

# 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.

| 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



## Ambient Vaporizers



Innovation. Experience. Performance. .

## Chart Industries Group D&S

Chart Ferox, a.s. • Ústecká 30 • CZ-405 30 • Děčín 5  
Tel.: +420-412-507 343 • Fax: +420-412-507 297

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[ferox-sales@chart-ind.com](mailto:ferox-sales@chart-ind.com)

[www.chart-ferox.com](http://www.chart-ferox.com)



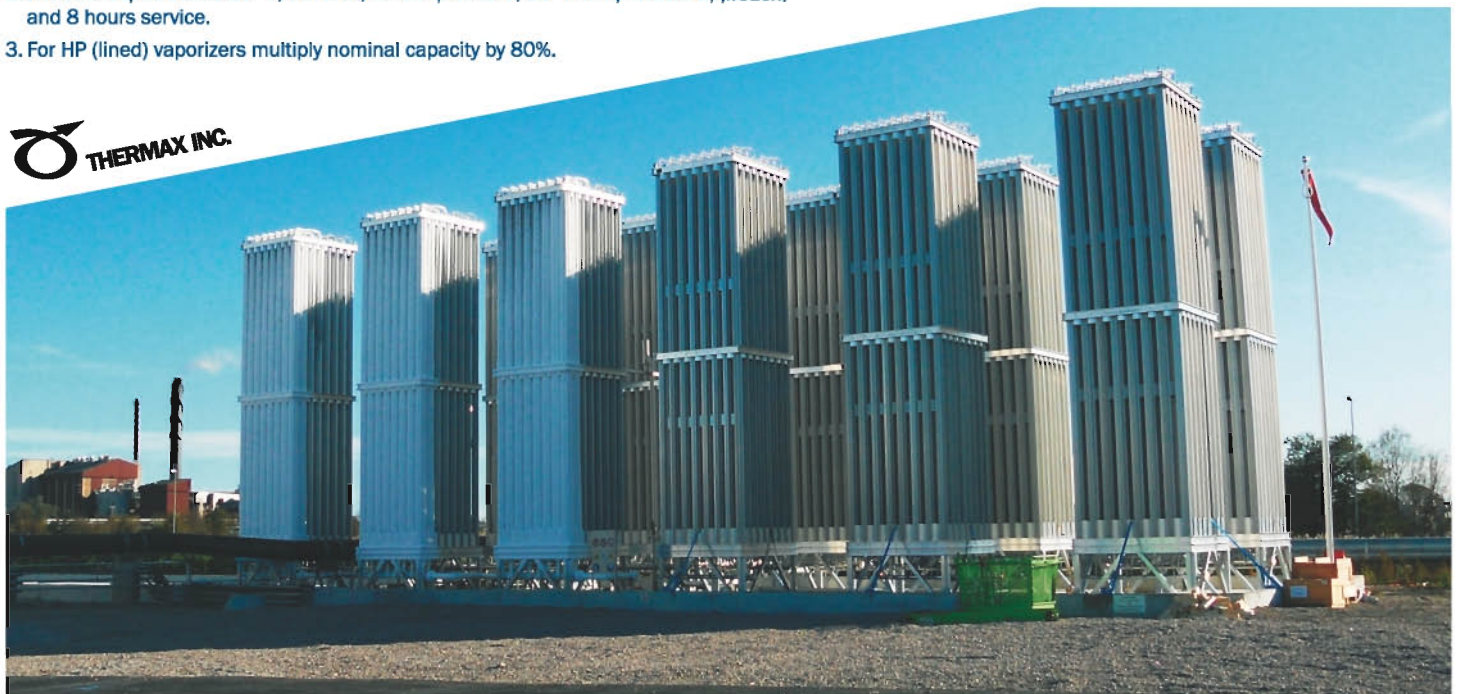
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## Dimensions & Nominal Parameters

| 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%.



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