



Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity %	Typical Nitrogen ¹⁾ flow rate in m³/hr²) (SCFM)						
	99.5	99.0	98.0	97.0	96.0	95.0	
4 bar g	0.20	0.32	0.50	0.73	0.84	1.04	
(58 psi g)	(0.12)	(0.19)	(0.29)	(0.43)	(0.49)	(0.61)	
5 bar g	0.28	0.46	0.73	0.92	1.17	1.54	
(72.5 psi g)	(0.16)	(0.27)	(0.43)	(0.54)	(0.69)	(0.91)	
6 bar g	0.44	0.60	0.92	1.20	1.53	1.75	
(87 psi g)	(0.21)	(0.35)	(0.54)	(0.71)	(0.9)	(1.03)	
7 bar g	0.44	0.71	1.16	1.49	1.90	2.10	
(101.5 psi g)	(0.26)	(0.42)	(0.68)	(0.88)	(1.12)	(1.24)	
8 bar g	0.54	0.85	1.31	1.75	2.17	2.60	
(116 psi g)	(0.32)	(0.5)	(0.77)	(0.77)	(1.28)	(1.53)	
9 bar g	0.59	0.97	1.54	2.08	2.50	3.00	
(130.5 psi g)	(0.35)	(0.57)	(0.91)	(1.22)	(1.47)	(1.77)	
10 bar g	0.67	1.11	1.78	2.29	2.80	3.40	
(145 psi g)	(0.39)	(0.65)	(1.05)	(1.35)	(1.65)	(2)	
11 bar g	0.73	1.25	1.95	2.57	3.20	3.90	
(159.5 psi g)	(0.43)	(0.74)	(1.15)	(1.51)	(1.88)	(2.3)	
12 bar g	0.79	1.39	2.17	2.80	3.40	4.20	
(174 psi g)	(0.46)	(0.82)	(1.28)	(1.65)	(2)	(2.47)	
13 bar g	0.89	1.49	2.40	3.10	3.80	4.80	
(188.5 psi g)	(0.52)	(0.88)	(1.41)	(1.82)	(2.24)	(2.83)	

Purity %	Typical Feed-air consumption at nitrogen flow rate in m³/hr²l (SCFM)								
	99.5	99.0	98.0	97.0	96.0	95.0			
4 bar g	1.9	1.8	1.9	2.3	2.3	2.5			
(58 psi g)	(1.1)	(1.1)	(1.1)	(1.4)	(1.4)	(1.5)			
5 bar g	2.2	2.3	2.6	2.7	3.0	3.6			
(72.5 psi g)	(1.3)	(1.4)	(1.5)	(1.6)	(1.8)	(2.1)			
6 bar g	2.5	2.8	3.2	3.4	3.9	4.0			
(87 psi g)	(1.5)	(1.6)	(1.9)	(2)	(2.3)	(2.4)			
7 bar g	3.0	3.3	3.9	4.2	4.8	4.7			
(101.5 psi g)	(1.8)	(1.9)	(2.3)	(2.5)	(2.8)	(2.8)			
8 bar g	3.5	3.8	4.4	4.9	5.4	5.8			
(116 psi g)	(2.1)	(2.2)	(2.6)	(2.9)	(3.2)	(3.4)			
9 bar g	3.7	4.3	5.1	5.8	6.3	6.7			
(130.5 psi g)	(2.2)	(2.5)	(3)	(3.4)	(3.7)	(3.9)			
10 bar g	4.1	4.8	5.9	6.3	7.0	7.5			
(145 psi g)	(2.4)	(2.8)	(3.5)	(3.7)	(4.1)	(4.4)			
11 bar g	4.4	5.3	6.3	7.1	7.9	8.5			
(159.5 psi g)	(2.6)	(3.1)	(3.7)	(4.2)	(4.6)	(5)			
12 bar g	4.6	5.9	7.0	7.7	8.4	9.3			
(174 psi g)	(2.7)	(3.5)	(4.1)	(4.5)	(4.9)	(5.5)			
13 bar g	5.5	6.4	7.9	8.7	9.5	10.7			
(188.5 psi g)	(3.2)	(3.8)	(4.6)	(5.1)	(5.6)	(6.3)			

Maximum pressure drop <0.1 bar.

Values between brackets are indicative imperial values

¹⁾The above data represents the typical performance of a single membrane module. Actual performance can vary depending on factors such as feed air pressure and temperature. Please contact your Parker go to person for actual performance information to meet your application's requirements.
²⁾ m³/hr refers to conditions at 1013 mbar(a) and 20°C.

For higher purities please contact Parker

Ambient Conditions

Ambient temperature	+2°C to +50°C (+36°F to 122°F)
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g (190 psi g)
Min. / Max. operating temperature	+2°C to +50°C (+36°F to 122°F)
Maximum oil vapour content	<0.01 mg/m ³ (<0.01 ppm (w))
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.240
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.240

* Revision number may vary, make sure to use the most recent Revision

Note

Parker membrane systems produce both nitrogen and oxygen enriched air. Nitrogen enriched air can cause suffocation and oxygen enriched air causes increased fire hazards. The oxygen enriched air is available at ambient pressure and pressure build-up of enriched oxygen at the outlet must be prevented, otherwise a serious (reversible) decrease in performance will result. The nitrogen enriched air produced should be treated as pressurised air.

Material

Housing	Steel
Tube	Aluminum
Coating (housing)	ESPC to RAL 7039 (Quartz Grey)
Coating (tube)	none

Services on Request 3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	758 x 80 x 63 mm (29.84" x 3.15" x 2.48")
Weight	3.2 kg (7.05 lb)
Connection feed-air	G¾ female to ISO 228
Connection nitrogen enriched air	G¾ female to ISO 228
Connection oxygen enriched air at mospheric pressure	G¾ female to ISO 228
Dimensional drawing	Refer to K3.1.344





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity %	Typical Nitrogen ¹⁾ flow rate in m³/hr²l (SCFM)							
	99.5	99	98	97	96	95	93	90
4 bar g (58 psi g)	0.90 (0,53)	1.44 (0,85)	2.20 (1,3)	2.91 (1,71)	3.63 (2,14)	4.36 (2,57)		
5 bar g (72.5 psi g)	1.3 (0,77)	2.06 (1,21)	3.09 (1,82)	4.05 (2,38)	5.10 (3)	6.15 (3,62)		
6 bar g (87 psi g)	1.71 (1)	2.67 (1,57)	3.99 (2,35)	5.18 (3,05)	6.56 (3,86)	7.94 (4,67)	11.3 (6,62)	18.2 (10,7)
7 bar g (101.5 psi g)	2.11 (1,24)	3.27 (1,93)	4.90 (2,89)	6.46 (3,8)	8.12 (4,78)	9.78 (5,76)	13.8 (8,1)	22.1 (13)
8 bar g (116 psi g)	2.50 (1,47)	3.87 (2,28)	5.82 (3,42)	7.73 (4,55)	9.67 (5,69)	11.6 (6,84)	16.4 (9,63)	26.6 (15,7)
9 bar g (130.5 psi g)	2.81 (1,66)	4.46 (2,62)	6.77 (3,98)	9.03 (5,32)	11.27 (6,63)	13.5 (7,95)	19.0 (11,2)	30.8 (18,1)
10 bar g (145 psi g)	3.12 (1,84)	4.94 (2,91)	7.64 (4,5)	10.3 (6,08)	12.9 (7,57)	15.4 (9,06)	21.7 (12,8)	35.6 (21)
11 bar g (159.5 psi g)	3.41 (2)	5.46 (3,21)	8.49 (5)	11.5 (6,78)	14.5 (8,51)	17.3 (10,2)		
12 bar g (174 psi g)	3.68 (2,16)	5.96 (3,51)	9.32 (5,49)	12.5 (7,38)	15.9 (9,35)	19.1 (11,2)		
13 bar g (188.5 psi g)	3.93	6.45 (3.8)	10.1	13.6	17.1	20.9		

Purity %	Typical Feed-air consumption at nitrogen flow rate in m³/hr² (SCFM)							nte
	99.5	99	98	97	96	95	93	90
4 bar g (58 psi g)	7.5 (4,4)	8.6 (5,1)	9.0 (5,3)	9.5 (5,6)	10.4 (6,1)	11.2 (6,6)		
5 bar g (72.5 psi g)	10.1 (6)	11.5 (6,7)	11.7 (6,9)	12.6 (7,4)	14.0 (8,2)	15.2 (8,9)		
6 bar g (87 psi g)	12.3 (7,2)	13.8 (8,1)	14.2 (8,4)	15.3 (9)	17.1 (10,1)	18.8 (11,1)	22.6 (13,3)	29.9 (17,6)
7 bar g (101.5 psi g)	14.7 (8,6)	16.2 (9,6)	17.1 (10)	18.7 (11)	20.8 (12,2)	22.7 (13,4)	27.1 (16)	36.0 (21,2)
8 bar g (116 psi g)	16.5 (9,7)	18.5 (10,9)	19.7 (11,6)	21.9 (12,9)	24.4 (14,4)	26.5 (15,6)	31.8 (18,7)	42.8 (25,2)
9 bar g (130.5 psi g)	18.5 (10,9)	21.1 (12,4)	22.7 (13,4)	25.6 (15,1)	28.3 (16,7)	30.6 (18)	36.8 (21,6)	49.4 (29,1)
10 bar g (145 psi g)	20.4 (12)	23.2 (13,7)	25.5 (15)	29.2 (17,2)	32.1 (18,9)	34.8 (20,5)	42.0 (24,7)	57.2 (33,7)
11 bar g (159.5 psi g)	22.1 (13)	25.5 (15)	28.3 (16,6)	32.4 (19,1)	36.1 (21,2)	39.0 (23)		
12 bar g (174 psi g)	24.1 (14,2)	27.9 (16,4)	31.3 (18,4)	35.5 (20,9)	39.8 (23,4)	43.3 (25,5)		
13 bar g (188.5 psi g)	25.9 (15,3)	30.9 (18,2)	34.3 (20,2)	38.8 (22,8)	43.2 (25,5)	47.8 (28,1)		

Maximum pressure drop at Purity <0.2 bar

Values between brackets are indicative of imperial values

¹⁾The above data represents the typical performance of a single membrane module. Actual performance can vary depending on factors such as feed air pressure and temperature. Please contact your Parker go to person for actual performance information to meet your application's requirements. ²⁾ m³/hr refers to conditions at 1013mbar(a) and 20°C.

For purities >99.5% please contact Parker

Ambient Conditions

Ambient temperature	+2°C to +50°C (+36°F to 122°F)
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g (190 psi g)
Min. / Max. operating temperature	+2°C / +50°C (+36°F to 122°F)
Maximum oil vapour content	<0.01 mg/m ³ (<0.01 ppm (w))
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Note

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.240
Feed-air consumption at feed-air	Use bulletin S3.1.240

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	15 bar g ⁴⁾ (217 psi g) ⁴⁾
Design temperature	65°C ⁴⁾ (149°F) ⁴⁾

⁴ Membrane ambient and operating conditions are lower

Material

Housing	Aluminum
Coating	ESPC to RAL 7039 (Quartz Grey) Dry Film Thickness: 60 micron

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	782 x 114 mm (30.79" x 4.49")
Weight	5.5 kg (12.1 lb)
Connection feed-air	G¾ female to ISO 228
Connection nitrogen enriched air	G¾ female to ISO 228
Connection oxygen enriched air at atmospheric pressure enriched air	G1 female to ISO 228
Dimensional drawing	Refer to K3.1.383





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity %	Typical Nitrogen ¹⁾ flow rate in m³/hr²) (SCFM)					
	99.5	99.0	98.0	97.0	96.0	95.0
4 bar g	2.8	4.0	5.7	7.1	9.5	10.9
(58 psi g)	(1.6)	(2.4)	(3.4)	(4.2)	(5.6)	(6.4)
5 bar g	3.7	5.3	7.9	10.2	12.8	15.2
(72.5 psi g)	(2.2)	(3.1)	(4.6)	(6)	(7.5)	(8.9)
6 bar g	4.7	7.0	10.2	13.0	15.7	20.5
(87 psi g)	(2.8)	(4.1)	(6)	(7.7)	(9.2)	(12.1)
7 bar g	6.1	8.5	12.3	16.5	19.5	24.3
(101.5 psi g)	(3.6)	(5)	(7.2)	(9.7)	(11.5)	(14.3)
8 bar g	6.9	9.7	14.3	20.2	23.3	28.1
(116 psi g)	(4.1)	(5.7)	(8.4)	(11.9)	(13.7)	(16.5)
9 bar g	7.8	11.1	17.0	22.2	27.0	32.2
(130.5 psi g)	(4.6)	(6.5)	(10)	(13.1)	(15.9)	(19)
10 bar g	8.6	12.6	18.5	24.2	30.2	37.4
(145 psi g)	(5.1)	(7.4)	(10.9)	(14.2)	(17.8)	(22)
11 bar g	9.6	14.2	20.7	27.3	33.0	41.0
(159.5 psi g)	(5.7)	(8.4)	(12.2)	(16.1)	(19.4)	(24.1)
12 bar g	10.5	15.2	22.9	29.5	36.6	45.6
(174 psi g)	(6.2)	(8.9)	(13.5)	(17.4)	(21.5)	(26.8)
13 bar g	11.3	16.3	24.9	32.0	39.5	48.8
(188.5 psi g)	(6.7)	(9.6)	(14.7)	(18.8)	(23.2)	(28.7)

Maximum pressure drop at Purity <0.2 bar

Values between brackets are indicative of imperial values

¹⁾ The above data represents the typical performance of a single membrane module. Actual performance can vary depending on factors such as feed air pressure and temperature. Please contact your Parker go to person for actual performance information

to meet your application's requirements. ²⁾ m³/hr refers to conditions at 1013 mbar(a) and 20°C

For purities >99.5% please contact Parker

Ambient Conditions

Ambient temperature	+2°C to +50°C (+36°F to 122°F)
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g (190 psi g)
Min. / Max. operating temperature	+2°C / +50°C (+36°F to 122°F)
Maximum oil vapour content	<0.01 mg/m ³ (<0.01 ppm (w))
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.240
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.240

* Revision number may vary, make sure to use the most recent revision

Note

Parker membrane systems produce both nitrogen and oxygen enriched air. Nitrogen enriched air can cause suffocation and oxygen enriched air causes increased fire hazards. The oxygen enriched air is available at ambient pressure and pressure build-up of enriched oxygen at the outlet must be prevented, otherwise a serious (reversible) decrease in performance will result. The nitrogen enriched air produced should be treated as pressurised air.

Purity %	Typical Feed-air consumption at nitrogen flow rate in m³/hr²l (SCFM)					
	99.5	99.0	98.0	97.0	96.0	95.0
4 bar g	21	21	22	22	26	27
(58 psi g)	(12)	(12)	(13)	(13)	(15)	(16)
5 bar g	24	26	29	31	34	36
(72.5 psi g)	(14)	(15)	(17)	(18)	(20)	(21)
6 bar g	29	33	36	38	41	48
(87 psi g)	(17)	(19)	(21)	(22)	(24)	(28)
7 bar g	36	38	41	48	50	56
(101.5 psi g)	(21)	(22)	(24)	(28)	(29)	(33)
8 bar g	38	42	47	56	58	63
(116 psi g)	(22)	(25)	(28)	(33)	(34)	(37)
9 bar g	44	48	55	62	67	72
(130.5 psi g)	(26)	(28)	(32)	(36)	(39)	(42)
10 bar g	50	56	61	68	75	84
(145 psi g)	(29)	(33)	(36)	(40)	(44)	(49)
11 bar g	51	60	66	74	80	91
(159.5 psi g)	(30)	(35)	(39)	(44)	(47)	(54)
12 bar g	57	65	76	83	92	103
(174 psi g)	(34)	(38)	(45)	(49)	(54)	(61)
13 bar g	66	72	85	92	101	113
(188.5 psi)	(39)	(42)	(50)	(54)	(59)	(67)

Mechanical Design Housing

Design pressure	15 bar g ⁴⁾ (217 psi g) ⁴⁾
Design temperature	65°C ⁴ (149°F) ⁴

4) Membrane ambient and operating conditions are lower

Material

Housing	Aluminum
Coating	ESPC to RAL 7039 (Quartz Grey) Dry Film Thickness: 60 micron

Services on Request

Material certificates EN10204-3.1 on housing materia	al
(for Stainless Steel only)	
3D model CAD STEP file	

Weight, Dimensions and Connections

Dimensions H x Ø D	1655 x 114 mm (65.12" x 4.49")
Weight	6.8 kg (15 lb)
Connection feed-air	G¾ female to ISO 228
Connection nitrogen enriched air	G¾ female to ISO 228
Connection oxygen enriched air at mospheric pressure	G1 female to ISO 228
Dimensional drawing	Refer to K3.1.330

SmartFluxx SA1508SS





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity %	rity % Typical Nitrogen ¹⁾ flow rate in m ³ /hr ²⁾ (SCFM)							
	99.5	99.0	98.0	97.0	96.0	95.0		
4 bar g	2.8	4.0	5.7	7.1	9.5	10.9		
(58 psi g)	(1.6)	(2.4)	(3.4)	(4.2)	(5.6)	(6.4)		
5 bar g	3.7	5.3	7.9	10.2	12.8	15.2		
(72.5 psi g)	(2.2)	(3.1)	(4.6)	(6)	(7.5)	(8.9)		
6 bar g	4.7	7.0	10.2	13.0	15.7	20.5		
(87 psi g)	(2.8)	(4.1)	(6)	(7.7)	(9.2)	(12.1)		
7 bar g	6.1	8.5	12.3	16.5	19.5	24.3		
(101.5 psi g)	(3.6)	(5)	(7.2)	(9.7)	(11.5)	(14.3)		
8 bar g	6.9	9.7	14.3	20.2	23.3	28.1		
(116 psi g)	(4.1)	(5.7)	(8.4)	(11.9)	(13.7)	(16.5)		
9 bar g	7.8	11.1	17.0	22.2	27.0	32.2		
(130.5 psi g)	(4.6)	(6.5)	(10)	(13.1)	(15.9)	(19)		
10 bar g	8.6	12.6	18.5	24.2	30.2	37.4		
(145 psi g)	(5.1)	(7.4)	(10.9)	(14.2)	(17.8)	(22)		
11 bar g	9.6	14.2	20.7	27.3	33.0	41.0		
(159.5 psi g)	(5.7)	(8.4)	(12.2)	(16.1)	(19.4)	(24.1)		
12 bar g	10.5	15.2	22.9	29.5	36.6	45.6		
(174 psi g)	(6.2)	(8.9)	(13.5)	(17.4)	(21.5)	(26.8)		
13 bar g	11.3	16.3	24.9	32.0	39.5	48.8		
(188.5 psi g)	(6.7)	(9.6)	(14.7)	(18.8)	(23.2)	(28.7)		

Maximum pressure drop at Purity <0.2 bar

Values between brackets are indicative of imperial values

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Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g (190 psi g)
Min. / Max. operating temperature	+2°C to +50°C (+36°F to 122°F)
Maximum oil vapour content	<0.01 mg/m ³ (<0.01 ppm (w))
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.240
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.240

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Note

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Purity %	Typical Feed-air consumption at nitrogen flow rate in m³/hr²l (SCFM)									
	99.5	99.0	98.0	97.0	96.0	95.0				
4 bar g	21	21	22	22	26	27				
(58 psi g)	(12)	(12)	(13)	(13)	(15)	(16)				
5 bar g	24	26	29	31	34	36				
(72.5 psi g)	(14)	(15)	(17)	(18)	(20)	(21)				
6 bar g	29	33	36	38	41	48				
(87 psi g)	(17)	(19)	(21)	(22)	(24)	(28)				
7 bar g	36	38	41	48	50	56				
(101.5 psi g)	(21((22)	(24)	(28)	(29)	(33)				
8 bar g	38	42	47	56	58	63				
(116 psi g)	(22)	(25)	(28	(33)	(34)	(37)				
9 bar g	44	48	55	62	67	72				
(130.5 psi g)	(26)	(28)	(32)	(36)	(39)	(42)				
10 bar g	50	56	61	68	75	84				
(145 psi g)	(29)	(33)	(36)	(40)	(75)	(44)				
11 bar g	51	60	66	74	80	91				
(159.5 psi g)	(30)	(35)	(39)	(44)	(47)	(54)				
12 bar g	57	65	76	83	92	103				
(174 psi g)	(34)	(38)	(45)	(49)	(54)	(61)				
13 bar g	66	72	85	92	101	113				
(188.5 psi g)	(39)	(42)	(50)	(54)	(59)	(67)				

Mechanical Design Housing

Design pressure	15 bar g4 (217 psi g)4
Design temperature	65°C ⁴⁾ (149°F) ⁴⁾

4) Membrane operating limits are lower

Material

Housing	Stainless Steel
Coating	None

Services on Request

•	
Material certificates EN10204-3.1 on housing material	
(for Stainless Steel only)	
3D model CAD STEP file	

Weight, Dimensions and Connections

Dimensions H x Ø D	1654 x 114 mm (65.12" x 4.49")
Weight	18 kg (40 lb)
Connection feed-air	G¾ female to ISO 228
Connection nitrogen enriched air	G¾ female to ISO 228
Connection oxygen enriched air at atmospheric pressure	G1 female to ISO 228
Dimensional drawing	Refer to K3.1.330

123





95.0

169

(99)

218

(128)

276

(162)

348

(205)

399

(235)

485

(285)

Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity %	Typical Nitrogen ¹⁾ flow rate in m ³ /hr ²⁾ (SCFM)					Purity %		Typical Feed-air consumption at nitrogen flow rate in m ³ /hr ²⁾ (SCFM)				
	99.5	99.0	98.0	97.0	96.0	95.0		99.5	99.0	98.0	97.0	96.0
4 bar g	17	25	36	47	57	70	4 bar g	127	126	135	145	155
(58 psi g)	(10)	(15)	(21)	(28)	(34)	(41)	(58 psi g)	(75)	(74)	(79)	(85)	(91)
5 bar g	23	33	49	66	82	93	5 bar g	144	155	171	194	216
(72.5 psi g)	(14)	(19)	(29)	(39)	(48)	(55)	(72.5 psi g)	(85)	(91)	(101)	(114)	(127)
6 bar g	29	43	63	83	102	120	6 bar g	170	191	214	239	261
(87 psi g)	(17)	(25)	(37)	(49)	(60)	(71)	(87 psi g)	(100)	(112)	(126)	(141)	(154)
7 bar g	37	53	78	100	125	154	7 bar g	202	223	258	281	315
(101.5 psi g)	(22)	(31)	(46)	(59)	(74)	(91)	(101.5 psi g)	(119)	(131)	(152)	(165)	(185)
8 bar g	44	62	90	117	144	178	8 bar g	232	255	293	323	361
(116 psi g)	(26)	(36)	(53)	(69)	(85)	(105)	(116 psi g)	(137)	(150)	(172)	(190)	(212)
9 bar g	49	72	103	133	165	216	9 bar g	264	298	335	369	413
(130.5 psi g)	(29)	(42)	(61)	(78)	(97)	(127)	(130.5 psi g)	(155)	(175)	(197)	(217)	(243)

Maximum pressure drop at Purity: ≤0.2 bar

Values between brackets are indicative imperial values"

The above data represents the typical performance of a single membrane module. Actual performance can vary depending on factors such as feed air pressure and temperature.

Please contact your Parker go to person for actual performance information to meet your application's requirements ^a m³/hr refers to conditions at 1013 mbar(a) and 20°C

For higher purities please contact Parker

Ambient Conditions

Ambient temperature	+2°C to +50°C (+36°F to 122°F)
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Operating Conditions Feed-air

Maximum operating pressure	9.0 bar g (130.5 psi g)
Min. / Max. operating temperature	+2°C to +50°C (+36°F to 122°F)
Maximum oil vapour content	<0.01 mg/m ³ (<0.01 ppm (w))
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.240 ³
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.240

³⁾ Revision number may vary, make sure to use the most recent revision

Mechanical Design Housing

Design pressure	14 bar g ⁴⁾ (203 psi g) ⁴
Design temperature	65°C ⁴⁾ (149°F) ⁴

⁴⁾ Membrane operating limits are lower

Material

Housing	Aluminum
Coating	ESPC to RAL 7039 (Quartz Grey) Dry Film Thickness: 60 micron

Services Available on Request **3D model CAD STEP file**

Weight, Dimensions and Connections

Dimensions H x Ø D	1740 x 280 mm (68.50" x 11.02")
Weight	46 kg (102 lb)
Connection feed-air	G2½ female to ISO 228
Connection nitrogen enriched air	G2½ female to ISO 228
Connection oxygen enriched air at atmospheric pressure	100mm (3.94") OD
Dimensional drawing	Refer to K3.1.339

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mi	nimum nitro	ogen flow r	ate in m ³ /hr	. 2	Durity 0/	Feed-air cor	nsumption at	tion at minimum nitrogen flow rate in m ³ /hr ²				
Fully 70	99	98	97	96	95	Fully 70	99	98	97	96	95		
4 bar g	0.15	0.27	0.39	0.50	0.62	4 bar g	1.16	1.29	1.43	1.54	1.69		
5 bar g	0.19	0.34	0.48	0.62	0.78	5 bar g	1.44	1.61	1.78	1.92	2.11		
6 bar g	0.25	0.45	0.62	0.80	0.98	6 bar g	1.73	1.98	2.18	2.39	2.65		
7 bar g	0.29	0.52	0.73	0.93	1.14	7 bar g	2.02	2.31	2.55	2.79	3.09		
8 bar g	0.33	0.60	0.83	1.06	1.31	8 bar g	2.31	2.64	2.91	3.19	3.53		
9 bar g	0.39	0.70	0.95	1.23	1.52	9 bar g	2.70	3.06	3.33	3.69	4.10		
10 bar g	0.41	0.75	1.04	1.33	1.64	10 bar g	2.89	3.30	3.64	3.99	4.42		
11 bar g	0.43	0.82	1.15	1.48	1.83	11 bar g	3.45	3.85	4.24	4.58	4.94		
12 bar g	0.45	0.89	1.25	1.63	2.02	12 bar g	3.60	4.17	4.63	5.04	5.46		

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* version number may vary, make sure to use the most recent version

Material

Housing	Aluminum
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Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	386 x 80 x 63 mm
Weight	2.3 kg
Connection inlet / outlet	G¾ female
Vent	G¾ female
Dimensional drawing	Refer to K3.1.348

Note

HiFluxx DT304





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Density 0/1	N	/linimum	nitrogen	flow rate	in m³/hr²			Durity 0/	Feed-air consumption at minimum nitrogen flow rate in m ³ /hr ³								
Purity %	99.5	99	98	97	96	95		Purity %	99.5	99	98	97	96	95			
4 bar g	0.29	0.47	0.75	1.00	1.26	1.55		4 bar g	2.56	2.78	3.16	3.41	3.77	4.03			
5 bar g	0.36	0.59	0.94	1.25	1.57	1.94		5 bar g	3.20	3.47	3.95	4.26	4.72	5.04			
6 bar g	0.47	0.75	1.19	1.61	2.00	2.43		6 bar g	3.93	4.29	4.89	5.30	5.80	6.32			
7 bar g	0.55	0.88	1.39	1.87	2.33	2.84		7 bar g	4.58	5.00	5.70	6.18	6.76	7.37			
8 bar g	0.62	1.00	1.59	2.14	2.67	3.24		8 bar g	5.24	5.72	6.52	7.06	7.73	8.43			
9 bar g	0.71	1.14	1.79	2.44	3.03	3.68		9 bar g	5.93	6.53	7.33	8.05	8.78	9.57			
10 bar g	0.78	1.25	1.99	2.68	3.33	4.05		10 bar g	6.55	7.14	8.15	8.83	9.66	10.5			
11 bar g	0.83	1.35	2.14	2.89	3.63	4.44		11 bar g	7.50	8.13	9.22	10.1	10.9	11.5			
12 bar g	0.89	1.46	2.30	3.11	3.94	4.83		12 bar g	7.99	8.73	9.89	10.9	11.8	12.5			

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* version number may vary, make sure to use the most recent version

Material	
Housing	Aluminum

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	386 x 145 x 63 mm
Weight	4.0 kg
Connection inlet / outlet	G¾ female
Vent	G¾ female
Dimensional drawing	Refer to K3.1.349

Note

HiFluxx TT304





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	P	Minimum	nitrogen f	low rate	in m³/hr ²		Durity 0/		Feed-air c	onsumptio	n at minim	um nitroge	n flow rate	in m³/hr ²
Purity %	99.5	99	98	97	96	95		Purity %	99.5	99	98	97	96	95
4 bar g	0.50	0.74	1.13	1.49	1.79	2.28		4 bar g	3.82	4.17	4.63	5.06	5.37	5.92
5 bar g	0.62	0.93	1.41	1.86	2.24	2.85		5 bar g	4.78	5.21	5.79	6.33	6.71	7.40
6 bar g	0.77	1.17	1.78	2.36	2.93	3.55		6 bar g	5.93	6.46	7.12	7.78	8.48	9.23
7 bar g	0.90	1.37	2.08	2.75	3.41	4.14		7 bar g	6.92	7.53	8.30	9.07	9.90	10.8
8 bar g	1.03	1.57	2.37	3.14	3.90	4.73		8 bar g	7.91	8.61	9.49	10.4	11.3	12.3
9 bar g	1.16	1.73	2.66	3.54	4.45	5.39		9 bar g	9.01	9.71	10.9	11.7	12.9	14.0
10 bar g	1.28	1.96	2.97	3.93	4.88	5.92		10 bar g	10.0	11.0	12.2	13.0	14.1	15.4
11 bar g	1.36	2.07	3.19	4.25	5.32	6.48		11 bar g	11.6	12.4	13.7	14.9	16.0	17.5
12 bar g	1.43	2.18	3.41	4.57	5.77	7.05		12 bar g	12.2	13.1	14.7	16.0	17.3	19.0

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Material

Housing

Aluminum

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	388 x 200 x 63 mm
Weight	5.7 kg
Connection inlet / outlet	G¾ female
Vent	G¾ female
Dimensional drawing	Refer to K3.1.352

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mir	nimum nitro	ogen flow ra	ate in m³/hr	2	Durity 0/1	Feed-air cor	sumption at	minimum nit	trogen flow ra	ate in m³/hr ²
Fully 70	99	98	97	96	95	Punty 70	99	98	97	96	95
4 bar g	0.20	0.33	0.47	0.61	0.75	4 bar g	1.57	1.70	1.84	2.01	2.17
5 bar g	0.27	0.46	0.65	0.84	1.03	5 bar g	1.94	2.12	2.37	2.63	2.82
6 bar g	0.36	0.60	0.83	1.07	1.31	6 bar g	2.38	2.56	3.00	3.31	3.53
7 bar g	0.41	0.71	1.01	1.29	1.57	7 bar g	2.78	3.06	3.54	3.81	4.17
8 bar g	0.48	0.83	1.18	1.52	1.86	8 bar g	3.24	3.55	4.13	4.45	4.91
9 bar g	0.55	0.95	1.35	1.75	2.14	9 bar g	3.73	4.06	4.72	5.12	5.66
10 bar g	0.62	1.07	1.52	1.96	2.39	10 bar g	4.23	4.60	5.33	5.77	6.35
11 bar g	0.68	1.19	1.69	2.17	2.65	11 bar g	4.78	5.19	5.97	6.46	7.06
12 bar g	0.75	1.30	1.86	2.38	2.90	12 bar g	5.39	5.83	6.64	7.21	7.78
13 bar g	0.81	1.42	2.04	2.59	3.15	13 bar g	6.07	6.55	7.36	8.03	8.53

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%.

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

 $^{2.}$ m³/hr refers to conditions at 1013mbar(a) and 20 $^{\circ}\text{C}$

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Material

Housing	Steel
Tube	Aluminum
Coating (housing)	ESPC to RAL 7035 (Light Grey)
Coating (tube)	None

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C to +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.059 [*]
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059 [*]

* Revision number may vary, make sure to use the most recent Revision

Services Available on Request

3D model CAD STEP file	
Test Report	

Weight, Dimensions and Connections

Dimensions H x W x D	520 x 80 x 63 mm
Weight	2.6 kg
Connection feed-air	G¾ female to ISO 228
Connection nitrogen enriched air	G¾ female to ISO 228
Connection oxygen enriched air at atmospheric pressure	G% female to ISO 228
Dimensional drawing	Refer to K3.1.380

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mi	nimum nitro	ogen flow r	ate in m ³ /hr	• 2	Durity 0/1	Feed-air consumption at minimum nitrogen flow rate in m ³ /hr ²						
Purity %	99	98	97	96	95	Purity %	99	98	97	96	95		
4 bar g	0.39	0.65	0.88	1.11	1.40	4 bar g	2.47	2.80	3.09	3.34	3.63		
5 bar g	0.48	0.81	1.10	1.39	1.74	5 bar g	3.08	3.50	3.86	4.17	4.53		
6 bar g	0.61	1.05	1.42	1.80	2.19	6 bar g	3.81	4.39	4.83	5.21	5.70		
7 bar g	0.72	1.22	1.66	2.10	2.56	7 bar g	4.44	5.12	5.64	6.08	6.65		
8 bar g	0.82	1.39	1.90	2.40	2.92	8 bar g	5.08	5.86	6.44	6.95	7.60		
9 bar g	0.93	1.61	2.19	2.77	3.39	9 bar g	5.86	6.74	7.46	8.04	8.82		
10 bar g	1.02	1.74	2.37	3.00	3.65	10 bar g	6.45	7.32	8.06	8.69	9.50		
11 bar g	1.12	1.91	2.62	3.33	4.07	11 bar g	7.41	8.42	9.16	9.98	10.6		
12 bar g	1.22	2.09	2.87	3.66	4.48	12 bar g	8.05	9.18	10.0	11.0	11.7		

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Material

Housing

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	757 x 80 x 63 mm
Weight	3.2 kg
Connection inlet / outlet	G¾ female
Vent	G¾ female
Dimensional drawing	Refer to K3.1.344

Note

Parker membrane systems produce both nitrogen and oxygen enriched air. Nitrogen enriched air can cause suffocation and oxygen enriched air causes increased fire hazards. The oxygen enriched air is available at ambient pressure and pressure build-up of enriched oxygen at the outlet must be prevented, otherwise a serious (reversible) decrease in performance will result. The nitrogen enriched air produced should be treated as pressurised air.

Aluminum

HiFluxx DT604





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	P	/ inimum	nitrogen f	flow rate	in m³/hr ²			Purity %	Feed-air consumption at minimum nitrogen flow rate in m³/hr ²						
Purity %	99.5	99	98	97	96	95			99.5	99	98	97	96	95	
4 bar g	0.76	1.13	1.69	2.23	2.76	3.36		4 bar g	5.79	6.21	6.95	7.57	8.02	8.72	
5 bar g	0.95	1.41	2.12	2.78	3.46	4.19		5 bar g	7.24	7.77	8.69	9.46	10.0	10.9	
6 bar g	1.19	1.77	2.67	3.35	4.37	5.27		6 bar g	8.94	9.56	10.7	11.4	12.7	13.7	
7 bar g	1.39	2.07	3.11	3.91	5.09	6.15		7 bar g	10.4	11.2	12.5	13.3	14.8	16.0	
8 bar g	1.59	2.36	3.56	4.46	5.82	7.03		8 bar g	11.9	12.7	14.2	15.2	16.9	18.3	
9 bar g	1.75	2.63	4.03	5.30	6.60	8.00		9 bar g	13.3	14.5	16.1	18.0	19.1	20.8	
10 bar g	1.99	2.95	4.45	5.58	7.28	8.79		10 bar g	15.1	16.2	17.8	19.0	21.1	22.9	
11 bar g	2.08	3.14	4.80	6.22	7.93	9.62		11 bar g	17.3	18.5	20.2	21.2	23.8	25.0	
12 bar g	2.17	3.33	5.16	6.87	8.58	10.4		12 bar g	18.0	19.6	21.7	23.4	25.7	27.2	

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed	Lise bulletin S3 1 059*			
temperatures other than 20°C	030 Duiletin 00.1.000			
Feed-air consumption at feed-air	Lise bulletin S3 1 050*			
temperatures other than 20°C	03e Dulletin 33. 1.039			

* Revision number may vary, make sure to use the most recent Revision

Material

Housing

Aluminum

Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) 3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	758 x 145 x 63 mm
Weight	6.0 kg
Connection inlet / outlet	G¾ female
Vent	G¾ female
Dimensional drawing	Refer to K3.1.350

HiFluxx TT604





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Density 0/1		Minimum	nitrogen 1	ilow rate i	in m³/hr ²		Durity 0/	Feed-air consumption at minimum nitrogen flow rate in m³/hr ²					
Purity %	99.5	99	98	97	96	95	Purity %	99.5	99	98	97	96	95
4 bar g	1.05	1.55	2.32	3.06	3.75	4.49	4 bar g	8.21	8.68	9.51	10.4	11.2	12.1
5 bar g	1.32	1.94	2.90	3.83	4.69	5.62	5 bar g	10.3	10.8	11.9	13.0	14.1	15.2
6 bar g	1.62	2.41	3.64	4.82	6.02	7.20	6 bar g	12.5	13.5	14.9	16.4	17.4	18.7
7 bar g	1.89	2.81	4.25	5.62	7.02	8.40	7 bar g	14.6	15.8	17.4	19.1	20.4	21.8
8 bar g	2.16	3.22	4.85	6.42	8.02	9.60	8 bar g	16.7	18.0	19.9	21.8	23.3	25.0
9 bar g	2.41	3.60	5.54	7.23	8.97	11.1	9 bar g	19.3	20.5	22.7	24.6	26.9	28.8
10 bar g	2.71	4.02	6.07	8.03	10.0	12.0	10 bar g	21.6	22.9	24.9	27.3	30.1	31.2
11 bar g	2.89	4.31	6.62	8.80	10.9	13.2	11 bar g	24.6	26.3	28.5	30.8	33.8	35.6
12 bar g	3.07	4.60	7.17	9.58	11.8	14.3	12 bar g	26.1	28.1	30.8	33.5	36.5	38.7

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Material

Housing

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	758 x 200 x 63 mm
Weight	8.3 kg
Connection inlet / outlet	G¾ female
Vent	G¾ female
Dimensional drawing	Refer to K3.1.353

Note

Parker membrane systems produce both nitrogen and oxygen enriched air. Nitrogen enriched air can cause suffocation and oxygen enriched air causes increased fire hazards. The oxygen enriched air is available at ambient pressure and pressure build-up of enriched oxygen at the outlet must be prevented, otherwise a serious (reversible) decrease in performance will result. The nitrogen enriched air produced should be treated as pressurised air.

Aluminum





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mi	nimum nitro	ogen flow r	low rate in m ³ /hr ²		Durity 0/	Feed-air consumption at minimum nitrogen flow rate in m³/hr ²					
Purity %	99	98	97	96	95		Purity %	99	98	97	96	95
4 bar g	0.77	1.25	1.71	2.13	2.63		4 bar g	4.85	5.37	5.99	6.39	6.83
5 bar g	0.96	1.56	2.14	2.66	3.28		5 bar g	6.07	6.72	7.49	7.99	8.54
6 bar g	1.20	1.98	2.70	3.41	4.19		6 bar g	7.45	8.52	9.44	10.24	10.9
7 bar g	1.40	2.31	3.15	3.98	4.89		7 bar g	8.69	9.94	11.0	11.9	12.7
8 bar g	1.60	2.64	3.60	4.55	5.59		8 bar g	9.93	11.4	12.6	13.6	14.5
9 bar g	1.80	3.00	4.08	5.17	6.41		9 bar g	11.3	12.9	14.3	15.5	16.7
10 bar g	2.00	3.30	4.49	5.69	6.99		10 bar g	12.6	14.2	15.7	17.1	18.2
11 bar g	2.10	3.56	4.87	6.18	7.61		11 bar g	14.5	16.0	17.5	19.2	20.5
12 bar g	2.20	3.82	5.24	6.68	8.23		12 bar g	15.2	17.2	18.9	20.7	22.2

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Material

Connection block	Aluminium
Tube	PVC

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	751 x 110 x 84 mm
Weight	6.4 kg
Connection inlet / outlet	G½ female
Vent	G½ female
Dimensional drawing	Refer to K3.1.345

Note

HiFluxx TT606





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Density $0/1$	N	Ninimum	nitrogen f	flow rate i	in m³/hr ²		Feed-air consumption at minimum nitrogen					n flow rate in m ³ /hr ²		
Purity %	99.5	99	98	97	96	95	Purity %	99.5	99	98	97	96	95	
4 bar g	1.90	2.74	4.12	5.40	6.70	8.07	4 bar g	15.0	15.9	17.7	18.9	20.1	21.8	
5 bar g	2.38	3.42	5.15	6.75	8.38	10.1	5 bar g	18.8	19.9	22.1	23.6	25.1	27.2	
6 bar g	2.93	4.34	6.53	8.64	10.6	12.8	6 bar g	22.9	24.7	26.8	29.4	31.9	33.4	
7 bar g	3.42	5.06	7.62	10.1	12.4	15.0	7 bar g	26.7	28.8	31.2	34.3	37.3	39.0	
8 bar g	3.91	5.78	8.71	11.5	14.2	17.1	8 bar g	30.5	33.0	35.7	39.2	42.6	44.5	
9 bar g	4.48	6.63	10.1	13.3	16.4	19.5	9 bar g	35.0	37.8	41.2	45.1	49.3	52.6	
10 bar g	4.89	7.23	10.9	14.4	17.7	21.4	10 bar g	38.2	41.2	44.6	49.0	53.2	57.8	
11 bar g	5.27	7.88	12.0	15.8	19.7	23.8	11 bar g	44.8	47.3	51.6	55.4	61.0	64.3	
12 bar g	5.65	8.54	13.1	17.2	21.6	26.2	12 bar g	48.0	51.2	56.5	60.3	66.9	70.7	

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Material

Connection block	Aluminum
Tube	PVC

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	751 x 270 x 83 mm
Weight	15 kg
Connection inlet / outlet	G½ female
Vent	G1⁄2 female
Dimensional drawing	Refer to K3.1.354

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Minimum nitrogen flow rate in m ³ /hr ²						Durity 0/	Feed-air consumption at minimum nitrogen flow rate in m³/hr ²					
Purity %	99	98	97	96	95		Purity %	99	98	97	96	95	
4 bar g	1.34	2.25	3.07	3.87	4.82		4 bar g	9.08	10.1	11.1	12.0	13.0	
5 bar g	1.67	2.81	3.84	4.84	6.02		5 bar g	11.4	12.7	13.8	15.0	16.3	
6 bar g	2.14	3.72	4.99	6.48	7.91		6 bar g	14.1	16.0	17.5	19.5	20.6	
7 bar g	2.49	4.34	5.82	7.56	9.23		7 bar g	16.5	18.7	20.4	22.7	24.0	
8 bar g	2.85	4.96	6.65	8.65	10.6		8 bar g	18.8	21.3	23.3	25.9	27.4	
9 bar g	3.36	5.81	7.85	10.0	12.2		9 bar g	21.8	25.0	27.5	30.0	31.8	
10 bar g	3.56	6.21	8.32	10.8	13.2		10 bar g	23.2	26.7	29.1	32.4	34.3	
11 bar g	4.01	6.96	9.46	12.2	14.9		11 bar g	27.7	31.3	34.1	36.5	40.2	
12 bar g	4.46	7.71	10.6	13.5	16.6		12 bar g	30.8	34.7	38.2	40.6	44.9	

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Material Housing

I <mark>sing</mark> Aluminum

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	736 x 114 mm
Weight	5.3 kg
Connection inlet / outlet	G¾ female
Vent	G1 female
Dimensional drawing	Refer to K3.1.346





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mi	nimum nitro	ogen flow r	ate in m ³ /hr	2	Durity 0/1		Feed-air consumption at minimum nitrogen flow rate in m³/hr ²					
Purity %	99	98	97	96	95		Purity %	99	98	97	96	95	
4 bar g	0.25	0.52	0.79	1.05	1.30		4 bar g	2.32	2.81	3.21	3.53	3.87	
5 bar g	0.37	0.73	1.09	1.42	1.75		5 bar g	3.08	3.71	4.21	4.58	4.96	
6 bar g	0.47	0.92	1.37	1.81	2.26		6 bar g	3.67	4.47	5.12	5.65	6.21	
7 bar g	0.65	1.16	1.67	2.18	2.69		7 bar g	5.08	5.54	6.09	6.66	7.26	
8 bar g	0.72	1.33	1.95	2.50	3.05		8 bar g	5.60	6.35	7.08	7.61	8.21	
9 bar g	0.87	1.55	2.22	2.86	3.50		9 bar g	6.77	7.36	8.08	8.70	9.41	
10 bar g	0.96	1.72	2.47	3.19	3.90		10 bar g	7.51	8.20	9.03	9.71	10.5	
11 bar g	1.05	1.89	2.73	3.51	4.30		11 bar g	8.26	9.06	9.99	10.7	11.6	
12 bar g	1.14	2.05	2.97	3.83	4.69		12 bar g	9.05	9.91	10.9	11.8	12.7	
13 bar g	1.22	2.22	3.21	4.14	5.07		13 bar g	10.1	10.9	11.9	12.9	14.0	

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%.

1. Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Material

Test Report

Services on Request 3D model CAD STEP file

Dimensions H x W x D

Housing	Steel
Tube	Aluminum
Coating (housing)	ESPC to RAL 7035 (Light Grey)
Coating (tube)	None

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C to +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed-air temperatures other than 20°C	Use bulletin S3.1.059 [*]
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059 [*]

* Revision number may vary, make sure to use the most recent Revision

Weight	3.2 kg
Connection feed-air	G% female to ISO 228
Connection nitrogen enriched air	G% female to ISO 228
Connection oxygen enriched air at atmospheric pressure	G% female to ISO 228
Dimensional drawing	Refer to K3.1.381

Weight, Dimensions and Connections

Note

Parker membrane systems produce both nitrogen and oxygen enriched air. Nitrogen enriched air can cause suffocation and oxygen enriched air causes increased fire hazards. The oxygen enriched air is available at ambient pressure and pressure build-up of enriched oxygen at the outlet must be prevented, otherwise a serious (reversible) decrease in performance will result. The nitrogen enriched air produced should be treated as pressurised air.

804 x 80 x 63 mm

.381





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mi	nimum nitro	ogen flow r	ate in m ³ /hr	. 2	Durity 0/	Feed-air cor	Feed-air consumption at minimum nitrogen flow rat			te in m³/hr ²
Purity %	99	98	97	96	95	Purity %	99	98	97	96	95
4 bar g	1.77	2.48	3.19	4.14	5.09	4 bar g	13.8	12.6	12.5	13.6	14.8
5 bar g	1.91	3.25	4.58	5.79	7.00	5 bar g	13.6	15.3	17.0	18.1	19.4
6 bar g	2.21	3.99	5.76	7.30	8.84	6 bar g	15.0	18.3	20.8	22.2	23.7
7 bar g	2.53	4.57	6.61	8.71	10.8	7 bar g	16.9	20.8	23.7	26.3	28.8
8 bar g	2.99	5.27	7.56	10.1	12.6	8 bar g	20.0	24.0	27.1	30.5	33.6
9 bar g	3.29	6.11	8.93	11.8	14.8	9 bar g	22.0	27.8	32.0	35.8	39.3
10 bar g	3.69	6.84	9.99	13.2	16.4	10 bar g	25.2	31.3	35.8	40.0	43.9
11 bar g	4.07	7.70	11.3	14.9	18.4	11 bar g	28.3	35.4	40.7	45.1	49.2
12 bar g	4.46	8.43	12.4	16.3	20.2	12 bar g	31.7	39.4	45.1	50.0	54.7
13 bar g	4.72	9.16	13.6	17.8	22.1	13 bar g	34.2	43.4	50.0	55.3	60.3

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

2. m3/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059

* Revision number may vary, make sure to use the most recent Revision

Material

Housing	Aluminum
Coating	None

Services on Request

3D model CAD STEP file	
Test report	

Weight, Dimensions and Connections

Dimensions H x Ø D	782 x 114 mm
Weight	5.5 kg
Connection feed-air	G¾ female to ISO 228
Connection nitrogen enriched air	G¾ female to ISO 228
Connection oxygen enriched air at atmospheric pressure	G1 female to ISO 228
Dimensional drawing	Refer to K3.1.383

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Mir	nimum nitro	ogen flow r	ate in m ³ /h	r ²	Durity 0/	Feed-air co	nsumption at	minimum nit	rogen flow ra	te in m³/hr ²
Purity %	99	98	97	96	95	Purity %	99	98	97	96	95
4 bar g	2.21	3.61	4.92	6.28	7.76	4 bar g	14.4	16.3	17.7	19.5	21.0
5 bar g	2.76	4.52	6.15	7.85	9.70	5 bar g	17.9	20.3	22.1	24.3	26.2
6 bar g	3.39	5.92	8.02	10.2	12.8	6 bar g	22.4	25.4	28.1	30.7	33.3
7 bar g	3.96	6.90	9.35	12.0	14.9	7 bar g	26 .1	29.7	32.7	35.9	38.8
8 bar g	4.52	7.89	10.7	13.7	17.1	8 bar g	29.9	33.9	37.4	41.0	44.4
9 bar g	5.39	9.01	12.3	15.7	19.2	9 bar g	35.1	39.6	43.0	47.0	51.9
10 bar g	5.66	9.86	13.4	17.1	21.3	10 bar g	36.8	43.4	46.8	51.2	57.6
11 bar g	6.24	10.8	14.8	18.9	23.6	11 bar g	43.7	49.7	54.7	58.7	63.6
12 bar g	6.83	11.7	16.2	20.8	25.8	12 bar g	47.8	54.0	60.0	64.5	69.6

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g ³
Min. / Max. operating temperature	+2°C / +50°C ³
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

^{3.} combination of high operating pressure and high operating temperature can reduce the life time expectancy of the membrane module

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	15 bar g
Design temperature	50°C

membrane operating limits are lower

Material

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	736 x 139 mm
Weight	8.1 kg
Connection inlet / outlet	G1 female
Vent	G1 female
Dimensional drawing	Refer to K3.1.347

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	, in the second s	Minimum	nitrogen	flow rate	in m³/hr ²		Durity 0/	Feed-air o	onsumptio	on at minim	um nitroge	n flow rate	in m³/hr ²
	99.5	99	98	97	96	95	Purity %	99.5	99	98	97	96	95
4 bar g	1.06	1.45	2.29	3.17	4.05	5.02	4 bar g	8.98	9.15	9.84	11.1	12.1	13.0
5 bar g	1.56	2.15	3.38	4.68	5.98	7.41	5 bar g	13.3	13.5	14.5	16.4	17.9	19.3
6 bar g	2.04	2.81	4.42	6.12	7.82	9.69	6 bar g	17.3	17.7	19.0	21.4	23.5	25.2
7 bar g	2.40	3.30	5.20	7.20	9.20	11.4	7 bar g	20.4	20.8	22.4	25.2	27.6	29.6
8 bar g	2.88	3.96	6.24	8.64	11.0	13.7	8 bar g	24.5	24.9	26.8	30.2	33.1	35.6
9 bar g	3.36	4.62	7.28	10.1	12.9	16.0	9 bar g	28.6	29.1	31.3	35.3	38.6	41.5
10 bar g	3.84	5.28	8.32	11.5	14.7	18.2	10 bar g	32.6	33.3	35.8	40.3	44.2	47.4
11 bar g	4.32	5.94	9.36	13.0	16.6	20.5	11 bar g	36.7	37.4	40.2	45.4	49.7	53.4
12 bar g	4.80	6.60	10.4	14.4	18.4	22.8	12 bar g	40.8	41.6	44.7	50.4	55.2	59.3
13 bar g	5.04	6.93	10.9	15.1	19.3	23.9	13 bar g	42.8	43.7	47.0	52.9	58.0	62.2

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

 $^{\rm 2.}$ m³/hr refers to conditions at 1013mbar(a) and 20 $^{\circ}\text{C}$

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	15 bar g
Design temperature	65°C

membrane operating limits are lower

Material

Housing	Aluminum

Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) 3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	1655 x 100 mm
Weight	5.7 kg
Connection inlet / outlet	G¾ female
Vent	G1 female
Dimensional drawing	Refer to K3.1.334

Note

HiFluxx DT1506-8





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Minimum nitrogen flow rate in m ³ /hr ²						Durity 0/	Feed-air consumption at minimum nitrogen flow rate in m³/hr²						
Purity %	99.5 99 98 97 96 95		Purity %	99.5	99	98	97	96	95					
4 bar g	2.31	3.63	6.25	8.58	10.9	13.2		4 bar g	19.6	22.9	26.9	30.0	32.6	34.3
5 bar g	3.41	5.36	9.23	12.7	16.1	19.5		5 bar g	29.0	33.8	39.7	44.4	48.2	50.7
6 bar g	4.46	7.01	12.1	16.6	21.0	25.5		6 bar g	37.9	44.2	51.9	58.0	63.0	66.3
7 bar g	5.25	8.25	14.2	19.5	24.7	30.0		7 bar g	44.6	52.0	61.1	68.3	74.1	78.0
8 bar g	6.30	9.90	17.0	23.4	29.6	36.0		8 bar g	53.6	62.4	73.3	81.9	88.9	93.6
9 bar g	7.35	11.6	19.9	27.3	34.6	42.0		9 bar g	62.5	72.8	85.5	95.6	104	109
10 bar g	8.40	13.2	22.7	31.2	39.5	48.0		10 bar g	71.4	83.2	97.7	109	119	125
11 bar g	9.45	14.9	25.6	35.1	44.5	54.0		11 bar g	80.3	93.6	110	123	133	140
12 bar g	10.5	16.5	28.4	39.0	49.4	60.0		12 bar g	89.3	104	122	137	148	156
13 bar g	11.0	17.3	29.8	41.0	51.9	63.0		13 bar g	93.7	109	128	143	156	164

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

 $^{\rm 2.}$ m³/hr refers to conditions at 1013mbar(a) and 20 $^{\circ}\text{C}$

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	13 bar g
Design temperature	50°C

membrane operating limits are lower

Material

Housing	Aluminum

Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) 3D model CAD STEP file

Weight, Dimensions and Connections

Model	4 - 8 bar g	9 - 13 bar g
Dimensions H x W x D (mm)	1705 x 296 x 208	1732 x 296 x 208
Weight	15 kg	15 kg
Connection inlet / outlet	G¾ female	G¾ female
Vent	G1 female	2 x G1 female
Dimensional drawing	Refer to K3.1.356	Refer to K3.1.357

Note





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity % ¹	Minimum nitrogen flow rate in m ³ /hr ²						Purity %	Feed-air consumption at minimum nitrogen flow rate in m ³ /hr ²					
	99.5	99	98	97	96	95		99.5	99	98	97	96	95
4 bar g	2.07	2.95	4.84	6.60	8.8	11.0	4 bar g	17.6	18.6	20.8	23.1	26.4	28.6
5 bar g	3.06	4.36	7.15	9.75	13.0	16.3	5 bar g	26.0	27.4	30.7	34.1	39.0	42.3
6 bar g	4.00	5.70	9.35	12.8	17.0	21.3	6 bar g	34.0	35.9	40.2	44.6	51.0	55.3
7 bar g	4.70	6.70	11.0	15.0	20.0	25.0	7 bar g	40.0	42.2	47.3	52.5	60.0	65.0
8 bar g	5.17	7.37	12.1	16.5	22.0	27.5	8 bar g	43.9	46.4	52.0	57.8	66.0	71.5
9 bar g	6.11	8.71	14.3	19.5	26.0	32.5	9 bar g	51.9	54.9	61.5	68.3	78.0	84.5
10 bar g	6.58	9.38	15.4	21.0	28.0	35.0	10 bar g	55.9	59.1	66.2	73.5	84.0	91.0
11 bar g	7.52	10.7	17.6	24.0	32.0	40.0	11 bar g	63.9	67.5	75.7	84.0	96.0	104
12 bar g	7.99	11.4	18.7	25.5	34.0	42.5	12 bar g	67.9	71.8	80.4	89.3	102.0	111
13 bar g	8.46	12.1	19.8	27.0	36.0	45.0	13 bar g	71.9	76.0	85.1	94.5	108.0	117

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

 $^{2\cdot}$ m³/hr refers to conditions at 1013mbar(a) and 20 $^{\circ}\text{C}$

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	15 bar g
Design temperature	65°C
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membrane operating limits are lower

Material

Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) 3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	1655 x 114 mm
Weight	6.8 kg
Connection inlet / outlet	G¾ female
Vent	G1 female
Dimensional drawing	Refer to K3.1.330

Note

HiFluxx DT1508





Performance data

Nitrogen		Minin	num nitro in m³/hr	gen ¹ flov ² (CFM) ²	v rate		Nitrogen		Feed-ai	r consur ra	nption at te in m³/l	minimu nr ² (CFN	m nitrog I) ²	en flow
Fully /0	99.5	99	98	97	96	95		Fully /0	99.5	99	98	97	96	95
4 bar g	3.08	4.84	8.36	11.4	14.5	17.6		4 bar g	26.2	30.5	35.9	40.0	43.6	45.8
(58 psi g)	(1.81)	(2.85)	(4.92)	(6.71)	(8.53)	(10.4)		(58 psi g)	(15.4)	(18)	(21.1)	(23.5)	(25.7)	(27)
5 bar g	4.55	7.15	12.4	16.9	21.5	26.0		5 bar g	38.7	45.0	53.1	59.2	64.4	67.6
(72.5 psi g)	(2.68)	(4.21)	(7.3)	(9.95)	(12.7)	(15.3)		(72.5 psi g)	(22.8)	(26.5)	(31.3)	(34.8)	(37.9)	(39.8)
6 bar g	5.95	9.35	16.2	22.1	28.1	34.0		6 bar g	50.6	58.9	69.4	77.4	84.2	88.4
(87 psi g)	(3.5)	(5.5)	(9.53)	(13)	(16.5)	(20)		(87 psi g)	(29.8)	(34.7)	(40.8)	(45.6)	(49.6)	(52)
7 bar g	7.00	11.0	19.0	26.0	33.0	40.0		7 bar g	59.5	69.3	81.7	91.0	99.0	104
(101.5 psi g)	(4.12)	(6.47)	(11.2)	(15.3)	(19.4)	(23.5)		(101.5 psi g)	(35)	(40.8)	(48.1)	(53.6)	(58.3)	(61.2)
8 bar g	8.40	13.2	22.8	31.2	39.6	48.0		8 bar g	71.4	83.2	98.0	109	119	125
(116 psi g)	(4.94)	(7.77)	(13.4)	(18.4)	(23.3)	(28.3)		(116 psi g)	(42)	(49)	(57.7)	(64.2)	(70)	(73.6)
9 bar g	9.80	15.4	26.6	36.4	46.2	56.0		9 bar g	83.3	97.0	114	127	139	146
(130.5 psi g)	(5.77)	(9.06)	(15.7)	(21.4)	(27.2)	(33)		(130.5 psi g)	(49)	(57.1)	(67.1)	(74.7)	(81.8)	(85.9)
10 bar g	11.2	17.6	30.4	41.6	52.8	64.0		10 bar g	95.2	111	131	146	158	166
(145 psi g)	(6.59)	(10.4)	(17.9)	(24.5)	(31.1)	(37.7)		(145 psi g)	(56)	(65.3)	(77.1)	(85.9)	(93)	(97.7)
11 bar g	12.6	19.8	34.2	46.8	59.4	72.0		11 bar g	107	125	147	164	178	187
(159.5 psi g)	(7.42)	(11.7)	(20.1)	(27.5)	(35)	(42.4)		(159.5 psi g)	(63)	(73.6)	(86.5)	(96.5)	(105)	(110)
12 bar g (174 psi g)	14.0 (8.24)	22.0 (12.9)	38.0 (22.4)	52.0 (30.6)	66.0 (38.8)	80.0 (47.1)		12 bar g (174 psi g)	119 (70)	139 (81.8)	163 (95.9)	182 (107)	198 (117)	208 (122)
13 bar g	14.7	23.1	39.9	54.6	69.3	84.0		13 bar g	125	146	172	191	208	218
(188.5 psi g)	(8.65)	(13.6)	(23.5)	(32.1)	(40.8)	(49.4)		(188.5 psi g)	(73.6)	(85.9)	(101)	(112)	(122)	(128)

Maximum pressure drop <0.8 bar (12 psi) Maximum nitrogen flow rate = minimum flow rate + 10%.

Values between brackets are indicative imperial values

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100%. Air is composed of nitrogen (78.1%), oxygen (20.9%), Argon (0.9%), CO2 (0.03%), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr (CFM) refers to conditions at 1013 mbar(a) (14.7 psi a) and 20°C (68°F).

Ambient Conditions

Ambient temperature	+2°C to +50°C (+36°F to +122°F)
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g (189 psi g)
Min. / Max. operating temperature	+2°C to +50°C (+36°F to +122°F)
Maximum oil vapour content	<0.01 mg/m ³ (<0.01 ppm (w))
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed	Use bulletin \$3,1,059
temperatures other than 20°C (68°F)	
Feed-air consumption at feed-air	Lice bulletin S2 1 050
temperatures other than 20°C (68°F)	Ose bulletin 33.1.039

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	13 bar g (189 psi g)
Design temperature	50°C (122°F)

Material

Housing	Aluminum
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Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) **3D model CAD STEP file**

Weight, Dimensions and Connections

Model	4 - 8 bar g (58 - 116 psi g)	9 - 13 bar g (117 - 190 psi g)
Dimensions H x W x D	1705 x 296 x 201 mm (67.1" x 11.7" x 7.9")	1705 x 296 x 145 mm (67.1" x 11.7" x 5.7")
Weight	16 kg (35.3 lb)	16 kg (35.3 lb)
Connection inlet / outlet	G¾ female to ISO 228	G¾ female to ISO 228
Vent	G1 female to ISO 228	2 x G1 female to ISO 228
Dimensional drawing	Refer to K3.1.335	Refer to K3.1.336

Note

HiFluxx DT1508SS





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	P	/linimum i	nitrogen f	low rate	in m³/hr ²		Durity %	Feed-air consumption at minimum nitrogen flow rate in m³/hr²					
Purity %	99.5	99	98	97	96	95	Purity %	99.5	99	98	97	96	95
4 bar g	3.08	4.84	8.36	11.4	14.5	17.6	4 bar g	26.2	30.5	35.9	40.0	43.6	45.8
5 bar g	4.55	7.15	12.4	16.9	21.5	26.0	5 bar g	38.7	45.0	53.1	59.2	64.4	67.6
6 bar g	5.95	9.35	16.2	22.1	28.1	34.0	6 bar g	50.6	58.9	69.4	77.4	84.2	88.4
7 bar g	7.00	11.0	19.0	26.0	33.0	40.0	7 bar g	59.5	69.3	81.7	91.0	99.0	104
8 bar g	8.40	13.2	22.8	31.2	39.6	48.0	8 bar g	71.4	83.2	98.0	109	119	125
9 bar g	9.80	15.4	26.6	36.4	46.2	56.0	9 bar g	83.3	97.0	114	127	139	146
10 bar g	11.2	17.6	30.4	41.6	52.8	64.0	10 bar g	95.2	111	131	146	158	166
11 bar g	12.6	19.8	34.2	46.8	59.4	72.0	11 bar g	107	125	147	164	178	187
12 bar g	14.0	22.0	38.0	52.0	66.0	80.0	12 bar g	119	139	163	182	198	208
13 bar g	14.7	23.1	39.9	54.6	69.3	84.0	13 bar g	125	146	172	191	208	218

Maximum pressure drop <0.8 bar.

Maximum nitrogen flow rate = minimum flow rate + 10%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

 $^{\rm 2.}$ m³/hr refers to conditions at 1013mbar(a) and 20 $^{\circ}\text{C}$

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	15 bar g
Design temperature	65°C

membrane operating limits are lower

Material

Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) 3D model CAD STEP file

Weight, Dimensions and Connections

Model	
Dimensions H x W x D (mm)	1734 x 296 x 145
Weight	39 kg
Connection inlet / outlet	G¾ female
Vent	2 x G1 female
Dimensional drawing	Refer to K3.1.362

Note

HiFluxx ST15020-1





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Durity 0/1	Ту	pical nitro	gen flow ra	te in m³/hr	2		Durity 0/	Feed-air consumption at typical nitrogen flow rate in m ³ /hr ²				
Purity %	99 98 97 96 95 Punty 7	Purity %	99	98	97	96	95					
4 bar g	24.0	39.0	53.0	71.0	89.0		4 bar g	161	175	191	220	239
5 bar g	35.0	58.0	78.0	105	131		5 bar g	238	259	283	324	353
6 bar g	46.0	75.0	103	137	171		6 bar g	289	324	359	411	445
7 bar g	54.0	89.0	121	161	201		7 bar g	340	381	423	483	523
8 bar g	59.0	97.0	133	177	221		8 bar g	374	419	465	531	576

Maximum pressure drop <0.3 bar.

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO₂ (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20 °C

Above tables reflect nominal flow rates. The nitrogen output of each individual module can vary +/- 15%. For selection purposes, calculation should be done based on nominal conditions without taking the variation into account. When ordering modules, it is necessary that the total modules needed for each individual project are clearly mentioned per order-line on the order-intake-form. Parker will assure that the total output flow rate (sum of the individual selected membranes flow rates) will be minimum the total nominal flow rate. The compressor selection can be done on the total calculated nominal flow rate without taking any variation into account.

Ambient Conditions

Ambient tempera ture	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	9.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Example:

Your project requires 1515 Nm³/hr nitrogen at 8 bar g inlet pressure, 95% purity and 20°C inlet temperature. You will need 7 modules. Parker will ensure a minimum total product flow of 1515 Nm³/hr. However, individual module performance can still vary +/-15%. The compressor should be selected on a total air consumption of 7 x 576 = 4032 Nm³/hr.

Mechanical Design Housing

Design pressure	14 bar g
Design temperature	65°C

membrane operating limits are lower

Material

Housing	Aluminum
Services on Pequest	

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	1740 x 280 mm
Weight	46 kg
Connection inlet / outlet	G2½ female
Vent	100 mm OD
Dimensional drawing	K3.1.339*

Note

HiFluxx ST1508SS





Performance data

Performance data is based on 20°C feed-air temperature and 1013 mbar ambient pressure

Purity % ¹	Minimum nitrogen flow rate in m ³ /hr ²				Durity %	Feed-air consumption at minimum nitrogen flow rate in m ³ /hr ²								
	99.5	99	98	97	96	95		Fully 70	99.5	99	98	97	96	95
4 bar g	2.07	2.95	4.84	6.60	8.8	11.0		4 bar g	17.6	18.6	20.8	23.1	26.4	28.6
5 bar g	3.06	4.36	7.15	9.75	13.0	16.3		5 bar g	26.0	27.4	30.7	34.1	39.0	42.3
6 bar g	4.00	5.70	9.35	12.8	17.0	21.3		6 bar g	34.0	35.9	40.2	44.6	51.0	55.3
7 bar g	4.70	6.70	11.0	15.0	20.0	25.0		7 bar g	40.0	42.2	47.3	52.5	60.0	65.0
8 bar g	5.17	7.37	12.1	16.5	22.0	27.5		8 bar g	43.9	46.4	52.0	57.8	66.0	71.5
9 bar g	6.11	8.71	14.3	19.5	26.0	32.5		9 bar g	51.9	54.9	61.5	68.3	78.0	84.5
10 bar g	6.58	9.38	15.4	21.0	28.0	35.0		10 bar g	55.9	59.1	66.2	73.5	84.0	91.0
11 bar g	7.52	10.7	17.6	24.0	32.0	40.0		11 bar g	63.9	67.5	75.7	84.0	96.0	104
12 bar g	7.99	11.4	18.7	25.5	34.0	42.5		12 bar g	67.9	71.8	80.4	89.3	102.0	111
13 bar g	8.46	12.1	19.8	27.0	36.0	45.0		13 bar g	71.9	76.0	85.1	94.5	108.0	117

Maximum pressure drop <0.3 bar.

Maximum nitrogen flow rate = minimum flow rate + 30%

^{1.} Parker membranes separate oxygen from pressurised air. The composition of the product is determined by measuring the residual oxygen content. The nitrogen content is calculated by subtracting the residual oxygen content from 100 %. Air is composed of nitrogen (78.1%), oxygen (20.9 %), Argon (0.9 %), CO2 (0.03 %), and some trace inert gases. Therefore it should be born in mind that the value that is normally called the nitrogen content actually is the inert gas content.

^{2.} m³/hr refers to conditions at 1013mbar(a) and 20°C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.059*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.059*

* Revision number may vary, make sure to use the most recent Revision

Mechanical Design Housing

Design pressure	15 bar g
Design temperature	65°C
membrane operating limits are lower	

membrane operating limits are lower

Material

Housing	Stainless Steel
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Services on Request

Material certificates EN10204-3.1 on housing material (for Stainless Steel only) 3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x Ø D	1654 x 114 mm
Weight	18 kg
Connection inlet / outlet	G¾ female
Vent	G1 female
Dimensional drawing	Refer to K3.1.358

Note

Correction Factors HiFluxx

Temperature has influence on the performance of the Parker membranes. As the temperature changes so does the membrane performance. As a consequence the capacity and feed-air factor differ from the ones at nominal temperature (20°C).

Hereafter are the tables with correction factors for temperatures differing from 20° C for the HiFluxx membrane modules.

Table 1

Tomporatura	Nitrogen flow rate correction factor for HiFluxx at various product concentrations ¹⁾								
remperature	99.5	99	98	97	96	95			
5°C	0.9	0.9	0.9	0.9	0.9	0.9			
10°C	0.9	0.9	0.9	0.9	0.9	0.9			
30°C	1.0	1.0	1.0	1.0	1.0	1.0			
40°C	0.6	0.8	1.0	1.0	1.1	1.1			
50°C	0.6	0.8	1.0	1.1	1.1	1.2			

Table 2

Tommoreture	Feed-Air consumption correction factor for HiFluxx at various product concentrations ¹⁾								
remperature	99.5	99	98	97	96	95			
5°C	0.8	0.8	0.8	0.8	0.8	0.8			
10°C	0.9	0.9	0.9	0.9	0.9	0.9			
30°C	1.1	1.1	1.1	1.1	1.1	1.1			
40°C	1.2	1.2	1.2	1.2	1.2	1.2			
50°C	1.3	1.3	1.3	1.3	1.3	1.3			

 $^{\mbox{\tiny 1)}}$ These numbers are indicative and may vary by +/- 0.1

Example

Sizing conditions	
Inlet pressure	7 bar _g
Nitrogen purity	97%
Feed-air temperature	50°C
N2 correction factor	1.1 (table 1)
Feed-air correction factor	1.3 (table 2)
Module	HiFluxx ST1508
N2 flow rate HiFluxx ST1508	15 m³/hr (at 20°C)
Feed-air consumption HiFluxx ST1508	52.5 m³/hr (at 20°C)

Corrected Nitrogen Flow Calculation at 50°C and 97% Corrected nitrogen flow: 15 m³/hr x 1.1 = $16.5 \text{ m}^3/\text{hr}$

Corrected Feed-Air Calculation at 50°C and 97%

Corrected feed-air flow: 52.5 m³/hr x 1.3 = 68.3 m³/hr