

EQUIPMENT DESCRIPTION	QTY.	ELECTRICAL REQUIREMENTS										AIR CONDITIONING REQUIREMENTS			PER UNIT WEIGHT			SIZE (IN. (mm))			
		VOLTAGE	Ø	Hz	WIRES	PER UNIT (TOTAL) KVA	PER UNIT (TOTAL) KW	POWER FACTOR	CIRCUIT SIZE	RECEP TYPE	PER UNIT (TOTAL) KBTU/HR	PER UNIT (TOTAL) KW	PER UNIT (TOTAL) TONS	WEIGHT LB. (kg)	WIDTH	DEPTH	HEIGHT				
COMPUTE CABINET (COMPUTE)	1	208 or 400	3	60 or 50	4 or 5	14.80 (14.80)	14.50 (14.50)	.98	80 AMP at 208 or 63 AMP at 400	DIRECT WIRED HUBBELL LB-20R or IEC 309	49.47 (49.47)	14.50 (14.50)	4.12 (4.12)	1529 (694)	22.50 (572)	56.75 (1441)	80.50 (2045)				
RAID DISK CABINET (DISK)	1	208 or 230	1	60 or 50	3	6.48 (6.48)	6.16 (6.16)	.95	QTY-4 EACH 20 AMP	HUBBELL LB-20R	21.02 (21.02)	6.16 (6.16)	1.75 (1.75)	1300 (590)	23.75 (603)	37.25 (946)	78.50 (1994)				
SYSTEM MAINTENANCE WORKSTATION (SMW)	1	120 or 230	1	60 or 50	3	0.47 (0.47)	0.45 (0.45)	.95	QTY-1 EACH 15 AMP	NEMA 5-15R 309	1.54 (1.54)	0.45 (0.45)	0.13 (0.13)	91 (41)	30.00 (762)	27.50 (699)	19.25 (489)				
SYSTEM TOTAL											(21.75)	(21.11)				(72.03)	(21.11)	(6.00)			

1. THIS DOCUMENT IDENTIFIES THE GENERAL POWER, COOLING, AND ENVIRONMENTAL REQUIREMENTS ASSOCIATED WITH PREPARING A FACILITY FOR THE INSTALLATION OF A CRAY XT3 COMPUTER SYSTEM. FOR ADDITIONAL QUESTIONS E-MAIL "site@cray.com".

2. PER UNIT FIGURES DISPLAYED IN THE ELECTRICAL AND AIR CONDITIONING COLUMNS REPRESENT MAXIMUM OPERATING CONDITIONS FOR THE EQUIPMENT. THE FIGURES DISPLAYED IN PARENTHESES REPRESENT THE POWER AND HEAT REJECTION FOR THE SYSTEM CONFIGURATION THAT IS SPECIFIC TO THIS DOCUMENT.

3. ELECTRICAL REQUIREMENTS: FACILITY WIRING MUST BE SIZED IN ACCORDANCE WITH THE ASSOCIATED VALUES DISPLAYED IN THE ELECTRICAL REQUIREMENTS SECTION OF THE CHART. ALL ELECTRICAL WIRING MUST CONFORM TO LOCAL AND NATIONAL CODES. ANY CIRCUIT BREAKERS PROVIDED BY THE CUSTOMER MUST BE CAPABLE OF BEING LOCKED OUT TO FACILITATE "LOOK-OUT/TAG-OUT" PROCEDURES.

4. OVERCURRENT PROTECTION: CIRCUITS SUPPLYING POWER TO GRAY EQUIPMENT MUST BE PROTECTED WITH CIRCUIT BREAKERS SIZED IN ACCORDANCE WITH THE AMPERAGE RATING DISPLAYED ON THE CHART.

5. EQUIPMENT POWER CONNECTION NUMBERS IN THE "RECEPTACLE TYPE" COLUMN ARE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) REFERENCE NUMBERS (UNLESS OTHERWISE NOTED) WHICH IDENTIFY THE CUSTOMER SUPPLIED MATING BOX MOUNTED RECEPTACLES. AT THE CUSTOMER OPTION EQUIVALENT IN-LINE CORD CONNECTION RECEPTACLES MAY BE UTILIZED IN LIEU OF THE BOX MOUNTED RECEPTACLES.

6. A 4-PLEX RECEPTACLE IS REQUIRED FOR THE SYSTEM MAINTENANCE WORKSTATION (SMW).

7. ENVIRONMENTAL REQUIREMENTS (RECOMMENDED RANGE):

TEMPERATURE:	COMPUTER ROOM: 64-77F (18-25C) SUBFLOOR (NOMINAL): 55F (13C)	TEMPERATURE RATE OF CHANGE MUST NOT EXCEED 9F/HOUR (5C/HOUR)
HUMIDITY:	30% TO 50% NON-CONDENSING	HUMIDITY RATE OF CHANGE MUST NOT EXCEED 10% RELATIVE HUMIDITY/HOUR

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MACHINE UNIT SPECIFICATION CRAY XT3 INITIAL UNIV. OF NEW MEXICO PROPOSAL		DRAWN BY: JAY YOUNG	APPROVED BY: BOB HOEHN
		APPROVAL DATE: 12-13-04	DRAWING SCALE: 1=1
		DRAWING NUMBER 10661293	REVISION