

THERMAL VENT

OsecoElfab's thermal vent features a composite design that reduces heat loss when used in high-temperature applications



Applications that are maintained at higher temperatures need to retain heat energy while still ensuring safety. Our thermal explosion vent combines a solid thermal insulator of low-density silica within a stainless steel panel construction. The integral insulation prevents loss of heat efficiency while maintaining reliable explosion protection.

The thermal vent is suitable for temperatures up to 1,112°F (600°C), and is available in either a square, round or rectangular design with either a flat or domed construction.

Depending on the process temperature and conditions, it may be possible to add Vent-Tel, our ATEX-approved burst detection system for explosion panels.

Sizes

- Internal dimensions (mm): 180 x 140 – 1140 x 655
- External dimensions (mm): 260 x 220 – 1220 x 735

Set Pressure Range

- 0.1 barg @ 15/30°C

Performance Tolerance

- +/- 25%

**Let us help you with all
your pressure relief questions.**

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**REQUEST A QUOTE FOR
THE THERMAL VENT**



TECHNICAL SPECIFICATIONS



Size range*	Internal dimensions (mm): 180x140 – 1140x655 External dimensions (mm): 260x220 – 1220x735
Vent area*	Rectangle: 0.01m ² to 1.18m ² / 0.11 ft ² to 12.70 ft ² Round: 0.05 m ² to 1.13m ² / 0.53 ft ² to 12.16 ft ²
Burst pressure range*	0.05 barg to 0.49 barg / 0.7 psig to 7.1 psig
Standard burst pressure offering	0.1 barg @ 15/30°C
Temperature range*	-40°C to +600°C / -40°F to +1,112°F
Operating ratio	60%
Performance tolerance	+/-25%
Vacuum capability	Flat, any shape: Limited Domed, any shape: Full vacuum
Torque dependent	No
Vent-Tel Detection	Optional, dependent on temperature**
Accessories	Frame, Gasket
Shapes available*	Rectangle, Square, Round
Materials available	316 Stainless Steel as standard

* Other sizes, shapes, pressures and temperatures are available on request. Please contact us to discuss your requirements.

**For use with Vent-Tel, the cold face may not exceed 200°C / 392°F.

Certifications

ATEX

Related Products

Sensors

Vent-Tel

Accessories

Frames
Gaskets

Explosion Vents

MV Panel Range
EB Explosion Vents
Hygienic Vent
MV-BE
CRVC
CRP
GLVF

Thermal Vent

Dimensions



Please contact us to ask for the schematics of the size, shape and construction (flat/domed) you need.

INTERNAL DIMENSIONS (mm)	EXTERNAL DIMENSIONS (mm)	VENT AREA (m ²)
180 x 140	260 x 220	0.01
305 X 299	385 x 379	0.08
395 x 240	455 x 300	0.08
395 x 395	455 x 455	0.14
410 x 410	490 x 490	0.15
420 x 420	500 x 500	0.16
440 x 340	520 x 420	0.13
457 X 305	537 x 385	0.12
490 x 490	570 x 570	0.22
590 x 490	670 x 570	0.23
610 x 247	690 x 327	0.13
610 x 305	690 x 385	0.17
610 x 458	690 x 538	0.26
610 x 470	690 x 550	0.27
610 x 510	690 x 590	0.29
610 x 610	690 x 690	0.34
620 X 390	700 x 470	0.22
645 x 645	725 x 725	0.38
653 x 653	733 x 733	0.39
655 X 375	735 x 455	0.23
655 x 655	735 x 735	0.40
668 x 525	748 x 605	0.32
670 x 670	750 x 750	0.42
762 x 457	842 x 537	0.32
762 x 610	842 x 690	0.43
770 x 770	850 x 850	0.55
890 x 457	970 x 537	0.37
914 x 610	994 x 690	0.51
920 x 586	1000 x 666	0.49
920 x 920	1000 x 1000	0.79
1000 x 1000	1080 x 1080	0.93
1004 x 629	1084 x 709	0.59
1020 x 1020	1100 x 600	0.97
1020 x 520	1100 x 600	0.49
1118 x 610	1198 x 690	0.64
1118 x 915	1198 x 995	0.95
1130 x 1130	1210 x 1210	1.18
1140 x 655	1220 x 735	0.68