


**BALTIMORE
AIRCOIL COMPANY**
QUOTE

TECHNICAL PRODUCTS SERVICE & SALES
PO BOX 7793 LOUISVILLE, KY 40257-7793 United States

Contact: Leo Huelsman
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BAC Quote # Q130253348 - 040513
Project: Lexington Police Training Center
Date: 4/5/2013
Expiration Date: Quote expires 30 days from date issued

TO **Lexington-Fayette Urban Government**
Lexington, KY, USA

Attn: Harold Shield

We are pleased to provide you with the following quote.

PLEASE NOTE: This replacement unit had identical dimensions, weight and connection size/location (except for the height) to the existing BAC Model VF1-027-32K unit with serial number U052728101. The added height is due to the inclusion a heavy duty positive closure damper assembly. This replacement unit also has identical electrical requirements as the existing unit.

SHIPPING METHOD F.O.B. FACTORY	LEAD TIME	PAYMENT TERMS
Bestway Freight Included		Due In 30 Days

#	QTY	PRODUCT ID	DESCRIPTION	TOTAL \$
1	1	VF1-027-32K	Model VF1-027-32K Closed Circuit Cooling Tower Unit	31,996.00
TOTAL				\$31,996.00

BAC will do its best to meet or improve the scheduled ship date. However, circumstances beyond our control may cause this ship date to change. In the event that it does change, BAC will not be held liable for any damages that may occur. BAC's standard "Terms and Conditions of Sale" apply to this order and may be viewed at www.BaltimoreAircoil.com/terms.

Notes:

1. Prices are quoted in USD currency.
2. The Quote number is required to place an order.
3. A Purchase Order (made out to Baltimore Aircoil Company) with Ship To Address, Bill To Address, and Signature must be sent to the above location.
4. Sales Tax will be added to the final invoice -- if the project is tax exempt, a Certificate will be required.

THANK YOU FOR YOUR BUSINESS!


**BALTIMORE
AIRCOIL COMPANY**
QUOTE

TO Lexington-Fayette Urban Government

BAC Quote # Q130253348 - 040513
 Project: Lexington Police Training Center
 Date: 4/5/2013

Quote Line Number Q13025334801

Quantity: 1 Model VF1-027-32KH CLOSED CIRCUIT COOLING TOWER

Certified Capacity: Unit is sized to replace the existing BAC Model VF1-027-32K with serial number U052728101.

Fan Motor(s): One (1) 15 HP fan motor(s): Totally Enclosed, Fan Cooled (TEFC),
 1 Speed/1 Winding - Premium Efficiency (Inverter Duty), suitable for 200 volt, 3 phase,
 60 hertz electrical service. Drives are based on 0 inches ESP.

NOTE: Inverter Duty fan motors, furnished in accordance with NEMA Standard Mg.1 -- Part 31, are required for applications using variable frequency drives for fan motor control.

Pump(s): One (1) 0.75 HP pump motor: 1 Speed/1 Winding - Standard Efficiency, suitable for 200 volt, 3 phase, 60 hertz.

Equipment Summary

- Forced Draft, Counterflow Closed Circuit Cooling Tower
- Quality Assurance - ISO 9001 Certified
- Unit Energy Efficiency per ASHRAE Standard 90.1-2010
- CTI Certified Thermal Performance
- Steel Panels and Structural Members are Constructed of Galvanized Steel
- Galvanized Steel Fan Wheel(s)
- Galvanized Steel, Full Circuit Coil
- Polyvinyl Chloride (PVC) Drift Eliminators
- Standard Unit Anchorage
- Integral Pump(s) with Standard Make-Up, Drain and Overflow Connections
- PVC Spray Branches
- Mechanical Float Valve Assembly
- Electric Immersion Heater(s) Sized to Maintain +40°F water at a 0°F Ambient with Electrical Requirements Matching Fan Motor(s)
- Copper Heater Elements
- Electric Immersion Heater Controls

- Extended Bearing Lubrication Lines
- Tapered Discharge Hood Constructed of Galvanized Steel with Galvanized Positive Closure Dampers and Damper Actuator

Equipment Details - All Information is Per Unit**Unit Type:**

This unit will be a factory fabricated, forced draft, counterflow closed circuit cooling tower with vertical discharge.

Quality Assurance:

Each unit will be 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 of Baltimore Aircoil Company are ISO 9001:2000 certified.

Unit Efficiency:

The unit(s) will comply with the energy efficiency requirements established by ASHRAE Standard 90.1-2010.

CTI Certification:

The thermal performance of this BAC unit has been certified through performance tests conducted by the Cooling Technology Institute in accordance with their standard STD-201. Such certification by an independent third party assures engineers and users that the published thermal capacities accurately reflect the actual unit performance. CTI certification eliminates the additional costs of on-site, individual unit testing, oversizing the equipment or operating cost penalties from deficient equipment.

Materials of Construction:

All steel panels and structural elements of the unit are heavy-gauge G-235 (Z700 metric) galvanized steel. This is the heaviest galvanizing commonly available in the industry, and is the accepted standard for evaporative cooling applications. This standard corrosion protection system will provide reliable protection and long life for most industrial cooling, air conditioning and refrigeration applications. The five-year warranty provided on all BAC evaporative cooling equipment is the most comprehensive fan motor and mechanical equipment warranty available in the industry. Included in the five-year warranty are the mechanical equipment support, fan(s), fan shaft(s), bearings, sheaves, and fan motor(s).

Fan Wheels:

The centrifugal fan wheels will be constructed of galvanized steel.

Coil Type:

Coil(s) will be constructed with continuous 1.05" O.D. all prime surface steel tubes encased in steel framework. Additionally, in models configured with two segments, (models ending with -2), the two segments will be joined by an external crossover pipe to allow the fluid to flow through the two segments in series. The entire assembly is hot-dip galvanized after fabrication. Tubes will be sloped for liquid drainage. Coil has a maximum allowable working pressure of 300 psig (2170 kPa) and is tested at 375 psig (2685 kPa) air pressure under water.

Drift Eliminators:

Drift eliminators will be constructed of polyvinyl chloride (PVC), and will be removable in easily handled sections. They will impart three distinct changes in air direction to effectively strip entrained moisture from the leaving airstream with minimum air resistance.

Unit Anchorage:

When supported as recommended, the unit has anchorage to resist windloads up to 30 psf (146.6 kg/m²) acting on the full vertical projected area with 16 psf (78.1 kg/m²) acting simultaneously on the full horizontal projected area

or seismic forces of 112% of the operating weight acting in the horizontal direction, and 14% of the operating weight acting in the vertical direction applied at the center of gravity.

Spray Water Pump Assembly:

Close-coupled, bronze-fitted pump(s) with mechanical seals will be mounted on the basin. The pump motor(s) will be totally enclosed, fan cooled (TEFC). A drainage connection will be provided to allow free draining when the basin is drained. Make-Up, Drain and Overflow connections will be located on the end of the unit.

Spray Distribution System:

Water distribution system is constructed of Schedule 40 PVC spray branches.

Basin Water Level Control:

Basin water level control assemblies will consist of large-diameter polystyrene-filled floats, adjustable linkages, and corrosion resistant make-up valves.

Basin Heater(s):

Units exposed to below freezing ambient temperatures require protection to prevent freezing of the basin water when the unit is idle. The heater(s) have been selected to maintain +40°F basin water temperatures offering a simple and inexpensive way of providing such protection. The electric immersion heater(s) is shipped separately in the cold water basin. Some field wiring is required.

Heater Element Material of Construction:

The unit is supplied with copper heater elements.

Basin Heater Control:

The heaters are installed in the basin and are controlled by a remote thermostat with the sensing bulb in the basin. A low-water cutoff switch prevents heater operation unless the heater elements are fully submerged. Some field wiring is required.

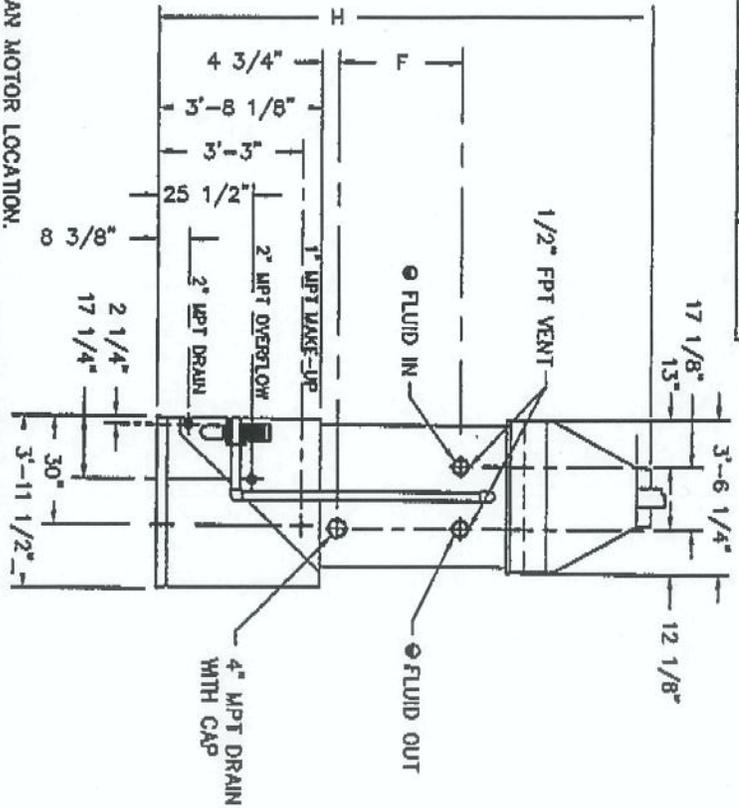
Extended Lube Line(s):

Bearing lubrication lines will be extended from each bearing to grease fittings located on the face of the unit for ease of access.

Air Discharge Option:

Tapered discharge hood will be constructed of galvanized steel. The hood will include galvanized positive closure dampers (PCD's), damper actuator, actuator end switch, and access doors.

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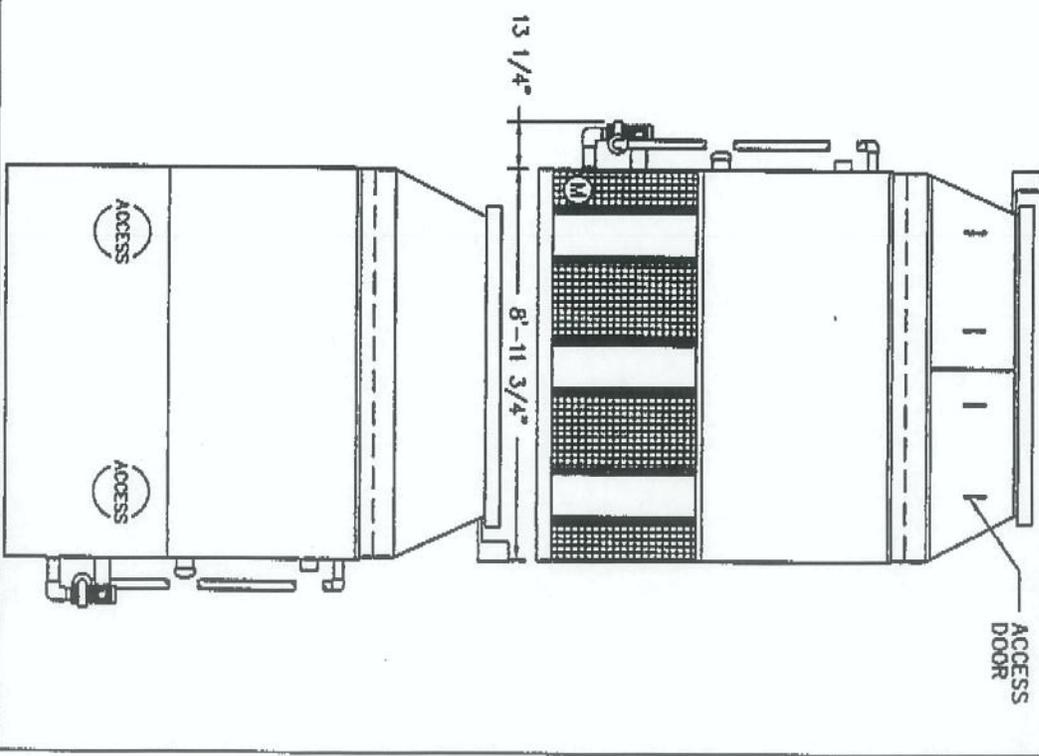
(M) FAN MOTOR LOCATION.

MODEL NO.	APPROX. SHIPPING WEIGHT	APPROX. OPERATING WEIGHT	HEAVIEST SECTION (COIL)	F	H
VF1-027-22	4160	5200	2470	33 1/4"	10'-10 7/8"
VF1-027-32	4590	5780	2850	42 1/2"	11'-7 5/8"
VF1-027-42	4980	6310	3240	51 3/4"	12'-5 3/8"

- 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 AND GROOVED FOR VICTALIC CONNECTION.
 3. DIMENSIONS SHOWING LOCATION OF COIL CONNECTIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR PREPARATION OF CONNECTING PIPING.
 4. FOR SUPPORT REQUIREMENTS, REFER TO THE SUGGESTED STEEL SUPPORT DRAWING.

B.A.C. ORDER NO.	<p>BALTIMORE AIRCOIL COMPANY</p>	RIGHT HAND UNIT
DATE:		END OUTLET WITH PUMP TAPERED HOOD WITH PCO'S <small>COILS IN RANGE</small> BAC-11601A

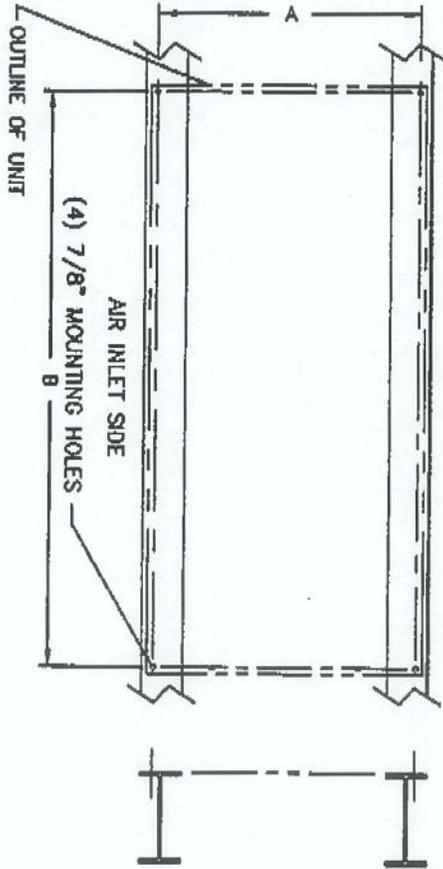
ITEM	DIAMETER	DESCRIPTION / COIL CONNECTIONS
1	4"	BEVELED FOR WELDING (BFW)
2	4"	(BFW) & GROOVED FOR MECH. COUPLING
3	4"	MALE PIPE THREAD (MPT)
4	4"	FLANGED (SEE NOTES)
5	4 1/8"	COPPER SWEAT FITTING



BAC-11601A

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BAC-15839A



- NOTES:**
1. THE RECOMMENDED SUPPORT ARRANGEMENT FOR VF1 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 DESIGNED IN ACCORDANCE WITH STANDARD STRUCTURAL PRACTICE. THE MAXIMUM ALLOWABLE DEFLECTION OF BEAMS UNDER THE UNIT SHALL BE * (REFER TO CHART) OF AN INCH.
 4. ALL MOUNTING HOLES ARE 7/8" DIAMETER. AT THE LOCATIONS SHOWN, 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 THESE DATA.

MODEL NO.	DIMENSION		*
	A	B	
VF1-009-12	45 3/8"	29 1/2"	3/32"
VF1-009-22			
VF1-009-32			
VF1-009-42			
VF1-018-02			
VF1-018-12			
VF1-018-22	45 3/8"	65 1/2"	3/16"
VF1-018-32			
VF1-018-42			
VF1-027-21			
VF1-027-22			
VF1-027-31	45 3/8"	101 1/4"	5/16"
VF1-027-32			
VF1-027-41			
VF1-027-42			
VF1-036-21			
VF1-036-22			
VF1-036-31	45 3/8"	137 1/2"	3/8"
VF1-036-32			
VF1-036-41			
VF1-036-42			
VF1-036-51			
VF1-048-21			
VF1-048-22			
VF1-048-31	54 1/4"	137 1/2"	3/8"
VF1-048-32			
VF1-048-41			
VF1-048-42			

B.A.C.
ORDER NO:

DATE:



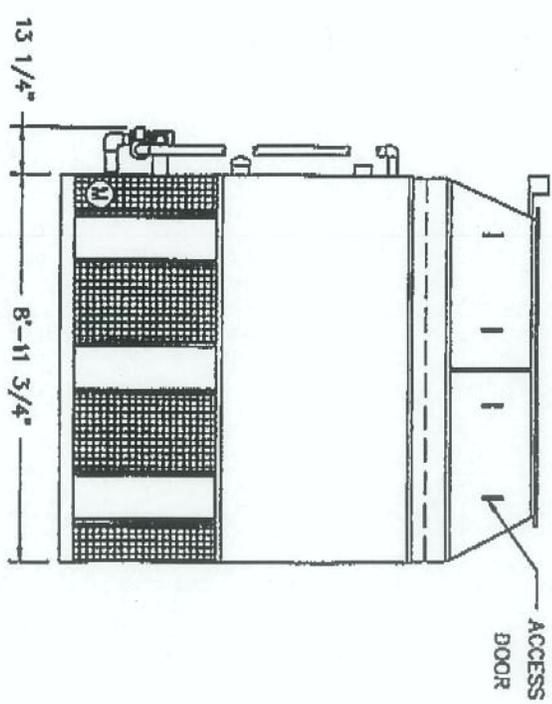
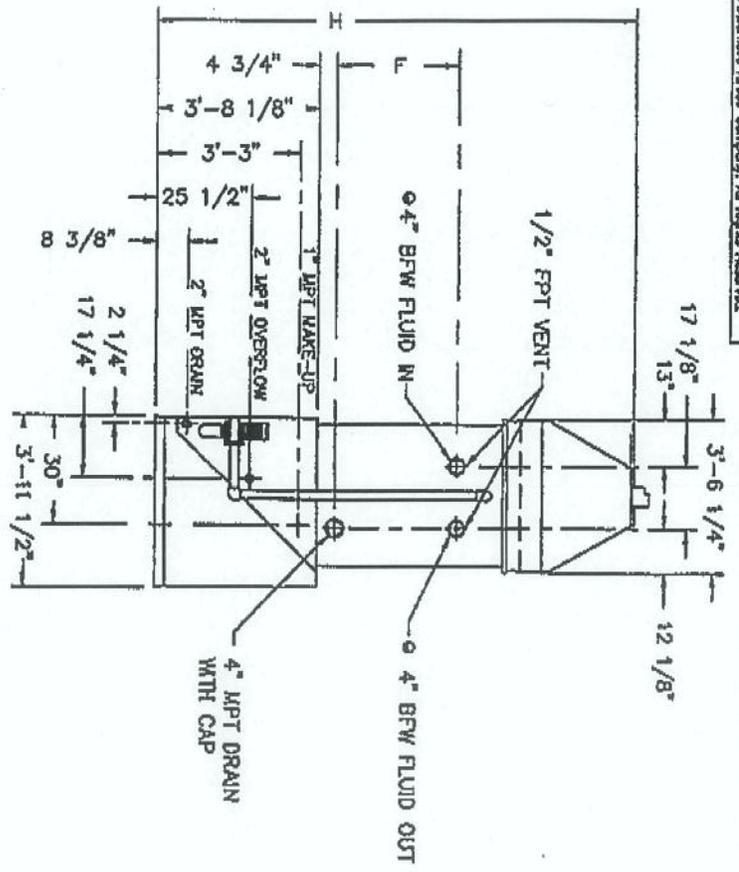
BALTIMORE AIRCOIL
COMPANY

SUGGESTED STEEL SUPPORT
FOR VF1 UNITS

DRAWING NUMBER:
BAC-15839A

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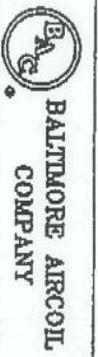


- ⊙ BFW BEVELED FOR WELDING.
- Ⓜ FAN MOTOR LOCATION.

MODEL NO.	APPROX. SHIPPING WEIGHT	APPROX. OPERATING WEIGHT	HEAVIEST SECTION (COIL)	F	H
VF1-027-32K4/HX	4590	5780	2650	42 1/2"	11'-4 5/8"

- NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES. WEIGHTS ARE IN POUNDS.
 2. UNLESS OTHERWISE INDICATED, ALL CONNECTIONS 6 INCHES AND SMALLER ARE 1/2" 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.

BAC
ORDER NO: U052728101
DATE: 4 MAR 05

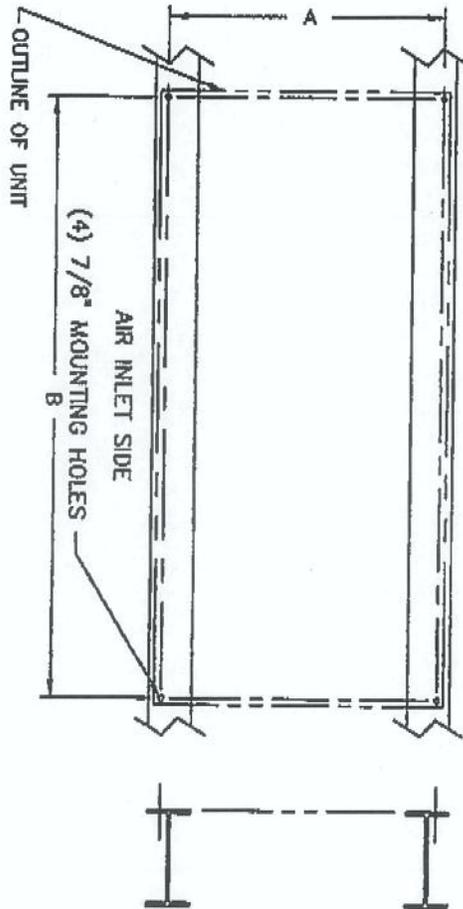


RIGHT HAND UNIT
END OUTLET WITH PUMP
TAPERED HOOD WITH PDS'S
DRAWING NUMBER:
BAC-11601A

BAC-11601A

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BAC-15839A



NOTES:

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MODEL NO.	DIMENSION		*
	A	B	
VF1-027-32	45 3/8"	101 1/4"	5/16"

BAC.
ORDER NO: U052728101

DATE: 4 MAR 05



BALTIMORE AIRCOIL
COMPANY

SUGGESTED STEEL SUPPORT
FOR VF1 UNITS

DRAWING NUMBER:
BAC-15839A

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