

<b>Ozone</b>		
Max ozone mass production	[Kg/h]	12,00
Min ozone concentration	[g/Nm <sup>3</sup> ]	120
Max ozone concentration	[g/Nm <sup>3</sup> ]	140
Max ozone production	[Kg/h]	12,00
Min ozone production	[Kg/h]	1,80
<b>Cooling Water Closed loop</b>		
Max cooling water flow required	[m <sup>3</sup> /h]	18,00
Min cooling water flow required	[m <sup>3</sup> /h]	14,40
Cooling refrigeration power	[KW]	188,37
Min Cooling water working pressure	[bar]	0,90
Max cooling water working pressure	[bar]	2,50
Min cooling water temperature accepted	[°C]	5,50
Max cooling water temperature accepted	[°C]	13,00
<b>Cooling water open loop (Just in case is used the water/water chiller) system</b>		
Min condenser cooling water flow required	[m <sup>3</sup> /h]	24,00
Max condenser cooling water flow required	[m <sup>3</sup> /h]	36,00
Min condenser cooling water pressure	[bar]	1,20
Max condenser cooling water pressure	[bar]	3,00
Min condenser cooling water required temperature	[°C]	15,00
Max condenser cooling water required temperature	[°C]	28,00
Cooling power required for the chiller condenser	[KW]	653,02
Cooling Water open loop piping size	[DN / PN 10]	80
Cooling Water open loop flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	80
Water open loop speed in the SS AISI316L pipe of 2,77 mm thickness	[m/s]	2,50
<b>Oxygen</b>		
Max oxygen flow required @ C=120 [g/Nm <sup>3</sup> ] @ constant production	[m <sup>3</sup> /h]	100,00
Min oxygen flow required @ C= 140 [g/Nm <sup>3</sup> ] @ constant production	[m <sup>3</sup> /h]	85,71
Max mass flow oxygen required @ 95% for maximum flow	[Kg/h]	135,76
Min mass flow oxygen required @ 100% for maximum flow	[Kg/h]	142,90
Min oxygen working pressure	[bar]	1,20
Max Oxygen working pressure	[bar]	2,50
<b>Piping outside connection</b>		
Cooling Water closed loop piping size	[DN / PN 10]	50
Cooling Water closed loop flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	50
Water closed loop speed in the SS AISI316L pipe of 2,77 mm thickness	[m/s]	2,5
Oxygen piping size	[DN / PN 10]	40
Oxygen flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	40
Oxygen speed in the SS AISI316L pipe of 2,77 mm thickness	[m/s]	25
Ozone piping size	[DN / PN 10]	40
Ozone flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	40
<b>Energy</b>		
Power voltage supply	[V]	400 3 ph + N
Power frequency	[Hz]	50 / 60
Power consumption	kW	120
Energy required per gram of ozone produced	W/gO <sub>3</sub>	9,5