

Now In Production

BATTERYMARCH II, QUINCY, MA

One (1) 304 ton direct replacement **GREEN** rooftop unit, 91,000 cfm with DX cooling (**R-134A refrigerant**), evaporative condensing sections and variable frequency drives.

Representative: Noble & Associates. 317 Libbey Industrial Pkwy, Suite 100, Weymouth, MA 02189

Kevin Morrison: P 781-337-1630; F 781-337-9289





An existing 304 tons air cooled system will be replaced with a 304 ton evaporative cooled system with R-134A refrigerant. The existing unit consists of four (4) sections: two (2) air cooled condensing sections and two (2) air handler sections. 90,000 CFM of air is supplied to a common supply air opening.





The new unit will have two (2) evaporative condensing sections with two (2) 80 ton Copeland screw compressors per section. The units are designed to match the existing curb without any field supplied refrigeration piping and fully charged with R-134A refrigerant at the factory.





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Twin plenum airfoil blowers with premium efficiency motors, variable frequency drives, Automated Logic DDC system, bell mouth type supply air openings are some of the features provided.





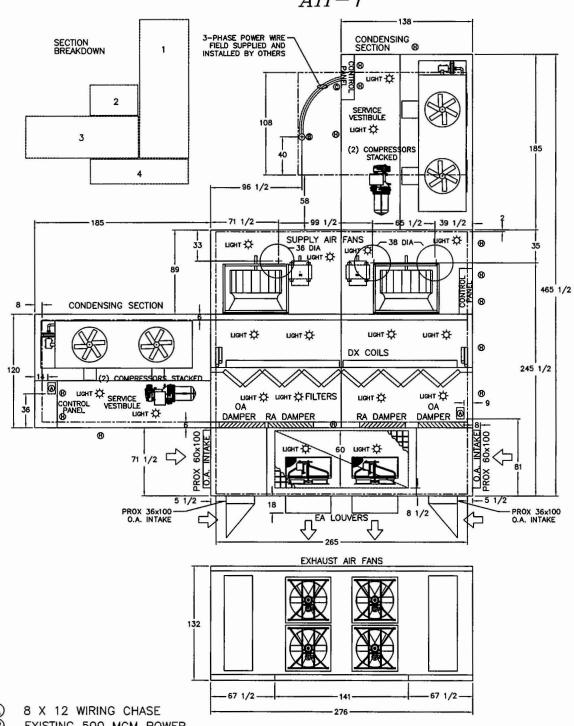
Kynar painted aluminum exterior panels, lights in all accessible sections are additional features. The sections are bolted and wired together for testing and then split into sections and shipped to the jobsite..





DIMENSIONAL DATA

BATTERYMARCH II QUINCY MA AH-1



- EXISTING 500 MCM POWER
 - 10" STATIONARY PANEL FOR FIELD CONNECTION
- HINGED ACCESS DOOR
 - SCREW-ON ACCESS DOOR
- LIFT-OFF ACCESS DOOR

020409 JZ REVISED REVISED 020309 JZ A361D01JZ 012609

NOTE: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION

ENGINEERING SPECIFICATIONS

JOB NAME	BATTERYMARCH II
LOCATION	QUINCY MA
DATE PREPARED	Revised: 03/26/09
SEASONS-4 REFERENCE #	A36101
UNIT MODEL #	6SZR39-3034-XXXXX-91SE
UNIT DESIGNATION	AH-1
SYSTEM VOLTAGE	460/3/60
DECION DATA	
DESIGN DATA	0.044.000
TOTAL COOLING CAPACITY (BTUH)	3,641,889
TOTAL AIRFLOW (CFM)	91,024
OUTDOOR AIR (CFM)	9,104 - 91,024
ESTIMATED REFRIGERANT CHARGE (LBS. R134A)	1310
EVAPORATIVE CONDENSER SUPPLY WATER SIZE	3/4"
EVAPORATIVE CONDENSER DRAIN SIZE	2-1/2"
COMPRESSOR SECTION	
COMPRESSOR SECTION	
COMPRESSOR:	OODEL AND OODELA
TYPE	COPELAND SCREW
NUMBER	4
STAGES OF CAPACITY	MODULATING
EVAPORATIVE CONDENSER	
FANS (NUMBER/HP)	4/5
AIRFLOW (CFM)	30,400
PUMPS (NUMBER/HP)	2/1.5
	2,1.0
COOLING COIL SECTION 1	
FACE AREA (SQ-FT)	166.7
ROWS/FPI	6/8
COIL CIRCUITS (NUMBER)	4
TOTAL CAPACITY (BTUH)	3,641,889
SENSIBLE CAPACITY (BTUH)	2,418,118
ENTERING AIR TEMP (FDB/FWB)	81.0/67.2
COIL LEAVING AIR TEMP (FDB/FWB)	56.8/54.2
CONDITIONED AIR (CFM)	91,024
SUPPLY AIR BLOWER SECTION	
TYPE	AF SWSI PLENUM
NUMBER/SIZE	2/54"
AIRFLOW (CFM)	91,024
TOTAL STATIC PRESSURE (TSP) IN WC	5.11
EXTERNAL STATIC (ESP) IN WC	2.64
DESIGN FAN SPEED (RPM)	785
FAN BHP (INCLUDING DRIVE LOSSES)	2 @ 49.98
MOTOR HP	2 @ 60
MOTOR DRIVE	FIXED SHEAVE
	. // 3:11.// [

ENGINEERING SPECIFICATIONS

TYPE	PROPELLER		
NUMBER/SIZE	4/36"		
AIRFLOW (CFM)	81,920		
TOTAL STATIC PRESSURE (TSP) IN WC	0.45		
EXTERNAL STATIC (ESP) IN WC	0.20		
DESIGN FAN SPEED (RPM)	1,155		
FAN BHP (INCLUDING DRIVE LOSSES)	4 @ 4.84		
MOTOR HP	4 @ 5		
MOTOR DRIVE	ADJUSTABLE SHEAVE		
FILTER SECTION			
TYPE	4" PLEATED		
NUMBER/SIZE	60/24x20		
TOTAL FACE AREA (SQ-FT)	200.0		
FACE VELOCITY (FPM)	455		
UNIT WEIGHT SUMMARY			
REFRIGERATION SECTION WITH BLOWER (SECTION 1)	22,900		
REFRIGERATION SECTION WITHOUT BLOWER (SECTION 3)	16,670		
BLOWER SECTION (SECTION 2)	5,295		
EXHAUST FAN SECTION (SECTION 4)	4,705		
WATER ADDER FOR EACH CONDENSER	2,670		
UNIT TOTAL WITHOUT WATER	49,570		
UNIT TOTAL WITH WATER	54,910		

ENGINEERING SPECIFICATIONS ELECTRICAL DATA

JOB NAME					BATTE	ERYMARCH II		
LOCATION QUINCY MA								
DATE PREPARED Revised: 03/26/09								
SEASONS-4 REF NUMBER		A36101	UNIT MODE	L 6S2	ZR39-3034-	XXXXX-91SE		
UNIT DESIGNATION						AH-1		
SYSTEM VOLTAGE	460	CONTROL VOLTAGE	120	EXT.	VOLTAGE	24		
<u>ITEM</u>	<u>QTY</u>	<u>HP</u>	<u>FLA</u>	<u>LRA</u>	<u>KW</u>	<u>TYPE</u>		
COMPRESSOR 1 EVAP COND FAN EVAP COND PUMP SA FAN EXH FAN CONTROL CIRCUIT CONVENIENCE OUTLET TOTALS (COOL) TOTALS (HEAT)	4 4 2 2 4 16	*** 5.0 1.5 60.0 5.0 ***	6.8 2.6	632.0 46.0 20.0 470.0 51.0	53.8 4.5 1.5 39.2 1.7 321.6	SCA2-800E Bald Bald 10 Amps		
M.C.A.	782	(MINIMUM CIRCUIT A	MPACITY)					

(MAXIMUM OVERLOAD PROTECTION)

65,000 (SHORT CIRCUIT CURRENT RATING)

900

M.O.P.

S.C.C.R.