

COMPRESSOR SIZING GUIDE



***Consult Your Compressor Supplier- These Are Recommendations Only**

HOW TO USE THIS GUIDE

- Always size compressors based on airflow (SCFM), not horsepower
- Recommendations include a ~25% safety margin for hose loss, fittings, and real world conditions
- When in doubt -> size up one level, especially for long hose runs or jobsite use

COMPRESSOR RECOMMENDATIONS BY AIR SKID SYSTEM

Small Systems (Shop-Friendly Electric Compressors)

MODEL	CONFIGURATION	REQUIRED AIRFLOW	MINIMUM COMPRESSOR	RECOMMENDED COMPRESSOR
AF01012	Set of 4	44 SCFM	15 hp rotary screw	15 hp rotary screw
AF01012	Set of 6	66 SCFM	20 hp rotary screw	20 hp rotary screw
AF01017	Set of 4	64 SCFM	20 hp rotary screw	20 hp rotary screw
AF01017	Set of 6	96 SCFM	25 hp rotary screw	25 hp rotary screw
AF01020	Set of 4	72 SCFM	20 hp rotary screw	20 hp rotary screw
AF01020	Set of 6	108 SCFM	25 hp rotary screw	20-30 hp rotary screw

MODEL	CONFIGURATION	REQUIRED AIRFLOW	MINIMUM COMPRESSOR	RECOMMENDED COMPRESSOR
AF01024	Set of 4	88 SCFM	25 hp rotary screw	25 hp rotary screw
AF01024	Set of 6	132 SCFM	30 hp rotary screw	30 hp rotary screw (or 185 CFM diesel)
AF01030	Set of 4	112 SCFM	30 hp rotary screw	30 hp rotary screw
AF01030	Set of 4	112 SCFM	30 hp rotary screw	30 hp rotary screw
AF01030	Set of 6	168 SCFM	40 hp rotary screw	185 CFM diesel or 50 hp screw



Large Systems (Field / Heavy Industrial Applications)

MODEL	CONFIGURATION	REQUIRED AIRFLOW	MINIMUM COMPRESSOR	RECOMMENDED COMPRESSOR
AF01036	Set of 4	140 SCFM	40-50 hp screw	185 CFM diesel or 50hp screw
AF01036	Set of 6	210 SCFM	50 hp screw	375 CFM diesel
AF01048	Set of 4	188 SCFM	50 hp screw	375 CFM diesel
AF01048	Set of 6	282 SCFM	75 hp screw	375 CFM diesel (minimum)
AF01048	Set of 6	282 SCFM	75 hp screw	375 CFM diesel (preferred) 600CFM diesel (preferred)

Quick Selection Rules (Sales + Field Use)

1. Match the Use Case

- Indoor / plant use -> Electric rotary screw compressor
- Outdoor / mobile -> Towable diesel rotary screw

2. Use These Fast Rules of Thumb

REQUIRED AIRFLOW	RECOMMENDED COMPRESSOR
UP TO 100 SCF	Type 15-25 hp electric rotary
100-150 SCFM	screw 25-30 hp electric rotary
150-200 SCFM	screw 25-30 hp or 185 CFM
200-300 SCFM	diesel 375 CFM diesel
300+ SCFM	375-600 CFM diesel



3. When to Size Up

Recommend the next size up if:

- Hose length > 50–100 ft
- Multiple hose connections / fittings
- Lower supply pressure (<100 PSI)
- Outdoor or uneven floor conditions

Best Practice Setup (What to Recommend Along With Compressor)

For best performance and fewer issues:

- **Air receiver tank** (stabilizes flow)
- **1"–1.5" supply hose** for larger systems
- **High-flow fittings** (avoid restrictive couplers)
- **Dryer/filters** (recommended for indoor systems)