

# THERMAFIN SUPERGAP™

## ▪ Supergap™ Performance

Supergap™ ambient vaporizers are state-of-art heat exchangers for industrial gases. Supergap™ modules are available in the wide range of capacities in all-aluminium, stainless steel lined (high pressure) or monel lined (oxygen high pressure service) models.



**Ambient Vaporizers**  
THERMAX INC.

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

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

## ▪ Supergap™ 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 B31.3
- wind load 160 km/hr per 1997 UBC seismic requirements per UBC Zone 4
- uneven frost build-up loads
- crateless design



# THERMAFIN SUPERGAP™

## Dimensions & Nominal Parameters

Model	Connection size	Std. connection type (Al)	External surface [m <sup>2</sup> ]	Weight [kg]	Length [mm]	Width [mm]	Height [mm]	Nominal capacity in Nm <sup>3</sup> /hr				Nominal capacity in kg/hr CO <sub>2</sub>
								LIN	LOX	LAR	LNG	
SG25HF	DN25	BSPRc1"	18	70	570	570	3.860	63	59	74	51	47
SG35HF	DN25	BSPRc1"	27	98	830	570	3.860	94	89	118	77	70
SG50HF	DN25	BSPRc1"	36	125	1.130	570	3.860	125	118	156	101	94
SG70HF	DN25	BSPRc1"	54	184	1.210	900	3.860	188	177	235	152	141
SG95HF	DN25	BSPRc1"	72	234	1.210	1.210	3.860	250	236	313	203	187
SG110HF	DN25	BSPRc1"	81	263	1.210	900	5.410	281	265	351	228	211
SG140HF	DN25	BSPRc1"	108	345	1.210	1.210	5.410	374	353	468	304	280
SG180HF	DN25	BSPRc1"	135	424	1.210	1.510	5.410	466	440	583	378	350
SG216HF	DN50	DIN 2635	162	526	1.840	1.440	5.690	559	527	659	453	419
SG270HF	DN50	DIN 2635	202	646	1.840	1.740	5.690	695	656	869	564	521
SG320HF	DN50	DIN 2635	243	767	1.840	2.050	5.700	834	787	1043	677	626
SG360HF	DN50	DIN 2635	270	857	1.890	1.740	7.200	925	873	1156	751	694
SG430HF	DN50	DIN 2635	324	1.018	1.890	2.050	7.200	1105	1042	1381	896	830
SG500HF	DN50	DIN 2635	378	1.175	1.890	2.350	7.200	1285	1212	1606	1042	965
SG580HF	DN50	DIN 2635	431	1.338	1.890	2.580	7.200	1464	1381	1830	1188	1097
SG670HF	DN50	DIN 2635	503	1.547	2.500	2.280	7.200	1701	1605	2126	1380	1275
SG770HF	DN50	DIN 2635	575	1.758	2.500	2.580	7.200	1936	1826	2420	1570	1451
SG860HF	DN50	DIN 2635	647	1.969	2.500	2.890	7.200	2169	2046	2711	1760	1626
SG1150HF	DN100	DIN 2635	863	2.792	2.550	2.580	10.520	2856	2695	3369	2318	2140
SG1300HF	DN100	DIN 2635	971	3.116	2.550	2.880	10.520	3190	3009	3988	2588	2392
SG1500HF	DN100	DIN 2635	1.150	3.672	2.550	2.590	13.570	3742	3530	4678	3036	2802
SG1700HF	DN100	DIN 2635	1.294	4.114	2.550	2.890	13.570	4174	3938	5218	3387	3125

### Notes:

- Standard connections given in the table.  
Alternatives to BSPRc: M40x2 and DIN or ANSI flanges  
Alternative 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%.



Innovation. Experience. Performance.

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