

Ozone		
Max ozone mass production	[Kg/h]	10,00
Min ozone concentration	[g/Nm ³]	120
Max ozone concentration	[g/Nm ³]	140
Max ozone production	[Kg/h]	10,00
Min ozone production	[Kg/h]	1,50
Cooling Water Closed loop		
Max cooling water flow required	[m ³ /h]	15,00
Min cooling water flow required	[m ³ /h]	12,00
Cooling refrigeration power	[KW]	156,98
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]	20,00
Max condenser cooling water flow required	[m ³ /h]	30,00
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]	544,19
Cooling Water open loop piping size	[DN / PN 10]	65
Cooling Water open loop flanges size (UNI EN 1092-1 PN10)	[DN / PN 10]	65
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]	83,33
Min oxygen flow required @ C= 140 [g/Nm ³] @ constant production	[m ³ /h]	71,43
Max mass flow oxygen required @ 95% for maximum flow	[Kg/h]	113,13
Min mass flow oxygen required @ 100% for maximum flow	[Kg/h]	119,08
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]	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
Energy		
Power voltage supply	[V]	400 3 ph + N
Power frequency	[Hz]	50 / 60
Power consumption	kW	100
Energy required per gram of ozone produced	W/gO ₃	9,5