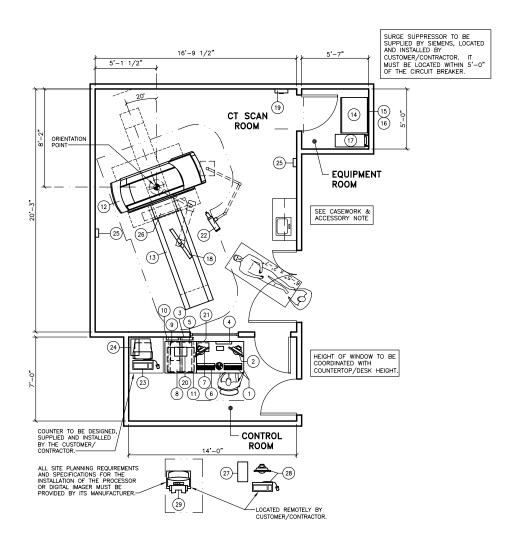
# SOMATOM DEFINITON AS 40/64/128 TYPICAL ROOM PLAN

CT



TYPICAL PLAN

SCALE: 1/8" = 1'-0"

# SOMATOM DEFINITION AS 40/64/128 SPECIFICATIONS

CT

EQUIPMENT LEGEND									
NO	DESCRIPTION	SMS	WEIGHT	BTU/HR	DIMENSIONS (INCHES)			REMARKS	
		SYM	(LBS)	TO AIR	w	D	Н		
1	CONTROL CONSOLE W/KEYBOARD AND CONTROL BOX	(J)	75		47 1/4	31 1/2	28 3/8		
2	19" FLAT SCREEN MONITOR ICS	$\Box$	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER	
3	POWER CONNECTION TERMINAL - ICS	(F)						WALL MOUNTED	
4	VIDEO POWER DISTRIBUTION - ICS	(P)			15 3/4		15 9/16	MOUNTED DIRECTLY UNDER CONTROL CONSOLE/COUNTER	
(5)	SYNGO ACQUISITION WORKPLACE	(3)	<66	1706	9 13/16	29 1/2	18 1/2	ON FLOOR/IN CONTAINER	
6	IMAGE EVALUATION KEYBOARD (OPTION)	$\Box$	ı					ON CUSTOMER'S COUNTER	
7	19" FLAT SCREEN MONITOR FOR IES (OPTION)	$\Box$	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER	
8	SYNGO CT WORKPLACE (OPTION)	(E)	<66	1706	9 13/16	29 1/2	18 1/2	ON FLOOR/IN CONTAINER	
9	UPS FOR IES (OPTION)	(P)	36	171	9 3/16	16 7/16	5 13/16		
10	POWER CONNECTION TERMINAL - IES (OPTION)	<b>@</b>						WALL MOUNTED	
11	CONTAINER & CONTAINER TABLE FOR ICS/IES (OPTION)	(MS)	55		31 1/2	31 1/2	28 3/8	HOUSING FOR ICS/IES	
12	SOMATOM DEFINITION AS GANTRY	B	4850	3,412*	93 11/16	36 5/8	78	*ADDITIONAL HEAT DISSIPATED TO WATER	
12	SOMATOM DEFINITION AS GANTRY (OPTION)	B	4850	40,946*	93 11/16	36 5/8	78	* AIR COOLED GANTRY	
(13)	PATIENT TABLE	ⅎ	1103	1024	29 1/2	95 11/16	33 7/16	1600mm TABLE	
14)	POWER DISTRIBUTION CABINET & UPS	€	1373	6824	35 7/16	27 1/4	76 3/4	UPS LOCATED INSIDE OF PDC	
(15)	ETHERNET SWITCH FOR ICS, IRS, GANTRY & PDC'S	(ES)						LOCATED INSIDE PDC	
16	ETHERNET SWITCH FOR REMOTE IES, DICOM CAMERAS & NETWORK PRINTER	<b>(S)</b>						LOCATED INSIDE PDC	
17	IMAGE RECONSTRUCTION SYSTEM — IRSMX2C	®	115	3412	12 5/8	29 1/2	20 13/16	WITH 40/64 SLICE CONFIG.	
1	IMAGE RECONSTRUCTION SYSTEM — IRSMX2B	(RS)	126	5118	12 5/8	29 15/16	20 15/16	WITH 128 SLICE CONFIG.	
(18)	CARE VISION DUAL MONITOR (OPTION)	<u> 1</u>	165	512				CEILING MOUNTED	
(19)	POWERWARE PXL250 SURGE SUPPRESSOR (OPTION)	₩	24		13	4 1/2	18	WALL MOUNTED	
20	MEDRAD M2SCT222DF DISPLAY CONTROL UNIT (OPTION)	(NI)	8		12 1/2	9	13 1/2	HEIGHT WITH SCREEN UP	
21)	MEDRAD M2SCT222DF BASE UNIT (OPTION)	(N2)	14		11	8 3/4	11 1/2	UNDER COUNTER ON SHELF	
22	CEILING MOUNTED MEDRAD INJECTOR (OPTION)	(N3)	106					SEE MFG SPECIFICATIONS	
23)	GAMMEX LASER TRACKING SYSTEM PC (OPTION)	(L)	-					SEE MFG SPECIFICATIONS	
24	GAMMEX LASER CONTROLLER BOX (OPTION)	$\Box$	-		16 1/2	8 1/4	3 1/2	SEE MFG SPECIFICATIONS	
25	GAMMEX SIDE WALL LASER (2) (OPTION)	<u>U</u> 2	35		46 1/16	8 1/4	3 1/2	SEE MFG SPECIFICATIONS	
26	GAMMEX CEILING LASER (OPTION)	(3)	35		46 1/16	8 1/4	3 1/2	SEE MFG SPECIFICATIONS	
27	MULTIMODALITY WORKPLACE COMPUTER (OPTION)	₩	55		19 3/4	10	23 5/8	ON CUSTOMER'S COUNTER	
28	MULTIMODALITY WORKPLACE KEYBOARD AND MONITOR (OPTION)	Θ	-					ON CUSTOMER'S COUNTER	
29	LASER CAMERA (OPTION)	(C)	_					SEE MFG SPECIFICATIONS	

FINISHED RO	OM HEIGHT
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/8" MAX. 12'-0 7/8"

### 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.

THIS SERVICE REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

1. (PREFERRED) VPN — WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE.

2. (OPTIONAL) \*SRS ROUTER\* - CONNECTED TO ANALOG PHONE LINE
VIA \*ANALOG MODEM\*, ETHERNET CONNECTION TO CUSTOMER'S LAN, AND
A POWER OUTLET. NOTE: = \*SUPPLIED BY SIEMENS\*

# SOMATOM DEFINITION AS 40/64/128 SPECIFICATIONS

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P	OWER	REQUIREMENTS					
SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (KVA)	INCOMING LINE IMPEDANCE (mΩ)	AUTOMATIC CIRCUIT BREAKERS (AMPS)			
SOMATOM DEFINITION AS 80KW	3ø 480±10%	NOTE 1	≤ 140	125			

#### NOTE 1

## POWER CONSUMPTION (WITH STANDARD WATER/WATER HEAT EXCHANGER OR AIR COOLED SYSTEM)

OPERATING FOR 6 SEC - 125 kVA
OPERATING FOR 100 SEC - 43 kVA
SYSTEM ON (STAND-BY) - 4 kVA
SYSTEM ON (COMP ON) - 2.5 kVA
GANTRY OFF (EVA ON) - 1.7 kVA

### POWER CONSUMPTION (WITH OPTIONAL WATER/AIR SPLIT

COOLING SYSTEM)

OPERATING FOR 6 SEC - 135 kVA

OPERATING FOR 100 SEC - 53 kVA

SYSTEM ON (STAND-BY) - 14 kVA

SYSTEM ON (COMP ON) - 2.5 kVA

GANTRY OFF (EVA ON) - 1.7 kVA

IF AN ON-SITE PRE-TRANSFORMER IS REQUIRED, IT MUST BE A MIN. OF 160 kVA.

ALL STANDARD COMPONENTS AND ADD—ONS ARE SUPPLIED VIA THE POWER DISTRIBUTION SYSTEM.

DO NOT CONNECT NON-SIEMENS COMPONENTS SUCH AS LASER CAMERAS OR FILM PROCESSORS TO THE SIEMENS POWER DISTRIBUTION SYSTEM (PDS).

THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

TO ENSURE SATISFACTORY SYSTEM OPERATION THE PDS MUST HAVE A DEDICATED PROTECTIVE GROUND CONDUCTOR.

#### CHILLED WATER

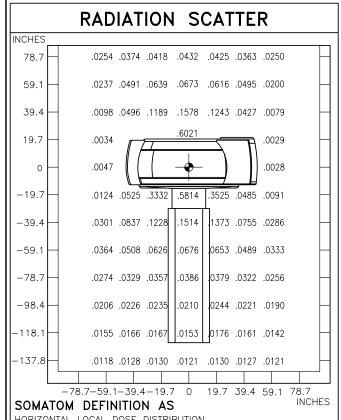
THE GANTRY IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM THE ON—SITE CHILLED WATER SUPPLY. AN ON—SITE CONNECTION TO THE CHILLED WATER SUPPLY MUST BE AVAILABLE TO SUPPLY THE HEAT EXCHANGER LOCATED INSIDE THE GANTRY. THE REQUIRED WATER TEMPERATURE IS 39.2 TO 53.6°F. THE NOMINAL OPERATING PRESSURE IS 29 TO 87 PSI, (MAX. 145 PSI). THE MINIMUM FLOW RATE DEPENDS ON THE WATER TEMPERATURE. DIFFERENTIAL PRESSURE AS RELATES TO WATER CIRCULATION. HEAT DISSIPATION INTO THE WATER IS 40,946 BTU/HR.

#### AIR-COOLED GANTRY

THE AIR—COOLED GANTRY HAS INTEGRATED COOLING FANS FOR AIR INTAKE AND AIR EXHAUST. ROOM AIR IS USED AS COOLING AIR. THE REQUIRED AIR INTAKE TEMPERATURE IS 64.4 TO 82.4°F. THE REQUIRED AIR FLOW RATE THROUGH THE GANTRY IS 81,224 CUBIC FEET/HOUR. HEAT DISSIPATION INTO THE AIR IS 40,946 BTU/HR. BECAUSE OF SHORT—TERM COOLING PEAKS, THE AIR CONDITIONER FOR THE SCAN ROOM WHERE GANTRY HEAT IS DISSIPATED MUST HAVE A MINIMUM 68,243 BTU/HOUR OF POWER.

### CASEWORK & ACCESSORY NOTES

- 1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.
- 2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.



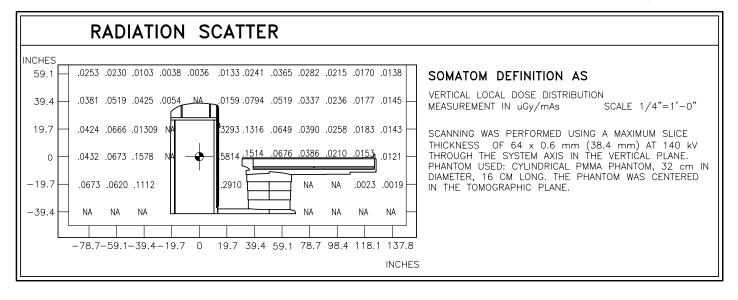
HORIZONTAL LOCAL DOSE DISTRIBUTION MEASUREMENT IN uGy/mAs

SCALE 1/4"=1'-0"

SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm (38.4 mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE HORIZONTAL PLANE. PHANTOM USED: CYLINDRICAL PHANTOM, 32 cm IN DIAMETER, 16 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

# SOMATOM DEFINITION AS 40/64/128 SPECIFICATIONS

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#### **DELIVERY**

#### TRANSPORTING INFORMATION:

TOTAL GANTRY TRANSPORT WEIGHT: 5,267

LBS.
GANTRY WITHOUT TRANSPORT DEVICE: 4,850 LBS.
TRANSPORT DEVICE: 417 LBS.

GANTRY TRANSPORTING WIDTH: 4'-8 5/8" MAXIMUM.

3'-0 5/8" MINIMUM.

GANTRY TRANSPORTING LENGTH: 10'-5 9/16" MAXIMUM.

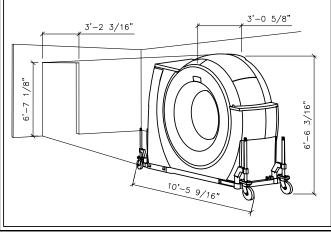
8'-5 9/16" MINIMUM.

#### NORMAL TRANSPORT REQUIREMENTS:

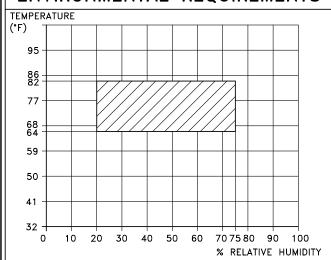
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY. SEE MAXIMUM WIDTH AND MINIMUM LENGTH ABOVE FOR TRANSPORT CASTERS SWIVELED OUT.

#### NARROW SPACE TRANSPORT REQUIREMENTS:

WHEN TRANSPORTING THE GANTRY THROUGH A NARROW SPACE OR DOORWAY THE TRANSPORT CASTERS ARE SWIVELED IN AS SHOWN IN THIS SKETCH.



### **ENVIRONMENTAL REQUIREMENTS**



TEMPERATURE, HUMIDITY, DUST, AIR CONTAMINATION: REFER TO THE CLIMATOGRAM ABOVE FOR THE PERMITTED CLIMATE RANGE.

THE MAXIMUM TEMPERATURE GRADIENT IS 6 K/HR.

THE ENVIRONMENTAL REQUIREMENTS FOR THE OPERATOR AND THE SYSTEM IS 64 TO 82  $^{\circ}$ F WITH A RELATIVE HUMIDITY OF 20-75% AND A BAROMETRIC PRESSURE OF 10.2 TO 15.4 PSI.

EXTERIOR AIR VENTS SHOULD BE EQUIPPED WITH A FILTRATION SYSTEM OF THE FILTER CLASS EU3 TO EU4 TO FILTER DUST PARTICLES >10 um.

THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULPHIDE, EVEN IN SMALL AMOUNTS. IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS HAVE TO BE TAKEN. E.G., EXTRACTOR FANS, SIPHON, MODIFICATION OF VENTILATION INTAKE, ETC..