

**OUR PLANTS ARE CERTIFIED RECOGNIZED AS
BEING WORTHY OF ISO 9001 / ISO 14001 CERTIFICATION.**

Niigata plant:

Shimo Aozu, Tsubame-city, Niigata-prefecture, Japan.



ISO 9001 : JQA-0581

ISO 14001 : JQA-EM4670

SAFETY

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.

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DISTRIBUTOR :

**TWIN SCREW
COMPRESSOR**

AIRMAN®

*PORTABLE
SCREW
COMPRESSOR*

PDS SERIES

HOKUETSU INDUSTRIES CO., LTD.



NEW ASYMMETRIC ROTOR PROFILE

Fully Rationalized Plant

OUR COMMITMENT TO QUALITY, PERFORMANCE
AND DEPENDABILITY IS YOUR ASSURANCE THAT
THE “AIRMAN” COMPRESSORS WILL PROVIDE YEARS
OF PRODUCTIVE, TROUBLE-FREE OPERATION.



THE “AIRMAN” PDS SERIES COMPRESSORS OFFER THE FOLLOWING ADVANCED FEATURES;

UNIQUE SCREW DESIGN

Specially heat treated rotors are machined to extremely tight tolerances by utilizing the latest in computer controlled machinery.

PRO ENVIRONMENT (NOISE)

AIRMAN compressors are designed with environment in mind. Noise levels are way below EPA requirements and meet all EEC legislative requirements.

PRO ENVIRONMENT (EMISSION)

The efficiency of the AIRMAN unique means that required engine power is extremely low resulting in less emission into the atmosphere.

To allow the engine to warm-up under a light load AIRMAN compressors are fitted with a device which prevents pressure from building up in the receiver while maintaining the engine at idle speed.

CAPACITY CONTROL

Automatically adjusts capacity from 0-100%. Control design eliminates engine surging by optimizing engine speed at reduced capacity demands thus reducing wear and maximizing fuel efficiency.

OPERATIONAL PANEL

The panel, fitted at the rear for added operator's protection, monitors the operations of the machine.

SERVICEABILITY

To minimize service time AIRMAN compressors are fitted with wide opening doors which provide total access for servicing and routine maintenance. To further simplify servicing, all drainage points are fitted with valves and are piped to the outside of the unit, further simplify service. The fuel system of all models (except PDSF830) is equipped with an automatic air bleeder.

TOUGH METAL CONSTRUCTION

Pre-painting of the full chassis and body-work prior to assembly with an electrostatic process ensures a tough quality finish and eliminates unpainted, rust prone metal to metal contact areas.

SHUTDOWN & PROTECTION SYSTEM

AIRMAN compressors are constantly monitored and protected against high air discharge, high-coolant temperature, low engine oil pressure and other functions are also monitored. (for all models except upto PDS125S)

OPERATOR PROTECTION

Fan belt covers and an over-pressure relief valve are provided to offer additional operator protection.

After-Cooler Series

Compressor supplying air energy without water vapor

After-cooler to eliminate water moisture from the compressed air.
Suitable for sand-blasting and chipping.



PDS75SC



PDS100SC



PDS130SC



PDS265SC
[Box type]



PDS265SC
[Trailer type]



PDS390SC
[Box type]

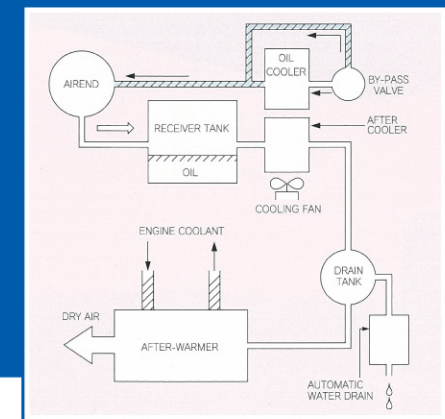
Dry-Air Series

Compressor supplying dry air

Compact body with a built-in After-cooler, Auto-drain, After-Warmer, etc.
Supply dry air in even rainy or high humidity condition.
Suitable for pipe cleaning, painting, and sand-blasting.



PDS655SD



SPECIFICATIONS

Model	PDS75SC-5C1 [Box] After-Cooler	PDS100SC-5C1 [Box] After-Cooler	PDS130SC-5C3 [Box] After-Cooler	PDS185SC-5C5 [Box] After-Cooler	PDS265SC-5B2 [Box] After-Cooler
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COMPRESSOR

Type	Rotary Twin Screw, Single-Stage, Oil-cooled				
Free Air Delivery m ³ /min	2.1	2.8	3.7	5.2	7.5
Rated Operating Pressure kg/cm ² (PSIG) (kPa)	7(100)(690)	7(100)(690)	7(100)(690)	7(100)(690)	7(100)(690)
Receiver Tank Capacity m ³ (US gal)	0.02(5.3)	0.02(5.3)	0.02(5.3)	0.02(5.3)	0.069(18.2)
Discharger Air Temperature	Atmospheric Temperature +20°C				
Air Outlets	20A×2pcs	20A×2pcs	20A×2pcs	20A×3pcs	50A×1pc, 20A×4pcs

ENGINE

Make/Model	IHI SHIBAURA S753-D	IHI SHIBAURA S733L-D	YANMAR 3TNV88-BDHK	YANMAR 4TNV88-BDXHKS	YANMAR 4TNV98T-NHK
Type	4 cycle, water cooled, swirl-chamber type		4 cycle, water cooled, direct injection type		4 cycle, water cooled, direct injection type w/ turbo charger
No. of Cylinder	3	3	3	4	4
Total Displacement cc	954	1,131	1,642	2,189	3,319
Rated Output PS(kW)/rpm	20.7(15.2)/3,500	25.8(19)/3,500	36.5(26.9)/3,000	47.5(34.9)/3,000	83.2(61.2)/2,500
Fuel Tank Capacity Liters(US gal)	28(7.9)	28(7.9)	70(18.5)	90(23.8)	115(30.4)
Lubrication Oil Capacity Liters(US gal)	4.2(1.1)	4.5(1.2)	6.7(1.8)	7.4(2.0)	10.5(2.8)

DIMENSION & WEIGHT

Overall Length mm(inch)	1,580(62.2)	1,580(62.2)	1,700(66.9)	1,970(77.6)	2,050(80.7)
Overall Width mm(inch)	750(29.5)	750(29.5)	890(35.0)	950(37.4)	1,200(47.2)
Overall Height mm(inch)	865(34.1)	865(34.1)	1,080(42.5)	1,080(42.5)	1,250(49.2)
Weight(Dry) kg(lb)	435(959)	445(981)	650(1,433)	755(1,631)	1,180(2,601)
Weight(Wet) kg(lb)	475(1,047)	485(1,069)	730(1,609)	850(1,874)	1,320(2,910)
Tire Size	—	—	—	—	—

●C: with After Cooler D: with After Cooler and After Warmer
●Specifications are subject to change without notice.
●It is available for a trailer type for PDS265SC/SD and PDS390SC/SD.

SPECIFICATIONS

PDS265SC-4B2 [Trailer] After-Cooler	PDS390SC-5B1 [Box] After-Cooler	PDS390SC-4B1 [Trailer] After-Cooler	PDS390SD-5B1 [Box] Dry-Air	PDS390SD-4B1 [Trailer] Dry-Air	PDS655SD-4B2 [Trailer] Dry-Air
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Rotary Twin Screw, Single-Stage, Oil-cooled					
7.5	11.0	11.0	11.0	11.0	18.5
7(100)(690)	7.1(102)(700)	7.1(102)(700)	7.1(102)(700)	7.1(102)(700)	7.1(102)(700)
0.069(18.2)	0.098(25.9)	0.098(25.9)	0.098(25.9)	0.098(25.9)	0.189(50)
Atmospheric Temperature +20°C			Atmospheric Temperature +40°C		
50A×1pc, 20A×4pcs	50A×1pc, 20A×4pcs	50A×1pc, 20A×4pcs	50A×1pc, 20A×4pcs	50A×1pc, 20A×4pcs	50A×1pc, 20A×2pcs, 10A×1pc

YANMAR 4TNV98T-NHK	ISUZU DD-4BG1T	ISUZU DD-4BG1T	ISUZU DD-4BG1T	ISUZU DD-4BG1T	HINO JO8C-V
4 cycle, water cooled, direct injection type w/ turbo charger			4 cycle, water cooled, direct injection type w/ turbo charger		4 cycle, water cooled, direct injection type
4	4	4	4	4	6
3,319	4,329	4,329	4,329	4,329	7,961
83.2(61.2)/2,500	110(80.9)/2,400	110(80.9)/2,400	110(80.9)/2,400	110(80.9)/2,400	160(118)/2,500
115(30.4)	180(47.6)	180(47.6)	180(47.6)	180(47.6)	270(71.3)
10.5(2.8)	13(3.4)	13(3.4)	13(3.4)	13(3.4)	23(6.1)

2,980(117.3)	2,600(102.4)	3,875(152.6)	2,790(109.8)	3,875(152.6)	3,650(143.7)
1,630(64.2)	1,300(51.2)	1,800(70.9)	1,300(51.2)	1,800(70.9)	1,685(66.3)
1,715(67.5)	1,400(55.1)	1,770(69.7)	1,400(55.1)	1,770(69.7)	2,125(83.7)
1,320(2.910)	1,710(3.770)	1,880(4.144)	1,765(3.891)	1,935(4.265)	3,390(7.472)
1,460(3.219)	1,925(4.244)	2,095(4.618)	1,980(4.365)	2,150(4.739)	3,730(8.222)
6.50-14 8PR×2W	—	6.50-14 8PR×2W	—	6.50-14 8PR×2W	6.50-14 8PR×4W