



Fast Series

COMPRESSORS
By American Airworks

**High Pressure
Breathing Air Compressors**



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Fast 180 High Pressure Breathing Air Compressors

Description

The Fast 180 is a 4 stage piston compressor that was designed with large air demand applications such as fire fighting, scuba diving, oil patch breathing air, homeland security teams, haz-mat response teams, industrial breathing air users, laboratory breathing air, commercial diving, and paintball cylinder refilling applications in mind. This continuous duty, 18 CFM (500 L/min) compressor combines a very low operating speed and soundproof insulated enclosure to allow for use in work areas that require low noise levels and reassures smooth, safe, quiet and long life operation.

Some of the standard features include side and rear hinged access panels for ease of maintenance, high temperature alarm and shutdown switch, low oil alarm and shutdown switch and automatic condensate drains. The Fast 180 also includes an advanced electronic control system providing operating, controlling & servicing data showing the filling pressure, operating temperature, running hours and other data such as service remaining hours before filter change. The purification system produces CGA Grade E / EN12021 standard breathing air. This compressor's efficient performance, simple use and reliability, make the Fast 180 the perfect choice for any application.

Technical Data

Model	Drive	Pressure	Capacity	Purification	Power	RPM	Dimensions	Weight
Fast 180VE	3 phase 230VAC 60Hz	5,000 psi (345 bar)	18 cfm (500 lit/min)	17,000 ft³ @ 80°F 26,000 ft³ @ 68°F	15 hp (11 kw)	850	31 x 48 x 70 in (79 x 122 x 178 cm)	1,215 lbs (551 kg)
Fast 180VE-6M	3 phase 230VAC 60Hz	6,000 psi (414 bar)	18 cfm (500 lit/min)	17,000 ft³ @ 80°F 26,000 ft³ @ 68°F	15 hp (11 kw)	850	31 x 48 x 70 in (79 x 122 x 178 cm)	1,215 lbs (551 kg)

• Oil Capacity: 2.22 qt (2.1 lit) synthetic compressor oil

• Permissible Ambient Temperature: 41°F (5°C) to 113°F (45°C)

Features

	180VE
Star/Delta Starter System	●
Advanced Electronic Control Panel Providing: Operation (Running Hours, Filling Pressure, Operating Temperature), Control (Start / Stop / Reset / Menu Button) And Service (Service Hours-alarm, Records Of The Last 15 Diagnostic Codes) Data.	●
Automatic Drain at Start & Shutdown and Automatic Cool Down at Shutdown	●
Automatic Restart	●
Automatic Condensate Drains with Manual Backup	●
24v Secondary Voltage: Providing Operator Safety During Routine Operation	●
Emergency Stop Button	●
Micronic Air Inlet/Outlet Filters	●
Pressure Maintaining and Non-Return Valve	●
Water Separators After 1 st , 2 nd , 3 rd , and 4 th Stages	●
Coalescing Pre-filter Water Separator After 3 rd Stage	●
Combined BA Filter Including: Coalescing Pre-filter (0.5 Mg/m³ Oil Residual) and Purification Cartridge	●
High Efficiency Aluminum Cooler (1 st and 2 nd Stage)	●
Large Stainless Steel Intercoolers - Aftercoolers (3 rd and 4 th Stage)	●
Safety Valves in All Stages	●
Interstage Pressure Sensors Providing Emergency Shutdown (in case of overpressure)	●
Primary Large Cooling Fan 19" (483 mm)	●
Secondary Large Fan With Independent Electric Motor For Optimum Cooling 24.75" (629 mm)	●
Soundproof Insulation Ensuring a Very Low Noise Level (75 dBA)	●
Interstage Pressure Gauges	●
High Temperature Alert & Shutdown Switch	●
Low Oil Level Alert & Shutdown Switch	●
Condensate Collecting Reservoir	●
Automatic Belt Tensioning System	●

● Standard | ◇ Optional

Special Voltages Available Upon Request

Fast180



Fast 180VE

Fast 140 High Pressure Breathing Air Compressors

Description

The Fast 140 is a 4 staged, air cooled, high pressure piston compressor, suitable for breathing air, paintball or industrial applications where large air demand is required. Each unit is equipped with large stainless steel intercoolers/aftercoolers, separators and coalescing filters for absolute moisture removal, easy to use digital control panel, large stainless steel BA filter (with one coalescing pre-filter and two large active carbon / molecular sieve cartridges) producing absolute clean air (CGA Grade E / EN12021 standards), and large openings ensuring easy and rapid maintenance.

The soundproof enclosure in combination with the very low turning speed, reassures smooth, safe, quiet and long life operation. The Fast 140 combines space-saving properties with high-standard permanent performance. The compressor, which is fitted with an extensive array of features, can be further expanded using optional extras to meet your requirements. Be it as an individual compact system or as a part of another system, the Fast 140 series is the right choice if you are seeking durable high output performance.

Technical Data

Model	Drive	Pressure	Capacity	Purification	Power	RPM	Dimensions	Weight
Fast 140VE	1 or 3 phase 230VAC 60Hz	5,000 psi (345 bar)	14 cfm (400 lit/min)	17,000 ft³ @ 80°F 26,000 ft³ @ 68°F	10 hp (7.5 kw)	650	31 x 48 x 70 in (79 x 122 x 178 cm)	1,133 lbs (470 kg)
Fast 140VE-6M	1 or 3 phase 230VAC 60Hz	6,000 psi (414 bar)	14 cfm (400 lit/min)	17,000 ft³ @ 80°F 26,000 ft³ @ 68°F	10 hp (7.5 kw)	650	31 x 48 x 70 in (79 x 122 x 178 cm)	1,133 lbs (510 kg)

• Oil Capacity: 2.22 qt (2.1 lit) synthetic compressor oil

• Permissible Ambient Temperature: 41°F (5°C) to 113°F (45°C)

Features

	140VE
Star/Delta Starter System - (3 Phase Models Only)	●
Advanced Electronic Control Panel Providing; Operation (Running Hours, Filling Pressure, Operating Temperature), Control (Start / Stop / Reset / Menu Button) And Service (Service Hours-alarm, Records Of The Last 15 Diagnostic Codes) Data.	●
Automatic Drain at Start & Shutdown and Automatic Cool Down at Shutdown	●
Automatic Restart	●
Automatic Condensate Drains with Manual Backup	●
24v Secondary Voltage: Providing Operator Safety During Routine Operation	●
Emergency Stop Button	●
Micronic Air Inlet/Outlet Filters	●
Pressure Maintaining and Non-Return Valve	●
Water Separators After 1 st , 2 nd , 3 rd , and 4 th Stages	●
Coalescing Pre-filter Water Separator After 3 rd Stage	●
Combined BA Filter Including: Coalescing Pre-filter (0.5 Mg/m³ Oil Residual) and Purification Cartridge	●
High Efficiency Aluminum Cooler (1 st and 2 nd Stage)	●
Large Stainless Steel Intercoolers - Aftercoolers (3 rd and 4 th Stage)	●
Safety Valves in All Stages	●
Interstage Pressure Sensors Providing Emergency Shutdown (in case of overpressure)	●
Primary Large Cooling Fan 19" (483 mm)	●
Secondary Large Fan With Independent Electric Motor For Optimum Cooling 24.75" (629 mm)	●
Soundproof Insulation Ensuring a Very Low Noise Level (72 dBA)	●
Interstage Pressure Gauges	●
High Temperature Alert & Shutdown Switch	●
Low Oil Level Alert & Shutdown Switch	●
Condensate Collecting Reservoir	●
Automatic Belt Tensioning System	●

● Standard | ◇ Optional

Special Voltages Available Upon Request

Fast140



Fast 140VE

Fast 90 High Pressure Breathing Air Compressors

Description

Our Fast 90 breathing air compressors provide 5000 PSI and 6000 PSI breathing air. The Fast 90 breathing air compressor is compact in size, very user friendly and our most popular model. This compressor is great for the small to mid-sized fire departments, fire brigades, dive shops and paintball fields. Complete with a 20,000 CF cartridge purification chamber (CGA Grade E and EN12021 standards). We have packed this HP compressor with many standard features that others charge extra for. The Fast 90 is a continuous duty compressor.

Technical Data

Model	Drive	Pressure	Capacity	Purification	Power	RPM	Dimensions	Weight
Fast 90PE	1 or 3 phase 230VAC / 60Hz	5,000 psi (345 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	7 hp (5.6 kw)	1,100	45 x 22 x 30 in (114 x 56 x 76 cm)	397 lbs (180 kg)
Fast 90PG	Gas Engine	5,000 psi (345 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	11.7 hp (8.72 kw)	1,100	53 x 22 x 29 in (135 x 56 x 74 cm)	476 lbs (189 kg)
Fast 90PD	Diesel Engine	5,000 psi (345 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	10 hp (7.5 kw)	1,100	53 x 22 x 29 in (135 x 56 x 74 cm)	485 lbs (220 kg)
Fast 90HE	1 or 3 phase 230VAC / 60Hz	5,000 psi (345 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	7 hp (5.6 kw)	1,100	51 x 32 x 32 in (130 x 81 x 81 cm)	461 lbs (209 kg)
Fast 90HE-6M	1 or 3 phase 230VAC / 60Hz	6,000 psi (414 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	7 hp (5.6 kw)	1,100	51 x 32 x 32 in (130 x 81 x 81 cm)	492 lbs (223 kg)
Fast 90VE	1 or 3 phase 230VAC / 60Hz	5,000 psi (345 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	7 hp (5.5 kw)	1,100	32 x 39 x 48 in (81 x 99 x 122 cm)	574 lbs (260 kg)
Fast 90VE-6M	1 or 3 phase 230VAC / 60Hz	6,000 psi (414 bar)	9 cfm (250 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	7 hp (5.5 kw)	1,100	32 x 39 x 48 in (81 x 99 x 122 cm)	615 lbs (279 kg)

• Oil Capacity: 2.32 qt (2.2 lit) synthetic compressor oil.

• Permissible Ambient Temperature: 41°F (5°C) to 113°F (45°C)

Fast90



Fast 90PE



Fast 90PD



Fast 90PG

Features

	90PE/90HE	90PG/90PD	90 VE
Magnetic Motor Starter with Thermal Overload	●	--	--
Electric Starter/Battery Fitted	--	●	--
Advanced Electronic Control Panel Providing Operation (Running Hours, Filling Pressure, Operating Temperature), Control (Start/Stop/Reset/Menu Button) and Service (Service Hours-Alarm, Records of the Last 15 Diagnostic Codes) Data.	--	--	●
Automatic Restart	◇	--	●
Automatic Condensate Drains with Manual Backup	●	●	●
24v Secondary Voltage Providing Operator Safety During Routine Operation and Maintenance	●	--	●
12v Secondary Voltage Providing Operator Safety During Routine Operation and Maintenance	--	●	--
Emergency Stop Button	●	--	●
Micronic Air Inlet/Outlet Filters	●	●	●
Pressure Maintaining and Non-Return Valve	●	●	●
Water Separators After 2 nd and 3 rd Stages	●	●	●
Combined BA Filter Including: Coalescing Pre-filter (0.5 Mg/m ³ Oil Residual) and Purification Cartridge	●	●	●
Large Stainless Steel Intercoolers - Aftercoolers	●	●	●
Safety Valves in all Stages	●	●	●
Interstage Pressure Sensors Providing Emergency Shutdown (in case of overpressure)	--	--	●
Large Fan for Optimum Cooling 22" (559 mm dia)	●	●	●
Soundproof Insulation Ensuring Very Low Noise Level (70 dBA)	--	--	●
Interstage Pressure Gauges	●	●	●
Hour Meter	●	●	●
High Temperature Alert & Shutdown Switch	●	●	●
Low Oil Level Alert & Shutdown Switch	●	●	●
Condensate Collecting Reservoir	●	●	●
Automatic Belt Tensioning System	●	●	●

● Standard | ◇ Optional | -- Not Applicable

Special Voltages Available Upon Request

Fast90



Fast 90HE



Fast 90VE

Fast 60 High Pressure Breathing Air Compressors

Description

The Fast 60 is a 3-stage, continuous duty compressor, perfect for a wide range of industries. The Fast 60 is the ideal solution for higher pressure air requirements without compromising quality and safety. It is compact in size and very user friendly. A long service life, even under the toughest of endurance conditions, proves its industrial quality. The Fast 60 is comprised of an integrated condensation filter process that uses a coalescence filter and a long-life filter cartridge to produce CGA Grade E / EN12021 standard Breathing Air.

Technical Data

Model	Drive	Pressure	Capacity	Purification	Power	RPM	Dimensions	Weight
Fast 60PE	1 or 3 phase 230VAC 60Hz	5,000 psi (345 bar)	6 cfm (170 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	5 hp (3.7 kw)	850	45 x 22 x 30 in (114 x 56 x 76 cm)	350 lbs (159 kg)
Fast 60PG	Gas Engine	5,000 psi (345 bar)	6 cfm (170 lit/min)	13,000 ft³ @ 80°F 20,000 ft³ @ 68°F	8.5 hp (6.3 kw)	850	53 x 22 x 30 in (135 x 56 x 76 cm)	450 lbs (204 kg)

• Oil Capacity: 2.32 qt (2.2 lit) synthetic compressor oil.

• Permissible Ambient Temperature: 41°F (5°C) to 113°F (45°C)

Features

	60PE	60PG
Magnetic Motor Starter with Thermal Overload	●	--
Electric Starter/Battery Fitted	--	●
Automatic Restart	◇	--
Automatic Condensate Drains with Manual Backup	●	●
24v Secondary Voltage Providing Operator Safety During Routine Operation and Maintenance	●	--
Emergency Stop Button	●	--
Micronic Air Inlet/Outlet Filters	●	●
Pressure Maintaining and Non-Return Valve	●	●
Water Separators After 2 nd and 3 rd Stages	●	●
Combined BA Filter Including: Coalescing Pre-filter (0.5 Mg/m³ Oil Residual) and Purification Cartridge	●	●
Large Stainless Steel Intercoolers - Aftercoolers	●	●
Safety Valves in all Stages	●	●
Large Fan for Optimum Cooling 22" (559 mm dia)	●	●
Interstage Pressure Gauges	●	●
Hour Meter	●	●
High Temperature Alert & Shutdown Switch	●	●
Low Oil Level Alert & Shutdown Switch	●	●
Condensate Collecting Reservoir	●	●
Automatic Belt Tensioning System	●	●

● Standard | ◇ Optional | -- Not Applicable

Special Voltages Available Upon Request

Fast60



Fast 60PE



Fast 60PG

Fast 35 High Pressure Breathing Air Compressors

Description

The Fast 35 is American Airworks' lightweight mobile high pressure piston compressors. The unit is 3-staged, air cooled and easy to transport due to the built in wheels. They provide a reliable source of breathing air (CGA Grade E / EN12021 standard) using a uniquely designed purification system (a coalescing prefilter installed before the active carbon/molecular sieve cartridge). It is suitable for private divers, small diving shops, diving boats, and small paintball teams. Its very low turning speed accomplishes a low noise level, almost zero vibration, and ensures long life operation. This is not a continuous duty compressor. It is not designed for refilling large storage cylinders.

Technical Data

Model	Drive	Pressure	Capacity	Purification	Power	RPM	Dimensions	Weight
Fast 35PE	1 or 3 phase 230VAC 60Hz	4,700 psi (324 bar)	3.5 cfm (103 lit/min)	3,200 ft³ @ 80°F 5,000 ft³ @ 68°F	3 hp (2.2 kw)	1,250	29 x 15 x 19 in (74 x 38 x 48 cm)	147 lbs (67 kg)
Fast 35PG	Gas Engine	4,700 psi (324 bar)	3.5 cfm (103 lit/min)	3,200 ft³ @ 80°F 5,000 ft³ @ 68°F	5.5 hp (4.1 kw)	1,250	35 x 15 x 19 in (89 x 38 x 48 cm)	138 lbs (63 kg)

• Oil Capacity: 0.42 qt (400ml) synthetic compressor oil.

• Permissible Ambient Temperature: 41°F (5°C) to 113°F (45°C)

Features

	35PE	35PG
Start/Stop Switch	●	--
Micronic Air Inlet/Outlet Filters	●	●
Pressure Maintaining and Non-Return Valve	●	●
Water Separator After 2 nd Stage	●	●
Combined BA Filter Including: Coalescing Pre-filter (0.5 Mg/m³ Oil Residual) and Purification Cartridge	●	●
Large Stainless Steel Intercoolers - Aftercoolers	●	●
Large Fan for Optimum Cooling 14" (355 mm dia)	●	●
Safety Valves in All Stages	●	●
Hour Meter	●	●
Final Stage Pressure Gauge	●	●
Manual Condensate Drains	●	●
Automatic Belt Tensioning System	●	●
Automatic Stop System	◇	◇

● Standard | ◇ Optional | -- Not Applicable

Special Voltages Available Upon Request



Fast Series Compressors Consumables and Accessories

Description

To ensure proper operation of your compressor for years to come, there are certain preventative maintenance steps that must be taken. It is better to spend a little bit of time and money to maintain your compressor, than a lot of time and money fixing a compressor that wasn't maintained properly.

American Airworks offers a wide range of consumables for your compressor needs. Our synthetic food grade oil works great with any compressor and is readily available. American Airworks purification filters remove moisture, carbon monoxide, hydrocarbons, oil, taste and odor, and particles. Filtration upgrades utilize additional drying cartridges to extend both filter life and time between filter changes. When used with inlet filters and coalescing pre-filters, this will ensure that your compressor is producing Grade E breathing air.



We offer air sampling kits and programs for one-time or recurring air quality testing, along with digital monitoring solutions. These include the AirCal 1000 for carbon monoxide and the AirCal 2000 for carbon monoxide and moisture monitoring. Both models include automatic compressor shutdown in the event that levels become too high meeting NFPA and OSHA regulations.



We also offer accessories such as fill hoses, air storage cylinders, gas boosters, air & oxygen filling stations, and air control panels to complete your air system needs.

