

AIRMAN



# Air Compressor Catalog

100 • 130 • 185 • 400 scfm models



Fuel Efficient • Quiet • Dependable • Profitable

### ***MMD Airman Air Compressors — Fuel Efficient. Quiet. Dependable. Profitable.***

*When it comes to product efficiency and dependability, MMD Airman Air Compressors have been designed to perform.*

They are extremely reliable, helping reduce downtime and maintenance. They meet environmental concerns and are fuel-efficient, light, and well-balanced.

#### **Tier4F and Tier4i; CARB compliant**

- The PDS185S-6E1 incorporates a Yanmar diesel engine that achieves emission reduction targets in compliance with the EPA's rules governing the Federal Clean Air Act and CARB's regulations.

#### **Easier, faster service and maintenance**

- Lower compressor RPM for longer compressor oil and compressor consumables service life — and for longer maintenance intervals.
- Compressor oil and fuel drains require no tools to open and close.
- New external oil/air filter element and cartridge-type fuel filter reduce service time and expense.
- All service areas are located on one side for easy accessibility and maintenance.



# PDS185S-6E1 — 185 scfm — Tier 4F



*Maximum air pressure  
and fuel economy*

## ***Quiet, high-efficiency design***

- **Noise level is as low as 62dBA** at 23 feet when idling. This is substantially less noise than competitors' machines.
- **Direct-injection engine** meets strict new EPA Tier4F emission standards (PDS185S-6E1).

## ***Top fuel economy***

- The PDS185S-6E1 offers the **best fuel economy** for any air compressor in its class.
- **Automatic engine idle** drops speed to 1300 rpm when there is no load on the engine.
- **Fuel economy is maximized** by “throttling” or restricting the air intake, depending on demand.
- **Auto-sensing ECO-MODE** decreases receiver tank pressure during unloading.

## ***Convenient access and storage***

- **Large, lockable gull-wing style doors** with gas struts virtually lift themselves for easy one-hand access to tool storage and service components.
- **Larger tool compartments** hold 90 pound breakers and other tools and hoses.

## ***Durable, reliable construction***

- **Powder-coated finish and stainless steel hardware** maintain their attractive appearance.
- **Engine is directly coupled** to the airend by a fiber gear coupler for improved power transmission, alignment and longevity.
- **Improved unloader valve and air pressure regulator** feature O-rings instead of diaphragms.

### ***Day-in/day-out power train dependability.***

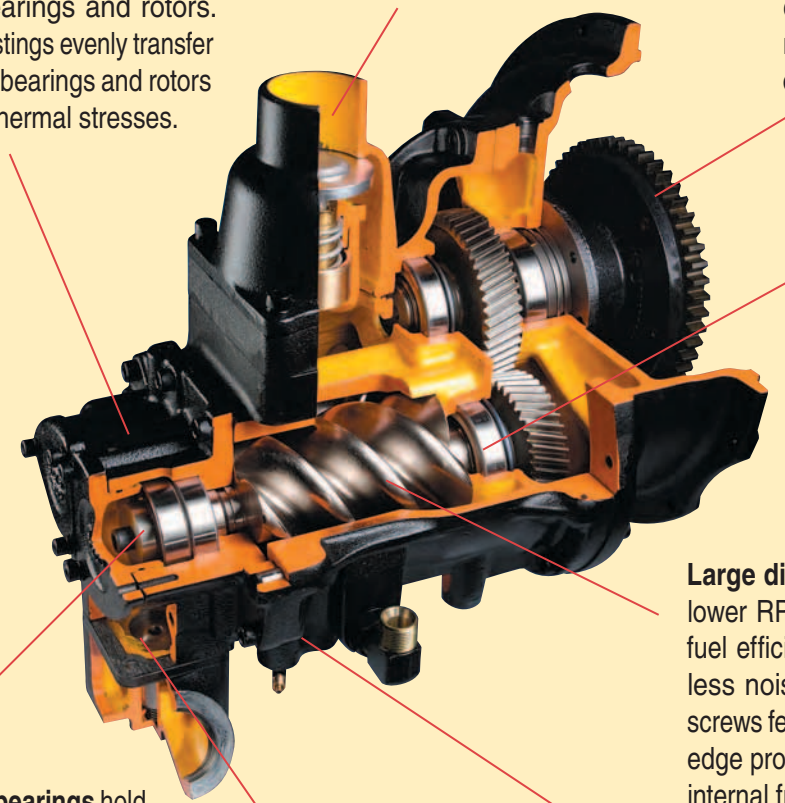
MMD Airman Air Compressors have proven reliability in thousands of applications. They are backed by a standard 5-year or 5,000 hour engine warranty on the PDS185S-6E1 and a 2-year or 2,000 warranty on other models. A standard

2-year airend and coupler warranty is extendable to 5 years with the use of Airman oil and filters. In addition, you'll be supported by MMD Equipment, your partner in success. *(See complete warranty for details.)*

**Thick, reinforced castings** deliver increased strength, increased dimensional stability in sealing areas, and better support to the bearings and rotors. Airman's heavier castings evenly transfer heat away from the bearings and rotors to reduce internal thermal stresses.

**One-way valve** automatically controls air entry into the compressor based on demand sensed by the pressure regulator.

**Fiber gear coupler** delivers quiet operation. Maintenance free, it allows easy removal of either the engine or airend. The coupling will not deteriorate due to vibration, heat or length of service.



**Oversized bearings** combine to give solid support during transfer of power from the gear train to the rotors. This ensures excellent reliability and extended service life.

**Double oversized bearings** hold the positions of the two rotors in a precise relationship. Bearings are pressure lubricated for both cooling and long service life.

**Check valve** eliminates back flow and allows multiple compressors to safely feed a common pressure tank in high-volume installations.

**Large diameter rotors** produce more air at lower RPMs, reducing wear and increasing fuel efficiency. Slower turning screws mean less noise and quieter operation. Airman screws feature a patented SmoothSeal™ rotor edge profile to eliminate blow-by and reduce internal friction.

**Pressurized oiling system** continuously lubricates and cools the mechanical components including rotors, gears and bearings. Airman's All-seasons™ oil is specially formulated to provide unmatched compressor reliability and service life.

# PDS185S-6E1 — 185 scfm — Tier 4F

## Tier 4F Yanmar Engine

- 5-year, 5,000 hour standard Yanmar engine warranty.
- EPA Tier 4F and CARB compliance.
- Advanced design, virtually eliminating diesel chatter.
- Englarged fuel filter for better diesel fuel cleaning and performance.
- Side-by-side radiator and oil cooler for reliable performance and easy cleaning.
- Quiet direct-injected engine reduces noise by 20%
- Outstanding fuel economy — operates at full load for 10 hours on 24 gallons of fuel. That's “real world” money in the pocket.



**Diagnostic Control Panel** — Monitors low fuel level, battery, fuel filter, engine oil filter, water temperature, compressor air filter, oil pressure, discharge air temperature and auto idle.



**Greater Towing Stability** — A wider stance, up to 15" tires, a re-engineered lower center of gravity, heavy duty leaf springs and a rugged “A” frame draw bar provide even greater strength and stability when towing.



Two 3/4" air outlets



**Exterior Drains** — Simplify maintenance; the receiver oil, engine oil and fuel drain are independent ports conveniently located on the exterior.



**Lockable gullwing doors and lockable control panel cover; LED tail lights** provide increased towing visibility in all weather conditions and are enhanced by multiple side and rear reflectors.

**Externally Mounted Separator Filter** — Located exterior to the tank and easily serviced by hand for decreased maintenance costs and downtime.



*A full range of sizes for any application.*



**PDS100S-6B4** 100 scfm • Tier 4i  
Shibaura Diesel Engine



**PDS130S-6B4** 130 scfm • Tier 4i  
Shibaura Diesel Engine



**PDS185S-6E1** 185 scfm • Tier 4F  
Yanmar Diesel Engine



**PDS400S-6C3** 400 scfm • Tier 3 Flex  
Isuzu Diesel Engine

### *The perfect undercarriage for your MMD Airman Air Compressor.*

Each Airman MMD Air Compressor has an ideally-sized, optionally available undercarriage. Standard features include:

- LED lights
- HD pivoting third wheel
- HD axle and leaf spring suspension
- HD safety chains
- "A" frame towing assembly — detachable and replaceable
- Up to 16" tires



# Specifications

	PDS100S-6B4	PDS130S-6B4	PDS185S-6E1	PDS400S-6C3
<b>COMPRESSOR</b>				
Type	Rotary Twin Screw, Single-Stage	Rotary Twin Screw, Single-Stage	Single-Stage, Oil Cooled, Screw-Type	Rotary Twin Screw, Single-Stage
Free Air Delivery	100 scfm	130 scfm	185 scfm	400 scfm
Working Pressure	100 psig	100 psig	100 psig	100 psig
Max. Working Pressure	120 psig	120 psig	120 psig	120 psig
Air Receiver Tank Capacity	7.92 gal.	7.92 gal.	5.29 gal.	25.88 gal.
Air Outlets	¾" x 2	¾" x 2	¾" x 2	¾" x 2 and 2" x 1
Engine Coupling Type	Fiber Gear Direct Coupling	Fiber Gear Direct Coupling	Fiber Gear Direct Coupling	Fiber Gear Direct Coupling
Lubrication System Type	Forced Lubrication by compressed pressure	Forced Lubrication by compressed pressure	Forced Lubrication by compressed pressure	Forced Lubrication by compressed pressure
Lubrication System Capacity	3.7 gal.	3.7 gal.	3.96 gal.	13.74 gal.
Oil Cooler Type	Separate Side-by-Side Oil Cooler and Radiator	Separate Side-by-Side Oil Cooler and Radiator	Separate Side-by-Side Oil Cooler and Radiator	Separate Side-by-Side Oil Cooler and Radiator
Separation Filter	External	External	External	Internal
<b>ENGINE</b>				
Model	Shibaura S773L-C	Shibaura N843L-C	Yanmar 4TNV88C-DHKS	Isuzu 4JJ1X
Type	Inline, Water-Cooled, Direct-Injected, Tier 4i Compliant	Inline, Water-Cooled, 4-Stroke, High-Swirl, Direct-Injected, Tier 4i Compliant	Water-Cooled 4-Cycle, Direct-Injection, Tier 4F Compliant	Inline, Water-Cooled, Direct-Injected, Tier 3 Compliant, Inter-Cooler
Cylinders	3	3	4	4
Displacement	69 cu.in. (1.130 L)	101.4 cu.in. (1.661 L)	133.6 cu.in. (2.189 L)	183 cu.in. (2.999 L)
Horsepower	27.1 hp	37.5 hp	47.6 hp (35.3 kw)	113.2 hp (84.4 kw)
Low Idle	1950 rpm	1600 rpm	1350 rpm	1300 rpm
High Idle	3500 rpm	3000 rpm	3000 rpm	2200 rpm
Fuel Consumption	1.6 gph @ Full Load 1.2 gph @ 70% Load 0.7 gph @ No Load	2.0 gph @ Full Load 1.5 gph @ 70% Load 0.8 gph @ No Load	2.4 gph @ Full Load 1.7 gph @ 70% Load 0.8 gph @ No Load	5.3 gph @ Full Load 4.1 gph @ 70% Load 2.0 gph @ No Load (with Auto-Idle)
Fuel Capacity	18.5 gal.	18.5 gal.	24.0 gal.	47.02 gal.
Cooling System Capacity	1.2 gal.	1.72 gal.	1.93 gal.	2.90 gal.
Oil Capacity	1.3 gal.	1.59 gal.	0.9 gal.	3.96 gal.
Electrical System	12-Volt, Maintenance-Free Battery	12-Volt, Maintenance-Free Battery	12-Volt, Maintenance-Free Battery	24-Volt, Maintenance-Free Battery
<b>WEIGHTS AND DIMENSIONS</b>				
Dry Weight	1742 lb.	1940 lb.	2120 lb.	4400 lb.
Weight with Towing Frame	1972 lb.	2170 lb.	2420 lb.	4998 lb.
Weight w/o Towing Frame	1742 lb.	1940 lb.	2120 lb.	4400 lb.
Length with Towing Frame	118 in.	118 in.	132 in.	174 in.
Length w/o Towing Frame	64 in.	64 in.	76 in.	108.5 in.
Width with Towing Frame	57 in.	57 in.	68 in.	78 in.
Width w/o Towing Frame	51 in.	51 in.	49 in.	60 in.
Height with Towing Frame	56.5 in.	56.5 in.	62 in.	77 in.
Height w/o Towing Frame	45 in.	45 in.	45 in.	59 in.
Operating Weight	2172 lb.	2370 lb.	2620 lb.	5374 lb.
<b>OPERATING PARAMETERS</b>				
Max. Altitude	4921 ft. (1500 m)	4921 ft. (1500 m)	4921 ft. (1500 m)	4921 ft. (1500 m)
Max. Ambient Temperature	113° F	113° F	113° F	113° F
Min. Ambient Temperature	5° F (-15° C)	5° F (-15° C)	5° F (-15° C)	5° F (-15° C)
Max. Incline	15°	15°	15°	15°
Sound Level	68 dBA	68 dBA	62 dBA	73 dBA

Features and specifications are subject to change without notice.