

Specifications of Oxygen Generation Membrane Module

Model : MNHO-6160A

1. Product : Hollow fiber membrane type module

2. Use : Oxygen generation

3. Dimensions and Weight

Length	Diameter	Weight
1580 mm	200 mm	27kg

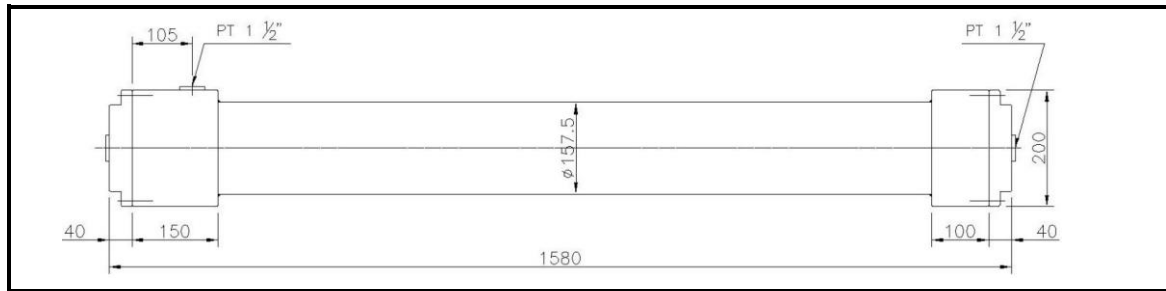
4. Fittings

Air inlet	Outlet	O2 enriched air outlet
Rc1.5" (PT)	Rc1.5" (PT)	Rc1.5" (PT)

5. Components

Cap / Casing	Hollow fiber	Potting materials	Sealing O-Ring
AL-6063	Polysulfone	Epoxy	NBR

6. Module Configuration



7. Operating Conditions

Item	Unit	Condition
Operation Pressure	barg	Max. 20
Temperature(Min/Max)	°C	5 / 55
Relative humidity	%	Less than 60 (at Operating pressure and temperature, Remove moisture with air drier)
Particles	mg/m ³ (0 °C, 101.3 kPa)	Less than 0.1 (Remove particles with 3µm gas filter and 0.01µm mist separator)
Residual oil		Less than 0.01 (Remove oil with 3µm gas filter and 0.01µm mist separator)
Hydrocarbons		Less than 0.01 (Remove hydrocarbons with activated carbon if necessary)

8. Performance

Oxygen Purity 33%

Pressure	MNHO-6160A	Oxygen product flow rate and Air feed required (Nm ³ /hr)		
	Temperature(°C)	25.0	35.0	45.0
5barg	Oxygen	24.0	27.2	32.2
	Air	48.0	54.3	64.4
7barg	Oxygen	34.5	39.3	46.7
	Air	69.1	78.5	93.5
9barg	Oxygen	45.1	51.4	61.3
	Air	90.1	102.7	122.5
11barg	Oxygen	57.3	65.3	77.9
	Air	114.6	130.7	155.9
13barg	Oxygen	68.9	78.6	93.8
	Air	137.8	157.2	187.6
15barg	Oxygen	80.5	91.9	109.7
	Air	160.9	183.7	219.4
17barg	Oxygen	92.7	105.8	126.4
	Air	185.4	211.6	252.8
19barg	Oxygen	105.3	120.2	143.6
	Air	210.6	240.5	287.2
20barg	Oxygen	113.7	129.9	155.1
	Air	227.5	259.8	310.2

Oxygen Purity 37%

Pressure	MNHO-6160A	Oxygen product flow rate and Air feed required (Nm ³ /hr)		
	Temperature(°C)	25.0	35.0	45.0
5barg	Oxygen	24.3	27.4	32.5
	Air	60.6	68.6	81.3
7barg	Oxygen	34.9	39.7	47.2
	Air	87.2	99.1	118.0
9barg	Oxygen	45.5	51.9	61.9
	Air	113.8	129.7	154.7
11barg	Oxygen	57.9	66.0	78.7
	Air	144.7	165.0	196.8
13barg	Oxygen	69.6	79.4	94.8
	Air	173.9	198.4	236.9
15barg	Oxygen	81.3	92.8	110.8
	Air	203.2	231.9	277.0
17barg	Oxygen	93.6	106.9	127.6
	Air	234.0	267.2	319.1
19barg	Oxygen	106.4	121.4	145.0
	Air	265.9	303.6	362.6
20barg	Oxygen	114.9	131.2	156.7
	Air	287.2	327.9	391.7

Oxygen Purity 41%

Pressure	MNHO-6160A	Oxygen product flow rate and Air feed required (Nm ³ /hr)		
	Temperature(°C)	25.0	35.0	45.0
5barg	Oxygen	24.5	27.7	32.9
	Air	98.0	110.8	131.5
7barg	Oxygen	35.2	40.1	47.7
	Air	140.9	160.2	190.7
9barg	Oxygen	46.0	52.4	62.5
	Air	183.9	209.6	250.0
11barg	Oxygen	58.4	66.6	79.5
	Air	233.8	266.6	318.1
13barg	Oxygen	70.3	80.2	95.7
	Air	281.0	320.7	382.8
15barg	Oxygen	82.1	93.7	111.9
	Air	328.3	374.8	447.6
17barg	Oxygen	94.5	107.9	128.9
	Air	378.2	431.8	515.7
19barg	Oxygen	107.4	122.7	146.5
	Air	429.7	490.6	585.9
20barg	Oxygen	116.0	132.5	158.2
	Air	464.1	530.0	633.0