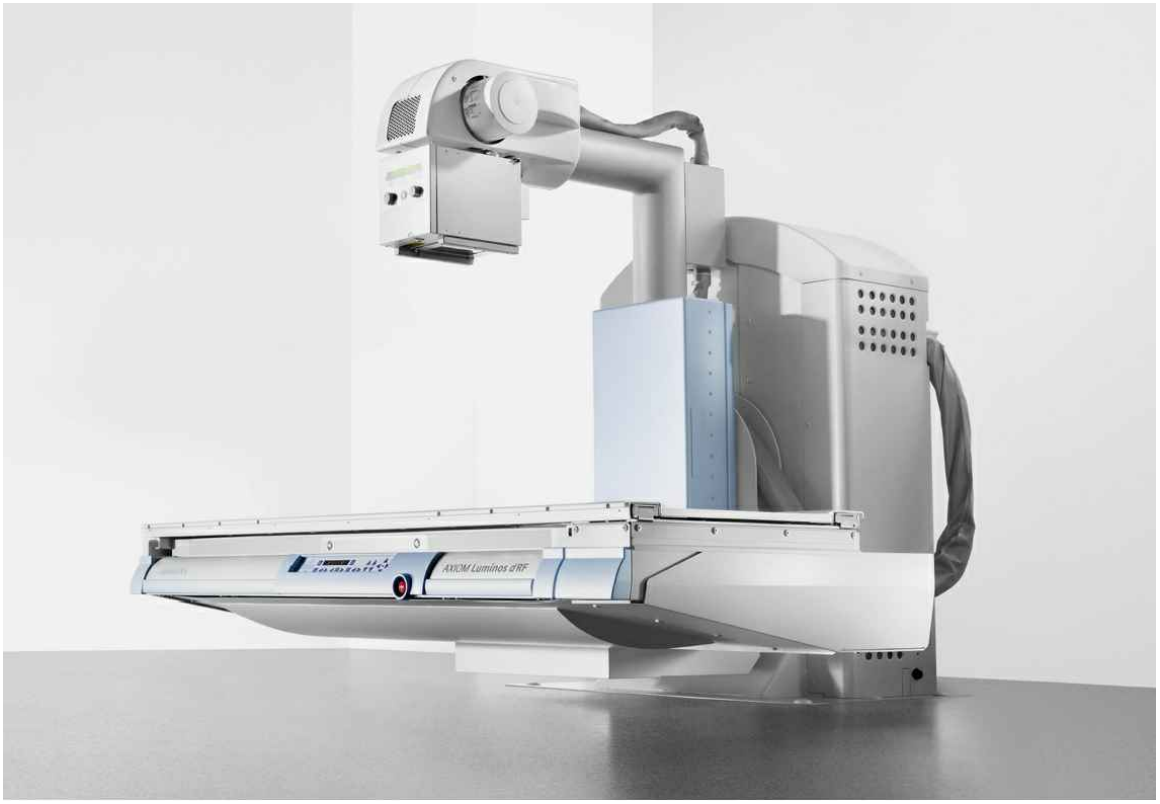
SIEMENS

LUMINOS dRF / dRF MAX (90/90-45) SYSTEM

TYPICAL ROOM PLAN



The intended use for this Cut Sheet is to communicate the spatial requirements as well as the basic architectural, electrical, structural, and mechanical requirements for this piece of imaging equipment. The information provided in this document is for reference only, during the pre-planning stage, and therefore does not contain any site specific detailed requirements. This information is subject to change without notice. Federal, state and/or local requirements may impact the final placement of the components. It is the customer's responsibility to ensure that the final layout and placement of the equipment complies with all applicable requirements.

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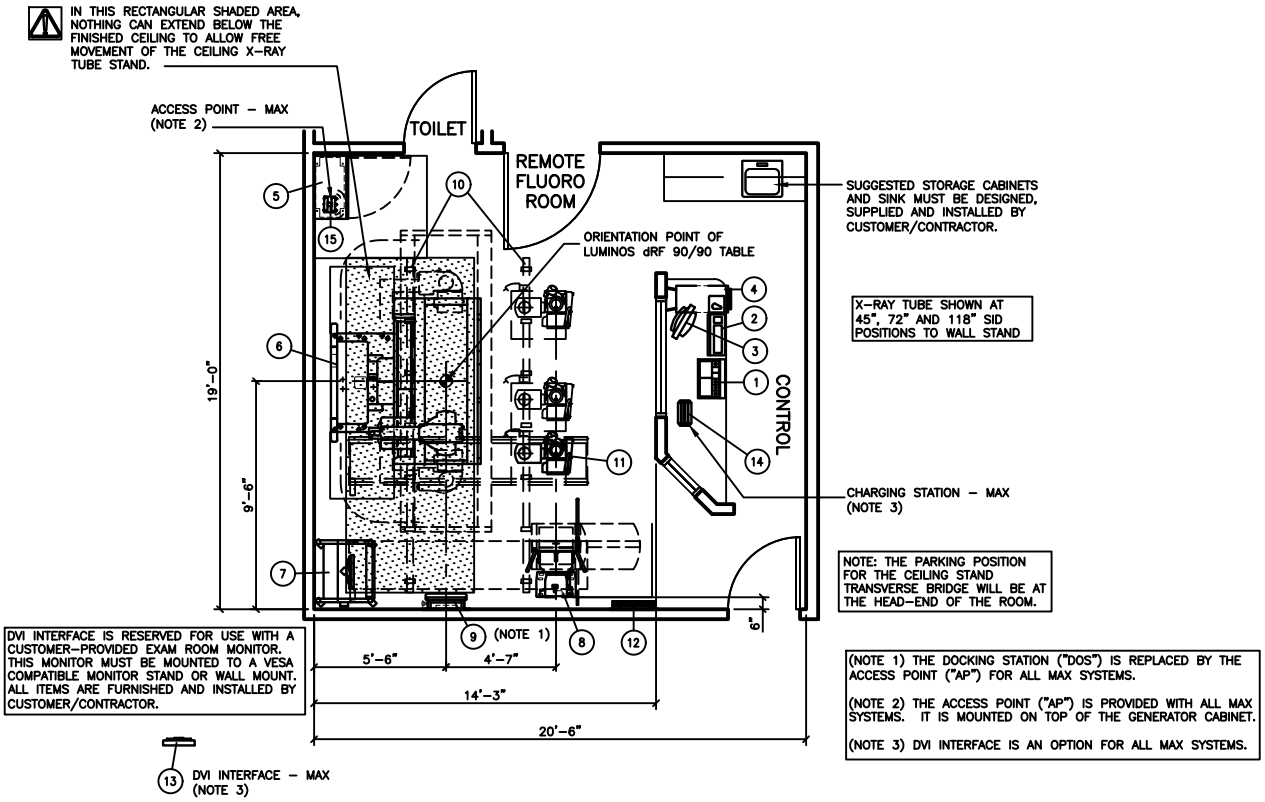

TYPICAL PLAN SCALE: 1/8" = 1'–0"

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LUMINOS dRF / dRF MAX (90/90-45) SYSTEM

SPECIFICATIONS

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES) W	D	H	REMARKS
1	CONTROL CONSOLE (GENERATOR & REMOTE CONTROL)	CRT	10	34	19 1/2	13 3/4	3 7/8	ON CUSTOMER'S COUNTER
2	FLUOROSPOT COMPACT – KEYBOARD AND MOUSE	–	–	–	–	–	–	ON CUSTOMER'S COUNTER
3	B/W FLAT SCREEN CONTROL ROOM MONITOR	–	–	–	–	–	–	ON CUSTOMER'S COUNTER
4	FLUOROSPOT–COMPACT CONTAINER (UNDER COUNTER)	IS	110	1,468	17 3/8*	32 1/2*	27*	*INCLUDES 5 1/8" BEHIND, 4" ABOVE AND ALONG CONTAINER.
5	POLYDOROS F80 (80 kW) GENERATOR CABINET	PU	838	2,048**	31 1/2	17 1/8	86 3/4	**DURING OPERATION, 1,195 IN STANDBY MODE
6	LUMINOS dRF (+90/–90) REMOTE TABLE	P1	2,911	2,730	83	75	107***	***MAX. AT 60" SID.
7	18" FLAT DISPLAY ON CART	D2	187	256	33 1/4	28 3/8	60	
8	YSIO WALL STAND WITH MOBILE DETECTOR (LEFT LOADING)	WS	551	819	30	37*A	83	*A – MAX. IN HORIZONTAL POSITION
9	(*) DOCKING STATION (WALL MOUNTED)	DOS	40	256	20 3/8	7 13/16	16 1/4	WITHIN 11.5 FT. OF WALL STAND
10	4.25M RAILS FOR FULLY SYNCHRONIZED TUBE STAND	–	59	–	167 3/8	3	3 1/2	SIZE AND WEIGHT PER RAIL
11	3M TRANSVERSE BRIDGE AND X–RAY TUBE STAND	TS	772	853	119 1/4	39	*43	*TUBE CARRIAGE IN PK POS
12	GRID HOLDER (WALL MOUNTED)	–	22	–	21 11/16	4	16 9/16	SUGGESTED LOCATION
13	(MAX) DVI INTERFACE FOR EXAM ROOM DISPLAY (OPTION)	MON	–	–	–	–	–	CUSTOMER PROVIDES MONITOR
14	(MAX) CHARGING STATION FOR MAX DETECTORS (OPTION)	–	–	–	–	–	–	ON CUSTOMER'S COUNTER
15	(MAX) ACCESS POINT (TOP OF GENERATOR)	AP	4	–	8	5.5*A	3*B	*A 12 1/4, *B 9" INCLUDING ANTENNAE
⬡	(*) – THIS ITEM IS ELIMINATED FOR ALL MAX SYSTEMS (MAX) – ITEM ADDED FOR MAX SYSTEMS ONLY		–	–	–	–	–	

CEILING HEIGHT REQUIREMENTS

SYSTEM CONFIGURATION		CEIL. HT. RANGE
TABLE ONLY		8'–3" TO 10'–6"
CEILING STAND + TABLE +/– WALL STAND		8'–9" TO 9'–3"
CEILING STAND + TABLE +/– WALL STAND (+TUBE EXT.)		9'–4" TO 10'–2"
PATIENT TABLE (ONLY) EXAMS		**MINIMUM CEIL. HT.**
TABLE X–RAY TUBE TO INTEGRATED TABLE BUCKY (0 DEG. POS.) USING LOWEST POSSIBLE TABLE TOP HEIGHT 2'–1 1/2" [25 1/2"]	45" SID	8'–3"
	60" SID	
TABLE X–RAY TUBE TO UPRIGHT (+/–90) INTEGRATED TABLE BUCKY FOR ORTHO (NOTE 1)		8'–10"

1. WITH 8'–3" MIN. CEILING HT., +/–90 DEG. VERTICAL TABLE TOP TRAVEL IS 13".

LUMINOS dRF TECHNICAL DATA

ENVIRONMENT:	59°F – 95°F OPERATING ROOM TEMPERATURE 20% – 75% PERMISSIBLE RELATIVE AIR HUMIDITY (NON–CONDENSING)
TRANSPORTING/ RIGGING:	LARGEST CRATE: 97"L X 60"W X 56"H MINIMUM ELEVATOR SIZE: 117"L X 34"W X 60"H HEAVIEST SINGLE PIECE: 2,448 LBS. WITH PACKING 1,874 LBS. WITHOUT PACKING MINIMUM DOOR OPENING (FOR TABLE): 48" WIDE WITH MINIMUM 6'–11" CORRIDOR WIDTH. ALSO, 34" WIDE OPENING WITH MINIMUM 9'–7" CORRIDOR WIDTH. LARGEST PIECE (TABLE TRANSPORT CARRIAGE): 115"L X 33"W X 57"H (WHEELS OUTSIDE) 106"L X 33"W X 57"H (2–WHEELS INSIDE) 94"L X 33"W X 57"H (ALL WHEELS INSIDE)

REV 0

MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
SEE CHART	10'–7"	9'–5"

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LUMINOS dRF / dRF MAX (90/90-45) SYSTEM
SPECIFICATIONS

POLYDOROS F80 80kW

X–RAY GENERATOR POWER REQUIREMENTS

INCOMING POWER:	480 VOLTS, 3 PHASE, 60Hz
CIRCUIT BREAKER:	80 AMPS.
GENERATOR OUTPUT:	80 kW
ALLOWABLE IMPEDANCE:	≤ 0.16 Ω
MAXIMUM MOMENTARY LOAD:	126 kVA
LINE VOLTAGE VARIATION:	± 10% MAX.
PHASE IMBALANCE:	± 2%
FREQUENCY VARIATION:	± 1 Hz

NOTE:
ALL INCOMING POWER SUPPLIES, FOR THE SIEMENS EQUIPMENT, ARE TO BE DEDICATED (BACK TO SOURCE) ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT, SUCH AS, ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.

A NEUTRAL CONDUCTOR, IF PRESENT, IS NOT USED FOR THE LINE VOLTAGE CONNECTION TO THE SIEMENS EQUIPMENT. IF THE NEUTRAL CONDUCTOR IS PROVIDED, IT SHOULD NOT BE ELECTRICALLY CONNECTED AT ANY POINT IN THE POWER DISTRIBUTION TO THE SIEMENS EQUIPMENT UNLESS SPECIFICALLY REQUIRED. UNINTENTIONAL NEUTRAL TO GROUND BONDS MAY VIOLATE LOCAL AND NATIONAL ELECTRICAL CODES, AS WELL AS CREATE GROUNDING PROBLEMS.

IF AN ON–SITE TRANSFORMER IS REQUIRED TO OBTAIN XP MODALITY OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER & CONDUCTORS).

ATTENTION:
SIEMENS MEDICAL SYSTEMS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS, AND OVERVOLTAGES.

REV 2

WIRELESS DETECTOR CONNECTION

OPERATION OF THE WIRELESS DETECTOR CAN BE AFFECTED BY OTHER WLAN DEVICES IN THE VICINITY OF THIS INSTALLATION. TO AVOID ANY CONFLICTS, THE CUSTOMER MUST PROVIDE A LIST OF EXISTING WLAN CHANNELS (FREQUENCIES) OR THE SPECIFIC CHANNEL (FREQUENCY) THEY DESIRE TO BE USED FOR THE WIRELESS DETECTOR.

THE WIRELESS CONNECTION IS ENCRYPTED (WPA2) AND IS BASED ON TWO WLAN STANDARDS, WITHIN WHICH SEVERAL CHANNELS (FREQUENCIES) ARE AVAILABLE:
1) 11G STANDARD – OPERATES AT 2.5 GHz
2) 11A STANDARD – OPERATES AT 5 AND 6 GHz

THE STANDARD (11G OR 11A) CAN BE SET BY SIEMENS SERVICE VIA THE SERVICE SOFTWARE INSTALLED ON THE IMAGING SYSTEM.

THE WIRELESS CONNECTION IS ONLY USED TO TRANSFER DATA BETWEEN SIEMENS EQUIPMENT AND IS NOT USED TO SEND DATA TO THE CUSTOMER'S NETWORK.

REV 0

SYSTEM TECHNICAL DATA

TRANSPORTING INFORMATION

		SIZE	WEIGHT
TRANSVERSE BRIDGE	3 M	126"L x 32"W x 10"H	419#
	4 M	174"L x 32"W x 10"H	512#
LONGITUDINAL RAILS	4 M	167"L x 3"W x 4"H	59# EACH
	5 M	197"L x 3"W x 4"H	82# EACH
DCS–1/2	4 M	167"L x 3"W x 3"H	441#
X–RAY TUBE STAND (FULLY SYNCHRONIZED)		67"L x 41"W x 53"H	827#
WALL STAND WITH MOBILE DETECTOR (WITH PACKING)		35"L x 93"W x 41"H	898#
MINIMUM DOOR OPENING:		3'–5 3/8"	
MINIMUM CORRIDOR WIDTH:		6'–11"	

ENVIRONMENTAL CONDITIONS

	IN OPERATION	TRANSPORT
PERMISSIBLE AMBIENT TEMPERATURE (WITH WIRELESS DETECTOR)	59°F TO 82°F	–4°F TO 131°F
PERMISSIBLE RELATIVE HUMIDITY	20% TO 75%	5% TO 95%

REV 0

REMOTE SYSTEM DIAGNOSTICS

SIEMENS REMOTE SERVICES (SRS) REQUIRES A CONNECTION BETWEEN THE SRS REMOTE SERVER AND SIEMENS SYSTEMS VIA REMOTE LOCAL AREA NETWORK ACCESS, TO ENSURE THE UPTIME OF YOUR SYSTEM. A CUSTOMER VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE IS PREFERRED.

FOR MORE INFORMATION

FOR MORE DETAILED PLANNING REQUIREMENTS FOR THIS SYSTEM, SEE THE TYPICAL FINAL DRAWING SET NUMBER: 08015

LUMINOS dRF / dRF MAX (90/90-45) SYSTEM

SPECIFICATIONS

MAXIMUM CABLE DISTANCES BETWEEN COMPONENTS

	CONTROL CONSOLES	FLUOROSPOT COMPACT	GENERATOR	LUMINOS dRF TABLE	MOBILE FLAT DISPLAY CART	CEILING TUBE STAND	DETECTOR WALL STAND	DOCKING STATION
GENERATOR	–	59'–0"	–	22'–0"	–	32'–0"	36'–0" 52'–6" (NOTE 1)	36'–0"
FLUOROSPOT COMPACT	11'–0"	–	59'–0"	–	32'–0"	–	–	–
LUMINOS dRF TABLE	59'–0"	–	22'–0"	–	–	–	–	–

NOTE 1 – MAX SYSTEM OPTION: 16 METER CABLE EXTENSION MUST BE SELECTED.

THE DISTANCES LISTED ABOVE ARE CALCULATED AS THE MAXIMUM CABLE LENGTH BETWEEN CABLE ENTRY POINTS. DEPENDING ON THE COMPONENT, THE CABLE ENTRY POINT MAY BE IN FLOOR, WALL OR CEILING. VARIOUS ARRANGEMENTS OF COMPONENTS ARE POSSIBLE AS LONG AS THE DISTANCES SHOWN ARE MAINTAINED AND THE SYSTEM FUNCTIONALITY IS NOT ADVERSELY AFFECTED.