

# 12 COMPRESSORS

WITH MORE THAN 30 YEARS OF DEVELOPMENT AND INNOVATION, SP COMPRESSORS IS A BRAND NAME SYNONYMOUS WITH QUALITY AND ENDURANCE. WHETHER YOU'RE USING AIR FOR THE CONSTRUCTION OR AUTOMOTIVE INDUSTRY, WE HAVE A PACKAGE TO SUIT YOUR NEEDS

## CONVERSION CHART - COMPRESSORS & AIR TOOLS

CFM: L/MIN

CUBIC FEET PER MINUTE (CFM)	LITRES PER MINUTE (L/MIN)	CUBIC FEET PER MINUTE (CFM)	LITRES PER MINUTE (L/MIN)	CUBIC FEET PER MINUTE (CFM)	LITRES PER MINUTE (L/MIN)
5	142	19	538	33	934
6	170	20	566	34	962
7	198	21	594	35	991
8	226	22	623	36	1019
9	255	23	651	37	1047
10	283	24	679	38	1075
11	311	25	708	39	1104
12	340	26	736	40	1132
13	368	27	764	41	1160
14	396	28	792	42	1189
15	425	29	821	43	1217
16	453	30	849	45	1274
17	481	31	877	46	1302
18	509	32	906	47	1330

### SUB-CATEGORIES:

DIRECT DRIVE AIR COMPRESSORS	424
BELT DRIVE AIR COMPRESSORS	425
BELT DRIVE AIR COMPRESSORS - 3 PHASE	427
COMPRESSOR PUMPS	429



# CHOOSING THE RIGHT COMPRESSOR

Compressed air is the preferred choice of many work sites and workshops around the world. It is clean, simple to use and readily available.

Selecting the right compressor to suit your needs is very important. Purchasing a compressor that produces more air than you need will end up costing you money over time and purchasing a compressor that is too small for your needs will cost you valuable time, costing money. Consider the below points selecting your compressor:

## TOTAL AIR CONSUMPTION REQUIREMENT

For your air tools to work correctly your compressor needs to be able to supply them with enough air flow (L/min or CFM) at the correct pressure (PSI or BAR). This information should be provided with the air tool instruction manual or be available from the tool manufacturer, it may also be noted on the tool itself.

For example, an impact wrench may have an air consumption of 350 L/min at a required pressure of 90 PSI. The amount of air a compressor can provide is known as Free Air Delivery (FAD). When choosing your compressor you need to ensure that the compressor's FAD meets or exceeds the requirement of the tool or tools that will be connected to it. To run the impact wrench that requires 350 L/min, your compressor needs to be able to provide a FAD of at least 350 L/min. However, if you were going to be running the impact wrench (350 L/min) at the same time as air saw (200 L/min), the FAD of the compressor would need to be 550 L/min (350 + 200).

## AIR PRESSURE REQUIREMENT

As well as FAD your compressor needs to be able to deliver the air at a high enough pressure to allow correct operation of the tool or tools. The entire range of SP compressors are all rated at 145 PSI (10 BAR), this will allow for most air tools with a higher PSI requirement to run using an SP compressor.

The use of a regulator will allow for you to reduce the pressure supply if a lower operating pressure is required (please note that running a tool above the recommended operating pressure can be dangerous and may lead to damage of the tool).

## PORTABLE OR STATIONARY USE

Do you need to transport your compressor to the work site or will your compressor be a part of a stationary set up in a workshop? With the exception of our stationary 3 Phase compressors, all other SP compressors are considered portable.

If you need to be able to move your compressor around easily though you may be limited on size and you will also need to consider the availability of the power available on worksites i.e., the location of the power outlet and is it 10 or 15 Amp?

If electrical power is not going to be available you may want to consider a petrol powered compressor, remembering these should only be operated outdoors (never in an enclosed environment).

If using electricity to power your compressor, consider its location to the power outlet, it is always preferable to connect the compressor to the outlet without the need to use an extension lead. Extension leads can reduce the amount of power available to the motor causing it to overheat. Always opt to use longer air hose over an extension lead where possible.

Whenever using or locating your compressor, portable or stationary, ensure the area around it is large enough to allow adequate ventilation so that the compressor does not overheat.

## HOW ARE THE TOOLS BEING RUN ON YOUR COMPRESSOR BEING USED?

It is important to consider the type and amount of use of the tools being used. For example, is the work environment a workshop or tyre shop where the tools are being used intermittently or in short bursts, or are they a part of a production line where continuous FAD is required such as a paint shop or an assembly line?

SP compressors are Reciprocating Compressors, this type of compressor offers numerous advantages in efficiency and versatility and they generally cost less to purchase and maintain.

All SP compressors have storage tanks which the compressor pump forces air into until it reaches its upper set pressure limit and the compressor shuts off. When the air in the tank is being used up by a tool, the pressure inside the tank decreases to the lower pressure limit, at this point the compressor turns itself on to re-pressurise the tank (or continue to provide FAD until the tool is shut off and the tank can re-pressurise).

Large amounts of heat can be produced when compressing air and this needs to be managed to prevent damage to the compressor. Once the compressor reaches the upper set pressure limit in the tank it shuts off the compressor giving it time to cool. Reciprocating compressors have a 50% duty cycle, meaning that the unit requires roughly an equal amount of time to cool as it has taken to pressurise the storage tank. However, if the tool being used quickly consumes the air in the tank and the compressor must turn on more frequently to re-pressurise, the amount of time the compressor has to cool is greatly reduced.

If you are going to be using a tool or tools that have a higher air consumption, or you are going to be using tools in a continuous manner you will need to look at compressors with a higher FAD (greater than the consumption of the tool being used) and/or a larger capacity storage tank to prevent overheating and premature wear and tear on your compressor.

If your application requires a continuous FAD such as a paint shop, then you may need to consider a different type of compressor that is designed to provide a 100% duty cycle such as a Rotary Screw Compressor. These tend to be much more expensive to purchase and maintain and can, if not correctly sized to your application, greatly increase your energy costs.

## THINGS TO CONSIDER:

- Extra capacity, do you think you will require extra capacity in the future? If so, it would be worth considering this in your purchase.
- Location, try to locate your electric compressor close to the power source. Avoid using extension leads wherever possible, it is better practice to use a longer air hose.
- Check before your purchase whether you require a 10 Amp, 15 Amp single phase or 3 Phase power outlet.
- Ventilation, ensure there is adequate ventilation for your unit to cool. Avoid placing hard up against a wall, or under a low ceiling that prevents airflow via the cooling fins on the compressor pump and motor fan.
- Pressure regulation, to prevent damage to your tools regulate your pressure using either the regulator at the compressor outlet or via individual regulators at the air outlets in your workshop.

DON'T BUY AN INFERIOR PRODUCT



AIR COMPRESSOR RATING IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 4637-2006

## COMPRESSED AIR REQUIREMENTS GUIDE (FAD L/MIN)

AIR TOOL	75 - 100 L/MIN	100 - 180 L/MIN	180 - 250 L/MIN	250 - 500 L/MIN	500 - 1000 L/MIN
TYRE INFLATOR	✓	✓	✓	✓	✓
NAILER GUNS & STAPLERS	✓	✓	✓	✓	✓
RIVETERS UP TO 1/4"	✓	✓	✓	✓	✓
GREASE GUN	✓	✓	✓	✓	✓
TOUCH UP SPRAY GUN	✓	✓	✓	✓	✓
CAULKING GUN	✓	✓	✓	✓	✓
LOW PRESSURE PUTTY GUN	✓	✓	✓	✓	✓
ENGINE CLEANER SPRAY GUN	●	✓	✓	✓	✓
DUSTING BLOW GUN	●	✓	✓	✓	✓
SPRAY GUN HVLP	○	●	✓	✓	✓
RATCHET WRENCH	○	●	✓	✓	✓
IMPACT WRENCH 1/4" & 3/8"	○	●	✓	✓	✓
SCREW GUN	✗	○	●	✓	✓
SPRAY GUN HP	✗	○	●	✓	✓
NEEDLE SCALER	✗	○	●	✓	✓
IMPACT WRENCHES 1/2"	✗	○	●	✓	✓
DRILL 3/8" Dr	✗	○	●	✓	✓
DRILL 1/2" Dr	✗	○	●	✓	✓
DIE GRINDER 1/4" 20,000RPM	✗	○	●	✓	✓
IMPACT WRENCH 3/4"	✗	✗	○	●	✓
SAND BLASTING	✗	✗	○	●	✓
BODY SANDER 6"	✗	✗	○	●	✓
GRINDERS 4" to 5"	✗	✗	○	●	✓

✓ RECOMMENDED ● OCCASIONAL/SPOT USE ONLY ○ VERY LIMITED USE (NOT RECOMMENDED) ✗ NOT SUITABLE

The chart is a guide only. Compare air tool usage with your compressors free air delivery (FAD), where the tools air consumption is more than the compressors free air delivery, a larger tank will increase the duration of spot usage. In such cases you must allow the compressor to recover between each use of the air tool.

**DIRECT DRIVE AIR COMPRESSORS**

SP11-12X

**2.2HP AIR COMPRESSOR  
TRADE DUTY  
PORTABLE - UTE PACK**

**SPECIFICATIONS**

- Direct Drive
- 126L/min FAD
- 150psi (10Bar)
- 10lt Tank
- 240Volts/10amp
- Filter/Regulator

**FEATURES**

- Built tough & compact - Ideal for mobile applications - Fits under Tonneau style ute lids
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- After cooler on direct drive models
- Soft start valve
- Copper wound motor
- Cast iron cylinder
- Thermal reset switch

865(L) x 400(w) x 518(h)mm



10 LITRE TANK

31Kg

LOW PROFILE

COMPACT

BUILT TOUGH

SP11-40X

**2.2HP AIR COMPRESSOR  
TRADE QUALITY  
PORTABLE  
TRADITIONAL**

**SPECIFICATIONS**

- Direct Drive
- 126L/min FAD
- 150psi (10Bar)
- 36lt Tank
- 240Volts/10amp
- Filter/Regulator

**FEATURES**

- Lightweight & high trade quality
- One man lift
- Larger tank capacity
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- After cooler on direct drive models
- Soft start valve
- Copper wound motor
- Cast iron cylinder
- Thermal reset switch

630(L) x 360(w) x 680(h)mm



37Kg

36 LITRE TANK

SP12-16X

**2.5HP AIR COMPRESSOR  
TRADE QUALITY  
PORTABLE**

**SPECIFICATIONS**

- Direct Drive
- 182L/min FAD
- 150psi (10Bar)
- 2x 8lt Tank
- 240Volts/10amp
- Filter/Regulator

**FEATURES**

- Built tough & compact - Ideal for mobile applications
- The ultimate builders companion
- Top handle
- Full brass non-return valve
- Copper delivery pipe
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- After cooler
- Soft start valve
- Copper wound motor
- Cast iron cylinder
- Thermal reset switch

250(L) x 430(w) x 410(h)mm



26Kg

LOW PROFILE

COMPACT

BUILT TOUGH

2x 8 LITRE TANKS

CONTINUED **DIRECT DRIVE AIR COMPRESSORS**

SP12-50X

**2.5HP AIR COMPRESSOR  
TRADE QUALITY  
PORTABLE**

**SPECIFICATIONS**

- Direct Drive
- 182L/min FAD
- 150psi (10Bar)
- 50lt Tank
- 240Volts/10amp
- Filter/Regulator

**FEATURES**

- The ultimate builders companion
- Able to run all nail guns
- One man lift
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- After cooler on direct drive models
- Soft start valve
- Copper wound motor
- Cast iron cylinder
- Thermal reset switch

800(L) x 360(w) x 710(h)mm



56Kg

50 LITRE TANK

**BELT DRIVE AIR COMPRESSORS**

SP13-50X

**2.2HP AIR COMPRESSOR  
CAST IRON V-TWIN  
PORTABLE**

**SPECIFICATIONS**

- Belt Drive
- 194L/min FAD
- 150psi (10Bar)
- 50lt Tank
- 240Volts/10amp
- Filter/Regulator

**FEATURES**

- Ideal for the builders gang
- Will run several air tools at once
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Thermal reset switch

800(L) x 400(w) x 700(h)mm



71Kg

50 LITRE TANK

SP14

**2.5HP AIR COMPRESSOR  
CAST IRON V-TWIN  
PORTABLE**

**SPECIFICATIONS**

- Belt Drive
- 260L/min FAD
- 150psi (10Bar)
- 60lt Tank
- 240Volts/10amp
- Filter/Regulator

**FEATURES**

- Ideal for commercial applications
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection

950(L) x 370(w) x 780(h)mm



60Kg

60 LITRE TANK

**BELT DRIVE AIR COMPRESSORS** CONTINUED

SP17

**3HP AIR COMPRESSOR  
CAST IRON V-TWIN  
PORTABLE - 15AMP**

**SPECIFICATIONS**

- Belt Drive
- 318L/min FAD
- 150psi (10Bar)
- 60lt Tank
- 240Volts/15amp
- Filter/Regulator

**FEATURES**

- Ideal for commercial applications
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection

950(L) x 370(w) x 780(h)mm



SP17P

**6.5HP AIR COMPRESSOR  
CAST IRON V-TWIN  
PETROL DRIVEN**

**SPECIFICATIONS**

- Belt Drive
- 356L/min FAD
- 150psi (10Bar)
- 60lt Tank
- Filter/Regulator

**FEATURES**

- Take anywhere & will run several air tools at once
- Ideal for commercial applications
- 6.5hp Torini OHV 4 Stroke Engine
- V-Twin Pump with alloy heads
- Full brass non-return valve
- Copper delivery pipe
- 254mm (10") PU flatfree wheel
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve

1005(L) x 490(w) x 790(h)mm



SP18

**3HP AIR COMPRESSOR  
CAST IRON TRIPLE  
PORTABLE - 15AMP**

**SPECIFICATIONS**

- Belt Drive
- 385L/min FAD
- 150psi (10Bar)
- 60lt Tank
- 240Volts/15amp
- Filter/Regulator

**FEATURES**

- Ideal for commercial applications
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection

1020(L) x 440(w) x 890(h)mm



CONTINUED **BELT DRIVE AIR COMPRESSORS**

SP1800

**3HP AIR COMPRESSOR  
CAST IRON TRIPLE  
PORTABLE - 15AMP**

**SPECIFICATIONS**

- Belt Drive
- 385L/min FAD
- 150psi (10Bar)
- 100lt Tank
- 240Volts/15amp
- Filter/Regulator

**FEATURES**

- Ideal for commercial applications
- Full brass non-return valve
- Copper delivery pipe
- 200mm (8") solid rubber wheels
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection

1150(L) x 450(w) x 900(h)mm



**BELT DRIVE AIR COMPRESSORS - STATIONARY**

SP25

**5.5HP AIR COMPRESSOR  
CAST IRON V-TWIN  
STATIONARY  
3 PHASE**

**SPECIFICATIONS**

- Belt Drive
- 508L/min FAD
- 150psi (10Bar)
- 200lt Tank
- 3 Phase (415V/50Hz)  
10amp per PH

**FEATURES**

- Ideal for commercial applications
- High efficiency induction motor
- Full brass non-return valve
- Copper delivery pipe
- Independent 3 phase switch box operates by a single phase pressure switch
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection
- Filter/regulator

1470(L) x 490(w) x 1130(h)mm



**BELT DRIVE AIR COMPRESSORS - STATIONARY** CONTINUED

SP35

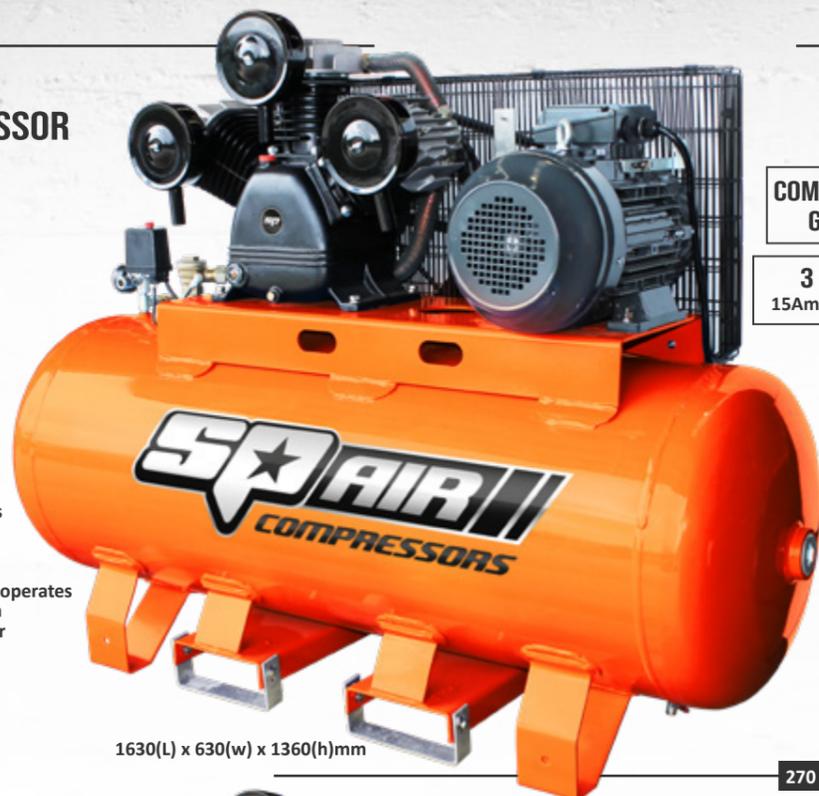
**7.5HP AIR COMPRESSOR  
CAST IRON TRIPLE  
STATIONARY  
3 PHASE**

**SPECIFICATIONS**

- Belt Drive
- 880L/min FAD
- 150psi (10Bar)
- 270lt Tank
- 3 Phase (415V/50Hz)
- 15amp per PH

**FEATURES**

- Ideal for commercial applications
- High efficiency induction motor
- Full brass non-return valve
- Copper delivery pipe
- Independent 3 phase switch box operates by a single phase pressure switch
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection



1630(L) x 630(w) x 1360(h)mm

270 LITRE TANK

254Kg

COMMERCIAL  
GRADE

3 PHASE  
15Amp Per Phase

SP50

**10HP AIR COMPRESSOR  
CAST IRON TRIPLE  
STATIONARY  
3 PHASE**

**SPECIFICATIONS**

- Belt Drive
- 1360L/min FAD
- 150psi (10Bar)
- 270lt Tank
- 3 Phase (415V/50Hz)
- 18amp per PH

**FEATURES**

- Ideal for commercial applications
- High efficiency induction motor
- Full brass non-return valve
- Copper delivery pipe
- Independent 3 phase switch box operates by a single phase pressure switch
- One-touch (Nitto style) connector
- Certified safety valve
- Large oil level sight glass
- Soft start valve
- Copper wound motor
- Cast iron cylinders
- Resettable overload protection



1630(L) x 630(w) x 1360(h)mm

270 LITRE TANK

256Kg

COMMERCIAL  
GRADE

3 PHASE  
18Amp Per Phase

**COMPRESSOR PUMPS**

**COMPRESSOR PUMPS  
CAST IRON V-TWIN - BELT DRIVE**

HORSE POWER	SUITS	MODEL	SPECIFICATIONS
2.2Hp	SP13-50X	260SP	• 150psi • 240Volts/10amp • Nominal FAD: 194~318L/min
2.5Hp	SP14 & SP17	350SP	



**COMPRESSOR PUMPS  
CAST IRON TRIPLE - BELT DRIVE**

HORSE POWER	SUITS	MODEL	SPECIFICATIONS
3.0Hp	SP18 & SP1800	460SP	• 150psi • 240Volts/15amp • Nominal FAD: 385L/min



**COMPRESSOR PUMPS  
CAST IRON V-TWIN - BELT DRIVE  
3 PHASE**

HORSE POWER	FAD	AMP P/PH	SUITS	MODEL	SPECIFICATIONS
5.5Hp	508/min	10Amp	SP25	485SP	• 150psi • 3 Phase (415V/50Hz)



**COMPRESSOR PUMPS  
CAST IRON TRIPLE - BELT DRIVE  
3 PHASE**

HORSE POWER	FAD	AMP P/PH	SUITS	MODEL	SPECIFICATIONS
7.5Hp	880/min	15Amp	SP35	710SP	• 150psi • 3 Phase (415V/50Hz)
10Hp	1360/min	18Amp	SP50	1085SP	

