

## 常用单位换算表

### 压力

	Pa	mbar	bar	Kgf/cm <sup>2</sup>	mm H <sub>2</sub> O	In. H <sub>2</sub> O	mm Hg	psi
Pa	1	0.01	10 <sup>-5</sup>	102 × 10 <sup>-7</sup>	0.102	0.00401	0.0075	145 × 10 <sup>-6</sup>
mbar	100	1	0.001	102 × 10 <sup>-5</sup>	10.2	0.401	0.75	0.0145
bar	100,000	1000	1	1.02	10,200	401.7673	750	14.5038
Kgf/cm <sup>2</sup>	98,100	981	0.981	1	10,000	394.2142	736	14.2333
mm H <sub>2</sub> O	9.81	0.098	98.1 × 10 <sup>-6</sup>	0.0001	1	0.03939	0.0736	0.001422
In. H <sub>2</sub> O	248.9655	2.49	0.00249	0.00253	25.3867	1	1.866597	0.0361
mm Hg	133.3	1.33	0.00133	0.001359	13.59	0.53573	1	0.01934
psi	6,895.06	68.95	0.06895	0.07031	703.01	27.71	51.717	1

### 能量

	J	KJ	kWh	kcal	Kgfm	Btu	PSh	hph
J	1	0.001	2.78 × 10 <sup>-7</sup>	0.000239	0.102	0.00095	3.77 × 10 <sup>-7</sup>	3.728 × 10 <sup>-7</sup>
KJ	1,000	1	0.000278	0.239	102	0.95	0.000377	0.000372
kWh	3.6 × 10 <sup>6</sup>	3,600	1	860	367,000	3,412.5	1.36	1.3414
kcal	4184	4.184	0.00116	1	427	3.968	0.00158	0.00148
Kgfm	9.81	0.00981	2.72 × 10 <sup>-6</sup>	0.00234	1	0.00929	3.7 × 10 <sup>-6</sup>	3.65 × 10 <sup>-6</sup>
Btu	1,052.6	1.0526	0.000293	0.252	107.64	1	0.000398	0.00039
PSh	2.65 × 10 <sup>6</sup>	2,650	0.736	623	270,000	2,508.36	1	0.986319
hph	2.688 × 10 <sup>6</sup>	2,688	0.7462	641	273,745	2,544	1.014339	1

### 功率

	W	kW	kcal/s	kcal/h	Kgfm/s	hp	Btu/min	Btu/hr
W	1	0.001	0.000239	0.86	0.102	0.00134	0.0568	3.41
kW	1,000	1	0.239	860	101.97	1.341	56.85	3,413
kcal/s	4,190	4.19	1	3,600	427	56.16	237.96	14,292
kcal/h	1.163	0.001163	0.000277	1	0.119	0.0156	0.0661	3.97
Kgfm/s	9.81	0.00981	0.00234	8,424	1	0.0131	0.5568	3.34
hp	746	0.746	0.178444	642.4	76	1	42.462	2,544
Btu/min	17.606	0.0176	0.004202	15.13	1.769	0.02355	1	60
Btu/hr	0.293	0.000293	0.00007	0.252	0.299	0.00039	0.016	1

### 流量

	m <sup>3</sup> /h	m <sup>3</sup> /min	L/h	L/s	SCFM	SCFH	SCIM	gpm(US)
m <sup>3</sup> /h	1	0.016	1,000	0.278	0.59	35.34	1,022.5	4.41
m <sup>3</sup> /min	60	1	60,000	16.67	35.4	2120	6.13 × 10 <sup>4</sup>	263.16
L/h	0.01	16 × 10 <sup>-6</sup>	1	2.7 × 10 <sup>-4</sup>	0.00059	0.035	1.02	0.0044
L/s	3.6	0.0576	3,600	1	2.124	127.2	3,681	15.876
SCFM	1.695	0.0282	1,695	0.470833	1	60	1,728	—
SCFH	0.0283	0.000472	28.3	0.007861	0.0167	1	28.8	—
SCIM	0.00098	16.3 × 10 <sup>-6</sup>	0.98	2.722 × 10 <sup>-4</sup>	0.00058	0.0347	1	—
gpm(US)	0.227	0.0038	227	0.063055	—	—	—	1

### 温度

$$T(^{\circ}\text{C}) = 5/9 (T(^{\circ}\text{F}) - 32)$$

$$T(^{\circ}\text{F}) = 9/5 \times T(^{\circ}\text{C}) + 32$$