

Now In Production

OptiSolar, McClellan, CA

Nine (9) Custom new single-zone units with 135 tons of DX cooling, air cooled condensing sections and direct drive supply air blowers. Ambient design 102 deg F, total unit EER 11.5 **Representative**: EI Systems/Tempco, 555 Twin Dolphin Plaza S 630, Redwood City, CA 94065 Brain Mazur / Wais Jalali; P 650-596-1700; F 650-596-1701

OptiSolar manufactures **photovoltaic** (PV) modules and products power from their own **large-scale solar farms.** OptiSolar engineers are require reliability, performance, and efficiency; and Seasons-4 is the manufacturer of their choice.





Units consist of formed, welded and coated galvanized steel base, HCFC- free R-410A refrigerant, six (6) scroll compressors piped independently to 6 intertwined DX coils. Isolation dampers and walking grating are provided on supply and return air openings.





Direct drive supply air blowers with shaft grounding kits, premium efficiency motors, 2" spring isolators with Zone-4 seismic tie downs, and direct drive propeller exhaust fans are some of the requirements of the project.





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Painted interior liner, 12" cartridge filters, filter rack for future HEPA filters, magnehelic filter gauges with sun shields, photoelectric supply and return smoke detectors and ABB variable frequency drives on supply and exhaust fan motors are some of features provided for the units.





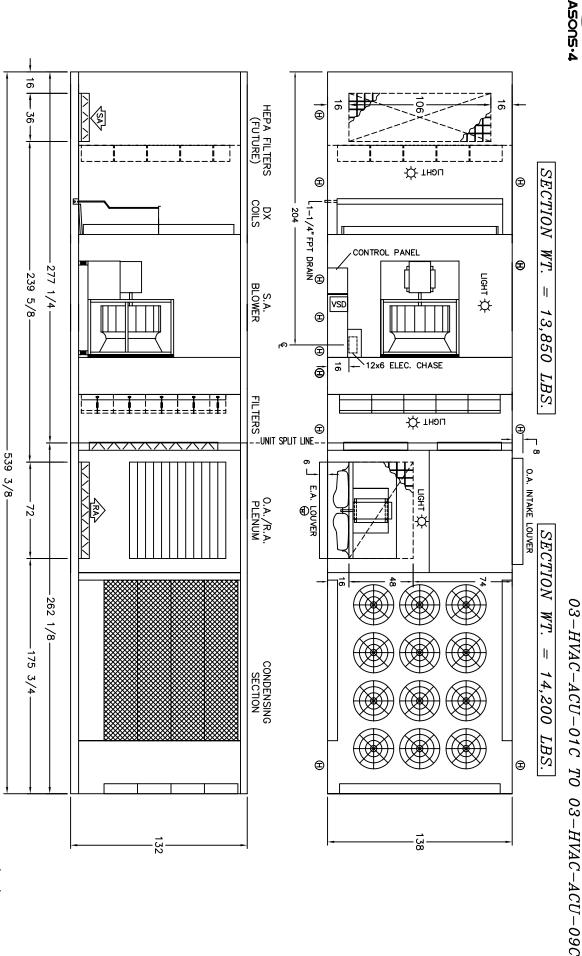
Separate high voltage and low voltage conditioned control panels are required. Kynar painted aluminum exterior panels with single handle, multiple latches doors are additional features. The units are build in two sections to be rigged with a helicopter.





DIMENSIONAL DATA

OPTI SOLAR MCCLELLAN, CA IVAC-ACII-01C TO 03-HVAC-ACI



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REVISION REVISION REVISION

SPP CCB

STATIONARY ACCESS PANEL LIFT-OFF ACCESS DOOR

ENGINEERING SPECIFICATIONS

JOB NAME	OPTI SOLAR		
LOCATION	MCCLELLAN, CA		
DATE PREPARED	Revised: 07/29/08		
SEASONS-4 REFERENCE #	A167-01		
UNIT MODEL #	3SST45-1356-XXXXX-45SE		
UNIT DESIGNATION	03-HVAC-ACU-01C TO 03-HVAC-ACU-09C		
SYSTEM VOLTAGE	460/3/60		
DESIGN DATA TOTAL COOLING CAPACITY (BTUH): SENSIBLE CAPACITY (BTUH): TOTAL AIRFLOW (CFM) OUTDOOR AIR (CFM) ESTIMATED REFRIGERANT CHARGE (LBS. R410A) E.E.R @ DESIGN CONDITIONS (AS SHIPPED) E.E.R @ ARI 360 CONDITIONS	1,626,066 1,308,149 44,500 10,000 - 44,500 575 9.5 11.5		
COMPRESSOR SECTION			
COMPRESSOR: TYPE NUMBER STAGES OF CAPACITY	COPELAND SCROLL 6 6		
AIR COOLED CONDENSER SECTION			
CONDENSER COIL: COIL FACE AREA/ROWS/FPI	275.0/6/11		
DESIGN AMBIENT TEMPERATURE (FDB):	102.0		
CONDENSER FANS:	DDODELLED		
TYPE DIA/RPM	PROPELLER 30/1,140		
QTY/HP	12/1.0		
COOLING COIL SECTION FACE AREA (SQ-FT)	90.6		
ROWS/FPI	6/9		
COIL CIRCUITS (NUMBER) TOTAL CAPACITY (BTUH)	<u>6</u> 1,626,066		
SENSIBLE CAPACITY (BTUH)	1,308,149		
ENTERING AIR TEMP (FDB/FWB)	85.0/67.5		
COIL LEAVING AIR TEMP (FDB/FWB) CONDITIONED AIR (CFM)	58.3/55.8 44,500		
	44,000		
SUPPLY AIR BLOWER SECTION TYPE	AF SWSI PLENUM		
NUMBER/SIZE	1/44.5"		
AIRFLOW (CFM)	44,500		
TOTAL STATIC PRESSURE (TSP) IN WC	5.08		
EXTERNAL STATIC (ESP) IN WC	2.50		
DESIGN FAN SPEED (RPM) FAN BHP (INCLUDING DRIVE LOSSES)	1,078 50.8		
MOTOR HP	75.0		
MOTOR DRIVE	DIRECT DRIVE		
	D.I.COT DIGITE		

ENGINEERING SPECIFICATIONS

EXHAUST AIR FAN SECTION	
TYPE	PROPELLER
NUMBER/SIZE	1/48"
AIRFLOW (CFM)	34,500
TOTAL STATIC PRESSURE (TSP) IN WC	1.35
EXTERNAL STATIC (ESP) IN WC	1.00
DESIGN FAN SPEED (RPM)	1,080
FAN BHP (INCLUDING DRIVE LOSSES)	16.3
MOTOR HP	20.0
MOTOR DRIVE	DIRECT DRIVE
PRE-FILTER SECTION	
TYPE	2" PLEATED
NUMBER/SIZE	20/24x24, 5/12x24
TOTAL FACE AREA (SQ-FT)	90.0
FACE VELOCITY (FPM)	494
AIR PRESSURE DROP	0.25" CLEAN / 0.50" (DIRTY)
AIRT REGOOKE BROI	0.20 GEE/HY 0.00 (BHY11)
CARTRIDGE FILTER SECTION	
TYPE	12" CARTRIDGE (95% EFFICIENCY)
NUMBER/SIZE	20/24x24, 5/12x24
TOTAL FACE AREA (SQ-FT)	90.0
FACE VELOCITY (FPM)	494
AIR PRESSURE DROP	0.58" (CLEAN) / 1.0" (DIRTY)
HEPA FILTER SECTION (FUTURE)	
TYPE	12" HEPA (HIGH CAPACITY)
NUMBER/SIZE	· · · · · · · · · · · · · · · · · · ·
TOTAL FACE AREA (SQ-FT)	20/24x24, 5/12x24 90.0
FACE VELOCITY (FPM)	494
AIR PRESSURE DROP	1.4"
AIR FRESSORE DROF	1.4
UNIT SPLIT WEIGHT SECTION	
SECTION 1 (CONDENSER, COMPRESSOR & ECONOMIZER S	SECTION) 14,200
SECTION 2 (SA FAN, FILTERS & DX-COIL SECTION)	13,850
UNIT WEIGHT (LBS)	29,950
·/,	20,000

ENGINEERING SPECIFICATIONS ELECTRICAL DATA

JOB NAME						OPTI SOLAR		
LOCATION	MCCLELLAN, CA							
DATE PREPARED	Revised: 07/29/08							
SEASONS-4 REF NUMBER	1	A167-01	UNIT MOD	DEL 388	ST45-1356-	XXXXX-45SE		
UNIT DESIGNATION 03-HVAC-ACU-01C TO 03-HVAC-ACU-09C								
SYSTEM VOLTAGE	460	CONTROL VOLTAGE	120	EXT. \	OLTAGE	24		
<u>ITEM</u>	<u>QTY</u>	<u>HP</u>	<u>FLA</u>	<u>LRA</u>	<u>KW</u>	<u>TYPE</u>		
COMPRESSOR 1 COND FAN(1) SA FAN EXH FAN CONTROL CKT CONVENIENCE OUTLET TOTALS (COOL) TOTALS (HEAT)	6 12 1 1 20 2	*** 1.0 75.0 20.0 ***	33.9 2.0 85.0 23.5 3.3 3.3 342.4	225.0 12.0 522.0 160.8	18.7 1.0 39.9 13.1	ZP235KCE Bald Bald 10 Amps		
M.C.A. M.O.P.	364	☐(MINIMUM CIRCUIT AI	ŕ					

65,000 (SHORT CIRCUIT CURRENT RATING)

S.C.C.R.