



0,13-6,50  
m<sup>3</sup>/min

0,46-229,5  
cfm

JOURNEY  
OF  
AIR

## OXYGEN GENERATORS

Thanks to the PSA technology utilized by Dalgakiran Oxygen Generators, you can produce oxygen gas with up to 95 % purity within the capacity range of 0.5-2000 Nm<sup>3</sup>/h.

These generators produce oxygen from the compressed air available. The compressed air is cleaned by pre-filtration which eliminates impurities, such as humidity, oil vapours, particles and hydrocarbons.

The filtrated compressed air is directed to twozolite filled columns. While the compressed air is passing through the generator, the nitrogen and carbon dioxide molecules are removed and the pressure dew point is lowered. The generated oxygen gas is clean, dry and of high purity so that it can be used for a wide variety of applications.

The parameters such as compressed air temperature, pressure, oxygen purity and oxygen pressure are all monitored continuously. Dalgakiran oxygen generators guarantee sustainable and high efficiency production.

Pneumatic valves that ensure regular flow of air and oxygen during the process are manufactured from AISI 316L noncorrosive material. Owing to its long operation life, it provides problem free production for long years. Moreover, 316L stainless steel valves no need for maintenances.



### Advantages

- Consistently high purity guaranteed
- Low compressed air consumption and maintenance costs
- Ease of use and maintenance
- Siemens S/1200 PLC
- Instant monitoring and recording of parameters such as purity, pressure, flow rate on the screen
- Visual and audio alarms for various parameters
- Remote control
- Fully automatic operation

Model	Free Oxygen Delivery @ Following Purity Level					
	90%		93%		95%	
	(m <sup>3</sup> /min)	cfm	(m <sup>3</sup> /min)	cfm	(m <sup>3</sup> /min)	cfm
D02 10	0,013	0,46	0,012	0,42	0,010	0,35
D02 20	0,023	0,81	0,020	0,71	0,017	0,60
D02 30	0,043	1,52	0,040	1,41	0,035	1,24
D02 40	0,063	2,22	0,058	2,05	0,053	1,87
D02 60	0,093	3,28	0,085	3,00	0,075	2,65
D02 100	0,163	5,76	0,142	5,01	0,133	4,70
D02 120	0,208	7,35	0,192	6,78	0,167	5,90
D02 150	0,250	8,83	0,225	7,95	0,205	7,24
D02 200	0,333	11,76	0,283	9,99	0,267	9,43
D02 300	0,500	17,66	0,448	15,82	0,417	14,73
D02 400	0,700	24,72	0,633	22,35	0,583	20,59
D02 600	1,000	35,31	0,917	32,38	0,833	29,42
D02 800	1,333	47,07	1,225	43,26	1,117	39,45
D02 1000	1,750	61,80	1,583	55,90	1,500	52,97
D02 1400	2,333	82,39	2,083	73,56	1,833	64,73
D02 1500	2,583	91,22	2,333	82,39	2,133	75,33
D02 2000	3,250	114,77	2,933	103,58	2,667	94,18
D02 2500	4,083	144,19	3,750	132,43	3,417	120,67
D02 3000	4,917	173,64	4,417	155,98	4,083	144,19
D02 4000	6,500	229,55	5,917	208,96	5,417	191,30

CMS CORRECTION FACTORS									
Temperature °C	10	15	20	25	30	35	40	45	50
Correction Factor	1	1	1	1	0,94	0,86	0,81	0,77	0,72

AIR INLET FACTORS				
Pressure (bar[g])	6	6,5	7	7,5
Correction Factor	0,9	0,95	1	1

AIR FACTORS			
Purity (%)	90	93	95
Air/Oxygen Ratio	11,5	12	12

PRESSURE DROP (AIR INLET - GENERATOR OUTLET)			
Purity (%)	90	93	95
Pressure (bar[g])	1,5	1,5	2