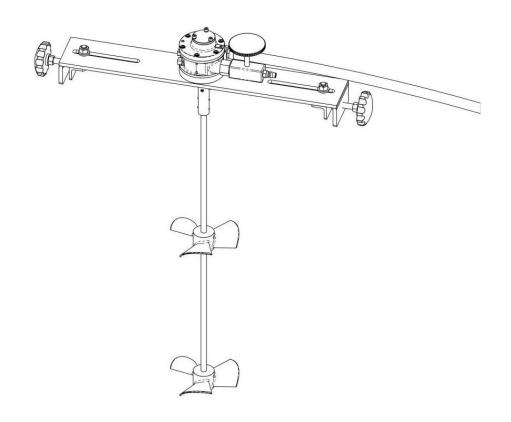




Operation and Maintenance Guide



PS-200

Models	Descriptions
PS-200	Paint Stirrer 200L

Read this manual carefully before installing, operating or servicing this equipment. It's the responsibility of the employer to ensure this manual is read by the operator. Please preserve this manual.

Table of Contents

- 3 Introduction
- 3 Technical Data PS-200
- 3 Operating and Safety Instructions
- 5 Suggested Lubricants
- 6 Diassembly and Re-assembly of PS-200
- 9 Bill of Materials for PS-200
- 10 Eu Declaration Of Conformity
- 11 Warranty Certificate



Introduction

Teryair Equipment Pvt. Ltd is engaged in Manufacturing of Pneumatic paint stirrers & Pneumatic Vane Motors. Our paint stirrer range is known for there best features like operationally efficient, corrosion-resistant, high material strength, durable, dimensional accuracy, and flexibility for its use. Our paint stirrer gives mixing / stirring unique solution without affecting the quality of paint.

Technical Data PS-200

Model No / IMPA No	PS-200 / 27 05 82	
Capacity	200 Litres	
Recommended RPM Range	100 to 500 R.P.M. Maximum.	
Air Motor Kw / H.P.	2.1 Kw / 2.8 H.P.	
Air Consumption - CFM	20 to 33 CFM	
Impeller Shaft Length	775 mm – SS 304 Material	
No of Impellers	2 impellers -Aluminum	
Air Flow Control for RPM	½" BSW Brass Needle Control Valve	
Air Inlet connection	SS 400 PM quick connect coupling	
Air Outlet connection	½" BSW X 5/8 Brass Hose Nipple	
	a) 1 Meter long 5/8" Breaded Hose Pipe – 1 no Air Exhaust	
Accessories supplied with Product	b) SS Hose Band 5/8" Hose – 1 no – Air Exhaust	
	c) Star Knob M12 with Hex Bolt & Washer – 2 sets.	
Over All Dimensions – L X W X H mm	660 mm X 125 mm x 950 mm	

Intended use

Paint stirrer gives mixing / stirring unique solution without affecting the quality of paint. Keep the paint viscosity uniform during painting.

Prohibitive use

Any use in an explosive atmosphere is prohibited. Use by an underage, untrained or person who is under the influence of drugs or alcohol. Use with non-genuine spare parts or accessories is prohibited

Safety Instructions

Following symbols are used through out this manual.

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If not followed could cause personal injuries

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Safety and protective clothing, eyewear, headgear, ear protection, gloves and footwear to be worn during operation of this Paint Stirrer. Please see Table A at end of this section.

Warning

Operators under 18 not allowed to operate this Paint Stirrer. Operators must be made familiar with the instructions in this manual before attempting to operate the Paint Stirrer.



/ Warning

Take care not to exceed the maximum 6.2 bar (90 PSI) supply air pressure. Use a filter and regulator and lubricator as close to the Paint Stirrer inlet as operation will allow ensuring a clean and regulated and lubricated air flow.



Caution

Use only genuine Teryair or Teryair approved accessories.



/ Warning

Make sure to start or stop the use of product through Flow control valve only and not through directly from main air supply.



/ Warning

This Paint Stirrer is not designed for use in an explosive environment.



... Caution

Completely turn off the Paint Stirrer and disconnect air supply line before attempting any service. Read Assembly and Disassembly instructions.



! Caution

Keep hoses in good condition. Check hoses for signs of wear, cracks & bulges and ensure that they are secure. Accidental disconnection while hose is pressurized makes the hose whip and can be a safety hazard.



! Caution

Please check the hose connection prior to starting Paint Stirrer.

Be aware that these Paint Stirrer can create dust & flying debris. Make sure that the air exhaust should be through provide Breaded pipe & away from barrel opening to avoid the contamination of mixture.

Keep hands & clothing away from moving parts.

Store these Pneumatic Paint Stirrer in secure & dry environment.

Do not allow the Paint Stirrer to run unattended.

Do not modify this Paint Stirrer in any way as this will invalidate the warranty and could lead to serious injury.

/ Warning

Do not use the Paint Stirrer in potentially explosive environments.

Suitable gloves must be worn at all times during operation.

Safety Shoes with toe cap protection are a must during operation.

Operating instructions

- Connect the air supply to hose coupler. Make sure the air connection is off.
- Rotate the Flow control valve in clockwise direction to ensure it is closed. Make sure to Start or Stop the use of product through Flow control valve only not through directly from main air supply.
- Now set the air pressure at 6.2 Bar (90 PSI) and open the air supply.
- Now rotate the Flow control valve counter clockwise slowly.
- Now the impeller shaft will rotate slowly. Open the Flow control valve further to have optimum rpm without any wobbling of impeller shaft. Note- It is recommend not to cross the stirring speed above 1000 r.p.m.
- Accurate stirring speed is to be set as per viscosity requirement of mixing media by operating flow control valve.

Daily before operating

Close the air supply line. Open the Flow control valve to release the extra air in the inlet hose. Now close the Flow control valve and disconnect the air supply.



Lubrication requirements

Always install a line lubricator on the air line. A Filter Regulator Lubricator unit (FRL)is strongly recommended. Keep the lubricator bowl topped up with recommended grade of oil. Running the Air motor without lubrication is likely to cause damage to the components causing premature replacement.

Air supply

The Paint Stirrer work best at 6.2 bar (90 psi) air pressure. The air should be clean, dry and lubricated. Install a FRL unit as close as operation will permit.

Hoses

Daily before operation check the hoses, especially the high pressure hoses for damage or leaks Use genuine Teryair spares and if possible mention the serial number of the Pneumatic Needle Scaler when ordering spares.

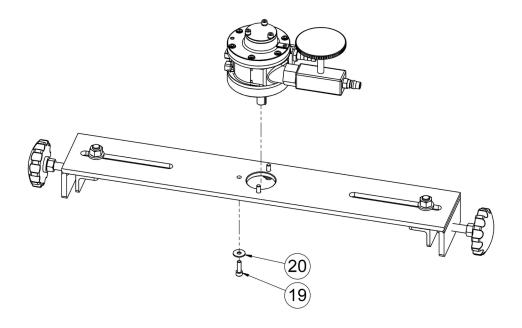
Suggested Lubricants

Brand	Above 27 Deg C (From 5 Deg C to 27 Deg C	Below 5 Deg C
Shell	Toona R.72	Toona R.41	Toona R.27
Mobil	Almo 529	Almo 527	Almo 525
Esso		Arox EP.65	Arox EP.45
Caltex	Rando Oil 100	Rando Oil 100	Rando Oil 46
СР			Airolene Tool OiI
Texaco	Regal Oil F (R&O)	Regal Oil PE (P&E)	Regal Oil PE (R&O)
Daltron	Silkolene 881	Silkolene 548/T	Silkolene 733
Burmah Castrol	Castrol RD Oil 3	Castrol RD Oil Light	Megna SPX
Duckham	Garnet 7	Garnet 6	Zero Fio 5
Sternol	Merlin 87	Merlin 71	Merlin 54
Petrofina	Purifoc 53	Purifoc 46	Purifoc 32
Chevron	Vistac Oil 18X	Vistac Oil 19X	Vistac Oil 9X
Indoil	Servo Spyn -22		

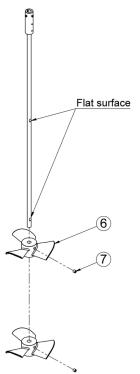
Diassembly and Re-assembly of PS-200

The Piant stirrer supplied in dis-assembled condition. Thus below procedures must be followed to assemble the same.

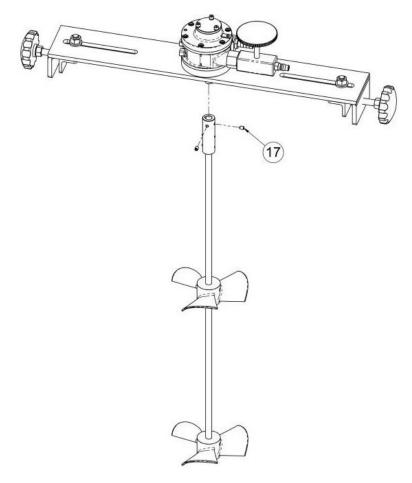
1. Assemble the Air motor () with the main bracket () with washer () and bolt ().



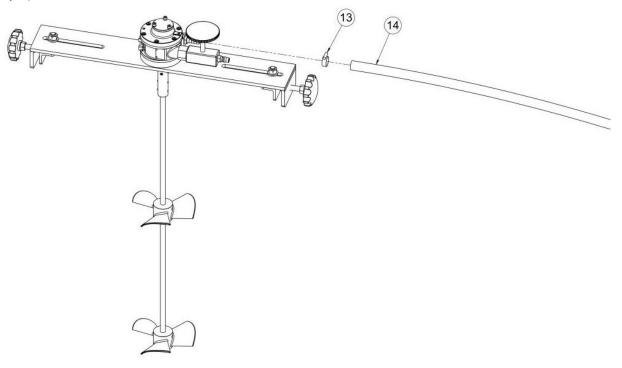
2. Assemble the impeller (6) on the main impeller shaft assembly at machined flat portion. Makesure the flat portion is aligned with the threaded hole of impeller before fixing with grub screw (7).



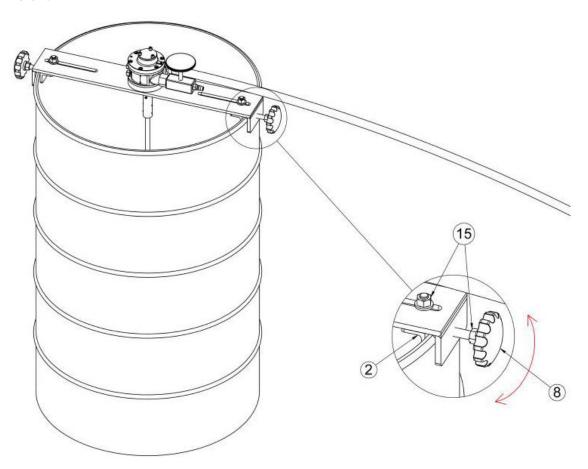
3. Now align the key way of coupler to the impeller shaft assembly of air mo tor and fix with grub screw (17).



4. Now connect the exhaust pipe (14) with hose clip (13) to the hose nipple (12).



Installation



- 1. Now loosen the hex nut (15) both on side knob (8) and side support (2).
- 2. Now rotate the knob (8) counter clockwise to loose on both sides. Slide the side support (2) inwards.
- 3. Now fix the PS-200 on the drum collar as shown.
- 4. Once located, adjust the side support (2) touching the inner wall of drum and tighten the nut (15).
- 5. Now rotate the knobs (8) to tight the main bracket. Once fixed tighten the nut (15) on the knobs (8) to avoid loosening during operation.

Bill of Materials for PS-200

Sr.No	Description	Part Number	PS-200
1	Main Bracket	763 33 01	1
2	Side Support	763 33 02	2
3	Air Motor Size-4	804 00 00	1
4	Coupler	763 21 01	1
5	Main Impeller Shaft	763 27 01	1
6	Impeller	763 10 01	2
7	Grub Screw	763 90 05	2
8	Knob	763 50 01	2
9	Adaptor	763 50 02	1
10	Flow Control Valve	763 50 03	1
11	Coupler 400PM	35.13.55	1
12	Hose Nipp;e	566 50 17	1
13	Hose band	61.40.54	1
14	Hose	763 50 04	1Mtr.
15	Hex. Nut	763 90 02	4
16	Plain washer	566 90 26	2
17	Grub Screw	566 90 06	2
18	Split Dowel	763 90 03	2
19	Allen Bolt	763 90 04	3
20	Plain Washer	566 90 12	3



EU DECLARATION OF CONFORMITY

We hereby certify that the Listed Product stipulated below comply with all relevant provisions of the machinery directive (2006/42/EC) and the national laws and regulations adopting this directive.

Description : Paint Stirrer

Model Number : PS-200

Is in conformity with the provisions of the following European Directives: (2006/42/EC) Machinery Safety and Harmonized standards

ISO 12100-1: 2010: Safety of Machinery -general Principles for Design -Risk Assessment and Risk Reduction.

Registered Office : 416 Gundecha Industrial Complex, Akuril Road,

Kandivali East, Mumbai – 400101, Maharashtra, India.

Web site : www.teryair.com

Works : A-1, Tirupati Udyog Nagar, Sativali Road, Vasai East,

Palghar - 401208, Maharashtra, India.

CE certification registration no - C E 16831

Issued by – BMQR Certifications Pvt Ltd. www.cemarking-india.com

Valid Till - 03/11/2025

Signed for and on behalf of

TERYAIR EQUIPMENT PVT. LTD

Place of Issue: Vasai





Warranty Certificate

Every product manufactured by Teryair is built to meet the highest standards of quality.

Teryair warrants that the Products, accessories and parts manufactured or supplied by the company be free from defects in material and workmanship for a period of six months from date of Teryair authorized dealer invoice to customer, or one year from date of Teryair invoice to dealer, whichever is earlier. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Teryair products and parts is beyond our control, Teryair cannot guarantee the suitability of any product or part for a particular application and Teryair shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Teryair does not warranty bought out products or components such as electric motors and hardware but will assist in directing warranty queries to the dealer/manufacturer responsible. Teryair responsibility is limited solely to replacement or repair of defective Teryair products or components.

Dealer/End User shall have no right or remedy and Teryair shall have no liability or obligation under the warranty, if: (i) a Product is altered, changed, modified or tampered with in any way, (ii) a Product is damaged after deposit with the transporter for shipment; (iii) a Product is not properly preserved, packaged, stored, processed or handled after receipt; (iv) a Product is not used and maintained in accordance with Teryair's recommended operating and maintenance manuals, instructions and procedures, if any; (v) a Product is not properly incorporated or installed in, or not properly combined with, an Other Product; (vi) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, a failure, substandard performance or other issue with another product, material, component or part not supplied by Teryair; (vii) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, compliance with any design, specification or other specific requirement of Dealer/End User; (viii) a Product is used in a manner, with a substance or for a purpose other than the normal manner, substance and purpose for which it is intended or is otherwise subjected to abnormal use or service; (ix) a Product is subjected to a power surge, brown out or other similar occurrence; (x) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, normal wear and tear of such Product (including, without limitation, things such as worn seals, diaphragms, balls, O rings, gaskets, chisels, cutters, hoses and other such wearing components; (xi) the issue with a Product is directly or indirectly or indirectly.

Model Number: PS-200

M Yadav, Q.A. Manager

(Company Seal)



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