

# Test sheet

Model EMG 10A MSC Power Requirements MS1208 V-60 Hz Δ Serial No 8505E156A

Laser medium / Wavelength	Gas concentrations	Pulse energy at 1Hz			Average power		
		Specs.	Measured at 24 kV	Measured at 26 kV	Specs.	Measured at 25 Hz / 24 kV	Measured at 50 Hz / 24 kV
<u>ArF</u> <u>193 nm</u>	CO <sub>2</sub> mbar						
	He <u>1700</u> mbar	<u>200 mJ</u>	<u>170 mJ</u>	<u>220 mJ</u>	<u>5 W</u>	<u>3.5 W</u>	<u>7 W</u>
	Kr mbar	$\pm 6\%$	$\pm 6\%$	$\pm 4\%$			
	Xe mbar						
	Ar <u>350</u> mbar						
	Ne mbar	Remarks					
	<u>5%</u> He/F <sub>2</sub> <u>150</u> mbar						
He/HCl mbar							
Total <u>2200</u> mbar	N <sub>2</sub> mbar	Laser threshold at <u>21</u> kV, Safety switch <u>26</u> kV max					
	He mbar	mJ	mJ	mJ	W	W	W
	Kr mbar	$\pm \%$	$\pm \%$	$\pm \%$			
	Xe mbar						
	Ar mbar						
	Ne mbar	Remarks					
	He/F <sub>2</sub> mbar						
	He/HCl mbar				FN PS. <u>187.077</u>		
Total mbar	N <sub>2</sub> mbar	Laser threshold at _____ kV			FN Head <u>162.429</u>		

Thyratron No.: 806  
 Reservoir voltage U<sub>R</sub> 70 Vac  
 Heater voltage U<sub>H</sub> 7.4 Vac  
 Bias voltage U<sub>K</sub> 160 Vdc  
 CaF<sub>2</sub> Output window 36 φ mm × 5 mm  
 Batch No \_\_\_\_\_  
 \_\_\_\_\_ Rear window \_\_\_\_\_ mm × \_\_\_\_\_ mm  
 Batch No \_\_\_\_\_  
Al-MgF<sub>2</sub> Rear mirror 36 φ mm × 5 mm  
 Batch No \_\_\_\_\_  
 \_\_\_\_\_ mm × \_\_\_\_\_ mm  
 Batch No \_\_\_\_\_

# Test sheet

Model EMG 10A MSC Power Requirements MS1208 V-60 Hz Δ Serial No 8505E156A

Laser medium / Wavelength	Gas concentrations	Pulse energy at 1Hz			Average power		
		Specs.	Measured at 20 kV	Measured at 22 kV	Specs.	Measured at 25 Hz / 20 kV	Measured at 50 Hz / 20 kV
<u>XeCl</u> <u>308 nm</u>	CO <sub>2</sub> mbar						
	He mbar	<u>150 mJ</u>	<u>140 mJ</u>	<u>170 mJ</u>	<u>6.5 W</u>	<u>3.5 W</u>	<u>7 W</u>
	Kr mbar	$\pm 3\%$	$\pm 3.5\%$	$\pm 2.5\%$			
	Xe <u>100</u> mbar						
	Ar mbar						
	Ne <u>2420</u> mbar	Remarks					
	He/F <sub>2</sub> <u>8</u> mbar						
<u>5%</u> He/HCl <u>80</u> mbar							
Total <u>2600</u> mbar	N <sub>2</sub> mbar	Laser threshold at <u>16</u> kV, Safety switch <u>22</u> kV max					
	He mbar	mJ	mJ	mJ	W	W	W
	Kr mbar	$\pm \%$	$\pm \%$	$\pm \%$			
	Xe mbar						
	Ar mbar						
	Ne mbar	Remarks					
	He/F <sub>2</sub> mbar						
	He/HCl mbar				FN PS. <u>187.077</u>		
Total mbar	N <sub>2</sub> mbar	Laser threshold at _____ kV			FN Head <u>162.429</u>		

Thyratron No.: 806  
 Reservoir voltage U<sub>R</sub> 70 Vac  
 Heater voltage U<sub>H</sub> 7.4 Vac  
 Bias voltage U<sub>K</sub> 160 Vdc  
 CaF<sub>2</sub> Output window 36 φ mm × 5 mm  
 Batch No \_\_\_\_\_  
 \_\_\_\_\_ Rear window \_\_\_\_\_ mm × \_\_\_\_\_ mm  
 Batch No \_\_\_\_\_  
Al-MgF<sub>2</sub> Rear mirror 36 φ mm × 5 mm  
 Batch No \_\_\_\_\_  
 \_\_\_\_\_ mm × \_\_\_\_\_ mm  
 Batch No \_\_\_\_\_