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CONVERSIONS

1 in = 25.4 mm
1 in² = 645.16 mm²
1 in³ = 16.4 ml
1 mile = 5280 ft = 1609.3 m
1 fpm = 0.00509 m/s
1 ft²/m = 1 cfm = 0.4719 l/s
1 mph = 1.61 km/h = 0.447 m/s
1 mm of mercury = 0.133 kPa
1 mm of water (20°C) = 9.79 Pa
1 oz = 28.3 g
1 lb = 0.454 kg
1 gal. (imp) = 4.546 l
1 gal. (US) = 3.7853 l
1 Blu = 1.055 kJ
1 Blu/h = 0.2931 W
1 Blu/ft² = 11.4 kJ/m²
1 Blu/ft²·hr·°F = 5.678 W/m²·°C
1 hp (boiler) = 9.81 kW = 33.476 Blu/h
1 hp (motor) = 746 W
1 ton (a/c) = 12,000 Blu/h = 3.517 kW
1 ft (head) = 0.433 psi

1 ft = 0.3048 m
1 ft² = 0.0929 m²
1 ft³ = 0.028317 m³ = 28.317 l = 7.481 US gal
1 US gal = 3.7853 l

1 m = 3.2808 ft.

1 m = 39.37 in

1 m² = 10.7639 ft²

1 m³ = 35.3145 ft³

1 km/h = 0.278 m/s

1 l/s = 2.119 cfm

1 in. WC = 248.6 Pa

1 psi = 6.894757 kPa

1 kg = 2.2046 lbs

1 l = 0.2642 gal (US)

1 Ton (refrigeration) = 3.517 kW

1 W = 3.412 Blu/h

1 hp = 0.746 kW

1 kW = 3.412 Blu/h

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Ramadan Abdelrahman
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CONVERSIONS

$^{\circ}\text{F} = (9/5 \times ^{\circ}\text{C}) + 32$
 $^{\circ}\text{C} = (^{\circ}\text{F} - 32) / 1.8$

Sensible heat (Blu/h) = $1.08 \times \text{Q} \times \Delta\text{T}$
 Q = air flow (cfm)
 ΔT = change in dry bulb temperature ($^{\circ}\text{F}$)

Latent Heat (Blu/h) = $0.68 \times \text{Q} \times \Delta\text{g}$
 Q = air flow (cfm)
 Δg = change in moisture (grains/pound)

water required for heating or cooling
 $\text{gpm} = \text{q} / (500 \times \Delta\text{T})$
 q = load in Blu/h
 ΔT = change in water temperature ($^{\circ}\text{F}$)

0.176110 RSI x 0.1761 = RSI
 5.678263 1/RSI = USI

R = Thermal resistance ($\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr}/\text{Blu}$) RSI = $\text{m}^2 \cdot ^{\circ}\text{C}/\text{W}$
U = thermal transmittance ($\text{Blu}/\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr}$) USI = $\text{W}/\text{m}^2 \cdot ^{\circ}\text{C}$



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ASHRAE, the American Society of Heating, Refrigerating and Air-Conditioning Engineers is an international organization of 50,000 persons with chapters throughout the world. The Society is organized for the sole purpose of advancing the arts and sciences of heating, ventilation, air conditioning and refrigeration for the public's benefit through research, standards writing, continuing education and publications.

Through its membership, ASHRAE writes standards that set uniform methods of testing and rating equipment and establish accepted practices for the HVAC&R industry worldwide, such as the design of energy efficient buildings. The Society's research program, currently more than 100 research projects worth nearly \$8 million, investigates numerous issues, such as identifying new refrigerants that are environmentally safe. ASHRAE organizes broad-based technical programs for presentation at its semi-annual meetings and co-sponsors the International Air-Conditioning, Heating, Refrigerating Exposition, the largest HVAC&R trade show in North America.

ASHRAE's Long Range Plan establishes goals for five or more years into the future. It begins with a vision of what ASHRAE should be in the future, taking into account external factors that will impact the Society and the industry it embraces. The plan consists of three parts: mission statement, vision statement, and goals.

Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

Vision Statement

- ASHRAE will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.
- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

Goals

- Provide comprehensive education programs that enhance opportunity for professional growth.
- Respond to current and emerging heating, ventilating, air-conditioning and refrigerating issues.
- Ensure timely transfer of information.
- Provide for diverse global growth.



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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MARCH 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL 2010

S	M	T	W	T	F	S
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY 2010

S	M	T	W	T	F	S
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

AUGUST 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

OCTOBER 2010

S	M	T	W	T	F	S
			1	2		
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER 2010

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**Chapter
Membership
Roster**

2009 – 2010

**LONDON CANADA CHAPTER
#116**

**American Society of Heating
Refrigeration and Air Conditioning
Engineers, Inc.**