

# HVAC CHEAT SHEET



## ABBREVIATIONS

A/C - Air Conditioning  
 AHU - Air Handling Unit  
 ASHRAE - American Society of Heating, Refrigerating and Air-Conditioning Engineers  
 Btu - British Thermal Unit  
 BTU/hr - British Thermal Unit per hour  
 CFM - Cubic Feet per Minute  
 CO<sub>2</sub> - Carbon Dioxide  
 COP - Coefficient of Performance  
 Duct Loss - Heat loss through ductwork  
 EER - Energy Efficiency Ratio  
 ESR - Energy Star Rating  
 FPM - Feet per Minute  
 GPM - Gallons per Minute  
 HVAC - Heating, Ventilation, and Air Conditioning  
 HSPD - High-Speed Digital  
 ICF - Insulated Concrete Form  
 IES - Illuminance  
 LEED - Leadership in Energy and Environmental Design  
 LSC - Lighting System Control  
 MERV - Minimum Efficiency Reporting Value  
 NEMA - National Electrical Manufacturers Association  
 OSHA - Occupational Safety and Health Administration  
 PPM - Parts per Million  
 R-value - Thermal Resistance  
 REFR - Refrigerant  
 RFI - Radio Frequency Interference  
 RT - Room Temperature  
 SEER - Seasonal Energy Efficiency Ratio  
 SFC - Square Feet per Cubic Foot  
 SWH - Square Feet per Hour  
 TBS - Total Building System  
 TR - Tons of Refrigeration  
 U-value - Overall Heat Transfer Coefficient  
 VAV - Variable Air Volume  
 VFD - Variable Frequency Drive  
 VUL - Ventilation Units per Liter  
 W - Watts  
 WPM - Watts per Minute  
 WWT - Water Treatment  
 XCFM - Free Cooling Capacity  
 YP - Yearly Production  
 Zoning - Dividing a space into separate temperature zones

## HEATING SYMBOLS

Symbol for Heating: A circle with a flame icon inside.

## HVAC ORGANIZATION CHART



## COMMON MEASUREMENT UNITS

Quantity	SI Unit	US Customary Unit
Length	Meter (m)	Foot (ft)
Area	Square Meter (m <sup>2</sup> )	Square Foot (ft <sup>2</sup> )
Volume	Cubic Meter (m <sup>3</sup> )	Cubic Foot (ft <sup>3</sup> )
Flow Rate	Cubic Meter per Second (m <sup>3</sup> /s)	Cubic Feet per Minute (CFM)
Power	Watt (W)	Watt (W)
Energy	Joule (J)	British Thermal Unit (BTU)
Temperature	Celsius (°C)	Fahrenheit (°F)

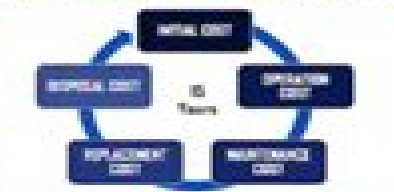
## HVAC SYSTEMS IN A NUTSHELL



## HOW TO SAVE ENERGY ?

- +10% SERVICE & MAINTENANCE**
  - Regular filter changes
  - Check thermostat settings
  - Seal ductwork leaks
- +20% TEMPERATURE CONTROL**
  - Set thermostat to 68°F in winter
  - Set thermostat to 78°F in summer
  - Use programmable thermostats
- +30% LOAD OPTIMIZATION**
  - Reduce indoor heat gains
  - Use energy-efficient lighting
  - Improve building envelope

## LIFE CYCLE COST ANALYSIS



## PROJECT COSTING

- CONTRACTOR COST
- MATERIAL COST
- LABOR COST
- OVERHEAD & PROFIT COST
- PERMITTING COST

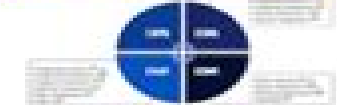
## HEAT PUMP



## RULE OF THUMBS

- DUCT LOSS
- LOAD ESTIMATION
- SEALING
- INSULATION
- VENTILATION
- ENERGY STAR

## R-410A REFRIGERATION CYCLE



## HVAC TROUBLESHOOTING HACKS

- Check thermostat settings
- Inspect air filters
- Verify electrical connections
- Check refrigerant levels
- Inspect ductwork for leaks
- Test safety controls
- Use diagnostic tools

## ROOM THERM

Room temperature should be maintained between 68°F and 72°F for comfort and energy efficiency. Use programmable thermostats to adjust temperatures during unoccupied hours.

## EQUIPMENT TYPES

Common HVAC equipment types include:
 

- Split Systems:** Consist of an indoor unit and an outdoor unit.
- Packaged Units:** All components are housed in a single cabinet.
- Variable Refrigerant Flow (VRF):** Allows for simultaneous heating and cooling.
- Geothermal Heat Pumps:** Utilize the earth's constant temperature for energy.
- Chilled Water Systems:** Use a central plant to produce chilled water for distribution.
- DX (Direct Expansion):** Refrigerant is distributed through ductwork.
- Hydronic Systems:** Use water or glycol to circulate heat.
- Mechanical Ventilation (MV):** Provides fresh air and controls humidity.
- Natural Ventilation:** Relies on wind and thermal buoyancy for airflow.

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# Hvac Calculations Cheat Sheet

**A. Bhatia**



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