
Saturn-F X-ray System

Optimized System with Reliable Features and Easier Workflow for Digital Radiography



Saturn-F X-ray System is NMI's total solution program designed to fulfill almost any institution's need for general radiography. Featuring 40 KW & 50 KW high frequency generator which can penetrate nearly any application, tube & collimator aim to provide years of reliable service, 4 way & 6 way table for easy patient positioning and floor mount & ceiling support with smooth movement. Also, NMI provides FPD in both size of 14" x 17" and 17" x 17" for a competitive upgrade to digital radiography. Besides excellent image quality, our reliable automatic X-ray exposure detection technique enables the panel to integrate with any kind of X-ray systems.

SATURN-F

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for Digital Radiography

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Features

- * Competitive upgrades to digital radiography
- * Excellent image quality with 140 um FPD
- * Stable and reliable generator and tube
- * Smooth movement of tabletop and tube support
- * Standardized component for every institution

Specification	Saturn-F PF40	Saturn-F CF50
High Voltage Generator		
Rating Output	220/240 Vac, 50-60 Hz, 40 KW Single Phase	400/480 Vac, 50-60 Hz, 50 KW Three Phase
Tube Voltage kV	40-150 kV	40-150 kV
kV Accuracy	±10%	±10%
mA Range	10 mA ~ 500 mA	10 mA ~ 630 mA
Timer Range	0.001 sec ~ 10 sec	0.001 sec ~ 6.3 sec
mAs Range	0.1 mAs ~ 630 mAs	0.1 mAs ~ 630 mAs
Weight	63 kg / 2kg	61 kg / 2.72 kg
Dimensions	571 x 476 x 428 / 400 x 200 x 42	653 x 348 x 617 / 313 x 277 x 94
X-ray Tube		
Effective Focal Spot Size	0.6 / 1.2 mm	1.0 / 2.0 mm
Target Material	Tungsten, Rhenium, Molybdenum	Tungsten, Rhenium, Molybdenum
Target Angle	12°	16°
Nominal Tube Voltage	40 ~ 150 kV	40 ~ 150 kV
Anode Heat Capacity	300 KHU	140 KHU
Weight	18 kg	16 kg
Collimator		
Power Input	24V AC - 50/60 Hz	24V AC - 50/60 Hz
Form of X-ray Beam Field	Rectangle	Rectangle
Light Projection	More than 160 Lux at SID 100 cm	Single Laser
Maximum Tube Voltage	150 kV	150 kV
Inherent Filtration	1.2 mmAl	2 mmAl
Weight	6.2 kg	9.4 kg
Dimensions	268 x 195.5 x 206.5	268 x 195.5 x 206.5
Tube Stand		
Power Input	DC24V±10%, 3A	DC24V±10%, 3A
Movement of Tube	Manual Driven	Manual Driven
Vertical Travel Range	1,400 mm	1,400 mm ~ 2,000 mm
Transverse Travel Range	2,600 mm	1,400 mm ~ 2,000 mm
Min. ~ Max. Tube Height	520 mm ~ 1,920 mm	2,700 mm ~ 4,000 mm±10%
Column Rotation Range	±90°	±90°
Tube Rotation Range	±180°	±180°
Weight Balance	Applied	Applied
Weight	245 kg	350 kg
Bucky Table 4 Way (Option: 6 way)		
Power rating	AC220V±10%, 100VA	Bucky Stand AC16 ~ 24V±10%, 1.5A
Movement of Detector	Manual Driven	Manual Driven
Vertical Travel Range	N/A	1400 mm ±10%
Longitudinal Travel Distance	±280 mm	N/A
Transverse Travel Distance	±140 mm	N/A
Bucky Travel Distance	±230 mm	N/A
Weight	180 kg	105 kg

* Specifications are subject to change without prior notification.

FDA Approved  

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