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## CONVERSIONS

1 in = 25.4 mm	1 ft = 0.3048 m	1 m = 3.2808 ft
1 in <sup>2</sup> = 645.16 mm <sup>2</sup>	1 ft <sup>2</sup> = 0.0929 m <sup>2</sup>	1 m <sup>2</sup> = 10.7639 ft <sup>2</sup>
1 in <sup>3</sup> = 16.4 ml	1 ft <sup>3</sup> = 0.028317 m <sup>3</sup> = 28.317 l = 7.481 US gal	1 m <sup>3</sup> = 35.3145 ft <sup>3</sup>
1 mile = 5280 ft = 1609.3 m	1 km = 0.6214 miles	
1 fpm = 0.00509 m/s	1 km/h = 0.278 m/s	
1 ft <sup>3</sup> /m = 1 cfm = 0.4719 l/s	1 l/s = 2.119 cfm	
1 mph = 1.61 km/h = 0.447 m/s		
1 mm of mercury = 0.133 kPa	1 in. WC = 248.6 Pa	
1 mm of water (20°C) = 9.79 Pa		
1 oz = 28.3 g	1 psi = 6.894757 kPa	
1 lb = 0.454 kg	1 kg = 2.2046 lbs	
1 gal. (imp) = 4.546 l	1 l = 0.2642 gal (US)	
1 gal. (US) = 3.7853 l		
1 Btu = 1.055 kJ	1 Ton (refrigeration) = 3.517 kW	
1 Btu/h = 0.2931 W	1 W = 3.412 Btu/h	
1 Btu/ft <sup>2</sup> = 11.4 kJ/m <sup>2</sup>		
1 Btu/ft <sup>2</sup> ·hr·°F = 5.678 W/m <sup>2</sup> ·°C		
1 hp (boiler) = 9.81 kW = 33.476 Btu/h		
1 hp (motor) = 746 W		
1 ton (a/c) = 12,000 Btu/h = 3.517 kW		
1 ft (head) = 0.433 psi		

### CONVERSIONS

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

$$\text{Sensible heat (Btu/h)} = 1.08 \times \text{Q} \times \Delta\text{T}$$

$$\text{Q} = \text{air flow (cfm)}$$

$$\Delta\text{T} = \text{change in dry bulb temperature } (^{\circ}\text{F})$$

$$\text{Latent Heat (Btu/h)} = 0.68 \times \text{Q} \times \Delta\text{g}$$

$$\text{Q} = \text{air flow (cfm)}$$

$$\Delta\text{g} = \text{change in moisture (grains/pound)}$$

water required for heating or cooling

$$\text{gpm} = \text{q} / (500 \times \Delta\text{t})$$

$$\text{q} = \text{load in Btu/h}$$

$$\Delta\text{t} = \text{change in water temperature } (^{\circ}\text{F})$$

$$\text{R} \times 0.1761 = \text{RSI}$$
$$1/\text{R} = \text{U}$$

$$\text{RSI} \times 5.678 = \text{R}$$
$$1/\text{RSI} = \text{USI}$$

$$\text{R} = \text{thermal resistance (ft}^2 \cdot \text{F} \cdot \text{hr/Btu)}$$

$$\text{U} = \text{thermal transmittance (Btu/ft}^2 \cdot \text{F} \cdot \text{hr)}$$
$$\text{RSI} = \text{m}^2 \cdot \text{C/W}$$
$$\text{USI} = \text{W/m}^2 \cdot \text{C}$$

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

1791 Tullie Circle NE Atlanta, GA 30329-2305  
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1-800-5ASHRAE  
Fax: (404) 321-5478  
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Region II

<u>Position</u>	<u>Name</u>
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Regional II Membership Promotion	Nadar Jayaraman
Regional II Research Promotion	David W. Rasmussen
Regional II Student Activities	Joel Primeau
Region II Chapter Technology Transfer	Frederic Genest
Region II Treasurer	William McOrtney
Region II Historian	George E. Menzies
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Region II regional Webmaster	Tom Pollard

London Canada Chapter #116

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

2008-2009

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Web Site: [londoncanada.ashraechapters.org](http://londoncanada.ashraechapters.org)

Please forward any changes or corrections to ASHRAE Society  
and to Karl Gilroy (kgilroy@price-hvac.com)



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

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1-800-5ASHRAE

Fax: (404) 321-5478

[www.ashrae.org](http://www.ashrae.org)

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



**ASHRAE**®  
LONDON, ONTARIO

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1973-1974	John Bisset
1974-1975	Russ A. Gonder
1975-1976	Jack Henderson
1976-1977	Wayne Barker
1977-1978	John J. Payne
1978-1979	Bill Mitchell
1979-1980	Chuck Sharp
1980-1981	William A. Rutherford
1981-1982	John J. Payne
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1991-1992	Darryl Boyce
1992-1993	Owen Glendon
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1994-1995	Kirk Flowers
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1996-1997	Brenda Storehouse
1997-1998	Peter Golem
1998-2000	Nam Clarke
2000-2001	Dennis Dewe
2001-2002	Daryl Somers
2002-2004	Tom Pollard
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2005-2006	Joe Classens
2006-2007	Scott Turner
2007-2008	Scott Edmunds



**ASHRAE®**

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**2009**

**JANUARY 2009**

S	M	T	W	T	F	S
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4	5	6	7	8	9	10
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**FEBRUARY 2009**

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**MARCH 2009**

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**APRIL 2009**

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**MAY 2009**

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**JUNE 2009**

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**JULY 2009**

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**AUGUST 2009**

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**SEPTEMBER 2009**

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**OCTOBER 2009**

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**NOVEMBER 2009**

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**DECEMBER 2009**

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**Chapter  
Membership  
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2008 - 2009

**LONDON CANADA CHAPTER  
#116**

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