIBRATION ISOLATORS ARE USED, A RAIL OR CHANNEL MUST BE PROVIDED BETWEEN THE UNIT AND THE ISOLATORS TO PROVIDE CONTINUOUS UNIT SUPPORT. ADDITIONALLY, THE SUPPORT BEAMS MUST BE DESIGNED TO ACCOMMODATE THE OVERALL LENGTH AND MOUNTING HOLE LOCATION OF THE ISOLATORS WHICH MAY DIFFER FROM THOSE OF THE UNIT. REFER TO VIBRATION ISOLATOR DRAWINGS FOR THIS DATA.

B.A.C. ORDER NO: U0126824O1-MOD DATE: / /	BALTIMORE AIRCOIL COMPANY	SUGGESTED STEEL SUPPORT EVAPORATIVE CONDENSER DRAWING NUMBER: BAC-9918 A | A





SPLIT CKT
COIL 1 | COIL 2
27 | 14/13



◒ IPS BEVELED FOR WELDING.

Ⓜ FAN MOTOR LOCATION.

MODEL NO.	APPROX. SHIPPING WEIGHT	APPROX. OPERATING WEIGHT	HEAVIEST SECTION (COIL)
VCI-N230PU	12370	16240	8220

CKT	LOAD	CODE	IN	OUT	PURGE
1	—	27	3⅛	3⅛	½
2	—	14	2⅛	2⅛	½
3	—	13	2⅛	2⅛	½

NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES. WEIGHTS ARE IN POUNDS.
2. UNLESS OTHERWISE INDICATED, ALL CONNECTIONS 6 INCHES AND SMALLER ARE MPT AND CONNECTIONS 8 INCHES AND LARGER ARE BEVELED FOR WELDING.
3. DIMENSIONS SHOWING LOCATION OF COIL CONNECTIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR PREFABRICATION OF CONNECTING PIPING.
4. FOR SUPPORT REQUIREMENTS, REFER TO THE SUGGESTED STEEL SUPPORT DRAWING.

B.A.C. ORDER NO: U01268240I MAD DATE:	BALTIMORE AIRCOIL COMPANY	EVAPORATIVE CONDENSER W/ SUBCOOLING COIL - RH UNIT DRAWING NUMBER: BAC-9831AX03 A

December 8, 2000

Baltimore Aircoil Company

Series VC1 Evaporative Condenser
Mechanical Specifications

G-235 (Z700 metric) Hot-Dip Galvanized Steel Construction

Project Name:	TOM THUMB # 560 - DALLAS, TX
Customer Name:	ALMCOE REFRIGERATION COMPANY - DALLAS, TX
Purchase Order No.:	1321-2419
Engineer Name:	
Model Number:	VC1-N230PU
B.A.C. Serial No.:	U012682401

Unit Type: Factory-assembled, counterflow, blow-through design evaporative condenser. All steel panels and structural members are constructed from G-235 (Z700 metric) hot-dip galvanized steel. The edges are given a protective coat of zinc-rich compound.

Quality Assurance: Each unit is manufactured under closely-controlled conditions using standardized parts to ensure each unit is built precisely to the same high-quality design and construction standards. The design, manufacture, and business processes are ISO 9001 certified.

Pan/Fan Construction: Heavy gauge panel construction of G-235 (Z700 metric) hot-dip galvanized steel. The centrifugal fans and motors are located in the dry entering airstream beneath the sloping side of the pan.

Access: Circular access doors constructed of G-235 (Z700 metric) hot-dip galvanized steel are held in place with phenolic knob screws.

Water Level Control: Bronze make-up valve with unsinkable polystyrene filled plastic float arranged for easy adjustment. The make-up valve is suitable for water supply pressures between 15 psig (103 kPa) and 50 psig (345 kPa).

Bleed-Off: Waste water bleed line with adjustable valve provided.

Pump: Close-coupled, vertically-installed, bronze-fitted, centrifugal pump(s) with mechanical seal is oriented to drain when the pan/fan section is drained. The pump motor(s) is totally enclosed, fan-cooled (TEFC), suitable for outdoor operation.

Strainer: Large area, lift out, G-235 (Z700 metric) hot-dip galvanized steel strainer screens have perforated openings sized smaller than the water distribution nozzle orifices. Strainer includes anti-vortexing baffle to prevent air entrainment.

Fan Wheels: Forwardly curved, centrifugal, squirrel cage type fan wheels, constructed from G-235 (Z700 metric) hot-dip galvanized steel, are statically and dynamically balanced. Fan housings have curved inlet rings for efficient air entry.

Fan Discharge Cowls: Fan discharge cowls, constructed of G-235 (Z700 metric) hot-dip galvanized steel, are provided on each fan. They extend within the pan to protect the fans from falling water.

Fan Shaft and Bearings: Models VC1-10 to VC1-135
Solid shaft of ground and polished steel with exposed surface coated with a rust preventative. Self-aligning, heavy-duty, grease-packed, ball bearings with eccentric locking collars are provided on each end of the shaft. Where intermediate bearings are required, self-aligning, oil lubricated, sleeve type bearings with split, cast iron, pillow-block housing are furnished.

Models VC1-150 and Larger
Hollow steel shaft, protected with two part epoxy, with bearing journals at each end. Solid polished steel journals are coated with a rust preventative. Self-aligning, heavy-duty, grease-packed ball bearings with eccentric locking collars are furnished at each end of the shaft.

TEFC Fan Motor(s): Fan motor(s) is totally enclosed, fan-cooled (TEFC) ball bearing type with 1.15 service factor, two speed, one winding, suitable for outdoor service and mounted on an adjustable motor base. Motor base is adjusted by means of a single threaded bolt-and-nut arrangement.

Drive: V-belt sheaves, selected for 150% motor nameplate horsepower, are mounted and aligned at the factory.

Fan Guard Screens: G-235 (Z700 metric) hot-dip galvanized steel screens are provided.

Heat Transfer Section: Heavy gauge panel construction of G-235 (Z700 metric) hot-dip galvanized steel. Heat transfer section is separable from pan/fan section.

Coil: Continuous 1.05" (27 mm) O.D. all prime surface steel encased in steel framework with entire assembly hot-dip galvanized after fabrication. Tubes sloped for liquid drainage. The coil header is partitioned. Each coil segment includes an inlet and outlet connection to allow independent operation of each segment. Coil has a maximum allowable working pressure of 300 psig (2170 kPa) and is tested at 375 psig (2685 kPa) air pressure under water.

Subcooling Coil: Continuous 1.05" (27 mm) O.D. all prime surface steel encased in steel framework with entire assembly hot-dip galvanized after fabrication. Tubes sloped for liquid drainage. Coil is tested to 350 psig (2400 kPa) air pressure under water.

Water Distribution System: Schedule 40 PVC spray header and branches. Removable branches and 360° spray pattern plastic spray nozzles are held in place with snap-in rubber grommets.

Drift Eliminators: Eliminators are constructed of polyvinyl chloride (PVC) and are removable in easily handled sections. They impart three distinct changes in air direction to effectively strip entrained moisture from the leaving airstream with minimum air resistance, and to direct discharge air away from fans.

Fan Discharge Dampers: Fan discharge dampers include a single airfoil-type damper blade in the discharge of each fan housing. The damper blade is made of hot-dip galvanized steel. The dampers are mounted on a transverse rod and are modulated by a manual damper linkage with a locking arm.

Extended Lubrication Lines: Bearing lubrication lines are extended to grease fittings located on the face of the unit.