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Aixtron Crius 31x2” MOCVD
SN 1001 700373 Vintage 09/2008
Currently in 2” Configuration

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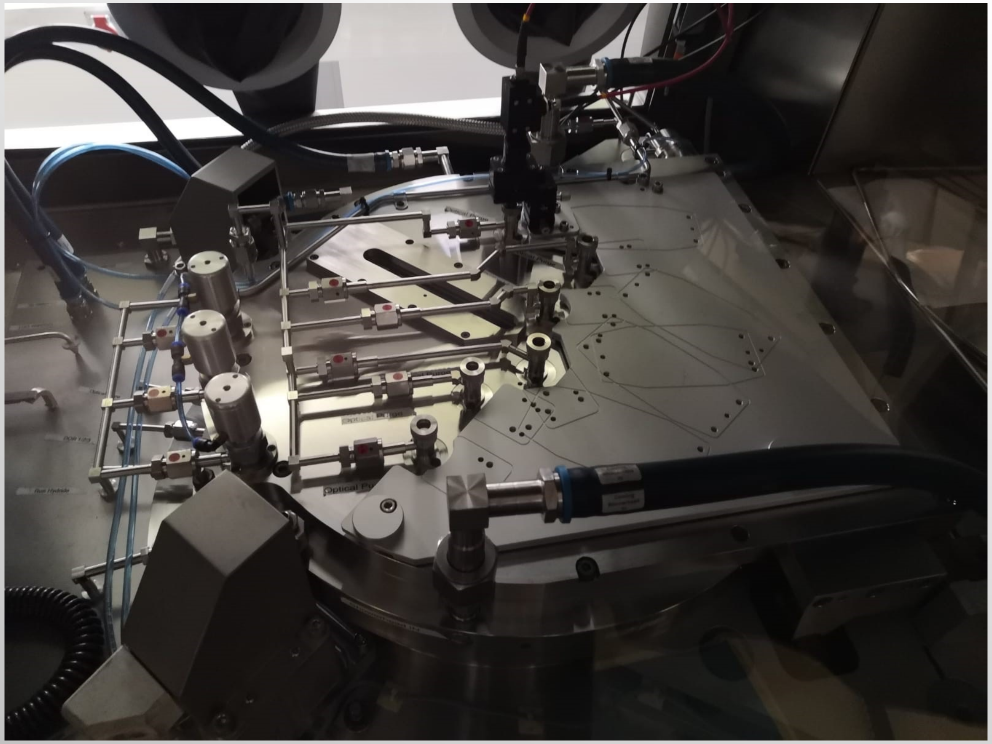

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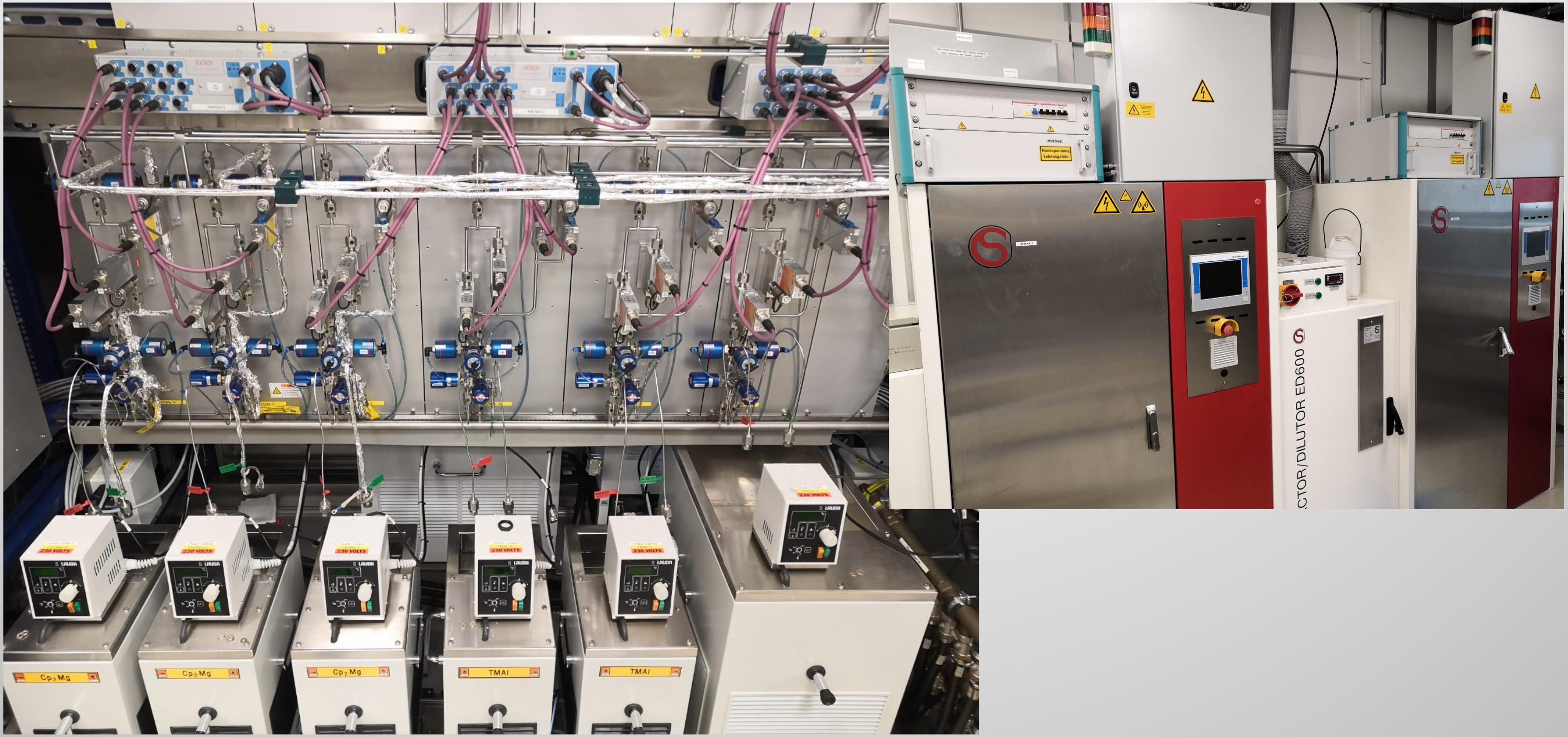

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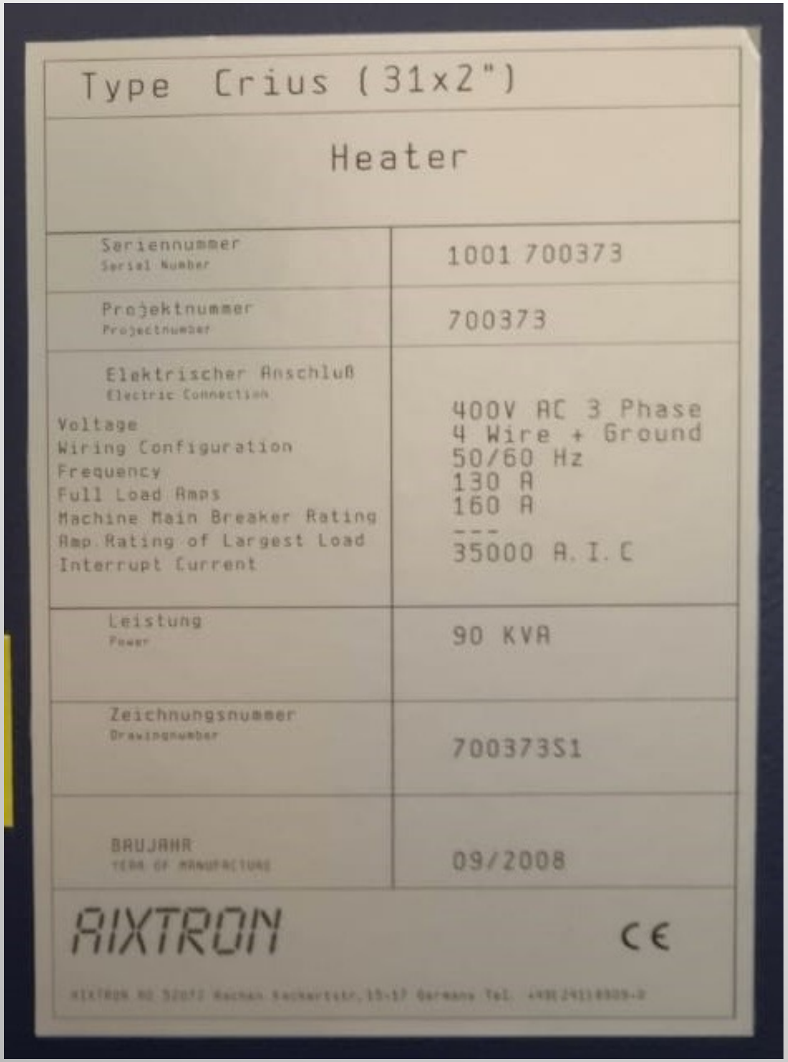

Type Crius (31x2")

Heater

Seriennummer Serial Number	1001 700373
Projektnummer Projectnumber	700373
Elektrischer Anschluß Electric Connection	
Voltage	400V AC 3 Phase
Wiring Configuration	4 Wire + Ground
Frequency	50/60 Hz
Full Load Amps	130 A
Machine Main Breaker Rating	160 A
Amp Rating of Largest Load	---
Interrupt Current	35000 A.I.C
Leistung Power	90 KVA
Zeichnungsnummer Drawingnumber	700373S1
BAUJAHR YEAR OF MANUFACTURE	09/2008

AIXTRON CE

Process specification in current configuration

GaN	Growth rate $r = 2$ to 3 μm/h Thickness uniformity $\sigma \leq 3\%$ Threading dislocation density on the surface pTD < 3e8 cm-2 @ thickness 4 μm
n-GaN:Si	$n \geq$ 1e18 cm-3 Mobility $\mu \geq$ 300 cm2/Vs @ n = 1e18 cm-3 Doping uniformity $\sigma \leq 10\%$
p-GaN:Mg	$p \geq$ 5e17 cm-3 Resistivity $\rho \leq 2\Omega$cm Doping uniformity $\sigma \leq 10\%$
AlGaN	Al-composition up to 20% Al-composition uniformity $\sigma < 8\%$ of absolute value Growth rate $r = 1$ to 1.5 μm/h
n-AlGaN:Si	$n \geq$ 1e18 cm-3
p-AlGaN:Mg	$p \geq$ 1e17 cm-3
InGaN/GaN MQW	1. Wavelength 470 ± 10 nm 2. Wavelength 520 ± 10 nm Wavelength uniformity $\sigma \leq 1\%$
AlGaN/GaN superlattice	Al-composition up to 40%

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