

Industrial Demand Load Calculator

Estimate coincident industrial demand from entered load blocks and reviewed process demand factors.

Generated October 10, 2026

<https://www.elecatrix.com/commercial-industrial-loads/industrial-demand-load-calculator/>

Inputs

Input	Value	Unit
Process load	40	kW
Motor load	30	kW
Heating load	15	kW
Support load	10	kW
Process demand factor	80	%
Motor demand factor	70	%
Heating demand factor	60	%
Support demand factor	50	%
Entered capacity	75	kW

Results

Result	Value	Unit
Connected industrial load	95	kW
Coincident demand	67	kW
Largest load block	40	kW
Capacity margin	8	kW

Calculation details

Detail	Value	Unit
Calculation basis	Industrial demand worksheet applies entered demand factors to entered load blocks.	

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Review boundary

Industrial planning arithmetic only;
no process validation,
motor/protection setting, utility
study, service sizing, or code
decision is made.

Formulas

$\text{connected industrial load} = \text{process} + \text{motor} + \text{heating} + \text{support loads}$

$\text{coincident demand} = \text{sum}(\text{each load block} \times \text{its demand percent} / 100)$

$\text{largest load block} = \text{maximum entered load block}$

$\text{capacity margin} = \text{entered capacity} - \text{coincident demand}$

Warnings and limitations

Industrial planning arithmetic only; this calculator does not approve industrial service or feeder sizing, process validation, motor/protection settings, utility study, or code decisions.