



# New generation X-Ray Monoblock for NDT applications



**Laurus-F200** is an innovative, high performance stationary anode X-ray monoblock, specifically designed for Non-Destructive Testing (NDT) application purposes. Solid, reliable and compact, it satisfies the most critical requirements, reaching an higher radiation quality whilst reducing leakage emission. This result has been obtained with high frequency control of filament heating and H.V. transformer.

## **Applications**

Laurus-F200 X-ray monoblock can be assembled onto X-ray systems, dedicated for food and pharmaceutical

inspection, as well as integrated onto X-ray equipment and devices for industrial radiography and thickness gauging.

## **Main Features**

*Heat dissipation:* 200 W – air cooling  
*Compact,* reduced weight and sizes  
*Leakage radiation* not exceeding 0.5 mR/h @ 5cm  
*Quick kV* rising time  
*Low residual ripple*  
*100% duty cycle*



## TECHNICAL DATA

Power supply	230 Vac $\pm$ 10%, 50 Hz / 60 Hz (active PFC)
Operating frequency	40 KHz
Housing material	aluminium
Maximum power	200 W
Duty cycle	100%, 24/7
Voltage range	40÷90 kV
Current range	0.2÷3 mA
Residual ripple at maximum power	< 1%
Max kV rising time	< 400 ms
Repeatability (kV, mA)	0.1%
Focal spot	0.6 mm
X-ray beam type	5° x 60° fan beam
Dimensions	See picture below
Weight	28 kg (monoblock) / 5 kg (control unit)
Cooling system	Air
Leakage radiation	less than 0.5 mR/hr at 5 cm from the surface of the chassis as per FDA 21 CFR 1020.40

## Interfaces

PC interface	RS232
HW interface	Interlock (2 pcs.), Lamps (2 pcs.)

## System safety functionality

<b>Operating, storage/transport temperatures, humidity</b>	kVmax
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Control unit Operating temperature	+5°C ÷ +40°C
Monoblock Operating temperature	+5°C ÷ +35°C
Storage/transport temperatures	-25°C ÷ +70°C
Humidity	5÷ 95%, non condensing
CE Marking	2006/95/EC, 2004/108/EC

## Dimensions

