

CONVERSION TABLES

Temperature:

Conversion from Celcius temperatures [°C]	
Kelvin [K]	= [°C] + 273.15
Fahrenheit [°F]	= 9/5[°C] + 32
where (°C) is the actual temperature value	

Volume flow:

VOLUME FLOW	Cubic metres per sec. [m³/s]	Cubic metres per hour [m³/h]	Litres per sec. [l/s]	Cubic feet per sec. [ft³/s]	Cubic feet per minute [ft³/min]
1 m³/s	1	3600	1000	35.32	2119
1 m³/h	2.7778x10 ⁻⁴	1	0.2778	9.810x10 ⁻³	0.5886
1 l/s	0.001	3.6	1	0.03532	2.119
1 ft³/s	0.0283168	101.9	28.32	1	60
1 ft³/min	4.7195x10 ⁻⁴	1.699	0.4720	0.01667	1
1 m³/h = 10³ l/h = 16,67 l/min = 0.27878 l/s 1 l/s = 60 l/min = 3600 l/h					

Pressure volume:

PRESSURE VOLUME	Pascal (N/m²) [Pa]	Newton per square millimetres [N/mm²]	Bar [bar]	Kilo pond per square metre (mm H ₂ O) [kp/m²]	Meter water column [m H ₂ O]	Physical atmosphere [atm]	Pound force per square inch [psi]
1 Pa	1	10 ⁻⁶	10 ⁻⁵	0.1020	1.02x10 ⁻⁴	9.869x10 ⁻⁶	1.45x10 ⁻⁴
1 N/mm²	10 ⁶	1	10	1.020x10 ⁵	102.0	9.869	145.0
1 bar	10 ⁵	0,1	1	10197	10.20	0.9869	14.50
1 kp/m²	9.80665	9.807x10 ⁻⁶	9.807x10 ⁻⁵	1	10 ⁻³	9.678x10 ⁻⁵	1.42x10 ⁻³
1 m H ₂ O	9806.7	9.807x10 ⁻³	0.09807	1000	1	0.09678	1.422
1 atm	101.3x10 ³	0.1013	1.013	1.0333x10 ⁴	10,33	1	14.70
1 psi	6895	6.895x10 ⁻³	0.06895	703.1	0.7031	0.06804	1
1 torr = 1 mm Hg = 1.3158x10 ⁻³ atm (physical atmosphere) 1 at (technical atmosphere) = 0.968 atm = 10 ⁴ mm H ₂ O							

