Carrier

42CFS Series

Chilled Water Fan Coil Unit
Concealed Type - Low Static

Nominal : 400-2,000 CFM

42CFS Series

The Compact and Practical 42CFS Fan Coil Units

The Carrier 42CFS horizontal furred-in Fan Coils are quiet, compact and flexible. Nominal air quantity range from 400 cfm to 2,000 cfm. These units are engineered for industrial and commercial applications.

Features

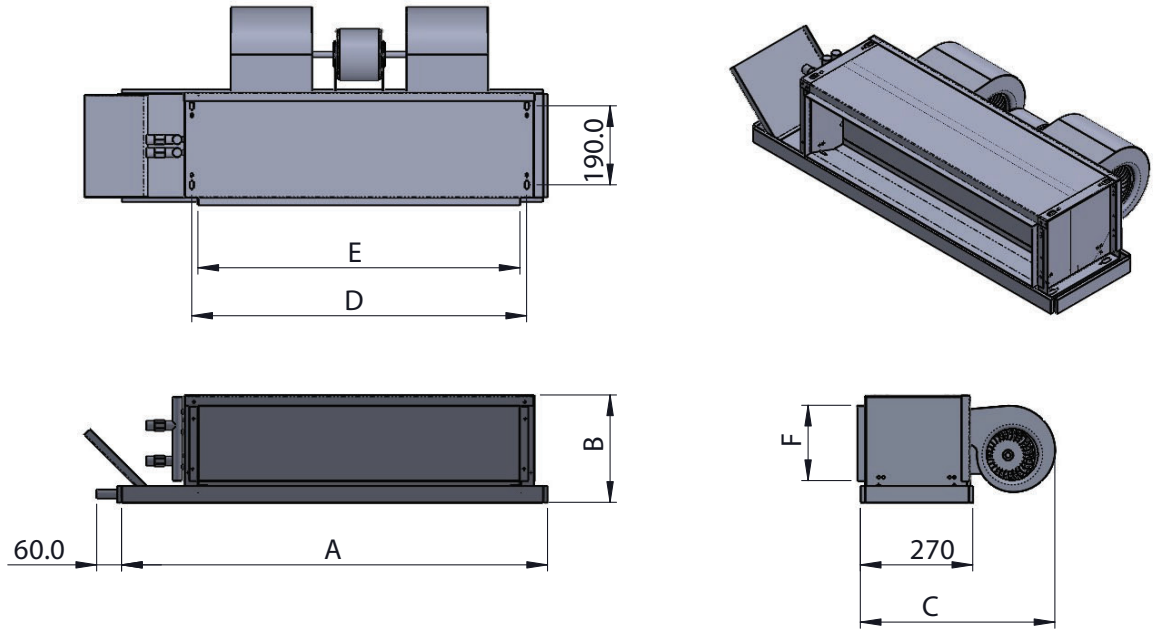
- Ultra-compact design-saves installation space
- High efficiency heat transfer surface
- Super quiet operation
- Low installation and maintenance cost-easy wiring, piping connections
- Installed with direct driven forward curved centrifugal fan and 4-speed **motor**
- **BLDC Motor for optional**
- Minimum power requirement for significant money saving to the owners
- Insulated drain pan
- Factory leak test
- Requires no expensive ductwork
- Ideal for new construction or renovation

Physical Data

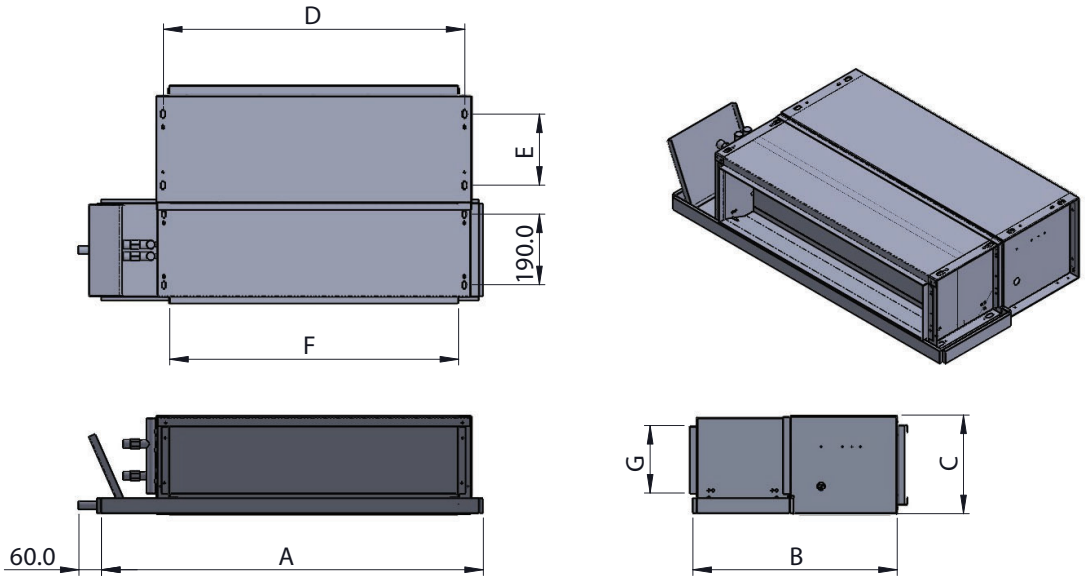
Specification (รายละเอียดของเครื่อง)			Chilled Water Coil - Conceal Ducted Type															
Model Name(ชื่อรุ่น)	Indoor		42CFS004W		42CFS006W		42CFS008W		42CFS010W		42CFS012W		42CFS014W		42CFS016W		42CFS020W	
	(เครื่องภายใน)		2Rows	3Rows	2Rows	3Rows	3Rows	4Rows	3Rows	4Rows	3Rows	4Rows	3Rows	4Rows	3Rows	4Rows	3Rows	4Rows
Cooling Capacity		W	3,968	4,909	5,480	6,468	7,857	9,202	9,944	11,957	11,169	13,578	12,813	15,747	14,818	17,157	18,689	20,849
(ความสามารถในการทำความเย็น)		Btu/hr.	13,540	16,750	18,700	22,070	26,810	31,400	33,930	40,800	38,110	46,330	43,720	53,730	50,560	58,540	63,770	71,140
Power Supply (ระบบไฟฟ้า)		V/Ph/Hz	220 / 1 / 50															
Operating Current (กระแสไฟฟ้า)		Amp.	0.62		0.59		0.84		1.51		1.23		2.1		2.28		3.27	
Power Consumption (กำลังไฟฟ้า)		W	120		115		171		321		273		438		445		600	
Indoor Air Circulation, Max. (ปริมาณลมหมุนเวียน)		CFM	400		600		800		1,000		1,200		1,400		1,600		2,000	
Fan Motor	Type		Permanent Split Capacitor / 4 Speed															
	Power Supply	V/Ph/Hz	220/1/50															
	HP		1/20		1/12		1/8		1/5		1/5		1/4		1/3		1/2	
	Q'ty		1		1		1		1		1		1		1		1	
	RLA	Amp.	0.62		0.59		0.84		1.51		1.23		2.1		2.28		3.27	
Blower	Type		Centifugal Forward Curve Blade															
	Diameter	mm.	144		144		144		164		181		181		181		181	
	Width	mm.	162		188		188		201		231		231		231		231	
	Q'ty		2		2		2		2		2		2		2		2	
Dimension	Width	mm.	460		460		460		490		530		530		530		530	
(ขนาดของเครื่อง)	Depth	mm.	1,030		1,200		1,200		1,330		1,330		1,330		1,330		1,510	
	Height	mm.	260		260		260		280		280		330		330		330	
Gross weight		kg.	19	21	20	22	22	24	26	29	29	32	34	37	32	35	37	41
Connecting Pipe	Water Inlet (BSPT)	inch	1/2		1/2		1/2		1/2		1/2		3/4		3/4		3/4	
(ขนาดท่อที่ใช้)	Water Outlet (BSPT)	inch	1/2		1/2		1/2		1/2		1/2		3/4		3/4		3/4	
	Drain O.D.(ท่อน้ำทิ้ง)(MPT)	inch	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	

RLA : Rated Load Amps
MPT : Male Pipe Thread
*Nominal Capacity based on : EAT 80 °Fdb / 67 °Fwb, CHWT 44 / 54 °F

Unit dimensions



NO	42CFS004W RO	42CFS006W RO	42CFS008W RO	42CFS012W RO	42CFS014W RO	42CFS016W RO	42CFS020W RO
A	1,030	1,200	1,200	1,330	1,330	1,330	1,510
B	260	260	260	280	330	330	330
C	450	450	450	530	530	530	530
D	802	972	972	1,100	1,100	1,100	1,277
E	770	940	940	1,067	1,067	1,067	1,245
F	180	180	180	205	255	255	255



NO	42CFS004W RP	42CFS006W RP	42CFS008W RP	42CFS012W RP	42CFS014W RP	42CFS016W RP	42CFS020W RP
A	1,030	1,200	1,200	1,330	1,330	1,330	1,510
B	540	540	540	280	610	610	610
C	265	265	265	290	335	335	335
D	802	972	972	1,100	1,100	1,100	1,277
E	770	940	940	1,067	1,067	1,067	1,245
F	180	180	180	205	255	255	255

Performance data

Model	Entering Chilled Water Temp.	Entring Air Temp. (°Fdb / °F wb)															
		76 / 63				78 / 65				80 / 67				82 / 69			
		Total Capacity	Sensible Capacity	Chilled Water Flow Rate	Water Pressure Drop	Total Capacity	Sensible Capacity	Chilled Water Flow Rate	Water Pressure Drop	Total Capacity	Sensible Capacity	Chilled Water Flow Rate	Water Pressure Drop	Total Capacity	Sensible Capacity	Chilled Water Flow Rate	Water Pressure Drop
	°F	(Btuh)	(Btuh)	(GPM)	(ft.wg)	(Btuh)	(Btuh)	(GPM)	(ft.wg)	(Btuh)	(Btuh)	(GPM)	(ft.wg)	(Btuh)	(Btuh)	(GPM)	(ft.wg)
42CFS004W2	40	12,730	9,990	2.54	13.54	14,600	10,550	2.91	17.22	16,630	11,160	3.31	21.64	18,730	11,760	3.73	26.66
	45	9,800	8,600	1.96	8.44	11,180	9,090	2.23	10.59	12,730	9,530	2.54	13.30	14,850	10,150	2.96	17.42
	50	7,260	7,260	1.45	4.91	8,210	7,690	1.64	6.09	9,590	8,200	1.92	7.98	10,990	8,640	2.20	10.10
42CFS004W3	40	15,730	11,650	3.13	9.68	17,920	12,340	3.57	12.15	20,290	13,070	4.04	15.10	22,740	13,790	4.53	18.42
	45	11,990	9,940	2.39	5.93	13,900	10,560	2.77	7.66	15,890	11,150	3.17	9.66	18,310	11,860	3.65	12.37
	50	8,730	8,380	1.74	3.42	10,080	8,910	2.01	4.30	11,830	9,450	2.36	5.68	13,830	10,050	2.76	7.45
42CFS006W2	40	17,780	14,380	3.54	9.17	20,220	15,150	4.03	11.48	23,070	15,970	4.60	14.45	26,160	16,840	5.21	18.01
	45	13,590	12,350	2.71	5.64	15,580	13,080	3.11	7.16	17,780	13,780	3.55	9.00	20,330	14,480	4.06	11.37
	50	10,220	10,220	2.04	3.38	11,450	11,120	2.29	4.12	13,250	11,770	2.65	5.30	15,350	12,490	3.07	6.84
42CFS006W3	40	20,870	16,010	4.16	8.54	23,740	16,890	4.73	10.69	27,010	17,870	5.38	13.39	30,370	18,830	6.05	16.44
	45	15,810	13,670	3.16	5.18	18,380	14,530	3.67	6.72	21,010	15,330	4.19	8.48	24,170	16,220	4.82	10.83
	50	11,700	11,560	2.34	3.09	13,470	12,320	2.69	3.85	15,530	13,020	3.10	4.93	18,240	13,860	3.64	6.51
42CFS008W3	40	25,430	20,010	5.06	12.04	28,750	21,000	5.73	14.92	32,770	22,190	6.53	18.77	36,920	23,360	7.35	23.13
	45	19,200	17,120	3.83	7.25	22,200	18,110	4.43	9.33	25,360	19,090	5.06	11.77	29,180	20,170	5.82	15.04
	50	14,320	14,310	2.86	4.28	16,380	15,350	3.27	5.41	18,680	16,260	3.73	6.79	21,970	17,280	4.39	9.00
42CFS008W4	40	29,630	22,360	5.90	11.27	33,590	23,590	6.69	14.02	37,990	24,910	7.57	17.39	42,660	26,260	8.50	21.31
	45	22,400	19,040	4.47	6.80	25,900	20,180	5.17	8.75	29,800	21,370	5.95	11.17	34,170	22,630	6.82	14.19
	50	16,450	16,010	3.29	3.91	18,920	17,070	3.78	4.98	21,950	18,100	4.39	6.44	25,750	19,240	5.14	8.51
42CFS010W3	40	31,960	25,180	6.37	7.98	36,340	26,560	7.24	9.97	41,220	28,000	8.21	12.42	46,600	29,530	9.28	15.39
	45	24,290	21,570	4.85	4.86	27,840	22,810	5.56	6.16	32,080	24,110	6.40	7.87	36,800	25,490	7.34	10.01
	50	17,990	17,860	3.59	2.84	20,500	19,300	4.10	3.56	23,730	20,550	4.74	4.58	27,480	21,740	5.49	5.91
42CFS010W4	40	38,460	28,680	7.66	9.83	43,500	30,250	8.66	12.16	49,260	31,990	9.81	15.13	55,260	33,740	11.01	18.50
	45	29,130	24,420	5.81	5.95	33,610	25,850	6.71	7.63	38,790	27,440	7.74	9.79	44,240	29,000	8.83	12.30
	50	21,230	20,530	4.24	3.41	24,460	21,840	4.89	4.32	28,620	23,220	5.72	5.67	33,430	24,630	6.68	7.42
42CFS012W3	40	36,000	28,880	7.17	9.81	41,020	30,500	8.17	12.32	46,400	32,050	9.24	15.27	52,520	33,770	10.46	18.97
	45	27,350	24,720	5.46	5.97	31,270	26,170	6.24	7.53	36,010	27,640	7.18	9.63	41,330	29,200	8.25	12.25
	50	20,410	20,360	4.08	3.53	23,120	22,110	4.62	4.38	26,690	23,570	5.33	5.62	30,890	24,980	6.16	7.23
42CFS012W4	40	43,750	33,160	8.71	12.30	49,500	34,950	9.86	15.26	56,110	36,930	11.18	19.00	63,040	38,920	12.56	23.29
	45	33,140	28,280	6.61	7.44	38,120	29,910	7.61	9.49	44,030	31,720	8.79	12.21	50,230	33,490	10.03	15.37
	50	24,270	23,750	4.85	4.26	27,850	25,340	5.56	5.41	32,510	26,910	6.49	7.07	37,860	28,520	7.56	9.21
42CFS014W3	40	41,520	33,560	8.27	5.11	46,830	35,210	9.33	6.30	53,550	37,170	10.67	7.95	60,680	39,170	12.09	9.89
	45	31,430	28,800	6.27	3.10	35,950	30,360	7.17	3.91	41,500	32,140	8.28	5.01	47,240	33,750	9.43	6.27
	50	23,590	23,590	4.71	1.85	26,590	25,690	5.31	2.30	30,440	27,370	6.08	2.88	35,510	29,010	7.09	3.75
42CFS014W4	40	50,820	38,470	10.12	13.51	57,490	40,510	11.45	16.75	65,190	42,830	12.99	20.88	73,120	45,100	14.57	25.52
	45	38,520	32,830	7.68	8.19	44,400	34,720	8.86	10.48	51,050	36,760	10.19	13.36	58,500	38,890	11.67	16.95
	50	28,290	27,580	5.65	4.71	32,420	29,380	6.48	5.96	37,780	31,240	7.55	7.77	44,160	33,120	8.82	10.19
42CFS016W3	40	48,060	38,870	9.57	6.59	54,370	40,880	10.84	8.18	61,990	43,050	12.33	10.24	70,170	45,370	13.98	12.75
	45	36,370	33,340	7.26	3.99	41,580	35,170	8.30	5.03	48,020	37,220	9.58	6.45	54,720	39,140	10.92	8.10
	50	27,440	27,440	5.48	2.41	30,790	29,800	6.15	2.93	35,370	31,810	7.07	3.73	41,060	33,600	8.20	4.83
42CFS016W4	40	55,110	42,590	10.98	10.91	62,770	45,020	12.50	13.69	70,900	47,420	14.12	16.94	79,920	49,990	15.92	20.89
	45	41,730	36,380	8.33	6.60	47,990	38,500	9.57	8.41	55,410	40,770	11.05	10.81	63,520	43,120	12.67	13.72
	50	30,810	30,470	6.15	3.83	35,290	32,640	7.05	4.85	40,890	34,630	8.17	6.25	47,520	36,710	9.49	8.12
42CFS020W3	40	60,570	48,690	12.06	11.37	68,360	51,120	13.62	14.04	78,030	53,940	15.54	17.69	88,220	56,790	17.57	21.94
	45	45,740	41,720	9.13	6.85	52,590	44,080	10.49	8.73	60,530	46,610	12.08	11.15	69,000	49,010	13.77	14.01
	50	34,530	34,530	6.90	4.13	38,890	37,330	7.77	5.07	44,500	39,730	8.89	6.41	51,920	42,100	10.37	8.38
42CFS020W4	40	67,170	52,330	13.38	8.26	76,180	55,190	15.17	10.28	86,390	58,160	17.21	12.80	97,390	61,290	13.40	15.78
	45	50,820	44,760	10.14	5.00	58,220	47,260	11.62	6.32	67,430	50,090	13.45	8.16	76,860	52,780	15.33	10.24
	50	37,520	37,490	7.49	2.90	42,950	40,220	8.58	3.66	49,760	42,630	9.94	4.72	57,690	45,100	11.52	6.10

REMARK (*)

Ent./Lvg. Water Temp. at delta T = 10 F

Performance data

Chilled Water Coil Pressure Drop (△p) (FT of Water)

Cv Factor	Water Flow Rate (GPM)																								
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	13.0	14.0
0.8	0.9	3.6	8.1	14.4	22.5	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.9	0.7	2.8	6.4	11.4	17.8	25.6	34.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.0	0.5	2.3	5.2	9.2	14.4	20.7	28.2	36.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1	0.4	1.9	4.2	7.6	11.9	17.1	23.3	30.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2	-	1.6	3.6	6.4	10.0	14.4	19.6	25.6	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3	-	1.3	3.0	5.4	8.5	12.3	16.7	21.8	27.6	34.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4	-	1.1	2.6	4.7	7.3	10.6	14.4	18.8	23.8	29.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5	-	1.0	2.3	4.1	6.4	9.2	12.5	16.4	20.7	25.6	31.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6	-	0.9	2.0	3.6	5.6	8.1	11.0	14.4	18.2	22.5	27.2	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7	-	0.8	1.8	3.2	4.9	7.1	9.7	12.7	16.1	19.9	24.1	28.7	33.7	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8	-	0.7	1.6	2.8	4.4	6.4	8.7	11.4	14.4	17.8	21.5	25.6	30.1	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9	-	0.6	1.4	2.5	4.0	5.7	7.8	10.2	12.9	15.9	19.3	23.0	27.0	31.3	-	-	-	-	-	-	-	-	-	-	-	-
2.0	-	0.5	1.3	2.3	3.6	5.2	7.0	9.2	11.6	14.4	17.4	20.7	24.4	28.2	32.4	-	-	-	-	-	-	-	-	-	-	-
2.1	-	0.5	1.1	2.0	3.2	4.7	6.4	8.3	10.6	13.0	15.8	18.8	22.1	25.6	29.4	33.5	-	-	-	-	-	-	-	-	-	-
2.2	-	0.4	1.0	1.9	2.9	4.2	5.8	7.6	9.6	11.9	14.4	17.1	20.1	23.3	26.8	30.5	-	-	-	-	-	-	-	-	-	-
2.3	-	-	0.9	1.7	2.7	3.9	5.3	6.9	8.8	10.9	13.2	15.7	18.4	21.3	24.5	27.9	31.5	-	-	-	-	-	-	-	-	-
2.4	-	-	0.9	1.6	2.5	3.7	4.9	6.4	8.1	10.0	12.1	14.4	16.9	19.6	22.5	25.6	28.9	32.4	-	-	-	-	-	-	-	-
2.5	-	-	0.8	1.4	2.3	3.3	4.5	5.9	7.4	9.2	11.1	13.3	15.6	18.1	20.7	23.6	26.7	29.9	33.3	-	-	-	-	-	-	-
2.6	-	-	0.7	1.3	2.1	3.0	4.1	5.4	6.9	8.5	10.3	12.3	14.4	16.7	19.2	21.8	24.6	27.6	30.8	-	-	-	-	-	-	-
2.7	-	-	0.7	1.2	1.9	2.8	3.8	5.0	6.4	7.9	9.5	11.4	13.3	15.5	17.8	20.2	22.8	25.6	28.5	31.6	-	-	-	-	-	-
2.8	-	-	0.6	1.1	1.8	2.6	3.6	4.7	5.9	7.3	8.9	10.6	12.4	14.4	16.5	18.8	21.2	23.8	26.5	29.4	32.4	-	-	-	-	-
2.9	-	-	0.6	1.1	1.7	2.4	3.3	4.3	5.5	6.8	8.3	9.8	11.6	13.4	15.4	17.5	19.8	22.2	24.7	27.4	30.2	-	-	-	-	-
3.0	-	-	0.5	1.0	1.6	2.3	3.1	4.1	5.2	6.4	7.7	9.2	10.8	12.5	14.4	16.4	18.5	20.7	23.1	25.6	28.2	31.0	-	-	-	-
3.2	-	-	0.5	0.9	1.4	2.0	2.7	3.6	4.5	5.6	6.8	8.1	9.5	11.0	12.6	14.4	16.3	18.2	20.3	22.5	24.8	27.2	29.8	-	-	-
3.4	-	-	-	0.8	1.2	1.8	2.4	3.2	4.0	4.9	6.0	7.1	8.4	9.7	11.2	12.7	14.4	16.1	18.0	19.9	22.0	24.1	26.4	28.7	-	-
3.6	-	-	-	0.7	1.1	1.6	2.1	2.8	3.6	4.4	5.3	6.4	7.5	8.7	10.0	11.4	12.8	14.4	16.0	17.8	19.6	21.5	23.5	25.6	30.1	-
3.8	-	-	-	0.6	1.0	1.4	1.9	2.5	3.2	4.0	4.8	5.7	6.7	7.8	9.0	10.2	11.5	12.9	14.4	15.9	17.6	19.3	21.1	23.0	27.0	31.3
4.0	-	-	-	0.5	0.9	1.3	1.7	2.3	2.9	3.6	4.3	5.2	6.1	7.0	8.1	9.2	10.4	11.6	13.0	14.4	15.9	17.4	19.0	20.7	24.4	28.2

Note: Interpolation is permitted: do not extrapolate. To calculate pressure drop for Cv factors and flow rates not shown in the table, use the following formula

$$\triangle P = \frac{(GPM)^2}{(Cv)^2} \times 2.31$$

Metric conversion chart

Metric Tech	x	=	English Unit	x	=	SI Unit
Area						
cm^2				100		mm^2
cm^2	0.1550		$in.^2$	645.2		mm^2
m^2				1.0		m^2
m^2	10.76		ft^2	0.09290		m^2
Lenght						
μm				1.0		μm
μm	39.37		micro-inch	0.0254		μm
mm				1.0		mm
mm	0.03937		in.	25.4		mm
mm	0.003281		ft	304.8		mm
m				1.0		m
m	3.281		ft	0.3048		m
m	1.094		yd	0.9144		m
Mass						
g				1.0		g
g	0.03527		oz	28.35		g
kg				1.0		kg
kg	2.205		lb	0.4536		kg
tonne, Mg				1.0		tonne, Mg
tonne, Mg	1.102		U.S. ton (2000 lb)	0.9072		tonne, Mg
Power						
kcal/h				1.163		W
kcal/h	3.968		Btu/h	0.2931		W
Hp metric				0.7355		kW
Hp metric	0.9863		HP ($550 \frac{ft\ lb}{S}$)	0.7457		kW
Mcal/h				1.163		kW
Mcal/h	0.3307		Ton refr.	3.517		kW
Pressure						
mm w.g. 4˚C				9.806		Pa
mm w.g. 4˚C	0.03937		in H_2O 39,2˚F	249.1		Pa
mm Hg 0˚C				0.1333		kPa
mm Hg 0˚C	0.03937		in Hg 32˚F	3.386		kPa
kg_f/cm^2				98.07		kPa
kg_f/cm^2	14.22		psi	6.895		kPa
mH_2O	3.281		ft H_2O	2.989		kPa

Metric Tech	x	=	English Unit	x	=	SI Unit
Temperature Interval						
˚C				1.0		K
˚C	1.8		˚F	0.5556		˚C
Velocity						
m/s				1.0		m/s
m/s	3.281		ft/s	0.3048		m/s
m/s	196.9		ft/min	0.00508		m/s
Volume						
mm^3				1.0×10^{-6}		L
mm^3	6.102×10^{-5}		$in.^3$	0.01639		L
L				1.0		L
L	0.03531		ft^3	28.32		L
m^3				1.0		m^3
m^3	1.308		yd^3	0.7646		m^3
L	0.2642		U.S. gal	3.785		L
L	2.113		U.S. pint	0.4732		L
mL, cm^3				1.0		mL
mL, cm^3	0.03381		U.S. oz	29.57		mL
Volume/Time						
m^3/h				0.2778		L/s
m^3/h	0.5886		ft^3/min	0.4719		L/s
m^3/h	4.403		U.S. gal/min	0.06309		L/s
L/h				2.778×10^{-4}		L/s
L/h	4.403×10^{-3}		U.S. gal/min	0.06309		L/s
$(m^3/h)/$ (1000 kcal/h)	1.780		cfm/ton	0.1342		L/s kw

Metric Tech	Conversion Factor	=	English Unit	Conversion Factor	=	SI Unit
Temperature						
˚C				˚C + 273.15		K
˚C	(˚C x 1.8) + 32		˚F	(˚F - 32) ÷ 1.8		˚C

Prefixes

M	MEGA	- 10^6
k	KILO	- 10^3
d	DECI	- 10^{-1}
c	CENTI	- 10^{-2}
m	MILLI	- 10^{-3}
μ	MICRO	- 10^{-6}

Legend

m	METER	K	KELVIN
cal	CALORIE	W	WATT
kg	KILOGRAM (mass)	Pa	PASCAL
kgf	KILOGRAM - FORCE	J	JOULE
L	LITER	N	NEWTON
˚C	DEGRESS CELSIUS	h	HOUR

Units

cP	CENTIPOISE	mm Hg	MILLIMETERS MERCURY
cSt	CENTISTOKE	tonne	= 1000 kg
HP metric	= (PS, CV, ch) METRIC HORSEPOWER	kcal	= fg FRIGORIE
mm w.g.	MILLIMETERS WATER GAUGE	bar	= 100 kPa

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42CFS/12/19