

HPC

KAESER COMPRESSORS

HPC KAESER supply superior quality screw and piston compressors into trade and workshop applications with a reliable supply of super-efficient high quality compressed air, options include air receivers, refrigerant & desiccant dryer's, oil & water separators and filters.

HPC Kaeser compressors are supported by a 12 months warranty for parts and labour.

A 5 Year No Quibble warranty is also available subject to a service contract.

SIZING AUTOMOTIVE / GARAGE COMPRESSOR

Mechanical Workshop - factors to consider:

- Number of technicians requiring compressed air?
- Motor car or Commercial vehicle operation?
- Single or double shift?

Typical Volume of Air Required:

- For cars = approx. 5 cfm per air operated tool
- For commercial vehicles = approx. 15 cfm per ¾" or 1" air tool

Sizing Calculation:

Multiply the number of technicians by the air volume: -

i.e. 10 car technicians x 5 cfm = approx. 50 cfm

4 commercial vehicle technicians x 15 cfm = 60 cfm

Total approximate air demand = 110 cfm

Multiply this by a usage/correction factor of 30% and the actual

F.A.D.* required can be estimated as = **33 cfm**

Working Pressure:

For a Mechanical Workshop the working pressure of the compressor installation should be a minimum of 7.5 bar (109psi) but ideally should be sized at 10 bar (145psi).

For Commercial vehicle applications pressure may be required up to 14 bar (203psi) but consideration should be given to the maximum working pressure of any existing pipework or equipment.



AIRCENTER (Compressor, Dryer & Air receiver)



RM (Receiver mount Air Compressor)

The Bodyshop - factors to consider:

- Number of technicians requiring compressed air?
- Number of spray booths?
- consider any future expansion (10-15 years)

The Volume of Air Required: (approximate)

- 15 cfm per air operated tool (i.e. cutter, grinder, polisher)
- 18 cfm for an HVLP spray gun
- 7 cfm for an air fed mask/visor
- 5 cfm for a strip and trim operation

Sizing Calculation:

Multiply the number of operatives by the work undertaken: -

e.g. a large bodyshop with 3 booths and 18 operatives:

3 painters @ 25cfm each (HVLP gun & mask) = 75 cfm

13 operatives @ 15 cfm each = 195 cfm

2 strip and trim operatives @ 5 cfm each = 10 cfm

Total approximate air demand = 280 cfm

Multiply this by a usage/correction factor of 40% and the actual

F.A.D.* required can be estimated as = **112 cfm**

Two possible options to consider would be:

- a single compressed air machine package
- a duplex compressed air machine package with SIGMA Control units

Working Pressure:

For a bodyshop the working pressure of the compressor installation should be a standard of 7.5 bar (109psi).



T (Air Compressor with integrated Dryer)



SXC (Air Compressor, Dryer & Air receiver)



Piston Air Compressor



SX, SM, SK (Air Compressor models)



Air receivers



Air Treatment and Condensate Solutions

Motor Size	HPC Model	Capacity F.A.D.		Working Pressure
		m ³ /min	cfm	bar
2.2 kW	SXC3	0.34	12	7.5 (MWP 8)
	SX3			
	SX3RM	0.26	9.2	10 (MWP 11)
	SX3T			
	AIRCENTER 3			
3 kW	SXC4	0.45	15.9	7.5 (MWP 8)
	SX4			
	SX4RM	0.36	12.7	10 (MWP 11)
	SX4T			
	AIRCENTER 4			
4 kW	SXC6	0.60	21.2	7.5 (MWP 8)
	SX6			
	SX6RM	0.48	16.9	10 (MWP 11)
	SX6T			
	AIRCENTER 6			
5.5 kW	SXC8	0.80	28.3	7.5 (MWP 8)
	SX8			
	SX8RM	0.67	23.7	10 (MWP 11)
	SX8T			
	AIRCENTER 8			
5.5 kW	SM10	0.94	33.2	7.5 (MWP 8)
	SM10RM	0.78	27.5	10 (MWP 11)
	SM10T			
	AIRCENTER 10	0.60	21.2	13 (MWP 15)
7.5 kW	SM13	1.32	46.6	7.5 (MWP 8)
	SM13RM	1.08	38.1	10 (MWP 11)
	SM13T			
	AIRCENTER 13	0.85	30.0	13 (MWP 15)
9 kW	SM16	1.62	57.2	7.5 (MWP 8)
	SM16RM	1.36	48.0	10 (MWP 11)
	SM16T			
	AIRCENTER 16	1.09	38.5	13 (MWP 15)
11 kW	SK22	2.00	70.6	7.5 (MWP 8)
	SK22T	1.68	59.3	10 (MWP 11)
	AIRCENTER 22	1.32	46.6	13 (MWP 15)
15 kW	SK25	2.50	88.3	7.5 (MWP 8)
	SK25T	2.11	74.5	10 (MWP 11)
	AIRCENTER 25	1.72	60.7	13 (MWP 15)