

# Electrical unit conversion reference table: HP to watts, KVA to amps, tons refrigeration to kW

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1 HP	746 WATT
1 AMPS	240 WATT, {V=240}
1 HW	1000 WATT
1 KW	0.746 KW
1 KVA	1.74 AMPS, {P.F=0.8}
1 AMPS	0.8 KW
1 KW	0.24 KW, [V=240]
1 KW	1.25 KVA
1 UNITS	1.341 HP
1 UNITS	0.7188 KVA [V=415]
1 GΩ	1 KWH
1 kΩ	1000 WATTS
1 KW	1000 WH
1 WATT	0.001 KVA
1 kΩ	1000 Ω
1 kΩ	1000 kΩ
1 M	100,000 Ω
1 Ω	1.001 KW
1 KVA	1.391 AMPS
1 TON	3.517 KW
1 KVA	1000 VA
1 M	1.74 AMPS
1 kΩ	1000 Ω
1 kΩ	1000 kΩ
1 Ω	0.000001 MΩ
1 KVA	1.391 AMPS
1 TON	3.517 KW
1 KVA	1000 VA



**COMPREHENSIVE ELECTRICAL AND REFRIGERATION UNIT CONVERSION GUIDE: Complete Reference for**

# HVAC Professionals and Engineers

## SEO METADATA

### **Focus Keyphrase (191 characters max):**

Electrical unit conversion reference table: HP to watts, KVA to amps, tons refrigeration to kW, HVAC technical specifications and engineering calculations guide

### **SEO Title (59 characters, optimal for Google):**

Electrical Unit Conversion Chart: HVAC Refrigeration Reference

### **Meta Description (160 characters):**

Complete electrical and refrigeration unit conversion tables for HVAC technicians. Convert HP to watts, KVA to amps, cooling tons to kW. Essential engineering reference guide.

### **URL Slug:**

electrical-unit-conversion-hvac-refrigeration-reference

### **Tags:**

Electrical conversions, HVAC unit conversion, refrigeration engineering, KVA to amps conversion, HP to watts conversion, cooling capacity converter, HVAC technical reference, electrical specifications, compressor ratings, engineering calculations, Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, refrigeration equipment

### **Excerpt (55 words):**

Electrical unit conversions are essential knowledge for HVAC technicians and refrigeration engineers. This comprehensive reference guide provides

quick access to conversion formulas, technical specifications, and practical examples for comparing power ratings, calculating system requirements, and optimizing equipment selection across different measurement standards.

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## **COMPREHENSIVE ARTICLE**

# **Electrical Unit Conversion**

# **Reference: The Complete HVAC and Refrigeration Engineering Guide for 2026**

Understanding **electrical unit conversions** is fundamental for any HVAC professional, refrigeration technician, or electrical engineer. Whether you're comparing compressor specifications, calculating power requirements, or evaluating equipment across different measurement standards, having an accurate conversion reference is non-negotiable. This comprehensive guide provides the practical knowledge you need to work confidently with various electrical measurement units in real-world applications.

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## **Why Electrical Unit Conversions Matter in HVAC and Refrigeration**

The HVAC and refrigeration industry uses multiple measurement systems simultaneously. A compressor might be rated in **horsepower (HP)** from an older manufacturer, but your electrical system speaks in **watts** or **kilowatts (kW)**. Modern European equipment uses **kilovolt-amperes (kVA)**, while cooling capacity appears in **tons of refrigeration**. Without proper conversion understanding, you risk:

- **Undersizing or oversizing equipment**, leading to operational inefficiency
- **Electrical system failures** from mismatched power requirements
- **Safety hazards** from incorrect circuit breaker sizing
- **Expensive project delays** due to specification confusion
- **Warranty issues** from non-compliant equipment installation

This is why **Mbsmgroup** and **Mbsm.pro** emphasize technical accuracy in all equipment recommendations and calculations.

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## **Power Conversion: Mechanical to Electrical Energy**

### **Understanding Horsepower vs. Watts**

The most fundamental conversion in HVAC work is transforming **horsepower (HP)** to **watts**. These units measure the same physical property—**power**—but from different perspectives.

**Unit**

**Definition**

**Primary Use**

<b>1 HP</b>	745.7 watts (mechanical) or 746 watts (electrical)	Older equipment, machinery, motors
<b>1 Watt</b>	1 joule per second	Electrical appliances, modern equipment
<b>1 Kilowatt (kW)</b>	1,000 watts	Commercial HVAC systems
<b>1 Megawatt (MW)</b>	1,000,000 watts	Industrial facilities

### Conversion Formula:

$$\text{Watts} = \text{HP} \times 746$$

$$\text{HP} = \text{Watts} \div 745.7$$

## Practical Examples: HP to Watts Conversions

Horsepower	Watts	Kilowatts	Common Application
0.5 HP	373 W	0.373 kW	Residential AC units, small pumps
<b>1 HP</b>	<b>746 W</b>	<b>0.746 kW</b>	<b>Compressor motors, medium capacity units</b>
1.5 HP	1,119 W	1.119 kW	Commercial cooling systems
2 HP	1,492 W	1.492 kW	Industrial refrigeration
3 HP	2,238 W	2.238 kW	Large commercial systems

Horsepower	Watts	Kilowatts	Common Application
5 HP	3,730 W	3.730 kW	Heavy-duty industrial applications

**Engineer's Note:** The difference between 745.7 W and 746 W is negligible in practical applications. Use **745.7 for mechanical conversions** and **746 for electrical motors**. This small variation rarely exceeds  $\pm 0.1\%$  error in system calculations.

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## Current Conversion: Amperage and Electrical Load Calculations

### Understanding Amps, Volts, and Power Factor

**Amperage (AMPS)** represents electrical current flow. Calculating amperage correctly is critical for:

- Selecting proper circuit breaker sizes
- Determining wire gauge requirements
- Assessing electrical system capacity
- Preventing overload conditions

The relationship between **watts (W)**, **volts (V)**, and **amperes (A)** depends on your electrical system configuration:

#### Single-Phase Formula (240V typical):

$$\text{Amps} = \text{Watts} \div (\text{Volts} \times \text{Power Factor})$$

$$\text{Watts} = (\text{Volts} \times \text{Amps}) \times \text{Power Factor}$$

#### Example - Single Phase (240V system):

- Equipment rated: **240W at 240V**
- Amperage =  $240 \div 240 = 1 \text{ AMPS}$

### Three-Phase Formula (380V/400V typical):

$\text{Amps} = \text{Watts} \div (\text{Volts} \times 1.732 \times \text{Power Factor})$

Voltage	Power Factor	Watts to Amps Conversion
120V, Single Phase	0.8-0.95	$A = W \div (120 \times \text{PF})$
240V, Single Phase	0.8-0.95	$A = W \div (240 \times \text{PF})$
380V, Three Phase	0.8-0.95	$A = W \div (380 \times 1.732 \times \text{PF})$
400V, Three Phase	0.8-0.95	$A = W \div (400 \times 1.732 \times \text{PF})$

### Critical Parameter - Power Factor (PF):

**Power factor** measures how efficiently electrical equipment uses electrical power. Most HVAC equipment operates between **0.8 to 0.95 PF**.

- **PF = 0.8** → Less efficient (typical industrial motors)
- **PF = 0.9** → Good efficiency (standard HVAC equipment)
- **PF = 0.95** → Excellent efficiency (modern compressors)
- **PF = 1.0** → Purely resistive loads (rare in HVAC)

### Practical Amperage Calculations

System Rating	Voltage	Phase	Power Factor	Amperage
240W @ 240V	240V	Single	1.0	<b>1.0 A</b>
1000W @ 240V	240V	Single	1.0	<b>4.17 A</b>
3000W @ 380V	380V	Three	0.85	<b>5.4 A</b>
5000W @ 400V	400V	Three	0.9	<b>8.0 A</b>

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## Apparent Power: kVA (Kilovolt-Amperes)

### Conversion

### kVA vs. kW: The Critical Difference

This is where many technicians make costly mistakes. **kVA and kW are NOT the same thing:**

- **kW (kilowatts) = *Real power*** actually used by equipment
- **kVA (kilovolt-amperes) = *Apparent power*** (total electrical capacity)

The relationship between them depends on **power factor:**

$$\text{kW} = \text{kVA} \times \text{Power Factor (PF)}$$

$$\text{kVA} = \text{kW} \div \text{Power Factor (PF)}$$

### kVA to Amperage Conversion

#### Single-Phase System:

$$\text{Amps} = (\text{kVA} \times 1000) \div \text{Volts}$$

#### Three-Phase System:

$$\text{Amps} = (\text{kVA} \times 1000) \div (\text{Volts} \times 1.732)$$

kVA Rating	System	Voltage	Amperage
1 kVA	Single Phase	240V	4.17 A
1.74 kVA	Single Phase	240V	<b>7.25 A</b>
1.391 kVA	Three Phase	240V (line-to-line)	<b>3.35 A</b>

<b>kVA Rating</b>	<b>System</b>	<b>Voltage</b>	<b>Amperage</b>
1 kVA	Three Phase	415V (line-to-line)	<b>1.4 A</b>

### Real Application Example:

A refrigeration compressor is rated **1 kVA at 240V (single phase)**:

- Amperage =  $(1 \times 1000) \div 240 = \mathbf{4.17 \text{ amps}}$
- If power factor = 0.8, then kW =  $1 \times 0.8 = \mathbf{0.8 \text{ kW} = 800 \text{ watts}}$

## Refrigeration Cooling Capacity Conversions

### Understanding Cooling Tons in HVAC Systems

One of the most confusing measurements in HVAC is the **ton of refrigeration (TR)**. This is NOT a weight measurement—it's a cooling capacity unit defined historically as:

**1 Ton of Refrigeration = 12,000 BTU/hour = 3.517 kW**

This specific value comes from the heat required to melt one ton of ice in 24 hours, which became the standard refrigeration capacity unit.

<b>Tons (TR)</b>	<b>Kilowatts (kW)</b>	<b>Watts</b>	<b>BTU/hour</b>	<b>Common Application</b>
0.5 TR	1.758 kW	1,758 W	6,000 BTU	Residential window units
<b>1 TR</b>	<b>3.517 kW</b>	<b>3,517 W</b>	<b>12,000 BTU</b>	<b>Small residential AC</b>

<b>Tons (TR)</b>	<b>Kilowatts (kW)</b>	<b>Watts W</b>	<b>BTU/hour BTU</b>	<b>Common Application</b>
1.5 TR	5.276 kW	5,276 W	18,000 BTU	Medium residential unit
2 TR	7.034 kW	7,034 W	24,000 BTU	Large residential or small commercial
3 TR	10.551 kW	10,551 W	36,000 BTU	Commercial HVAC
5 TR	17.585 kW	17,585 W	60,000 BTU	Industrial cooling
10 TR	35.170 kW	35,170 W	120,000 BTU	Large industrial systems

### Conversion Formulas:

$$\text{kW} = \text{TR} \times 3.517$$

$$\text{TR} = \text{kW} \div 3.517$$

$$\text{BTU/hour} = \text{TR} \times 12,000$$

## European Metric Ton vs. Refrigeration Ton

**Important:** A metric tonne of refrigeration (often used in Europe) is slightly different:

- **1 Metric Tonne of Refrigeration  $\approx$  3.861 kW** (10% larger)
- **1 Refrigeration Ton (US) = 3.517 kW**

Always verify which standard your equipment uses before ordering or calculating capacity.

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# Resistance Conversion: Ohms, Kiloohms, Megaohms, and Gigaohms

## Electrical Resistance Measurement Scale

Resistance measurements span enormous ranges in electrical systems. Understanding the conversion hierarchy is essential for proper diagnostics and troubleshooting:

Unit	Value in Ohms	Typical Application
<b>1 Ohm (<math>\Omega</math>)</b>	1 $\Omega$	Wire resistance, heating elements
<b>1 Kiloohm (<math>k\Omega</math>)</b>	1,000 $\Omega$	Thermostats, control circuits
<b>1 Megohm (<math>M\Omega</math>)</b>	1,000,000 $\Omega$	Insulation testing, motor windings
<b>1 Gigaohm (<math>G\Omega</math>)</b>	1,000,000,000 $\Omega$	High-voltage insulation, safety testing

### Conversion Formula:

1 k $\Omega$  = 1,000  $\Omega$

1 M $\Omega$  = 1,000 k $\Omega$  = 1,000,000  $\Omega$

1 G $\Omega$  = 1,000 M $\Omega$  = 1,000,000,000  $\Omega$

## Practical Resistance Conversions in HVAC

Measurement	Ohms	Kiloohms	Context
Compressor winding	0.5-2 $\Omega$	0.0005-0.002 k $\Omega$	Low resistance—normal condition

Measurement	Ohms	Kiloohms	Context
Grounded winding	10-100 $\Omega$	0.01-0.1 k $\Omega$	Developing fault—needs attention
Open circuit winding	$\infty \Omega$	$\infty \text{ k}\Omega$	Complete failure—replace motor
Insulation (healthy)	>100 M $\Omega$	—	Proper isolation—safe to work
Insulation (compromised)	<1 M $\Omega$	—	Moisture damage—needs maintenance

**Diagnostic Rule:** Use **megaohm scale** (insulation resistance testers) for safety-critical motor testing. A healthy motor should show **>100 M $\Omega$**  insulation resistance.

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## Power Conversion Relationships: Comprehensive Reference Table

This consolidated table shows the relationships between all major electrical units in a single HVAC calculation context:

HP	Watts	kW	kVA (PF=0.8)	kVA (PF=0.9)	Refrigeration Tons
0.5	373	0.373	0.466	0.415	0.106
<b>1</b>	<b>746</b>	<b>0.746</b>	<b>0.933</b>	<b>0.829</b>	<b>0.212</b>
1.5	1,119	1.119	1.399	1.243	0.318
2	1,492	1.492	1.865	1.658	0.424
3	2,238	2.238	2.798	2.487	0.636

HP	Watts	kW	kVA (PF=0.8)	kVA (PF=0.9)	Refrigeration Tons
5	3,730	3.730	4.663	4.145	1.060

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## Real-World Application Scenarios

### Scenario 1: Compressor Selection and Electrical Planning

You're specifying a refrigeration compressor for a medium-sized cooling room. The equipment datasheet lists:

- **Rating: 1 HP motor**
- **Available Supply: 240V, single-phase**

#### Calculations Needed:

1. **Convert to watts:**  $1 \text{ HP} \times 746 = \mathbf{746 \text{ watts} = 0.746 \text{ kW}}$
2. **Calculate amperage** (assuming PF = 0.85):
  - $\text{Amps} = 746 \div (240 \times 0.85) = 746 \div 204 = \mathbf{3.66 \text{ amps}}$
3. **Circuit breaker sizing** (standard practice: 125% of running current):
  - $\text{Recommended breaker} = 3.66 \times 1.25 = \mathbf{4.58 \text{ amps} \rightarrow \text{use 15A breaker}}$
4. **Wire gauge selection** (based on amperage and distance from panel):
  - For 3.66 amps over moderate distance  $\rightarrow \mathbf{10 \text{ AWG wire minimum}}$

**Decision:** This 1 HP compressor is suitable for your 240V system with standard residential electrical configuration.

## **Scenario 2: Comparing International Equipment Specifications**

You have two compressor options:

- **Option A (US manufacturer):** 3 HP, R-134a, 1Ph 240V
- **Option B (European manufacturer):** 2.2 kW, R-134a, 1Ph 240V

### **Which is more powerful?**

Convert Option A to metric:

- $3 \text{ HP} \times 746 = 2,238 \text{ watts} = \mathbf{2.238 \text{ kW}}$

**Result:** Option A (2.238 kW) is slightly more powerful than Option B (2.2 kW)—essentially equivalent performance.

## **Scenario 3: Cooling Capacity Planning**

A facility requires cooling capacity assessment:

- **Current System: 2 Tons of refrigeration**
- **Future Requirement: 10 kW cooling capacity**

### **Are they compatible?**

Convert 2 TR to kW:

- $2 \text{ TR} \times 3.517 = \mathbf{7.034 \text{ kW}}$

**Answer:** Your current system provides 7.034 kW, but you need 10 kW. You require approximately **0.85 additional tons (3 TR total)** of refrigeration capacity.

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## Essential Conversion Formulas for Quick

### Reference

#### Power Conversions

- text•  $\text{Watts} = \text{HP} \times 746$
- $\text{HP} = \text{Watts} \div 745.7$
  - $\text{kW} = \text{Watts} \div 1000$
  - $\text{kVA} = \text{kW} \div \text{Power Factor}$

#### Current Conversions

- text•  $\text{Amps (Single Phase)} = \text{Watts} \div (\text{Volts} \times \text{PF})$
- $\text{Amps (Three Phase)} = \text{Watts} \div (\text{Volts} \times 1.732 \times \text{PF})$
  - $\text{Amps from kVA (Single Phase)} = (\text{kVA} \times 1000) \div \text{Volts}$
  - $\text{Amps from kVA (Three Phase)} = (\text{kVA} \times 1000) \div (\text{Volts} \times 1.732)$

#### Cooling Capacity Conversions

- text•  $\text{kW} = \text{Tons of Refrigeration} \times 3.517$
- $\text{Tons of Refrigeration} = \text{kW} \div 3.517$
  - $\text{BTU/hour} = \text{Tons} \times 12,000$

#### Resistance Conversions

- text•  $1 \text{ k}\Omega = 1,000 \text{ }\Omega$  ?
- $1 \text{ M}\Omega = 1,000,000 \text{ }\Omega$  ?
  - $1 \text{ G}\Omega = 1,000,000,000 \text{ }\Omega$  ?
-

# Common Mistakes in Electrical Unit Conversions

## Mistake 1: Confusing kW and kVA

❑ **Wrong:** “My equipment is rated 5 kVA, so it uses 5 kW of power”

❑ **Correct:** “My equipment is rated 5 kVA. At PF = 0.8, it uses  $5 \times 0.8 = 4$  kW of power”

*\*Impact: Underestimating power consumption leads to undersized electrical service and system failures.*

## Mistake 2: Ignoring Power Factor in Amperage Calculations

❑ **Wrong:** Amps = kW ÷ Volts (assumes PF = 1.0, unrealistic)

❑ **Correct:** Amps = (kW × 1000) ÷ (Volts × PF)

*\*Impact: Incorrect wire sizing, oversized breakers, potential fire hazard.*

## Mistake 3: Using Standard Ton Instead of Refrigeration Ton

❑ **Wrong:** Treating “1 ton” as weight measurement (2,000 lbs) in cooling calculations

❑ **Correct:** 1 Ton of Refrigeration = 3.517 kW (cooling capacity)

*\*Impact: Complete system specification failure and equipment incompatibility.*

## Mistake 4: Mixing Mechanical and Electrical Horsepower

- **Wrong:** Using different conversion constants interchangeably
- **Correct:** Mechanical HP = 745.7 W; Electrical HP = 746 W (minimal but important distinction)

*\*Impact: Small calculation errors accumulate across large installations.*

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## Professional Recommendations and Best Practices

### For Equipment Specification

1. **Always demand complete electrical specifications** from equipment manufacturers including:
  - Voltage and phase requirements
  - Rated amperage at full load
  - Power factor rating
  - Locked rotor current (inrush current)
  - Thermal protection rating
2. **Use conversion factors with appropriate precision:**
  - Use **745.7** for mechanical horsepower
  - Use **746** for electrical motors
  - Round final amperage calculations UP (safety margin)
  - Add 25% safety factor to breaker sizing
3. **Verify cooling capacity units explicitly:**
  - Request capacity in **both kW and tons** for clarity

- Confirm US standard (3.517 kW/ton) vs. metric variant
- Document in writing on all specifications

## **For Installation Planning**

- 1. Conduct electrical load analysis** before selecting equipment:
  - Calculate total system amperage at full load
  - Verify main panel capacity (typically 150-200A residential)
  - Plan wire gauges and breaker ratings accordingly
- 2. Test and verify before final connection:**
  - Measure actual voltage at equipment location
  - Confirm phase rotation on three-phase systems
  - Verify ground and neutral continuity
  - Perform insulation resistance test (motor windings should show >100 MΩ)
- 3. Document all conversions and calculations:**
  - Keep conversion records with project files
  - Create equipment specification sheets with all units converted
  - Maintain electrical drawings with load calculations
  - This protects against future confusion and liability

## **For Troubleshooting and Maintenance**

- 1. Use amperage measurements to diagnose problems:**
  - Running amperage 25% above rated = efficiency loss or fault developing
  - Running amperage 50%+ above rated = immediate failure risk
  - Lower than rated = undersized equipment or system problem

## 2. Resistance testing identifies electrical faults:

- 100 MΩ insulation = healthy motor
- 1-100 MΩ = moisture contamination (drying needed)
- <1 MΩ = winding fault (motor replacement required)

## 3. Maintain conversion reference materials:

- Print this guide for field use
- Create job-specific conversion sheets
- Cross-reference with manufacturer datasheets

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# Industry Standards and Regulatory Context

## Standards Organizations

- **ASHRAE** (American Society of Heating, Refrigerating and Air-Conditioning Engineers): Establishes HVAC standards including measurement units
- **IEEE** (Institute of Electrical and Electronics Engineers): Defines electrical conversion standards
- **IEC** (International Electrotechnical Commission): Global standard for electrical units
- **NEMA** (National Electrical Manufacturers Association): US motor and equipment standards

## Regional Measurement Preferences

Region	Preferred Units	Voltage Standards	Frequency
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<b>United States</b>	HP, Watts, Tons, 240V/480V	120V/240V (residential)	60 Hz
<b>European Union</b>	kW, Watts, Metric Tonnes, 380V/400V	230V/400V standard	50 Hz
<b>Asia-Pacific</b>	Mixed (HP and kW), 380V/415V	Varies by country	50 Hz typical
<b>Middle East/Africa</b>	Increasingly metric (kW), 380V/400V	230V/380V common	50 Hz

**Professional Note:** Always verify local electrical codes before installation. Equipment must comply with regional voltage standards and frequency requirements.

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## Conclusion: Mastery of Unit Conversions Ensures Project Success

Understanding electrical and refrigeration unit conversions is not merely academic—it's **practical knowledge that prevents costly mistakes, ensures safety, and optimizes system performance**. Whether you're selecting a compressor, calculating electrical loads, or diagnosing operational problems, these conversion formulas and reference tables will serve you reliably.

The key principles:

- **Know your source data** (always convert from verified specifications)
- **Document your calculations** (maintain audit trail of all conversions)
- **Apply safety factors** (always round up for circuit breaker sizing)

- **Cross-reference conversions** (verify using multiple methods when critical)
- **Maintain current reference materials** (standards evolve; stay informed)

**Mbsm.pro** and **Mbsmgroup** recommend bookmarking this conversion guide and maintaining printed copies in your field toolkit. When precision matters—and in refrigeration and HVAC, it always does—having immediate access to accurate conversion data eliminates guesswork and prevents operational failures.

**For specialized equipment specifications, technical datasheets, or installation support, refer to manufacturer documentation and consult with qualified HVAC professionals in your region.**

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## About the Author's Expertise

This comprehensive guide reflects years of practical HVAC and refrigeration experience. **Mbsm.pro** specializes in detailed technical documentation for refrigeration equipment, creating resources that bridge the gap between manufacturer specifications and field application. Our content serves HVAC professionals, refrigeration engineers, and technical students who demand accuracy and practical applicability.

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## KEY TAKEAWAYS

- ✓ **1 HP = 746 watts** (fundamental conversion for all HVAC work)
- ✓ **1 Ton of Refrigeration = 3.517 kW** (cooling capacity standard)

- ✓ **kW ≠ kVA** (always account for power factor in electrical calculations)
- ✓ **Power Factor matters** (typically 0.8-0.95 in HVAC equipment)
- ✓ **Verify voltage and phase** before every installation (240V single-phase vs. 380V three-phase)
- ✓ **Use proper wire sizing** (undersized wiring creates fire hazards)
- ✓ **Document all conversions** (maintain specifications for future reference)

1 HP	746 WATT
1 AMPS	240 WATT, {V=240}
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1 KW	0.746 KW
1 KVA	1.74 AMPS, {P.F=0.8}
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