

HIGH FREQUENCY GENERATOR

Available in 2PT (kV/mAs) as well as AP (Anatomical Programming)

SPECIFICATIONS

Generator	kV range: 40 - 125 kVp ($\pm 5\%$ of selected kVp + 1 kVp) Power options: 20, 30, 40, 42, 50, 52 kW mA range: 25 - 500¹ mA mAs range: 0.1 - 600¹ mAs ($\pm 10\%$ of selected mAs + 1 mAs) Exposure Time min: 4 ms Exposure Time max: 2.0 - 4.2 seconds¹ Max. HV cable: 70 feet (21 meters) Note 1: Generator model dependent
Environmental	Conditions for Use: Ambient temperature range: 50°F (10°C) to 104°F (40°C) Relative humidity range: 30% to 75% Atmosphere pressure range: 20.67 inHg (700hPa) to 31.30 inHg (1060hPa) Conditions for Transport and Storage: Ambient temperature range: -40°F (-40°C) to 158°F (70°C) Relative humidity range: 10% to 90% Atmosphere pressure range: 14.67 inHg (500hPa) to 31.30 inHg (1060hPa)
Regulatory	This X-ray generator complies with the following regulatory and design standards: • UL 60601-1 • CAN/CSA-C22.2 No. 601.1 • IEC 60601-2-7 • FDA 21 CFR Subchapter J (for human applications) • Degree of protection against harmful ingress of water: IPXO/Ordinary • Degree of protection against electric shock: Class I, Type B Applied Parts • Equipment not suitable for use with flammable anesthetic mixture with air or oxygen, or nitrous oxide

SHIPPING INFORMATION

CONTENTS	DIMENSIONS W x L x H (inches)	WEIGHT lbs
Console & Power Module	24 x 32 x 57	250

ACCESSORIES

Communication cables	2x 50ft standard, 1.5in conduit required
Flexible Line Cable	15FT Line cable tested and approved by UL as part of generator. If local regulations require a different wire size or type, it is the customer's responsibility to provide the required items.

Estimated Heat Output: 609 BTU/hour

Estimated Electrical Energy consumption: 132 Watts for 8 hours per day

ELECTRICAL REQUIREMENTS

Recommended minimum line AWG of power and earth wires Copper wire only, Maximum voltage drop 5% @ maximum exposure load													
Generator Type				Length between the building's main incoming electrical panel and the service disconnect switch in the X-ray room									
PH	VAC	KW	mA	25ft	50ft	75ft	100ft	125ft	150ft	175ft	200ft	250ft	300ft
1	208-277	20	300	8	4	3	2	1	0	00	00	000	0000
1	208-277	30	300	6	4	2	1	0	00	000	000	0000	250 ²
1	208-277	30	500	4	2	0	00	000	0000	0000	250 ²	350 ²	350 ²
1	208-277	40/42	500	4	2	0	00	000	0000	250 ²	250 ²	350 ²	400 ²
3	208-250	30	500	8	4	3	2	1	0	0	00	000	0000
3	208-250	40/42	500	6	4	3	1	0	0	00	000	0000	0000
3	208-250	50/52	500	6	4	2	1	0	00	00	000	0000	250 ²
3	380-480	30	500	10	8	6	4	4	4	3	2	1	1
3	380-480	40/42	500	10	8	6	4	4	3	3	2	1	0
3	380-480	50/52	500	10	6	4	4	3	2	2	1	0	00

Note 2: MCM

Minimum Disconnect Switch per NEC (Maximum Momentary Current/2)					
Generator Type					
PH	VAC	20kW	30kW	40/42kW	50/52kW
1	208	70	115	175	-
1	220	65	110	165	-
1	240	60	100	150	-
1	277	60	90	130	-
3	208	-	70	100	125
3	220	-	65	95	120
3	240	-	60	90	110
3	380	-	35	55	70
3	416	-	35	50	65
3	440	-	35	50	60
3	480	-	35	45	55

Maximum Momentary Currents					
Generator Type					
PH	VAC	20kW	30kW	40/42kW	50/52kW
1	208	138	231	346	-
1	220	131	218	327	-
1	240	120	200	300	-
1	277	104	173	260	-
3	208	-	133	200	250
3	220	-	126	189	236
3	240	-	115	173	216
3	380	-	73	109	137
3	416	-	67	100	125
3	440	-	63	94	118
3	480	-	58	87	108

Line Freq: 50/60 Hz

Aux Power:

24VAC@7A, collimator

24VDC@5A, locks

Long Term current draw:

3.0A@208VAC

2.6A@240VAC

1.3A@480VAC

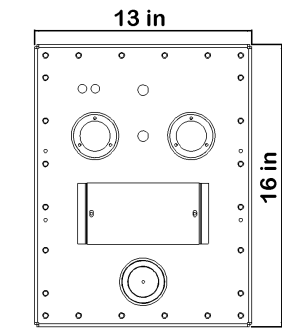
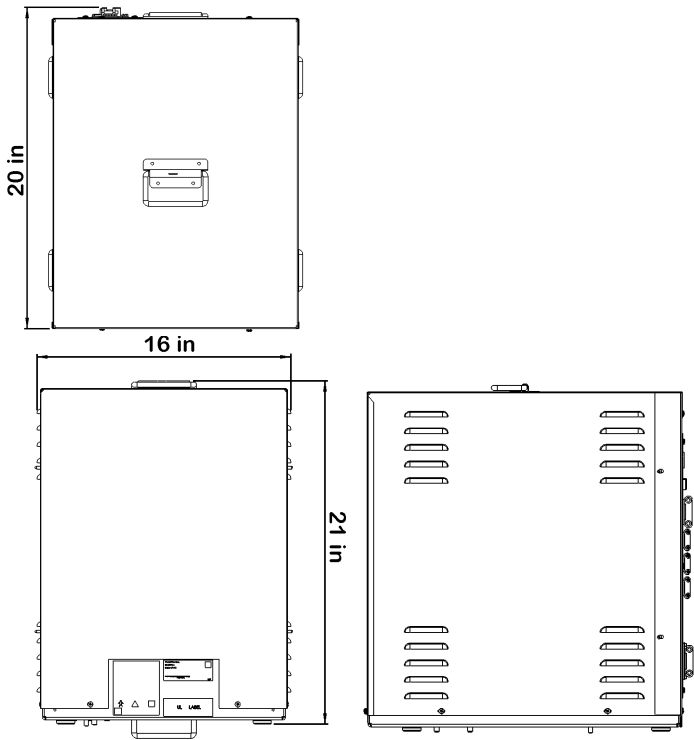
Aux 110/120 Supply: None

Building Distribution Transformer (Min Ratings)		
Gen kW	1PH	3PH
20	37.5kVA	-
30	60kVA	3x20kVA
40/42	75kVA	3x25kVA
50/52	-	3x37.5kVA

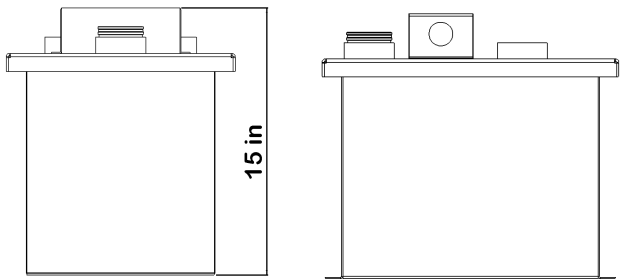
Line Determination Chart			
VAC	RANGE	VAC	Range
208	202 to 214	380	361 to 398
220	215 to 229	416	399 to 428
240	230 to 250	440	429 to 460
277	251 to 290	480	461 to 504

DIMENSIONS - GENERATOR

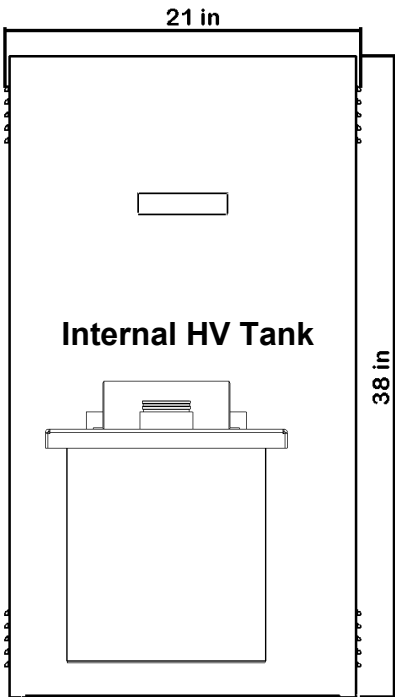
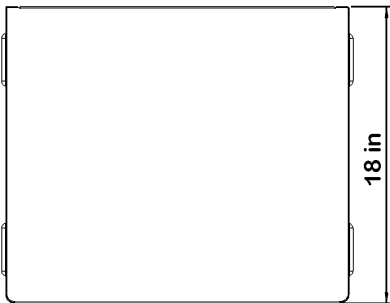
X-ray Generator (00210*)



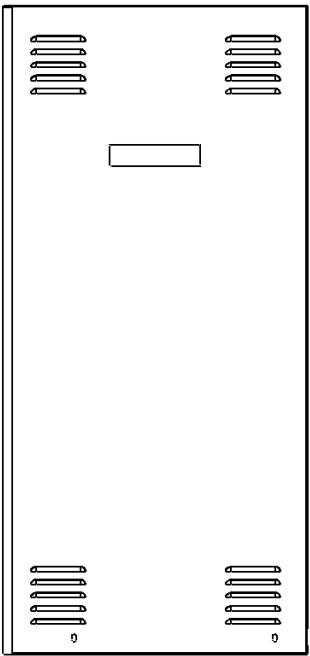
External HV Tank



X-ray Generators:
L300*, L500*, L550*, 02968*, 03900*, 03901*

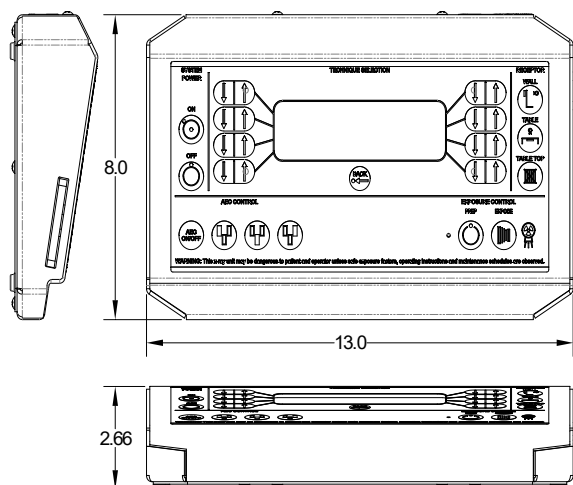


Internal HV Tank

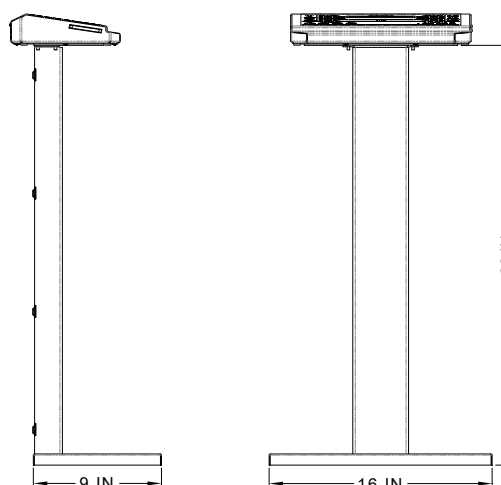


DIMENSIONS – CONSOLE & MOUNT

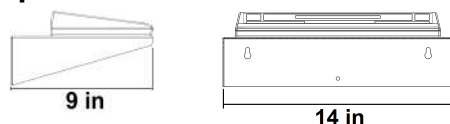
Tabletop AP console L501*



Optional Pedestal for console



Optional Wall Mount for console

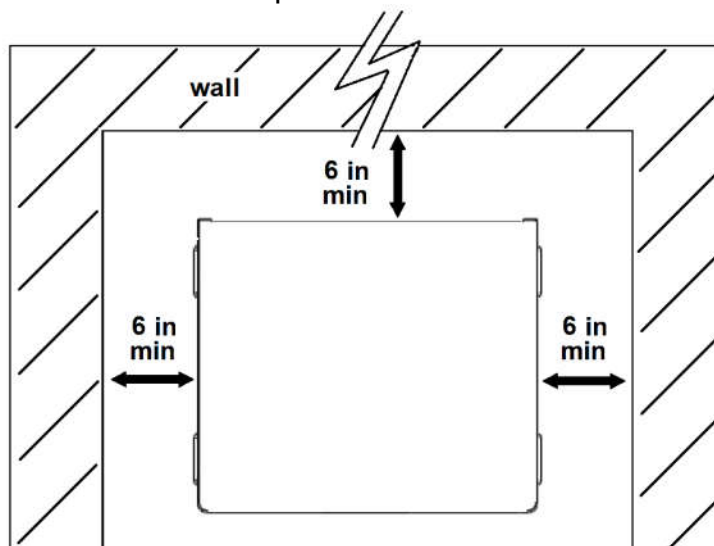


INSTALLATION

L300*, L500*, L550*, 02968*, 03900*, 03901* X-ray Generators

Clearance:

Refer to local building codes for additional requirements.



Securing to Floor:

If local building codes require securing the equipment, it is up to the installer to provide appropriate hold down brackets as approved by the local codes. See Installation manual for details.

Installation Location and Generator Sounds:

It is common to place the X-ray generator with the user console in the operator room or behind the operator shielded barrier. This helps to block the generator sounds that occur during exposure from the patient. See Installation manual for details.