TECHNICAL INFORMATION
DECIMAL & MILLIMETER EQUIVALENTS OF FRACTIONS AND VACUUM CONVERSION TABLE

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

1 inch = 25.4 millimeters

Fractional Inch				Decimal	
1/64	1/32	1/16	1/8	inch	mm
1				0.016	0.40
2	1			0.031	0.79
3				0.047	1.19
4	2	1		0.063	1.59
5				0.078	1.98
6	3			0.094	2.38
7				0.109	2.78
8	4	2	1	0.125	3.18
9				0.141	3.57
10	5			0.156	4.00
11				0.172	4.40
12	6	3		0.188	4.80
13				0.203	5.20
14	7			0.219	5.60
15				0.234	6.00
16	8	4	2	0.250	6.40
17				0.266	6.70
18	9			0.281	7.10
19				0.297	7.50
20	10	5		0.313	7.90
21				0.328	8.30
22	11			0.344	8.70
23				0.359	9.10
24	12	6	3	0.375	9.50
25				0.391	9.90
26	13			0.406	10.30
27				0.422	10.70
28	14	7		0.438	11.10
29				0.453	11.50
30	15			0.469	11.90
31				0.484	12.30
32	16	8	4	0.500	12.70

1 INCH = 25.4 MILLIMETERS

1 inch = 25.4 millimeters

Fractional Inch				Decimal	
1/64	1/32	1/16	1/8	inch	mm
33				0.516	13.10
34	17			0.531	13.50
35				0.547	13.90
36	18	9		0.563	14.30
37				0.578	14.70
38	19			0.594	15.10
39				0.609	15.50
40	20	10	5	0.625	15.90
41				0.641	16.30
42	21			0.656	16.70
43				0.672	17.10
44	22	11		0.688	17.50
45				0.703	17.90
46	23			0.719	18.30
47				0.734	18.70
48	24	12	6	0.750	19.10
49				0.766	19.50
50	25			0.781	19.80
51				0.797	20.30
52	26	13		0.813	20.60
53				0.828	21.00
54	27			0.844	21.40
55				0.859	21.80
56	28	14	7	0.875	22.20
57				0.891	22.60
58	29			0.906	23.00
59				0.922	23.40
60	30	15		0.938	23.80
61				0.953	24.20
62	31			0.969	24.60
63				0.984	25.00
64	32	16	8	1.000	25.40

Vacuum Conversion Table For Water (Suction)

ATM	PSI	Meter(s)	Feet	mm	In Hg	%
0.1	1.40	**1**	3 ft. 3-3/8 in.	73.60	2.90	10
0.2	2.80	**2**	6 ft. 6-3/4 in.	147.10	5.80	20
0.3	4.20	**3**	9 ft. 10-1/8 in.	220.70	8.70	30
0.4	5.70	**4**	13 ft. 1-1/2 in.	294.20	11.60	40
0.5	7.10	**5**	16 ft. 4-13/16 in.	367.80	14.50	50
0.6	8.50	**6**	19 ft. 8-3/16 in.	441.30	17.40	60
0.7	10.00	**7**	22 ft. 11-9/16 in.	514.90	20.30	70
0.8	11.40	**8**	26 ft. 2-15/16 in.	588.40	23.20	80
0.9	12.80	**9**	29 ft. 6-3/8 in.	662.00	26.00	90
1.0	14.20	**10**	32 ft. 9-11/16 in.	735.50	29.00	100

TECHNICAL INFORMATION
TEMPERATURE CONVERSION

Look up reading in middle column (shaded). If in degrees Centigrade, read Farenheit equivalent in right-hand column; if in Farenheit degrees, read Centigrade equivalent in left-hand column.

°F = (°C x 1.8) +32 **°C = (°F - 32) x .5556**

C	C F	F	C	C F	F	C	C F	F
-51	-60	-76	.6	33	91.4	22.2	72	161.6
-46	-50	-58	1.1	34	93.2	22.8	73	163.4
-40	-40	-40	1.7	35	95.0	23.3	74	165.2
-34	-30	-22	2.2	36	96.8	23.9	75	167.0
-29	-20	-4	2.8	37	98.6	24.4	76	168.8
-23	-10	14	3.3	38	100.4	25.0	77	170.6
-17.8	0	32	3.9	39	102.2	25.6	78	172.4
-17.2	1	33.8	4.4	40	104.0	26.1	79	174.2
-16.7	2	35.6	5.0	41	105.8	26.7	80	176.0
-16.1	3	37.4	5.6	42	107.6	27.2	81	177.8
-15.6	4	39.2	6.1	43	109.4	27.8	82	179.6
-15.0	5	41.0	6.7	44	111.2	28.3	83	181.4
-14.4	6	42.8	7.2	45	113.0	28.9	84	183.2
-13.9	7	44.6	7.8	46	114.8	29.4	85	185.0
-13.3	8	46.4	8.3	47	116.6	30.0	86	186.8
-12.8	9	48.2	8.9	48	118.4	30.6	87	188.6
-12.2	10	50.0	9.4	49	120.2	31.1	88	190.4
-11.7	11	51.8	10.0	50	122.0	31.7	89	192.2
-11.1	12	53.6	10.6	51	123.8	32.2	90	194.0
-10.6	13	55.4	11.1	52	125.6	32.8	91	195.8
-10.0	14	57.2	11.7	53	127.4	33.3	92	197.6
-9.4	15	59.0	12.2	54	129.2	33.9	93	199.4
-8.9	16	60.8	12.8	55	131.0	34.4	94	201.2
-8.3	17	62.6	13.3	56	132.8	35.0	95	203.0
-7.8	18	64.4	13.9	57	134.6	35.6	96	204.8
-7.2	19	66.2	14.4	58	136.4	36.1	97	206.6
-6.7	20	68.0	15.0	59	138.2	36.7	98	208.4
-6.1	21	69.8	15.6	60	140.0	37.2	99	210.2
-5.6	22	71.6	16.1	61	141.8	37.8	100	212.0
-5.0	23	73.4	16.7	62	143.6			
-4.4	24	75.2	17.2	63	145.4			
-3.9	25	77.0	17.8	64	147.2	43	110	230
-3.3	26	78.8	18.3	65	149.0	49	120	248
-2.8	27	80.6	18.9	66	150.8	54	130	266
-2.2	28	82.4	19.4	67	152.6	60	140	284
-1.7	29	84.2	20.0	68	154.4	66	150	302
-1.1	30	86.0	20.6	69	156.2	71	160	320
-0.6	31	87.7	21.1	70	158.0	77	170	338
0	32	89.6	21.7	71	159.8	82	180	356

TECHNICAL INFORMATION
CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
ATMOSPHERES	cms of mercury	**76**
atmospheres	ft. of water (at 4°C)	**33.9**
atmospheres	in. of mercury (at 0°C)	**29.92**
atmospheres	kgs/sq cm	**1.0333**
atmospheres	kgs/sq meter	**10.332**
atmospheres	pounds/sq in	**14.7**
BAR	newtons/sq m	**105**
bar	atmospheres	**0.9869**
bar	at (tech.)	**1.0197**
bar	psi	**14.504**
BARRELS - OIL	gals/oil	**42**
BT UNITS	kg-calories	**0.252**
BTUs	ft.-lbs	**777.9**
BTUs	hp-hrs	**3.927×10^{-4}**
BTUs	kg-meters	**107.5**
BTUs	kw-hrs	**2.928×10^{-4}**
CENTIMETERS	inches	**0.3937**
cm	meters	**0.01**
cm	mm	**10**
CMS MERCURY	atm	**0.3937**
cms mercury	ft water	**0.4461**
cms mercury	kgs/sq meter	**136**
cms mercury	lbs/sq ft	**27.85**
cms mercury	lbs/sq in	**0.1934**
CMS/SECOND	ft/min	**1.969**
cms/sec	ft/sec	**0.03281**
cms/sec	km/hr	**0.036**
cms/sec	meter/min	**0.6**
cms/sec	miles/min	**3.728×10^{-4}**
CMS/SEC/SEC	ft/sec/sec	**0.03281**
CUBIC CMS	cu/ft	**3.531×10^{-5}**
cu cms	cu in	**3.102×10^{-2}**
cu cms	cu meters	**10^{6}**
cu cms	cu yards	**1.308×10^{-6}**
cu cms	gals	**2.642×10^{-4}**
cu cms	liters	**10^{-3}**
cu cms	pints (liq)	**2.113×10^{-3}**
cu cms	quarts (liq)	**1.057×10^{-3}**
CUBIC FEET	cubic cms	**2.832×10^{-4}**
cu ft	cu inches	**1728**
cu ft	cu meters	**0.02832**
cu ft	cu yards	**0.03704**
cu ft	gals	**7.48052**
cu ft	liters	**28.32**
cu ft	pints (liq)	**59.48**
cu ft	quarts (liq)	**29.32**

TO CONVERT	INTO	MULTIPLY BY
CUBIC FT/MIN	cu cms/sec	**472**
cu ft/min	gals/sec	**0.1247**
cu ft/min	liters/sec	**0.472**
cu ft/min	lbs water/min	**62.43**
cu ft/sec	gals/min	**448.831**
CUBIC INCHES	cc	**16.39**
cu ins	cu ft	**5.787×10^{-4}**
cu ins	cu meters	**1.639×10^{5}**
cu ins	cu yards	**2.143×10^{-5}**
cu ins	gals	**4.329×10^{-3}**
cu ins	liters	**1.639×10^{-2}**
cu ins	pints (liq)	**0.03463**
cu ins	quarts (liq)	**0.01732**
CUBIC METERS	cc	**10^{4}**
cu M	cu ft	**35.31**
cu M	cu meters	**61.023**
cu M	cu yards	**1.308**
cu M	gals	**264.2**
cu M	liters	**103**
cu M	pints (liq)	**2113**
cu M	quarts (liq)	**1057**
CUBIC YARDS	cu cms	**7.646×10^{5}**
cu yds	cu ft	**27**
cu yds	u ins	**46,656**
cu yds	cu meters	**0.7645**
cu yds	gals	**202**
DECIMETERS	meters	**0.1**
DEGREES (ANGLE)	minutes	**60**
degs (angle)	radians	**0.01745**
degs (angle)	secs	**3600**
DEGREES/SEC	radians/sec	**0.01745**
degs/sec	revs/min	**0.1667**
degs/sec	revs/sec	**0.002778**
FEET	cms	**30.48**
ft	ins	**12**
ft	meters	**0.3048**
ft	yds	**1/3**
FEET OF WATER	atms	**0.0285**
ft of w	ins mercury	**0.8826**
ft of w	kgs/sq cm	**0.03048**
ft of w	lbs/sq ft	**62.32**
ft of w	lbs/sq in	**0.4328**
FEET/MIN	cm/sec	**0.508**
ft/min	ft/sec	**0.01667**
ft/min	kms/hr	**0.01829**
ft/min	meters/min	**0.3048**
ft/min	miles/hr	**0.01136**

TECHNICAL INFORMATION
CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
FT/SEC/SEC	cms/sec/sec	**30.48**
ft/sec/sec	meters/sec/sec	**0.3048**
FT - POUNDS	BTUs	**1.286 x 10-3**
ft lbs	hp/hrs	**5.050 x 10-7**
ft lbs	kg-calories	**3.241 x 10-4**
ft lbs	kg-meters	**0.1383**
ft lbs	kw-hrs	**3.766 x 10-7**
FT - LBS/MIN	BTUs/min	**7.717 x 10-2**
ft - lbs/min	ft.-lbs/sec	**0.01667**
ft - lbs/min	hp	**3.030 x 10-5**
ft - lbs/min	kg-calories/min	**3.241 x 10-3**
ft - lbs/min	kws	**2.260 x 10-5**
FT - LBS/SEC	BTUs/min	**7.717 x 10-2**
ft - lbs/sec	hp	**1.818 x 10-3**
ft - lbs/sec	kg-calories/min	**1.945 x 10-2**
ft - lbs/sec	kws	**1.356 x 10-3**
GALLONS	ccs	**3785**
gals	cu ft	**0.1337**
gals	cu ins	**231**
gals	cu meters	**3.785 x 10-3**
gals	liters	**3.785**
gals	pints (liq)	**8**
gals	quarts (liq)	**4**
GALLONS, IMP	US gals	**1.20095**
gallons, US	Imp gals	**0.83267**
GALLONS/MIN	cu ft/sec	**2.225 x 10-3**
gals/min	liters/sec	**0.06308**
gals/min	cu ft/hr	**8.0208**
HORSEPOWER	BTUs/min	**42.44**
Hp	ft-lbs/min	**33,000**
hp	ft-lbs/sec	**550**
hp	hp (metric)	**1.104**
hp	kg-calories/min	**10.7**
hp	kws	**0.7457**
hp	watts	**745.7**
HP - HOURS	BTUs	**2547**
hp-hrs	ft-lbs	**1.98 x 108**
hp-hrs	kg-calories	**641.7**
hp-hrs	kg-meters	**2.737 x 105**
hp-hrs	kw-hrs	**0.7457**
INCHES	cms	**2.54**
INS MERCURY	atms	**0.002458**
ins mercury	ft-water	**1.133**
ins mercury	kgs/sq cm	**0.03453**
ins mercury	lbs/sq ft	**70.73**
ins mercury	lbs/sq in	**0.4912**

TO CONVERT	INTO	MULTIPLY BY
INS OF WATER	atms	**0.002458**
ins of w	ft-water	**0.07355**
ins of w	kgs/sq cm	**0.00254**
ins of w	lbs/sq ft	**5.202**
ins of w	lbs/sq in	**0.03613**
KILOGRAMS	dynes	**980,665**
kgs	lbs	**2.205**
kgs	ton (short)	**1.102 x 10-3**
kgs	grams	**1000**
KGS/SQ CM	atms	**0.9678**
kgs/sq cm	ft-water	**32.81**
kgs/sq cm	ins mercury	**28.96**
kgs/sq cm	lbs/sq ft	**2048**
kgs/sq cm	lbs/sq in	**14.22**
KILOMETERS	cms	**105**
kms	ft	**3281**
kms	meters	**103**
kms	miles	**0.6214**
KMS/HR	cms/	**27.78**
kms/hr	ft/min	**54.68**
kms/hr	ft/sec	**0.9113**
kms/hr	meters/min	**16.87**
kms/hr	miles/hr	**0.6214**
KMS/HR/SEC	cms/sec/sec	**27.78**
kms/hr/sec	ft/sec/sec	**0.9113**
kms/hr/sec	meters/sec/sec	**0.2778**
KILOWATTS	BTUs/min	**56.92**
kws	ft-lbs/min	**4.425 x 104**
kws	ft-lbs/sec	**737.6**
kws	hp	**1.341**
kws	kg-calories/min	**14.34**
kws	watts	**103**
KILOWATTS – HOURS	BTUs	**3415**
kw-hrs	ft-lbs	**2.655 x 106**
kw-hrs	hp-hours	**1.341**
kw-hrs	kg-calories	**860.5**
kw-hrs	kw-meters	**3.671 x 105**
LITERS	ccs	**103**
liters	cu ft	**0.03531**
liters	cu ins	**51.02**
liters	cu meters	**2-Oct**
liters	gals	**0.2642**
liters	quarts (liq)	**1.057**
LITERS/MIN	gals/sec	**4.403 x 10-3**

TECHNICAL INFORMATION
CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
METERS	cms	**100**
meters	ft.	**3.281**
meters	ins	**39.37**
meters	kms	**103**
meters	mms	**103**
meters/min	cms/sec	**1.667**
meters/min	ft./min	**3.281**
meters/min	ft/sec	**0.05468**
meters/min	kms/hr	**0.06**
meters/min	miles/hr	**0.03728**
METERS/SEC	ft/min	**196.8**
meters/sec	ft/sec	**3281**
meters/sec	kms/hr	**3.6**
meters/sec	kms/min	**0.06**
meters/sec	miles/hr	**2.237**
meters/sec	miles/min	**0.03728**
MICRON	meters	**10-8**
microns	in	**39 x 10-6**
MILES/HR	cms/sec	**44.70**
miles/hr	ft./min	**88**
miles/hr	ft/sec	**1.467**
miles/hr	kms/hr	**1.609**
miles/hr	meters/min	**26.82**
MILLIMETERS	cms	**0.1**
mms	ins	**0.0397**
MINUTES (ANGLE)	radians	**2.909 x 10-4**
NEWTON	kgs	**0.1020**
OUNCES	lbs	**1.805**
ozs	gram	**28.349527**
OUNCES (FLUID)	cu in	**1.805**
ozs (fluid)	liters	**0.02957**
POUNDS	ozs	**16**
lbs	tons (short)	**0.005**
lbs	newtons (N)	**4.44**
lbs	gram	**453.5924**
LBS OF WATER	cu ft	**0.01605**
lbs of water	cu in	**27.73**
lbs of water	gals	**0.1204**
LBS OF WATER/ MIN	cu ft/sec	**2.679 x 10-4**
POUNDS/CU FT	lbs/cu in	**5.787 x 10-4**
POUNDS/CU IN	lbs/cu ft	**1728**
POUNDS/SQ IN	atms	**0.06804**
lbs/sq in	ft water	**2.311**
lbs/sq in	in mercury	**2.036**
lbs/sq in	kgs/sq cm	**0.07031**

TO CONVERT	INTO	MULTIPLY BY
RADIANS	degrees	**57.29578**
TONS (LONG)	kgs	**1016**
tons (long)	lbs	**2240**
tons (long)	tons (short)	**1.12000**
TONS (SHORT)	kgs	**2000**
tons (short)	kps	**907.18486**
tons (short)	tons (long)	**0.89287**
tons (short	)tons (metric)	**0.90718**
WATTS	BTUs/min	**0.05682**
watts	ft-lbs/min	**44.26**
watts	ft-lbs/sec	**0.7376**
watts	hp	**1.341 x 10-3**
watts	kg-calories/min	**0.01434**
watts	kws	**10**
WATTS/HOURS	BTUs	**3.415**
watts/hours	ft-lbs	**2655**
watts/hours	hp-hrs	**1.341 x 10-3**
watts/hours	kg/calories	**0.8605**
watts/hours	kg-meters	**367.1**
watts/hours	kw-hrs	**10-3**

TECHNICAL INFORMATION
PRESSURE RATING CONVERSION

PSI to BAR - Conversion Table

PSI	BAR	PSI	BAR	PSI	BAR
1	0.07	30	2.07	210	14.48
2	0.14	35	2.41	220	15.17
3	0.21	40	2.76	230	15.86
4	0.28	45	3.10	240	16.55
5	0.34	50	3.45	250	17.24
6	0.41	55	3.79	275	18.96
7	0.48	60	4.14	300	20.68
8	0.55	65	4.48	325	22.41
9	0.62	70	4.83	350	24.13
10	0.69	75	5.17	375	25.86
11	0.76	80	5.52	400	27.58
12	0.83	85	5.86	425	29.30
13	0.90	90	6.21	450	31.03
14	0.97	95	6.55	475	32.75
15	1.03	100	6.89	500	34.47
16	1.10	110	7.58	550	37.92
17	1.17	120	8.27	600	41.37
18	1.24	130	8.96	650	44.82
19	1.31	140	9.65	700	48.26
20	1.38	150	10.34	750	51.71
21	1.45	160	11.03	800	55.16
22	1.52	170	11.72	850	58.61
23	1.59	180	12.41	900	62.05
24	1.66	190	13.10	950	65.50
25	1.72	200	13.79	1000	68.95

BAR to PSI Conversion Table

BAR	PSI	BAR	PSI	BAR	PSI
1	14.50	30	435.10	210	3046.0
2	29.01	35	507.60	220	3191.0
3	43.51	40	580.20	230	3336.0
4	58.02	45	652.70	240	3481.0
5	72.52	50	725.20	250	3626.0
6	87.02	55	797.70	275	3989.0
7	101.50	60	870.20	300	4351.0
8	116.00	65	942.70	325	4714.0
9	130.50	70	1015.0	350	5076.0
10	145.00	75	1088.0	375	5439.0
11	159.50	80	1160.0	400	5802.0
12	174.00	85	1233.0	425	6164.0
13	188.50	90	1305.0	450	6527.0
14	203.10	95	1378.0	475	6889.0
15	217.60	100	1450.0	500	7252.0
16	232.10	110	1595.0	550	7977.0
17	246.60	120	1740.0	600	8702.0
18	261.10	130	1885.0	650	9427.0
19	275.60	140	2031.0	700	10153.0
20	290.10	150	2176.0	750	10878.0
21	304.60	160	2321.0	800	11603.0
22	319.10	170	2466.0	850	12328.0
23	333.60	180	2611.0	900	13053.0
24	348.10	190	2756.0	950	13779.0
25	362.60	200	2901.0	1000	14504.0

TERMS, CONDITIONS AND LIMITED WARRANTY OF SALE

All prices, terms and conditions of sale are subject to change without prior notice. Buyer agrees to all terms and conditions of seller upon the placement of any and all purchase orders.

GENERAL

- All orders are subject to a minimum charge of $100.00.
- All claims must be made within seven (7) days of receipt of merchandise.
- The company reserves the right at all times to reject any and all orders for any reason.

PAYMENT TERMS

- Net 30 days (to approved and qualified accounts).
- We reserve the right to hold shipments against past due accounts.
- Seller may require full or partial payment in advance if, in its sole judgement, the financial condition of the buyer does not justify the terms specified.
- All past due accounts are subject to a late payment charge of 1.5% per month, or maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees.
- Returned checks are subject to a minimum $50.00 charge.

ACCEPTANCE, ALTERATION AND CANCELLATION OF ORDERS

Orders for other than standard items or standard lengths may not be cancelled after purchase has been committed, production scheduled or any costs incurred.

RETURN OF DEFECTIVE MERCHANDISE

Defective or failed material to be held at the buyer's premises until authorization has been granted by seller to return or dispose of merchandise. Merchandise to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon our inspection based on prices at time of purchase.

MERCHANDISE SHIPPED IN ERROR

Buyer must notify seller immediately on any merchandise shipped in error. Upon notification, merchandise is to be returned to seller either via truck on a Freight Collect basis, via carrier of our choice, or via UPS on a Freight Prepaid basis. Buyer will be reimbursed for cost of merchandise, plus any additional freight which may have been incurred due to shipping error.

MERCHANDISE ORDERED IN ERROR

Standard packaged merchandise only may be returned, provided that the merchandise is in the original buyer's possession not more than 30 days. If merchandise is accepted for return, merchandise must be returned Freight Prepaid, and buyer will be charged a minimum of 15% rehandling charge, plus a chargeback for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any merchandise that is specifically manufactured to meet the buyer's requirement of either specifications or large quantity.

DELIVERY, DAMAGES, SHORTAGES

Delivery to the initial common carrier shall constitute the delivery to the buyer. Our responsibility, insofar as transportation risks are concerned, ceases upon the delivery of the merchandise in good condition to such a carrier, and all the merchandise shall be shipped at the buyer's risk.

GOODS DAMAGED IN SHIPMENT

Upon receipt of shipment, any evidence of damage to original shipping package must be reported by the receiving party and a claim made with the delivering carrier upon receipt of shipment.

CONCEALED DAMAGE

Any evidence of damage to material shipped, upon the opening of the original shipping package, must be reported by the receiving party to and a claim made with the delivering carrier without delay.

LIMITED WARRANTY

The merchandise or products sold or distributed by Megadyne Americas, LLC. are warranted to our customers to be free from defects in material and workmanship at the time of shipment by us. All warranty claims shall be made within 90 days after we have shipped the merchandise. Our liability hereunder is limited to the purchase price of any merchandise proved defective, or, at our option, to the replacement of such merchandise upon its authorized return to us.

THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANT ABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL WE BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS.