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Rules Of Thumb

Air Compressors:

1. Air compressors are normally rated to deliver 4 to 5 CFM per horsepower at 100 PSIG discharge pressure.
2. Depending on the size of the system, compressed air costs about 25 to 42 cents per thousand cubic feet of free air ingested by the compressor (including operating and maintenance costs).
3. A 50 horsepower compressor rejects approximately 126,000 BTU per hour for heat recovery.
4. Motor amperage draw:

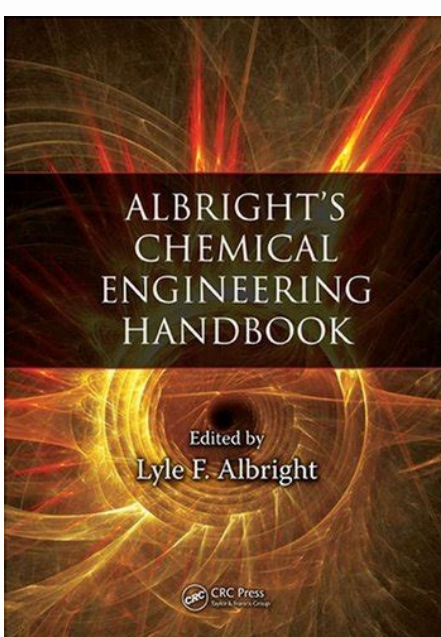
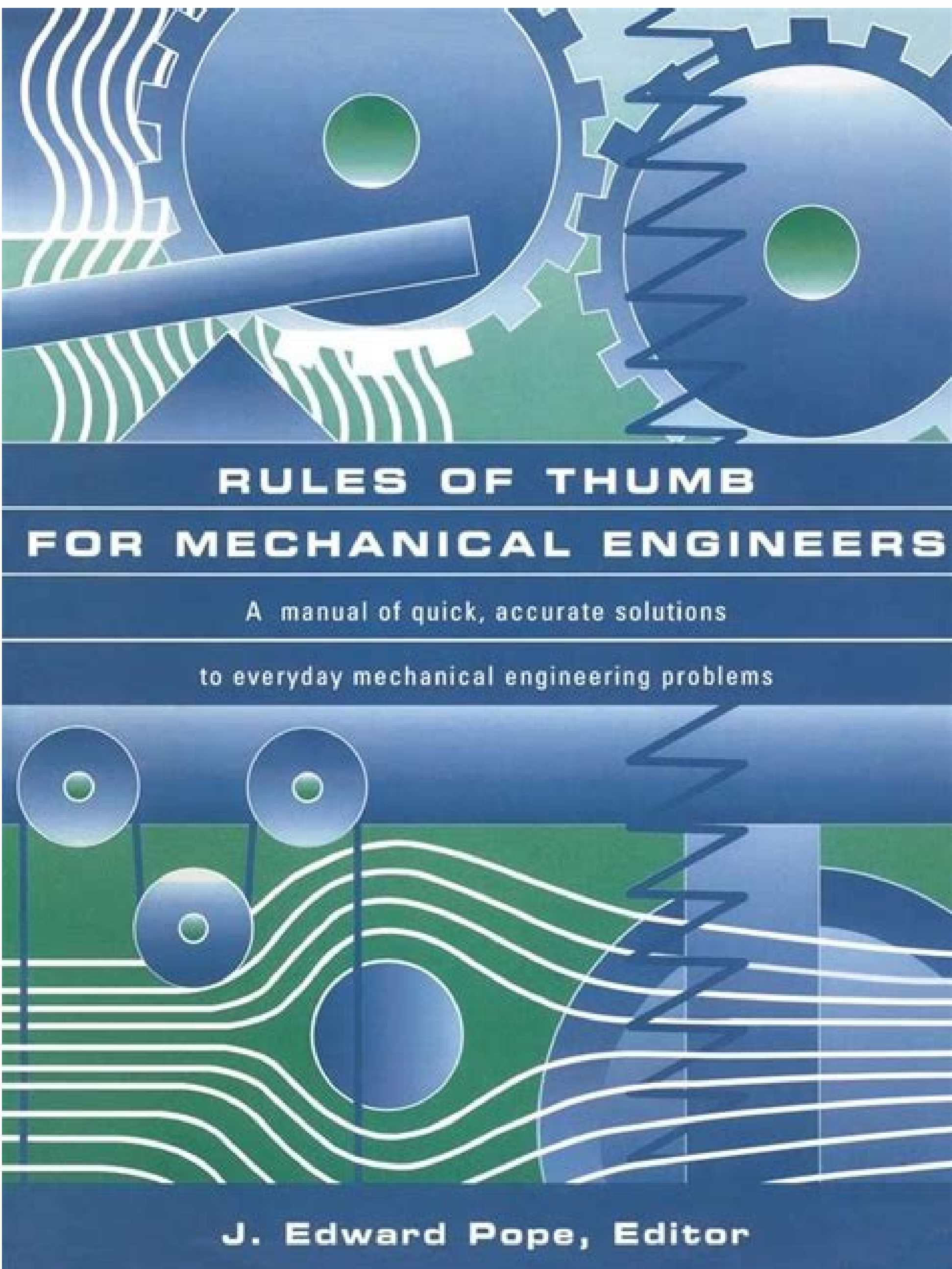
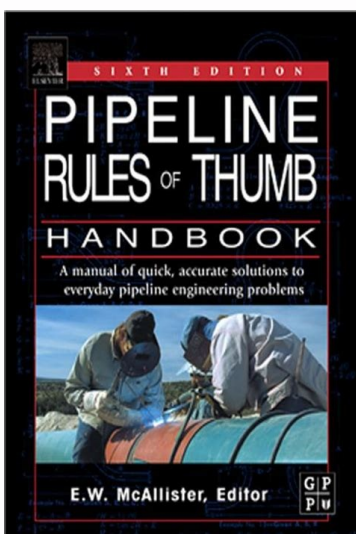
1 Phase	115V - 10 Amps per HP
	230V - 5 Amps per HP
3 Phase	230V - 2.50 Amps per HP
	460V - 1.25 Amps per HP

Air Receivers:

1. Size air receiver tanks for about 1 gallon capacity for each CFM of rotary compressor capacity. Standard receiver tank sizes are listed below:

Gal.	Dimensions	Gal.	Dimensions
30	16" x 38"	400	36" x 96"
60	20" x 48"	660	42" x 117"
90	20" x 63"	1060	48" x 144"
120	24" x 68"	1600	54" x 170"
200	30" x 72"	220	60" x 190"
240	30" x 84"	2560	60" x 220"

2. Cubic Feet: Gallons x 0.13368



HVAC Equations, Data, and Rules of Thumb, 2nd Ed.

By Arthur Bell

HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Description:

The Latest Information and "Tricks of the Trade" for Achieving First-Rate HVAC Designs on Any Construction Job!

HVAC Equations, Data, and Rules of Thumb presents a wealth of state-of-the-art HVAC design information and guidance, ranging from air distribution to piping systems to plant equipment. This popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards.

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- Over 200 equations for everything from ductwork to air-handling systems
- ASME and ASHRAE code specifications
- Over 350 rules of thumb for cooling, heating, ventilation, and more
- New material including: coverage of the new single body of construction codes now used throughout the country

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