

Ozone		
Max ozone mass production	[Kg/h]	20,00
Min ozone concentration	[g/Nm ³]	120
Max ozone concentration	[g/Nm ³]	140
Max ozone production	[Kg/h]	20,00
Min ozone production	[Kg/h]	3,00
Cooling Water Closed loop		
Max cooling water flow required	[m ³ /h]	30,00
Min cooling water flow required	[m ³ /h]	24,00
Cooling refrigeration power	[KW]	313,95
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
Cooling water open loop (Just in case is used the water/water chiller) system		
Min condenser cooling water flow required	[m ³ /h]	40,00
Max condenser cooling water flow required	[m ³ /h]	60,00
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]	1088,37
Cooling Water open loop piping size	[DN / PN 10]	100
Cooling Water open loop flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	100
Water open loop speed in the SS AISI316L pipe of 2,77 mm thickness	[m/s]	2,50
Oxygen		
Max oxygen flow required @ C=120 [g/Nm ³] @ constant production	[m ³ /h]	166,67
Min oxygen flow required @ C= 140 [g/Nm ³] @ constant production	[m ³ /h]	142,86
Max mass flow oxygen required @ 95% for maximum flow	[Kg/h]	226,26
Min mass flow oxygen required @ 100% for maximum flow	[Kg/h]	238,17
Min oxygen working pressure	[bar]	1,20
Max Oxygen working pressure	[bar]	2,50
Piping outside connection		
Cooling Water closed loop piping size	[DN / PN 10]	60
Cooling Water closed loop flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	60
Water closed loop speed in the SS AISI316L pipe of 2,77 mm thickness	[m/s]	2,5
Oxygen piping size	[DN / PN 10]	50
Oxygen flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	50
Oxygen speed in the SS AISI316L pipe of 2,77 mm thickness	[m/s]	25
Ozone piping size	[DN / PN 10]	50
Ozone flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	50
Energy		
Power voltage supply	[V]	400 3 ph + N
Power frequency	[Hz]	50 / 60
Power consumption	kW	200
Energy required per gram of ozone produced	W/gO ₃	9,5