

SOMATOM SENSATION 64 SPECIFICATIONS

CT

POWER REQUIREMENTS

SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA)	INCOMING LINE IMPEDANCE (mΩ)	AUTOMATIC CIRCUIT BREAKER (AMPS)
SOMATOM SENSATION 40 & 64	3φ 480±10%	SEE BELOW	≤ 180	125

POWER FACTOR 0.85 OR HIGHER REQUIRED.

POWER CONSUMPTION (WITH HEAT EXCHANGER WATER/WATER)

OPERATING FOR 12 SEC. — 104 kVA

OPERATING FOR 100 SEC. — 60 kVA

GANTRY OFF (EVA ON) — 2 kVA

GANTRY ON (STAND-BY) — 8 kVA

POWER CONSUMPTION (WITH HEAT EXCHANGER WATER/AIR OR WATER/AIR SPLIT)

OPERATING FOR 12 SEC. — 111 kVA

OPERATING FOR 100 SEC. — 63 kVA

GANTRY OFF (EVA ON) — 2 kVA

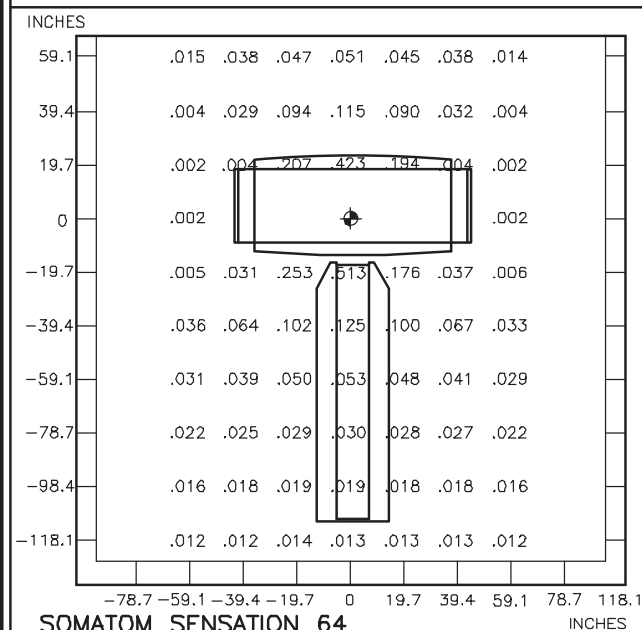
GANTRY ON (STAND-BY) — 10 kVA

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.

RADIATION SCATTER



SOMATOM SENSATION 64

MEASUREMENT IN uGy/1 mAs

SCALE 1/4"=1'-0"

THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 24 x 1.2mm (28.8mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE HORIZONTAL PLANE. VALID IN HORIZONTAL AND VERTICAL PLANES. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32cmØ, 16cm LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

WATER/AIR SPLIT

GANTRY COOLING

THE GANTRY IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM THE HEAT EXCHANGER. THE HEAT EXCHANGER CABINET IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM AN OUTDOOR COOLING UNIT. THE AMBIENT AIR TEMPERATURE RANGE REQUIRED FOR THE OUTDOOR COOLING UNIT IS -13° TO 122° (-40° TO 122° WITH FLOW HEATER OPTION). BTU/HR TO AIR (EXHAUST) IS 88,716.

HOSPITAL WATER

CHILLED WATER

THE GANTRY IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM THE HEAT EXCHANGER. AN ON-SITE CONNECTION TO THE CHILLED WATER SUPPLY MUST BE AVAILABLE TO SUPPLY THE HEAT EXCHANGER. THE REQUIRED WATER TEMPERATURE IS 36 TO 60°F. THE OPERATING PRESSURE MUST NOT EXCEED 145 PSI. THE MAXIMUM FLOW RATE DEPENDS ON THE WATER TEMPERATURE. PRESSURE DROP AS RELATES TO WATER CIRCULATION. HEAT DISSIPATION INTO THE WATER IS 51,182 BTU/HR.

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.