

THERMAFIN SUPERGAP™

AMBIENT VAPORIZERS

PERFORMANCE

The Supergap™ line of natural draft Ambient Vaporizers have been designed to offer units meeting the most demanding set of specifications for industrial gas uses. From high pressure applications to high flow, modules are available in a wide range of capacities in all-aluminium, stainless steel lined (high pressure) or monel lined (oxygen high pressure service) models.

Supergap modules are fully engineered and tested to withstand the demanding thermal cycling and ice loads generated in long term use.

SPECIFICATIONS

Supergap modules meets the most demanding set of specifications established by industrial gas industry:

- all models PED certified and CE marked
- severe thermal cycling per ANSI 831.3
- wind load 160 km/hr per 1997 UBC seismic requirements per UBC Zone 4
- uneven frost build-up loads
- crateless design



TYPE	PRESSURE RATING	
SGxxHF	all-aluminium, general service	40 barg
SGxxSS 4.0	stainless steel lined	275 barg
SGxxSS 6.0	stainless steel lined, high pressure	414 barg
SGxxM 4.0	monel lined, oxygen HP service	275 barg



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Dimensions & Nominal Parameters

Model	Connection kg/hr size	Std. Conn. type (AI)	External surface (m)	Weight [kg]	Length (mm)	Width (mm)	Height (mm)	LIN	Nominal Capacity in Nm/hr			Nominal Capacity in CO ₂
									LOX	LAR	LNG	
SG25HF	DN25	BSPRcl•	18	70	570	570	3.860	70	60	80	60	50
SG35HF	DN25	BSPRcl•	27	98	830	570	3.860	100	90	110	80	80
SG50HF	DN25	BSPRcl•	36	125	1.130	570	3.860	140	130	160	110	110
SG70HF	DN25	BSPRcl•	54	184	1.210	900	3.860	210	190	240	170	160
SG95HF	DN25	BSPRcl•	72	234	1.210	1.210	3.860	273	250	310	220	200
SG110HF	DN25	BSPRcl•	81	263	1.210	900	5.410	310	290	350	250	230
SG140HF	DN25	BSPRcl•	108	345	1.210	1.210	5.410	410	380	470	330	310
SG180HF	DN25	BSPRcl•	135	424	1.210	1.510	5.410	500	460	570	400	380
SG216HF	DN50	DIN2635	162	526	1.840	1.440	5.690	610	560	700	490	460
SG270HF	DN50	DIN2635	202	646	1.840	1.740	5.690	770	710	880	620	580
SG320HF	DN50	DIN2635	243	767	1.840	2.050	5.700	900	830	1030	720	680
SG360HF	DN50	DIN2635	270	857	1.890	1.740	7.200	1.000	920	1.140	800	750
SG430HF	DN50	DIN2635	324	1.018	1.890	2.050	7.200	1.200	1.100	1.370	960	900
SG500HF	DN50	DIN2635	378	1.175	1.890	2.350	7.200	1.400	1.290	1.600	1.120	1.050
SG580HF	DN50	DIN2635	431	1.338	1.890	2.580	7.200	1.600	1.470	1.820	1.280	1.200
SG670HF	DN50	DIN2635	503	1.547	2.500	2.280	7.200	1.900	1.750	2.170	1.520	1.430
SG770HF	DN50	DIN2635	575	1.758	2.500	2.580	7.200	2.200	2.020	2.510	1.760	1.650
SG860HF	DN50	DIN2635	647	1.969	2.500	2.890	7.200	2.500	2.300	2.850	2.000	1.880
SG1150HF	DN100	DIN2635	863	2.792	2.550	2.580	10.520	3.300	3.040	3.760	2.640	2.480
SG1300HF	DN100	DIN2635	971	3.116	2.550	2.880	10.520	3.700	3.400	4.220	2.960	2.780
SG1500HF	DN100	DIN2635	1.150	3.672	2.550	2.590	13.570	4.400	4.050	5.020	3.520	3.300
SG1700HF	DN100	DIN2635	1.294	4.114	2.550	2.890	13.570	4.900	4.510	5.590	3.920	3.680

Note:

- Standard connections given in the table. Alternatives to BSPRc: M 40 x2 and DIN or ANSI flanges Alternati ve to DIN flange: ANSI Cl.300 flange.
- Nominal capacities at 20°C , 75% RH, 15 bar pressure, 10°C temperature approach, and 8 hours service.
- For HP (lined) vaporizers multiply nominal capacity by 80 %.

