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# AIRLESS PAINTING EQUIPMENT

## PNEUMATIC & ELECTRIC

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*Teryair is a specialist manufacturer of precision pneumatic tools for the marine and industrial markets. Teryair manufacturing factories in India are certified to ISO 9001 standards. We implement tight quality controls and high process standards from manufacturing to packaging to ensure world class quality experience.*

*Teryair designs and manufactures products that it exports to over 50 countries worldwide. The products are known for their durability and quality standards. Many of the companies distributorship are over 20 years strong. Teryair's manufacturing excellence ensures that teryair products deliver equivalent performance and durability as the worlds leading brands, but at a fraction of the price. Teryair is actively looking for distributors in un-represented countries!*

## What is meant by airless painting equipment ?

*In traditional spray painting, the compressed air gets mixed up with the painting media to create a spray pattern.*

*The adhesiveness/bonding of spray media with surface becomes highly dependent on the quality of compressed air. Contaminated compressed air affects the quality of spraying media & its bonding.*

*Airless spray painting equipment creates the spray media pattern without contact with compressed air. The spray pattern gets generated by endurance pump which compresses the spraying media to generate spray pattern. Thus the high quality of spray media remains intact without contamination.*

## Facilities

*Research and Development*

*Teryair employs cutting-edge design software and has trained engineers. Teryair has been consistently improving the product by listening to user feedback. And new products launched every year.*

*Quality Assurance*

*Under the environment of a robust ISO 9001:2015 system, teryair ensures that customer expectations are met and exceeded.*

*Infrastructure*

*Teryair is located on the outskirts of Mumbai, India's thriving hub of commerce and industry. The factories are fully equipped to produce quality pneumatic equipment. A large percentage of components are manufactured in-house and in this way, strict control over the quality, production planning and reliability is achieved.*

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## Teryair Pneumatic Airless Sprayers Applications

- *High - pressure airless spraying machines are intended to use for the spraying of new coatings or thick - film, heavy - duty anti-corrosive coatings which are difficult to operate.*
- *This machine is used in industrial departments such as steel structures, ships, automobiles, railway vehicles, geology, and astronautics and so on.*

## Teryair Pneumatic Airless Sprayers Features

- *Easily replacement filters.*
- *Consistent spray pressure.*
- *Easy to adjust output pressure.*
- *variety of hose lengths, guns and spray available for different spray applications.*
- *Easy to clean and maintain.*

## Selection of the right teryair pneumatic airless sprayer

**Step One**: *Identify the material/materials that you will be spraying. Most manufacturers provide a detailed specification sheets like MSDS, please obtain and study for the material being sprayed.*

**Step Two**: *Identify the Tip size and Fan size needed to atomize the material you are spraying. (see Material Compatibility and Tip Selection Chart, ) Tip size pertains to the orifice (hole) size that the fluid is pressurized through and atomized. Fan size pertains to the spray width, each tip size comes with three options of fan width, see Tip Detail Chart. Thicker, more viscous material needs larger tip sizes to be atomized. Of course, you need a more powerful machine with the ability to create more pressure in the fluid and put out more flow to atomize thicker fluids when compared to thinner fluids.*

*Teryair makes three different sized and practical models that cover the entire range of fluids that need to be sprayed.*

*The larger models can be regulated to operate at lower pressures and flow rates thus making them more flexible and versatile, if budgets are not a constraint.*

*If the scope of application will never include thicker materials, then the application is well served by the smallest sprayer that meets the tip conditions.*

**Step Three**: *Keep in mind that you might want to use longer spray hoses or extension poles for more productivity to reduce the need to move the pump from place to place and reach inaccessible areas. In these cases, there is a drop in delivered pressure and flow due to hose friction and bends. So it's good selection policy to always select a Teryair model with a higher capability to overcome this contingency. See the chart below and select the appropriate model chart.*

*PPS02 can atomize fluid through a max tip size from 0.011 to max 0.017*
*PPS04 can atomize fluid through a max tip size from 0.011 to max 0.021*

*And*

*PPS 11 can atomize fluid through a max tip size from 0.011 to max 0.025*

**Notes** :
*There are some fluids that are NOT recommended to be sprayed through this Teryair range of sprayers. These are any Solvent based flammable fluids and fluids that have a very high viscosity. Alternatively, contact teryair at info@teryair.com with details of your application and teryair engineers are standing by to suggest the best solution for your needs.*

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# Pneumatic Airless Sprayers

*Teryair Air Powered Airless Paint Sprayers are used for marine application has much tougher fitting including specially treated, chromed stainless steel rods cylinder which with withstands wear and operates over a longer span of time when pumping highly abrasive or corrosive materials.*

**PPS-02**

**PPS-04**

**PPS-11**

| Model No | PPS-02 | PPS-04 | PPS-11 |
|---|---|---|---|
| Maximum Fluid (Paint) Working Pressure | 2300 PSI (16.1MPa) (161 Bar) | 3300 PSI (28MPa) (210 Bar) | 3300 PSI (50MPa) (227 Bar) |
| Air Inlet Connection | 1/2” BSP Female | 1/2” BSP Female | 1/2” BSP Female |
| Gun Connection | 1/4” NPS(m) | 1/4” NPS(m) | 1/4” NPS(m) |
| Maximum Tip Orific | 0.11” to 0.017” | 0.11” to 0.019” | 0.11” to 0.019” |
| Fluid Output Rate | 2 Liters/min (0.439 gpm) | 4 Liters/min (0.879 gpm) | 11 Liters/min (2.419 gpm) |
| Maximum Inlet Air Pressure | 100 PSI (0.7MPa) (7Bar) | 100 PSI (0.7MPa) (7Bar) | 100 PSI (0.7MPa) (7Bar) |
| Air Consumption Maximum | 18 CFM to 25 CFM | 18 CFM to 25 CFM | 45 CFM |
| Wetted Parts Material Of Construction | Stainless Steel SS316 Nickel Plated Carbon steel, Tugsten Carbide, PTFE | | |

**** Note:- Air Consumption when spraying standard paints. Higher viscosity fluids while require proportionally higher air flow rates.***

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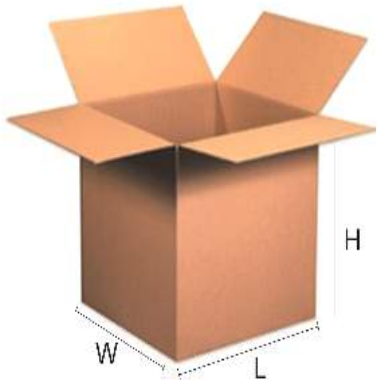
## Pneumatic Airless Sprayers Standard Accessories

| illustration no | Description |
|---|---|
| - | 1 meter Paint suction hose |
| 1 | 15 meter Paint delivery hose, 6mm ID, Nylon reinforced, 3300 PSI |
| - | 1/2” BSP Filter Regulator Lubricator Unit |
| 2 | 5 Meter Air inlet hose, 16mm ID, PVC reinforced, 200PSI |
| 3 | Gun complete with Tip 517 and filter. |
| 4 | Spare Seal Kit |
| 5 | Maintenance Tools Kit |
| - | Frame with Wheels |

## Material Compatibility & Tip Selection Chart

| Paint Type | Tip Orific Size Inchs | |
|---|---|---|
| Varnishes (before low VOC)* | 0.009 ~ 0.011 | Thin Materials |
| Lacquers, clear coats* | 0.009 ~ 0.011 | |
| Shellac (clear)* | 0.009 ~ 0.013 | |
| Stains - transparent | 0.011 ~ 0.013 | |
| Water sealers (thin, clear) | 0.011 ~ 0.013 | |
| Tung Oil (pure thinned) | 0.011 ~ 0.013 | |
| Lacquers, water borne* | 0.012 ~ 0.014 | Medium |
| Acrylics, clear* | 0.012 ~ 0.014 | |
| Acrylics 100%, latex int | 0.013 ~ 0.015 | |
| Varnishes (low VOC)* | 0.013 ~ 0.015 | |
| Polyurethanes* | 0.013 ~ 0.015 | |
| Stains - solid | 0.013 ~ 0.015 | |
| Enamels - oil-base | 0.013 ~ 0.015 | |
| Latex paint - interior | 0.013 ~ 0.017 | |
| Latex paint - exterior | 0.015 ~ 0.019 | |
| Primers - latex | 0.015 ~ 0.017 | |
| Primers - oil | 0.017 ~ 0.019 | |
| Heavy Latex | 0.021 ~ 0.025 | Thicker |
| Elastomerics (smooth) | 0.021 ~ 0.025 | |

## Dimensions & Weight




| Model No | PPS-02 | PPS-04 | PPS-11 |
|---|---|---|---|
| Length mm | 500 | 500 | 600 |
| Width mm | 470 | 470 | 630 |
| Height mm | 775 | 775 | 1150 |
| Net Weight Kgs | 29 | 29 | 53.6 |

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## Reversible Tips

| IMPA Code | Teryair Code | Tip Model No | Orifice Size Inchses | Pattern (Fan) Width | Flow Rate GPM | Flow Rate LPM |
|---|---|---|---|---|---|---|
| 27 09 11 | ST15/4 | 415 | 0.015 | No - 4 203 - 254 mm ( 8" ~10") | 0.24 | 0.91 |
| 27 09 12 | ST17/4 | 417 | 0.017 | | 0.31 | 1.17 |
| 27 09 13 | ST19/4 | 419 | 0.019 | | 0.38 | 1.47 |
| 27 09 14 | ST21/4 | 421 | 0.021 | | 0.47 | 1.79 |
| 27 09 15 | ST23/4 | 423 | 0.023 | | 0.57 | 2.15 |
| 27 09 16 | ST25/4 | 425 | 0.025 | | 0.67 | 2.54 |
| 27 09 21 | ST13/5 | 513 | 0.013 | No - 5 254 - 305 mm ( 10" ~12") | 0.18 | 0.69 |
| 27 09 22 | ST15/5 | 515 | 0.015 | | 0.24 | 0.91 |
| 27 09 23 | ST17/5 | 517 | 0.017 | | 0.31 | 1.17 |
| 27 09 24 | ST19/5 | 519 | 0.019 | | 0.38 | 1.47 |
| 27 09 25 | ST21/5 | 521 | 0.021 | | 0.47 | 1.79 |
| 27 09 26 | ST23/5 | 523 | 0.023 | | 0.57 | 2.15 |
| 27 09 27 | ST25/5 | 525 | 0.025 | | 0.67 | 2.54 |
| 27 09 31 | ST13/6 | 613 | 0.013 | No - 6 305 - 356 mm ( 12" ~14") | 0.18 | 0.69 |
| 27 09 32 | ST15/6 | 615 | 0.015 | | 0.24 | 0.91 |
| 27 09 33 | ST17/6 | 617 | 0.017 | | 0.31 | 1.17 |
| 27 09 34 | ST19/6 | 619 | 0.019 | | 0.38 | 1.47 |
| 27 09 35 | ST21/6 | 621 | 0.021 | | 0.47 | 1.79 |
| 27 09 36 | ST23/6 | 623 | 0.023 | | 0.57 | 2.15 |
| 27 09 37 | ST25/6 | 623 | 0.025 | | 0.67 | 2.54 |

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# Other Painting Accessories & Equipment

*Teryair High-Pressure Nylon Paint Spray hoses are PVC covered nylon material which is strengthened with stainless steel braided wire. These hoses are durable but lightweight and flexible.*

| IMPA Code | Teryair Part No | Length | I.D. | Work Pressure | | Coupled With |
|---|---|---|---|---|---|---|
| | | Mtr | | Min. PSI | Max. PSI | |
| 27 01 61 | 4590161 | 10 | 6 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 62 | 4590162 | 15 | 6 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 63 | 4590163 | 20 | 6 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 64 | 4590164 | 30 | 6 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 65 | 4590165 | 10 | 9 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 66 | 4590166 | 15 | 9 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 67 | 4590167 | 20 | 9 | 3000 | 4000 | 1/4" NPS(F) |
| 27 01 68 | 4590168 | 30 | 9 | 3000 | 4000 | 1/4" NPS(F) |

*Teryair Airless Paint Spray Hand Guns are available in three sizes.*

| IMPA Code | Teryair Part No | Work Pressure | Inlet Size | Orifice Diam |
|---|---|---|---|---|
| 27 01 21 | HGS - 03 | 3300 | 1/4" NPS(M) | 3 mm |
| 27 01 22 | HGS - 0.4 | 3300 | 1/4" NPS(M) | 4 mm |
| 27 01 23 | HGS - 2.3 | 3300 | 1/4" NPS(M) | 2.3 mm |

*Teryair High-Pressure Nylon Paint Spray hose and Gun.*

| IMPA Code | Teryair Part No | | Contents |
|---|---|---|---|
| 27 01 17 | 4599717 | HGS-03 | 1) St. Gun : 1No. |
| | | ST21/6 | 2) Tip Size-621 : 1No. |
| | | 4590163 | 3) Paint Hose 1/4 x 20mtr |
| 27 01 18 | 4599718 | HGS-04 | 1) St. Gun : 1No. |
| | | ST21/5 | 2) Tip Size-215 : 1No. |
| | | 45901464 | 3) Paint Hose 1/4 x 30mtr |

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*Teryair Paint Spray Pole Guns increase comfort, speed and productivity needed to spray hard to reach areas without using ladders or scaffolding.*

| IMPA Code | Teryair Part No | Length (mm) | Max. Work Pressure (PSI) | Inlet Size |
|---|---|---|---|---|
| 27 01 26 | PSG - 09 | 900 | 3500 | 1/4" NPS(M) |
| 27 01 27 | PSG - 18 | 1800 | 3500 | 1/4" NPS(M) |
| 27 01 28 | PSG - 24 | 2400 | 3500 | 1/4" NPS(M) |

*Teryair Paint Stirrers are driven by compressed air and used to stir the paint.*

| | |
|---|---|
| Teryair Part No | 270581 |
| RPM | 1580 |
| Air Consumption CFM | 24.1 |
| Motor - Kw / H.P | 1.16 Kw / 1.50 H.P |
| Height - For Bucket Stirring | 550 mm Max |
| Length of Shaft | 550 mm |
| Air Inlet Connection | 3/8" BSP Female |
| Hose Nipples Supplied With Product | 1/2" X 3/8" BSP |
| Over all Dimension in mm | 265W X 125B X 780 H |

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# Pneumatic Paint Stirrers

*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.*

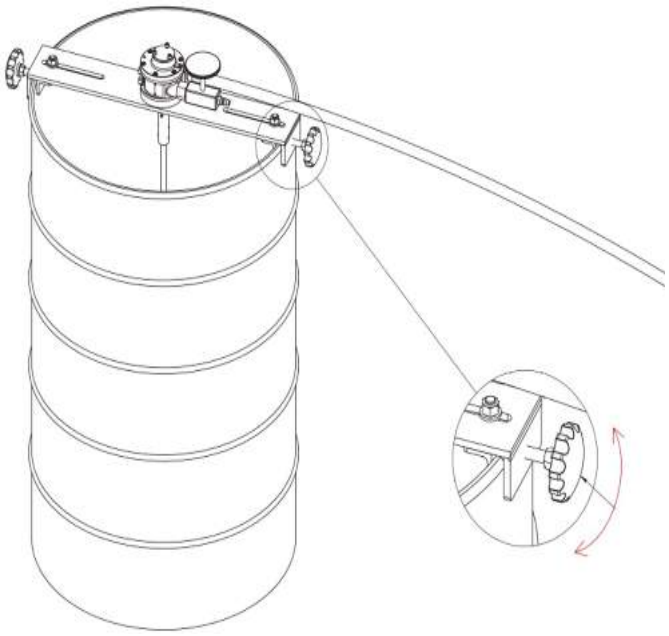
## Application :

- *Automobile Industry :- Mixing of Paints before application.*
- *Construction Industry :- Batch Mixing of chemicals for water proofing ,fast querying.*
- *Chemical Plant :- Homogeneous Batch mixing of more than one chemical for defined period of mixing Cycle.*
- *Laboratories :- Batch mixing for experiments.*

**PS-200**

## Technical Data :

| | |
|---|---|
| **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 |
| **Accessories supplied with Product** | a) 1 Meter long 5/8" Breaded Hose Pipe – 1 no Air Exhaust<br>b) SS Hose Band 5/8" Hose – 1 no – Air Exhaust<br>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 |



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# Electric Airless Paint Sprayers

*Teryair Electric Powered Airless Paint Sprayers are portable paint sprayers with considerable operating power. These sprayers are totally enclosed and do not emit sparks, hence there is no danger of short-circuiting or shocks occurring. This product is design for professional contractors. All these machines deliver consistent spray quality and are easy to use and maintain. ESP-250 Model is entry level paint sprayer. It is portable (@10.0 kg) and suitable for light duty applications.*

ESP-250

ESP-400

ESP-500

| Model No | ESP-250 | ESP-400 | ESP-500 |
|---|---|---|---|
| Motor Rating Watt | 575 W | 1200 W | 1300 W |
| Electric Power Supply | 220-240V / 50Hz | 220-240V / 50Hz | 220-240V / 50Hz |
| Max. Working Pressure Bar (PSI) | 210 (3045) | 200 (2900) | 230 (3300) |
| Max. Flow Rate - LPM | 1.5 | 2.5 | 3.5 |
| Max. Tip Size - Inches | 0.019 | 0.025 | 0.025 |
| Gun Hose Conn. Thread | 1/4” NPS(M) | 1/4” NPS(M) | 1/4” NPS(M) |
| Pump Outlet Conn. Thread | 1/4” NPS(M) | 1/4” NPS(M) | 1/4” NPS(M) |
| Weight Kgs | 10 | 18 | 21 |

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## Standard Accessories

| Teryair Part No | ESP-250 | ESP-400 | ESP-500 |
|---|---|---|---|
| Paint Suction Hose | 1 meter | 1 meter | 1 meter |
| Tip | 515 | 515 | 519 |
| Gun | HGS-4.0mm | HGS-4.0mm | HGS-4.0mm |
| Pole Gun | 480 mm | 480 mm | 480 mm |
| Paint Delivery Hose | 6mm x 10mtrs | 6mm x 10mtrs | 6mm x 10mtrs |
| Maintenance Tool Kit | - | 17 x 19-2nos Spanners | |

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