GE Healthcare

Performix[™] Pro VCT 100 X-ray tube for GE LightSpeed[™] VCT, VCT Select, Pro 16,Pro 32,

and RT 16 Scanners D3193T / D3194T /D3195T / D3196T

The Performix brand of GE tubes just got better with Performix Pro VCT 100. Giving you the power to perform with 8 MHU and 100 kW, the Performix Pro VCT 100 X-ray Tube demonstrates the performance you expect from GE brand X-ray tubes. Since its celebrated product launch in 1998, as GE's first designed-for-Six-Sigma product, the Performix brand is helping to deliver exceptional image quality.

Exceptional Image Quality:

The Performix Pro VCT 100 delivers capability for cardiac and pulmonary protocols. Backed by a powerful generator, Performix Pro VCT 100 delivers 800 mA (large spot) and 335 mA (small spot) at 0.35 second rotation¹ for the most challenging exams, delivering exceptional resolution to make lesion and vessel assessments.

Smart Technology:

Not only is faster better, Performix Pro VCT 100 helps deliver the prescribed mA smartly to support Variable Speed for Cardiac, another GE innovation. Rotation speeds include 0.350, 0.400, 0.425, 0.450 and 0.475 second scans¹. Performix Pro VCT 100 performance is optimized through complex algorithms and Six Sigma design rigor to deliver power for vascular or cardiac protocols.



Maximize Throughput:

The Performix Pro VCT 100 handles protocols while delivering high capability by helping to minimize cooling delays with greater than 8000 W dissipation rate.

Integration:

GE's integration of tube, generator, and systems dosemanagement technologies provides customers the imaging flexibility and power to meet demanding imaging requirements while optimizing patient care.

GE Tubes:

GE's Installed Base engineering team, devoted exclusively to ongoing tube quality, drives improvements that are important to customers.



D3193T/94T/95T/96T Specifications





Tube Insert Dual Focal Spots

Small Focal Spot (nominal values)

- 0.9 × 0.7 per IEC 60336/2005
 - 0.7 x 0.6 per IEC 60336/1993

Large Focal Spot (nominal values)

- 1.2 × 1.1 per IEC 60336/2005
- 0.9 × 0.9 per IEC 60336/1993

Maximum mA for each kVp selection:

kVp	Small Spot Max mA	Large Spot Max mA	
80	300	675	
100	310	770	
120	335	800	
140	335	715	

Target Angle

Target Angle: 7 degrees

Thermal Ratings

Anode

- Max anode heat content: 5.9 MJ
- Nominal anode input power: 100kW

Tube Assembly

- Max x-ray tube assembly heat content: 8MJ
- Max continuous heat dissipation: 8.6 kW
- Bearing and anode attachment method allows 0.35 second scanning and highly stable focal spots for high resolution.

X-Ray Tube Housing Assembly

Anode-Grounded Technology

- Maximum voltage, anode to cathode: 140kV
- Leakage technique factor: 140 kV, 57 mA
- Minimum AI equivalent at 70kV for the tube housing: 3.91 mm AI equivalent
- Field of view: 40mm²

Warranty

The published warranty in effect on date of shipment shall apply. Right reserved to make changes.

Regulatory Listings

UL, CE, MHW

This tube unit has been designed to meet or exceed all applicable performance standards for diagnostic x-ray equipment as stipulated by the Radiation Control of Health and Safety Act.

Included License

The GE Performix Pro VCT 100 tube includes a standard license that automatically enables the use of tube-dependent advanced applications. The use of a non- Performix Pro VCT 100 x-ray tube will require the purchase of an additional license for the activation of these features.

Helical Scan Protocols

All protocols assume 120 kVp scans under typical clinical conditions. **Single Helical Scans:**

Scan Time	Max. mA
5 sec	800
10 sec	790
20 sec	645
30 sec	560
40 sec	510
50 sec	485
60 sec	460
80 sec ³	290-430
100 sec ³	280-400
120 sec ³	270-380

Multiple Helical Scans:

	Scan Time	IGD	No. of Scans	Max. mA
			2	800
			3	775
	5 sec	5 sec	4	750
			5	735
			6	715
			2	740
			3	640
	10 sec	5 sec	4	600
			5	575
			6	560
			2	535
	20 sec	5 sec	3	490
			4	470
			2	475
	30 sec	5 sec	3	445
			4	435
40 sec ⁴ 50 sec ⁴ 60 sec ⁴	40 sec ⁴	5 sec	2	290-435
			3	270-390
			4	260-370
			2	280-405
	50 sec ⁴	5 sec	3	260-370
			4	230-345
			2	270-385
	60 sec ⁴	5 sec	3	245-355
		4	200-305	

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³ 80,100 and 120 second single scan time available on LightSpeed Pro 16 only.

⁴ 40, 50 and 60 second multiple scan time available on LightSpeed Pro 16 only.



¹ 0.35 and 0.375 available on VCT, VCT Select and Pro 32.

² 40mm available on VCT,VCT Select and Pro32. 20mm on LightSpeed Pro 16.