fiac


WILKINSON STAR

# CONTENTS

# Direct Drive Lubricated



11662170000

### Key Features

- Cast iron cylinder blocks
- Automatic stop/start controls - requires minimum supervision
- Unique soft start - low current start up
- Supplied with a 13A plug
- Filled with oil
- 12 months warranty

| Order Code | Model | HP | Tank Litres | Displacement CFM | Max Pressure PSI | Weight Kg | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|---|
| **1166217000** | COSMOS 255 | 2.0 | 50 | 6 | 116 | 49 | 1 | 940 x 320 x 700 |
| **1129100589** | VX50-360 | 3.0 | 50 | 12.7 | 145 | 62 | 1 | 1070 x 320 x 730 |

# Direct Drive Oil Free

### Key Features

- Automatic stop/start controls - requires minimum supervision
- All 230V models are supplied with 13A plug and cable - ready for use
- Motor overload protection and air receivers to 2014/29EU ensures maximum user protection
- Lightweight with carry handles or wheels, makes this range of compressors convenient and easy to use
- 12 months warranty

| Order Code | Model | HP | Tank Litres | Displacement CFM | Max Pressure PSI | Motor Pump RPM | Weight Kg | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|---|---|
| **1027990000** | LEONARDO | 1.0 | 6 | 3.7 | 116 | 1450 | 17 | 1 | 430 x 187 x 450 |
| **1028010000*** | ECU | 1.5 | 6 | 7.3 | 116 | 2850 | 16 | 1 | 410 x 187 x 450 |
| **1218010000** | FX95 | 1.5 | 24 | 6.0 | 116 | 2850 | 27 | 1 | 650 x 315 x 630 |
| **1369430000** | FX250 | 2.0 | 50 | 8.4 | 116 | 2850 | 46 | 1 | 845 x 320 x 665 |

*110V Option Available


LEONARDO

ECU


FX95


FX250

# Workhorse Belt Drive

## 230V

### Key Features

- Cast iron blocks on all models
- Air receivers built to latest European standards 2014/29EU
- Heavy duty industrial motors c/w overload protection
- Twin cylinder pumps
- Fitted aftercoolers
- Aerodynamic flywheels for efficient cooling
- Slow running pump speeds giving lower noise levels & longer life expectancy
- Automatic stop/start controls
- Full back up by our factory trained engineers
- Built & tested to latest European standards in our modern production facility in Manchester, England
- 2 year conditional warranty


WR3HP-50P-1


WR3HP-100P-1

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WR3HP-50P-1** | 3.0 | 50 | 13 | 9 | 1 | 1010 x 360 x 730 |
| **WR3HP-100P-1** | 3.0 | 100 | 13 | 9 | 1 | 1100 x 400 x 830 |


WR3HP-150S-1


WR3HP-200S-1

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WR3HP-150S-1** | 3.0 | 150 | 13 | 9 | 1 | 1350 x 540 x 1040 |
| **WR3HP-200S-1** | 3.0 | 200 | 13 | 9 | 1 | 1520 x 540 x 1040 |

All above models 10 bar maximum pressure

# Workhorse Belt Drive

## 230V • 400V


WR3HPXX-150S-1


WR3HPXX-200S-1

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WR3HPXX-150S** | 3.0 | 150 | 14 | 10.7 | 1/3 | 1350 x 540 x 1075 |
| **WR3HPXX-200S** | 3.0 | 200 | 14 | 10.7 | 1/3 | 1520 x 540 x 1040 |
| **WR4HP-200S-1*** | 4.0 | 200 | 17.7 | 13.2 | 1 | 1520 x 540 x 1050 |

*Requires 30 Amp Power Supply

### Key Features

- Twin cylinder pumps
- Fitted aftercoolers
- Cast iron blocks on all models
- Automatic stop/start controls
- Air receivers built to latest European standards 2014/29EU
- Heavy duty industrial motors c/w overload protection
- Aerodynamic flywheels for efficient cooling
- Slow running pump speeds giving lower noise levels & longer life expectancy
- Full back up by our factory trained engineers
- Built & tested to latest European standards in our modern production facility in Manchester, England
- 2 year conditional warranty


WRN5.5HP-200S

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WRN5.5HP-200S** | 5.5 | 200 | 21 | 17 | 3 | 1520 x 480 x 940 |
| **WRN5.5HP-270S** | 5.5 | 270 | 21 | 17 | 3 | 1600 x 500 x 1040 |
| **WRN5.5HPXX-200S** | 5.5 | 200 | 23 | 18.5 | 3 | 1520 x 480 x 975 |
| **WRN5.5HPXX-270S** | 5.5 | 270 | 23 | 18.5 | 3 | 1600 x 500 x 1075 |

All above models 10 bar maximum pressure

# Workhorse Belt Drive

## 400V


WRN7.5HP-270S


WRN10HP-270S

**Complete with:**
Star/Delta Starter

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WRN7.5HP-270S** | 7.5 | 270 | 29 | 23 | 3 | 1600 x 500 x 1040 |
| **WRN10HP-270S** | 10 | 270 | 38.5 | 29.5 | 3 | 1600 x 500 x 1200 |

# Workhorse Tandem Belt Drive

## 230 V


WRT28-250S-1


WRT36-250S-1

**Complete with:** Three position starter box

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WRT28-250S-1*** | 2 x 3.0 | 250 | 28 | 18 | 1 | 1750 x 480 x 1100 |
| **WRT30-250S-1*** | 2 x 3.0 | 250 | 28.2 | 21.4 | 1 | 1750 x 480 x 1100 |
| **WRT36-250S-1**** | 2 x 4.0 | 250 | 36.4 | 26.4 | 1 | 1750 x 480 x 1200 |

*Requires 30 Amp power supply **Requires 45 Amp power supply All above models 10 bar maximum pressure

# Belt Drive Duplex

## 400V

ABT500-1196

ABT500-1700

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **ABT500-1196** | 2 x 5.5 | 500 | 42.4 | 34 | 3 | 2050 x 540 x 1170 |
| **ABT500-1700** | 2 x 7.5 | 500 | 58.6 | 47 | 3 | 2050 x 540 x 1170 |

All models maximum pressure 145 PSI / 10 Bar

### Key Features

- Twin cylinder pumps
- Fitted aftercoolers
- Cast iron blocks on all models
- Automatic stop/start controls
- Air receivers built to latest European standards 2014/29EU
- Heavy duty industrial motors c/w overload protection
- Aerodynamic flywheels for efficient cooling
- Slow running pump speeds giving lower noise levels & longer life expectancy
- Full back up by our factory trained engineers

ABT900-1996

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **ABT900-1996** | 2 x 10.0 | 900 | 75.6 | 59 | 3 | 2150 x 800 x 1600 |

# Workhorse Belt Drive Petrol

## Key Features

- Recoil start as standard
- Offering air production where no electricity supply is available
- Cast iron blocks on all models
- Air receivers built to latest European Standards 2014/29EU
- Twin cylinder pumps
- Fitted aftercoolers
- Aerodynamic flywheels for efficient cooling
- Built & tested to latest European standards in our modern production facility in Manchester, England

GX Engine 3 YEAR WARRANTY

3 Year Engine Warranty covered by Honda service centres throughout the UK


WRP5.5HP-150S

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WRP5.5HP-50S** | 5.5 | 50 | 15.6 | 11.2 | Static | 1100 x 375 x 690 |
| **WRP5.5HP-50P** | 5.5 | 50 | 15.6 | 11.2 | Portable | 1150 x 375 x 690 |
| **WRP5.5HP-150S** | 5.5 | 150 | 15.6 | 11.2 | Static | 1350 x 480 x 1020 |

Above models 10 bar maximum pressure


WRP9HPXX-150S


WRP11HP-150S

| Order Code | HP | Tank Litres | Displacement CFM | FAD CFM | | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **WRP9HP-150S** | 9.0 | 150 | 21 | 16.5 | Static | 1350 x 480 x 1020 |
| **WRP9HPXX-150S** | 9.0 | 150 | 24.9 | 19.9 | Static | 1350 x 480 x 1100 |
| **WRP11HP-150S** | 11.0 | 150 | 29.8 | 23 | Static | 1350 x 480 x 1100 |

Above models 10 bar maximum pressure as standard, 12 bar available to special order
Electric Start option available on 9 & 11 HP Please note battery and cables not supplied

# Piston Low Noise

## 230V • Oil Free

**Key Features**

- Silent air compressor
- Fitted thermal overload
- Only 57 dB(A)
- Oil free
- 13A plug


| Order Code | Model | Motor HP | Voltage | PSI | Tank Litres | Displacement CFM | FAD CFM | Noise Level dB(A) | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|---|---|
| **1703080000** | Compact 106 | 0.75 | 230 | 116 | 6 | 3.64 | 2.6 | 57 | 615 x 340 x 570 |

# Oil Lubricated

## 230V • 400V

**Key Features**

- Belt Driven
- Low noise acoustic cabinet
- Heavy duty S1 electric motor
- Slow running pumps c/w cast iron block
- Automatic stop/start control
- Hour meter
- Reduced maintenance costs


SCS 415/200


SCS 598/300

| Order Code | Model | Motor HP | Voltage | PSI | Tank Litres | Displacement CFM | FAD CFM | Noise Level dB(A) | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|---|---|
| **1680900000** | SCS 415/200 | 3.0 | 230 | 145 | 200 | 14.0 | 10.5 | 67 | 1440 x 600 x 1170 |
| **1693660000** | SCS 598/300 | 5.5 | 400 | 145 | 270 | 22.0 | 18.5 | 69 | 1440 x 592 x 1220 |
| **1692930000** | SCS 958/300 | 7.5 | 400 | 145 | 270 | 28.0 | 23.0 | 66 | 1440 x 592 x 1220 |

# Silver Screw Compressors

### Key Features

- High efficiency direct drive motor
- Compact & portable
- Low noise level
- Simple maintenance


Silver 3/100

### Key Features

- Powerful heavy duty motor
- Reduced maintenance costs
- Encapsulated air end
- Easy control unit
- Aesthetic design


Silver 10/300

| Order Code | Model | Motor HP | CFM @ 9 bar | CFM @ 10 bar | Tank Litres | Voltage | Sound Pressure dB(A) | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|---|
| **Silver 3/100** | Silver 3/100 | 3.0 | 10.6 | - | 90 | 230 | 59 | 1000 x 400 x 1114 |
| **1691250000** | Silver 10/300 | 10.0 | - | 30.4 | 270 | 400 | 67 | 1625 x 540 x 1250 |
| **1682890000** | Silver 15/300 | 15.0 | - | 50.5 | 270 | 400 | 65 | 1625 x 630 x 1300 |
| **1682920000** | Silver 20/300 | 20.0 | - | 67.1 | 270 | 400 | 67 | 1625 x 630 x 1300 |
| **1724420000** | Silver 25/500 | 25.0 | - | 88.3 | 500 | 400 | 73 | 2040 x 850 x 1770 |
| **Silver 30/500** | Silver 30/500 | 30.0 | - | 104.9 | 500 | 400 | 74 | 2040 x 850 x 1770 |

# Silver Screw Compressors c/w Refrigerated Dryer

## 400V

### Key Features

- These silent rotary screw compressors feature an 'Easy Control' unit which manages, monitors and optimises the duty cycle of the unit
- Clear, immediate data readings for air pressure, oil temperature along with all protection and maintenance schedules
- Refrigerated dryer option for clean dry air production
- For applications where there is constantly high demand for air power
- High efficiency IE3 belt drive motors


| Order Code | Model | Motor HP | CFM @ 10 bar | Tank Litres | Voltage | Sound Pressure dB(A) | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|
| **1691520000** | Silver D 10/300 | 10.0 | 30.4 | 270 | 400 | 67 | 1625 x 540 x 1250 |
| **1683010000** | Silver D 15/300 | 15.0 | 50.5 | 270 | 400 | 65 | 1625 x 630 x 1300 |
| **1683040000** | Silver D 20/300 | 20.0 | 67.1 | 270 | 400 | 67 | 1625 x 630 x 1300 |
| **1724480000** | Silver D 25/500 | 25.0 | 88.3 | 500 | 400 | 73 | 2040 x 850 x 1770 |
| **Silver D 30/500** | Silver D 30/500 | 30.0 | 104.9 | 500 | 400 | 74 | 2040 x 850 x 1770 |

8 Bar machines also available  Compressors up to 100HP Available

# Inverter Compressor

**NEW**


### Key Features

- High efficiency IE3 motor
- Encapsulated air end
- ABB inverter controller
- Integrated refrigerated dryer
- Automatically adjusts motor speed to the air demand
- Average 35% saving on energy
- Ready to run, fully automatic

| Model | Motor HP | Voltage | CFM | Max Pressure | Tank Litres | Sound Pressure dB(A) | Dimensions L x W x H |
|---|---|---|---|---|---|---|---|
| **Silver D 15/300 SD** | 15 | 400 | 10.6 - 50.5 | 10 Bar | 270 | 65 | 1625 x 630 x 1300 |
| **Silver D 20/300 SD** | 20 | 400 | 11.3 - 67.1 | 10 Bar | 270 | 67 | 1625 x 630 x 1300 |


"Workhorse compressors provide more than just air...

...its dependable air delivery...

...designed & built to the highest European Standards"

**Demand... a Workhorse!**

# Industrial Screw
## 400V

### Key Features

- Compact, totally enclosed design
- Vertically mounted suction valve - no oil return
- Microprocessor controlled - simple to programme and use with incorporated service schedule countdown and internal fault readout
- Models feature patented automatic belt tensioner
- High efficiency IE3 motors
- Quiet noise levels

### Key Features

- The FIAC air energy electronic control unit controls and monitors complex screw compressor installation
- It allows you to set the compressed air min/max pressures, standby and warning pressures along with specific functions required


| Order Code | Model | Motor HP | Bar | CFM | Sound Pressure dB(A) | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|
| **1705556010** | Airblok 102 BD | 10.0 | 8 | 42 | 65 | 930 x 695 x 1120 |
| **1705576010** | Airblok 102 BD | 10.0 | 10 | 36 | 65 | 930 x 695 x 1120 |
| **1705616010** | Airblok 152 BD | 15.0 | 8 | 58 | 67 | 930 x 695 x 1120 |
| **1705636010** | Airblok 152 BD | 15.0 | 10 | 53 | 67 | 930 x 695 x 1120 |
| **1705676010** | Airblok 202 BD | 20.0 | 8 | 85 | 68 | 930 x 695 x 1120 |
| **1707386010** | Airblok 202 BD | 20.0 | 10 | 72 | 68 | 930 x 695 x 1120 |
| **1680807000** | Airblok 252 BD | 25.0 | 8 | 101 | 66 | 870 x 1300 x 415 |
| **1693577000** | Airblok 252 BD | 25.0 | 10 | 89 | 66 | 870 x 1300 x 415 |
| **1680827000** | Airblok 302 BD | 30.0 | 8 | 119 | 67 | 870 x 1300 x 415 |
| **1693567000** | Airblok 302 BD | 30.0 | 10 | 108 | 67 | 870 x 1300 x 415 |
| **1706476010** | Airblok 402 BD | 40.0 | 8 | 169 | 65 | 1000 x 1450 x 707 |
| **1706386010** | Airblok 402 BD | 40.0 | 10 | 145 | 65 | 1000 x 1450 x 707 |
| **1706526010** | Airblok 502 BD | 50.0 | 8 | 200 | 65 | 1000 x 1450 x 715 |
| **1706376010** | Airblok 502 BD | 50.0 | 10 | 181 | 65 | 1000 x 1450 x 715 |
| **1684600000** | Airblok 602 BD | 60.0 | 10 | 219 | 65 | 1000 x 1450 x 778 |

Variable speed machines also available

# Tundra Refrigerant Dryers

## Key Features

- Operating pressure range 2 to 16 bar
- Maximum inlet air temperature 60°C
- Ambient air temperature: 0°C to 50°C
- Constant +3°C dewpoint delivered at all times, unlike thermal dryers
- High pressure range available with pressure up to 50 bar
- Dewpoint indicator as standard, digital on larger models
- Option of zero loss or HTD condensate removal
- Illuminated "Power on" switch
- Ultra high efficiency heat exchanger
- Will drive down energy costs by minimising pressure drop and lowering absorbed power


## Standard Reference Conditions (in accordance to ISO7183)

| | |
|---|---|
| Inlet compressed air pressure | 7 bar g |
| Inlet compressed air temperature | 35°C @100% RH |
| Ambient air temperature | 25°C |
| Minimum pressure dew point (PDP) | 3°C Class 4 (ISO8573-1) |

| Order Code | CFM | m3/hr | m3/min | Connection | Weight Kg | Electrical Phase | Dimensions mm L x W x H |
|---|---|---|---|---|---|---|---|
| **TUNDRA21** | 21 | 35 | 583 | 1/2" | 23 | 1 | 365 x 455 x 500 |
| **TUNDRA36** | 36 | 62 | 1019 | 1/2" | 26 | 1 | 365 x 455 x 500 |
| **TUNDRA50** | 50 | 50 | 1415 | 1/2" | 28 | 1 | 365 x 455 x 500 |
| **TUNDRA68** | 68 | 68 | 1925 | 3/4" | 37 | 1 | 410 x 560 x 550 |
| **TUNDRA90** | 90 | 90 | 2548 | 1" | 39 | 1 | 410 x 560 x 550 |
| **TUNDRA120** | 120 | 120 | 3400 | 1" | 43 | 1 | 350 x 540 x 1010 |
| **TUNDRA159** | 159 | 159 | 4502 | 11/2" | 47 | 1 | 350 x 540 x 1010 |
| **TUNDRA210** | 210 | 210 | 5946 | 11/2" | 90 | 1 | 440 x 600 x 960 |
| **TUNDRA295** | 295 | 295 | 835 | 11/2" | 95 | 1 | 440 x 600 x 960 |

All Tundra Refrigerant Air Dryers are also available complete with filters: For order code add /FIL

# Air Accessories

## Vertical Air Receivers

### Key Features

- Available in 270 and 500 litre tank sizes
- 11 bar maximum working pressure
- Powder coated RAL5015

### Complete with:

- Safety valve
- Pressure gauge
- Drain valve
- Test certificate

| Order Code | Capacity | Port Size | Height mm | Diameter mm |
|---|---|---|---|---|
| **V270i** | 270 | 1" | 1648 | 500 |
| **V500i** | 500 | 2" | 2050 | 600 |

## Air Filtration

**AF1/12**

25 Micron Inline Filters 1/2" BSP
**Order Code: F1/12**

0.01 Micron Coalescing Filters 1/2" BSP
**Order Code: CF1/12**

0.001 Carbon Filters 1/2" BSP
**Order Code: AF1/12**

## Filter Regulators & Filter Regulator Lubricators

**FR1/12**

1/2" BSP
**Order Code: FR1/12**

1/2" BSP
**Order Code: FRL/12**

## Lubricators

**L1/12**

1/2" BSP
**Order Code: L1/12**

1/4" BSP Mini Inline Lubricator
**Order Code: MIL/14**

# Air Accessories

## Air Control

Sprayshop Filter Systems • AQUA PURGE

| | |
|---|---|
| **AQP14** | 1/4" BSP Pre Filter & Coalescing Filter |
| **AQP12** | 1/2" BSP Pre Filter & Coalescing Filter |
| **AQPR14** | 1/4" BSP Pre Filter Regulator c/w gauge & Coalescing Filter |
| **AQPR12** | 1/2" BSP Pre Filter Regulator c/w gauge & Coalescing Filter |

- For ultra clean compressed air
- Down to 0.01 micron

**AQPR12**

**97081731**

## Replacement Filter Elements

| | |
|---|---|
| **26PC26/4/6** | 1/4" Waist Belt Carbon Element |
| **26PC39/112** | 1/4"-3/8"-1/2" Current Carbon Element |
| **97801731** | 1/4"-3/8"-1/2" Current 5 Micron Pre-Filter Element |
| **97801732** | 1/4"-3/8"-1/2" Current 25 Micron Pre-Filter Element |
| **6342061** | Coalescing Element |

## Piston Compressor Oil - 1 Litre

**Order Code: 6102250000**

## Pressure Gauges

40mm or 50mm Faces, 0-300 psi,
1/8" or 1/4" BSP, bottom or centre entry

## Air Transformers c/w Gauge

| | |
|---|---|
| **AH100501** | 3/8" M x 1/4" Twin Outlet, Lower Air Inlet |
| **AH100601** | 1/2" M x 1/4" Twin Outlet, Lower Air Inlet |
| **AH102002** | 1/4" F x 1/4" M Regulator, Side Air Inlet |

## PCL Tyre Inflators & Gauges

| | |
|---|---|
| **AFG4H03** | Airline Gauge, Twin Hold On, Open End |
| **AFG4H05** | Airline Gauge, Twin Clip On, Open End, 6" Hose |
| **AFG4H04** | Airline Gauge, Single Clip On, Open End |
| **ALG5H04** | Hi Pressure Gauge |
| **DAC403** | Accura MK4 Tyre inflator, Twin Hold On |

## PCL Tyre Gauge Accessories

| | |
|---|---|
| **CO1A03** | Tyre Connector, Twin Hold On, Open End |
| **CO3A03** | Tyre Connector, Twin Clip On, Open End |
| **CO2A03** | Tyre Connector, Single Clip On, Open End |
| **TDG 16C04** | Tyre Depth Gauge |

**AH100501**

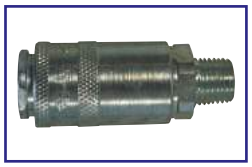

**DAC403**

**AFG4H03**

# Air Accessories

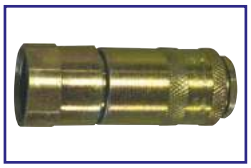
## PCL Couplings & Adaptors

**AC29CM**
1/4" BSP Male

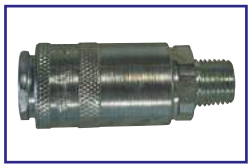


**AC21CF02**
1/4" BSP Male

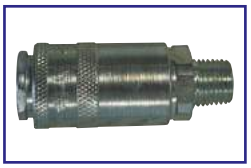
**AC21EF02**
3/8" BSP Female



**AC21JF02**
1/2" BSP Female



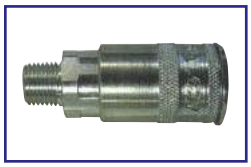
**AC21CM02**
1/4" BSP Male



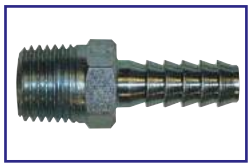
**AC21EM02**
3/8" BSP Male

**AC21JM02**
1/2" BSP Male

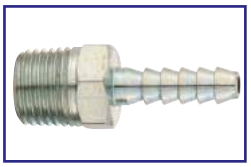
**AC91CF02**
1/4" BSP Female



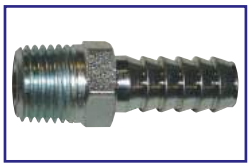
**AC91CM02**
1/4" BSP Male



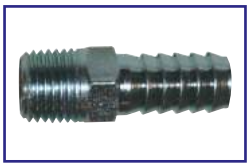
**HC5656**
1/4" Bore Hose



**HC1205**
3/16" Bore Hose



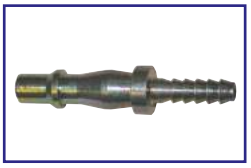
**HC1206**
5/16" Bore Hose



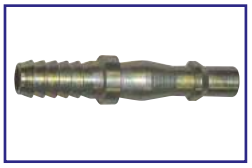
**HC1217**
3/8" Bore Hose

**HC2479**
1/2"Bore Hose

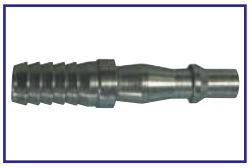
**ACA1793**
1/4" Bore



**ACA2486**
3/16" Bore

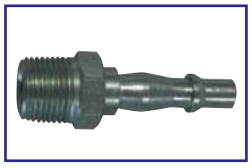


**ACA2487**
5/16" Bore

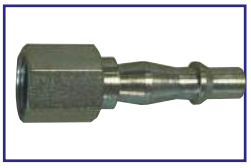


**ACA2488**
3/8" Bore

**ACA2593**
1/4" BSP Male



**ACA6909**
3/8" BSP Male

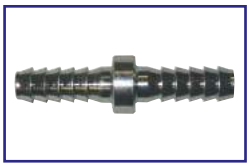


**ACA2746**
1/4" BSP Female

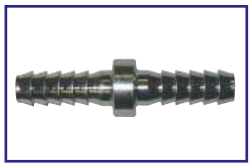
**AC6103**
Y Twin Coupling Set

# Air Accessories

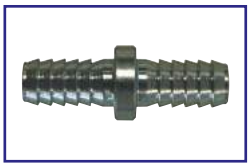
## PCL Standard Couplings



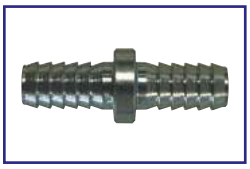
**HC2983**
Double Hose Tail 1/4"



**HC2984**
Double Hose Tail 5/16"



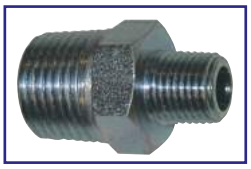
**HC2985**
Double Hose Tail 3/8"



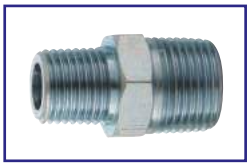
**HC2986**
Double Hose Tail 1/2"

**HC6889**
Socket 1/4"

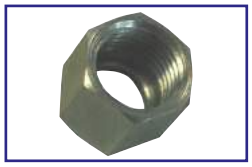
**HC6899**
3/8" M x 1/4" M Union



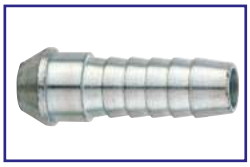
**HC6900**
1/2" M x 1/4" M Union



**HC6901**
1/2" M x 3/8" M Union

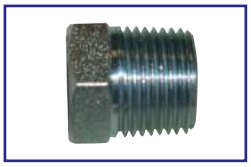


**HC5194**
1/4" BSP Union Nut



**HC5275**
1/4" Bore Coned Tailpiece

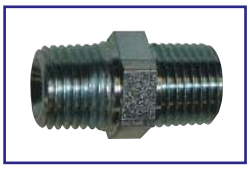
**HC5276**
5/16" Bore Coned Tailpiece



**HC6895**
3/8" M x 1/4" FR Brush

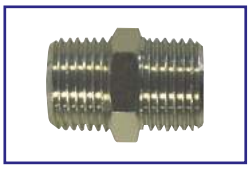
**HC6896**
1/2" M x 1/4" FR Brush

**HC6897**
1/2" M x 3/8" FR Brush



**HC6560**
1/4" Double Union

**HC4281**
3/8" Double Union



**HC6898**
1/2" Double Union

# Air Accessories
## Spray Guns

### Conventional Spray Guns

**Eagle**

**Golden Eagle**

**Osprey**

**Kite Mini**

| Order Code | Model | Paint Feed | Fluid Nozzle mm | Air Input Pressure PSI | Air Consumption CFM | Recommended Compressor HP |
|---|---|---|---|---|---|---|
| **P-5009** | Eagle | Suction Cup | 1.8 | 45-65 | 7-11 | 3.0 |
| **P-5010** | Golden Eagle | Suction Cup | 1.8 | 45-65 | 7-11 | 3.0 |
| **P-5012** | Osprey | Gravity Cup | 1.7 (1.4,2.0) | 45-60 | 8-12 | 3.5 |
| **P-5013** | Kite Mini | Gravity Cup | 1.0 | 25-35 | 2.5-3 | 2.0 |

### HVLP Spray Guns

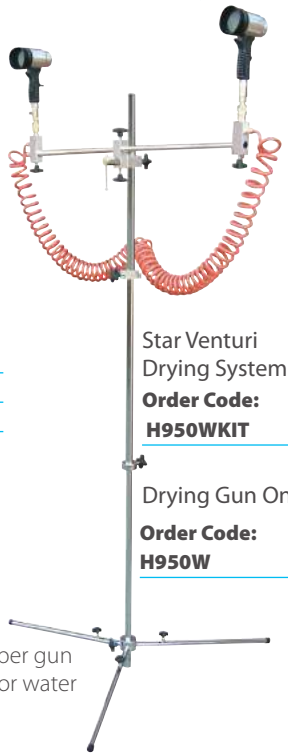
**Hawk**

**Falcon**

**Merlin Mini**

| Order Code | Model | Paint Feed | Fluid Nozzle mm | Air Input Pressure PSI | Air Consumption CFM | Recommended Compressor HP |
|---|---|---|---|---|---|---|
| **P-5200** | Hawk | Suction Cup | 1.7 (1.4) | 25-43 | 9-11 | 3.5 |
| **P-5203** | Falcon | Gravity Cup | 1.7 (1.4) | 25-43 | 7-9 | 3.0 |
| **P-5208** | Merlin Mini | Gravity Cup | 1.0 | 25-43 | 5-7 | 2.0 |

### Water Based Drying Kit



Star Venturi Drying System
**Order Code: H950WKIT**

Drying Gun Only
**Order Code: H950W**

**Key Features**

- A must for the bodyshop
- Adjustable to 2.1m
- Air for consumption 12 CFM per gun
- Accelerates the drying time for water based paints
- Gun available separately

### Spray Gun Accessories

**NSF1**
Nylon Suction Filters

**NSF2**
Nylon Gravity Filters

# Air Accessories

## Air Guns

**9400**
Palm Grip Blow Gun

**931G**
Schutz Underseal Gun
- Uses 1litre Canister
- 70-80 PSI
- 1/4" BSP fitting

**059000R**
Air powered Vacuum Gun

**4086450000**
Electronic Auto Drain
1/2" 230V

## Paint Containers

**2Q**
Remote Pressure Cup
- 2 litre remote pressure cup complete with hoses

**95200-33**
Universal Syphon Cup
- 1 litre universal syphon cup complete assembly

## Air Hose

Order Code

| | |
|---|---|
| **AHR5M516** | 5m x 5/16" hose |
| **AHR10M516** | 10m x 5/16" hose |
| **AHR15M516** | 15m x 5/16" hose |
| **AHR20M516** | 20m x 5/16" hose |
| **AHR5M38** | 5m x 3/8" hose |
| **AHR10M38** | 10m x 3/8" hose |
| **AHR15M38** | 15m x 3/8" hose |
| **AHR20M38** | 20m x 3/8" hose |

**Complete with** Crimped 1/4" BSP fitting

## Air Hose 100 mtr

| | |
|---|---|
| **AHR100M516** | 100m x 5/16" bore air hose |
| **AHR100M38** | 100m x 3/8" bore air hose |

## Paint Fluid Hose

| | |
|---|---|
| **PH5M** | 5m x 3/8" |
| **PH10M** | 10m x 3/8" |

**Complete with**
Factory crimped 3/8" BSP fitting

## Air Hose Balancers

| Order Code | Balance Weight Kg | Cable Length mm |
|---|---|---|
| **9200** | 0.4-0.8 | 1350 |
| **9201** | 0.75-1.5 | 1350 |
| **9202** | 1.2-2.5 | 1350 |


**Note:**
All with 1/4" BSP connection & 6mm ID hose

# Compressed Air Guide

## Displacement (Volume)

This term is used to decide the theoretical volume of a compressor, i.e, the swept volume of a cylinder multiplied by the number of compressions in a minute and expressed in cubic feet per minute (CFM). This figure should not be used in calculating the size of compressor required, as it bears no relationship to the free air figure that you may require.

## Free Air Delivered

This measurement is the volume of air taken into a compressor and therefore describes more accurately the volume of air available for use. Expressed as CFM/FAD at a given pressure.

**Remember:**
Displacement is the theory and CFM/FAD is the actual volume available.

## Pressure

This is the way force, i.e, in the compressed air system is expressed and is measured in either pounds per square inch (psi) or bar.

Pressure is important because to have too low a pressure would cause the equipment not to work correctly, too high a pressure would at best rapidly wear out the equipment, at worst it could make the equipment lethal.

## Single Stage Compressors

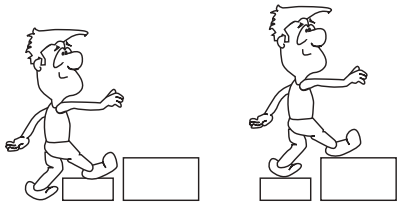
One or more cylinders producing the final pressure in one compression. Normal maximum pressure 150 psi. g.

## Two Stage Compressors

**First Stage:** Air is compressed to approximately 30 psi. g, cooled then compressed to final pressure in the second stage

Normal maximum pressure 200 psi. g.

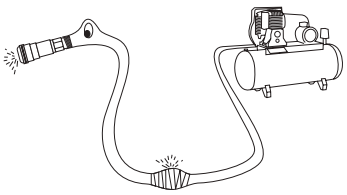
**Note:** Two stage provides more air for less energy



## Cost of Air Leaks

Hissing Sid is at work in most companies you visit. Hissing Sid is a length of air hose which has become the family 'air' loom, It must be because this hose is costing its owner a small fortune and yet to suggest replacement would be a cardinal sin. So what does Hissing Sid cost to run?

| Air Leak Size | CFM Lost | Energy |
|---|---|---|
| 0.75mm dia. | 1.6 | 300W |
| 1.5mm dia. | 6.5 | 1100W |



# Power Supply

## Single Phase

Standard supply for domestic and light industry 230V.

- 5A light circuit — not suitable for equipment
- 13A ring main — Max 2.5 HP std compressor; Max 3.0 HP for LC compressors
- 45A cooker/shower — Max 3.5HP compressor

## Main benefit of Single Phase

- Excellent second-hand resale value

## Three Phase

Main electrical supply to industry.

- 400V any size of compressor

## Main benefits of Single Phase

- Approx 2/3 cost saving over single phase
- Stable supply
- Longer motor life

# Air Equipment Consumption Guide

| Tools | FAD/CFM | Pressure PSI.G |
|---|---|---|
| 3/8" Impact Wrench | 2-3 | 70-90 |
| 1/2" Impact Wrench | 4-6 | 70-90 |
| 3/4" Impact Wrench | 9 | 70-90 |
| 1" Impact Wrench | 14 | 70-90 |
| 3/8" Ratchet Wrench | 2-5 | 70-90 |
| 1/2" Ratchet Wrench | 2-5 | 70-90 |
| 3/8" Drill | 5 | 70-90 |
| 1/2" Drill | 12 | 70-90 |
| DA Sander (top quality) | 10 | 70-90 |
| DA Sander (econ. model) | 20 | 70-90 |
| 7" Sander/Polisher | 25 | 70-90 |
| Zip/Impact Cutter | 4-5 | 70-90 |
| Cutter Shears | 4-8 | 70-90 |
| 4" Angle Grinder | 18-25 | 70-90 |
| 7" Angle Grinder | 25-35 | 70-90 |
| Tyre Inflator | 2-4 | 150-230 |
| Tyre Changer (Manual) | 4 | 150 |
| Tyre Changer (Auto) | 6 | 150 |
| Sand Blast Cabinet | 10-50 | 50-100 |
| Sand Blast Hand Gun | 8-12 | 100 |
| Spray Guns: | | |
| Airbrush | 0.25 | 30 |
| Miniature | 4-7 | 20-50 |
| Low Pressure | 1.5-4 | 20-40 |
| Standard | 7.14 | 50-60 |
| HVLP | 14-20 | 70-90 |
| HA/GEO/9000 series LVLP | 7-9.5 | 28-36 |
| Air Fed Mask | 5-6 | 20-40 |
| Oil Pump | 1.5 | 100-150 |
| Grease Pump | 4.5 | 100-150 |
| Air Water Wash | 10 | 150 |
| Car Wash | 1.5-5 | 70-100 |
| Blow Gun (safety nozzle) | 3 | 100 |
| Spark Plug Cleaner | 3 | 100 |
| Underseal Gun | 4 | 100 |
| Rivet Gun | 1.5-3 | 70-90 |
| 2 Ton Air/Hydraulic Lift | 5-8 | 130-150 |
| Brake Tester | 3-7 | 75-100 |
| Plasma Cutter | 6-8 | 60-100 |

**Note:**
The figures in the Air Equipment Consumption Table are only a guide, for additional information please phone our help desk on 0161 728 7911.

### Choosing the Right Compressor

Three-phase compressors are more efficient producers of compressed air than single-phase equivalent units, so where a three-phase supply is available the best option is the three-phase compressor.

Single-phase compressors up to 2.5 HP can operate from a 230V 13A power supply, with the exception of the new 3HP low current models. 3.0HP and above must operate from a 230V 30A supply. Wherever possible choose a larger compressor than you require at present to allow expansion. Compressors with cast iron cylinders running slow, offer a much extended service life.

**1) Bodyshop -** using the air equipment consumption guide, add all the equipment consumptions together and divide by two, the resulting figure is the minimum free air you require.

**2) Workshop -** using the air equipment consumption guide, add all the equipment consumptions together and divide by three, the resulting figure is the minimum free air you require.

**Note:** For calculation purposes always use free air delivered figures.

### Compressor Size Guide

#### A) Ask Questions

1 What is the air to be used for?
2 What is the maximum pressure required? (see consumption guide)
3 What electricity supply is available? (single/three phase)
4 What size compressor is currently in use? (See calculation guide below)
5 How well does the existing compressor cope?
6 What are the future plans for additional staff/ equipment?

#### B) Complete Following List

1 Number of tools and type
2 Number of users
3 Air consumption of largest tool/equipment using air
4 Complete survey form
5 Select compressor from catalogue (Use only free air figures)

**Note:**
Quick guide to CFM/FAD output (approx) of existing compressor
Multiply motor HP by 3.3 = output in CFM/FAD
Multiply motor kW by 4.5 = output in CFM/FAD
Multiply motor kW by 2.1 = output in L/Sec /FAD

### Correct Hose Selection

An air tool needs the following:

A) Correct size of compressor to ensure sufficient air available
B) Correct size of air hose to ensure minimal pressure drop and air flow
C) Correct pressure at tool (see chart)
D) Correct type of lubricant (Not engine oil)
E) Clean dry air (use filters, regulator, dryer and lubricant)

### Recommended Air Hose Sizes

| Hose | Uses | Max Flow CFM |
|---|---|---|
| 1/4" | Tyre inflators / Airbrush | 5 |
| 5/16" | Std Spray Guns / 3/8" Drill / Ratchet Wrench | 15 |
| 3/8" | HVLP/LVLP Spray Guns / 1/2" & 3/4" Wrenches/Sanders | 25 |
| 1/2" | 1" Impact Wrenches | 50 |

Note: Always keep hose length as short as practical. eg. 1/2" impact wrench with 20 metres of 1/4" bore hose will develop less than 40% of its available power!