

LRA to TON Conversion Made Easy

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HOW TO CONVERT

LRA to TON

You can convert Locked Rotor Amps (LRA) to Tons (TON) using the formula below.

1 PHASE



FORMULA

$$\text{Ton} = \frac{\text{LRA}}{36}$$

EXAMPLES

If LRA = 54

$$\text{Ton} = \frac{54}{36} = 1.5 \text{ Ton}$$

If LRA = 90

$$\text{Ton} = \frac{90}{36} = 2.5 \text{ Ton}$$

COMPONENT: COMPRESSOR



LRA

Locked Rotor Amps
(Starting Current)



TON

Cooling Capacity



36

Conversion Factor

WHAT IS LRA?

LRA (Locked Rotor Amps) is the maximum current drawn by the compressor at startup when the rotor is locked.

WHAT IS TON?

TON (Tonnage) is the cooling capacity of the AC system.

QUICK REFERENCE TABLE

LRA (Amps)	36	54	72	90	108	126	144
TON	1.0	1.5	2.0	2.5	3.0	3.5	4.0

KEY POINTS

- ✓ Use LRA value from compressor nameplate.
- ✓ Formula is for 1 Phase AC compressors.
- ✓ Helps in selecting correct capacity system.
- ✓ Always follow manufacturer's specifications.



**SAFE
WORK**

NOTE



This formula is an approximation. Actual tonnage may vary slightly by manufacturer.

LRA to TON Conversion Made Easy!

Learn how to quickly convert Locked Rotor Amps (LRA) into AC Tonnage (TON) for 1-phase compressors using this simple formula:

Useful for HVAC technicians, AC installers, and refrigeration professionals.

Helps estimate cooling capacity from compressor nameplate data.

Quick reference examples:

- 54 LRA = 1.5 TON
- 90 LRA = 2.5 TON

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