



# HIBAR

SYSTEMS LIMITED

## CONVERSION TABLE

|                              | Atmos                      | Bars                      | Dynes/cm <sup>2</sup>      | In of Hg (0°C)             | In of H <sub>2</sub> O (4°C) | K grams/meter <sup>2</sup> |
|------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|------------------------------|----------------------------|
| Atmos                        | 1                          | 9.86923x 10 <sup>-1</sup> | 9.86923 x 10 <sup>-7</sup> | 3.34207 x 10 <sup>-2</sup> | 2.458 x 10 <sup>-3</sup>     | 9.678 x 10 <sup>-5</sup>   |
| Bars                         | 1.01325                    | 1                         | 1 x 10 <sup>-6</sup>       | 3.3864 x 10 <sup>-2</sup>  | 2.491 x 10 <sup>-3</sup>     | 9.8067 x 10 <sup>-5</sup>  |
| Dynes/cm <sup>2</sup>        | 1.01325 x 10 <sup>6</sup>  | 106                       | 1                          | 3.386 x 10 <sup>4</sup>    | 2.491 x 10 <sup>3</sup>      | 98.067                     |
| In of Hg (0°C)               | 29.9213                    | 29.53                     | 2.953 x 10 <sup>-5</sup>   | 1                          | 7.355 x 10 <sup>-2</sup>     | 2.896 x 10 <sup>-3</sup>   |
| In of H <sub>2</sub> O (4°C) | 406.8                      | 401.48                    | 4.0148 x 10 <sup>-4</sup>  | 13.6                       | 1                            | 3.937 x 10 <sup>-2</sup>   |
| K grams/meter <sup>2</sup>   | 1.033227 x 10 <sup>4</sup> | 1.0197 x 10 <sup>4</sup>  | 1.0197 x 10 <sup>-2</sup>  | 345.3                      | 25.4                         | 1                          |
| Lb/In <sup>2</sup> psi       | 14.695595                  | 14.504                    | 1.4504 x 10 <sup>-5</sup>  | 0.4912                     | 3.6126 x 10 <sup>-2</sup>    | 1.423 x 10 <sup>-3</sup>   |
| Lb/ft <sup>2</sup>           | 2116.22                    | 2088.5                    | 2.0885 x 10 <sup>-3</sup>  | 70.726                     | 5.202                        | 0.2048                     |
| mm of Hg torr                | 760                        | 750.06                    | 7.5006 x 10 <sup>-4</sup>  | 25.4                       | 1.868                        | 7.3558 x 10 <sup>-2</sup>  |
| Microns                      | 760 x 10 <sup>3</sup>      | 750.06 x 10 <sup>3</sup>  | 0.75006                    | 2.54 x 10 <sup>4</sup>     | 1.868 x 10 <sup>3</sup>      | 73.558                     |
| Pascals                      | 1.01325 x 10 <sup>5</sup>  | 1 x 10 <sup>5</sup>       | 1-Oct                      | 3.386 x 10 <sup>3</sup>    | 2.491 x 10 <sup>2</sup>      | 9.8067                     |

|                              | Lb/In <sup>2</sup> psi    | Lb/ft <sup>2</sup>        | mm of Hg torr            | Microns                   | Pascals                  |
|------------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| Atmos                        | 0.068046                  | 4.7254 x 10 <sup>-4</sup> | 1.316 x 10 <sup>-3</sup> | 1.316 x 10 <sup>-6</sup>  | 9.869 x 10 <sup>-6</sup> |
| Bars                         | 6.8948 x 10 <sup>-2</sup> | 4.788 x 10 <sup>-4</sup>  | 1.333 x 10 <sup>-3</sup> | 1.333 x 10 <sup>-6</sup>  | 5-Oct                    |
| Dynes/cm <sup>2</sup>        | 6.8948 x 10 <sup>4</sup>  | 478.8                     | 1.333 x 10 <sup>3</sup>  | 1.333                     | 10                       |
| In of Hg (0°C)               | 2.036                     | 0.014139                  | 3.937 x 10 <sup>-2</sup> | 3.937 x 10 <sup>-5</sup>  | 2.953 x 10 <sup>-4</sup> |
| In of H <sub>2</sub> O (4°C) | 27.68                     | 0.1922                    | 0.5354                   | 5.354 x 10 <sup>-4</sup>  | 4.014 x 10 <sup>-3</sup> |
| K grams/meter <sup>2</sup>   | 7.0306 x10 <sup>2</sup>   | 4.882                     | 13.59                    | 13.59 x 10 <sup>-3</sup>  | 1.019 x 10 <sup>-1</sup> |
| Lb/In <sup>2</sup> psi       | 1                         | 6.9444 x 10 <sup>-3</sup> | 1.934 x 10 <sup>-2</sup> | 1.934 x 10 <sup>-5</sup>  | 1.450 x 10 <sup>-4</sup> |
| Lb/ft <sup>2</sup>           | 144                       | 1                         | 2.7844                   | 2.7844 x 10 <sup>-3</sup> | 2.089 x 10 <sup>-2</sup> |
| mm of Hg torr                | 51.715                    | 0.35913                   | 1                        | 3-Oct                     | 7.502 x 10 <sup>-3</sup> |
| Microns                      | 51.715 x 10 <sup>3</sup>  | 359.1                     | 1 x 10 <sup>3</sup>      | 1                         | 7.502                    |
| Pascals                      | 6.8948 x 10 <sup>3</sup>  | 4.788 x 10 <sup>1</sup>   | 1.333 x 10 <sup>2</sup>  | 1.333 x 10 <sup>-1</sup>  | 1                        |

| English          | Metric                          | Celcius           | Fahrenheit     | To Convert to pascals         | Multiply by              | To PSI   | From PSI                              |
|------------------|---------------------------------|-------------------|----------------|-------------------------------|--------------------------|--|---------------------------------------|
| mm = 0.03937 in. | in. = 25.4 mm                   | °C = (F-32) / 1.8 | °F = 1.8C + 32 | atmosphere                    | 1.013 x 10 <sup>5</sup>  | psi = in. of H <sub>2</sub> O x (3.6127 x 10 <sup>-2</sup> ) | in. of H <sub>2</sub> O = psi x 27.68 |
| cm = 0.3937 in.  | in. = 2.54 cm                   |                   |                | bar                           | 1.000 x 10 <sup>5</sup>  | psi = in. of H <sub>g</sub> x (0.49118)                      | in. of H <sub>g</sub> = psi x 2.036   |
| m = 39.37 in.    | in. = 2.54 x 10 <sup>-2</sup> m |                   |                | dyne/centimeter <sup>2</sup>  | 1.000 x 10 <sup>-1</sup> | psi = mm of H <sub>2</sub> x (1.4223 x 10 <sup>-3</sup> )    | mm of H <sub>2</sub> O = psi x 703.1  |
|                  |                                 |                   |                | inch of mercury (0°C)         | 3.386 x 10 <sup>3</sup>  | psi = mm of Hg x (1.9339 x 10 <sup>-2</sup> )                | mm of Hg = psi x 51.71                |
|                  |                                 |                   |                | inch of water (4°C)           | 2.491 x 10 <sup>2</sup>  | psi = cm of H <sub>2</sub> O x (14.223 x 6 <sup>-3</sup> )   | cm of H <sub>2</sub> O = psi x 70.3   |
|                  |                                 |                   |                | kilogram/meter <sup>2</sup>   | 9.807                    | psi = kg/cm <sup>2</sup> x (14.223)                          | kg/cm <sup>2</sup> = psi x .0703      |
|                  |                                 |                   |                | pound/inch <sup>2</sup> (psi) | 6.894 x 10 <sup>3</sup>  | psi = bar x (14.503)   | bar = psi x .0689                     |
|                  |                                 |                   |                | pound/foot <sup>2</sup>       | 4.788 x 10 <sup>1</sup>  | psi = mbar x (1.4503 x 10 <sup>-2</sup> )                    | mbar = psi x 68.95                    |
|                  |                                 |                   |                | torr (mm of mercury 0°C)      | 1.333 x 10 <sup>2</sup>  | psi = Pa x (1.4503 x 10 <sup>-4</sup> )                      | Pa = psi x 6895                       |
|                  |                                 |                   |                |                               |                          | psi = kPa x (1.4503 x 10 <sup>-1</sup> )                     | kPa = psi x 6.895                     |