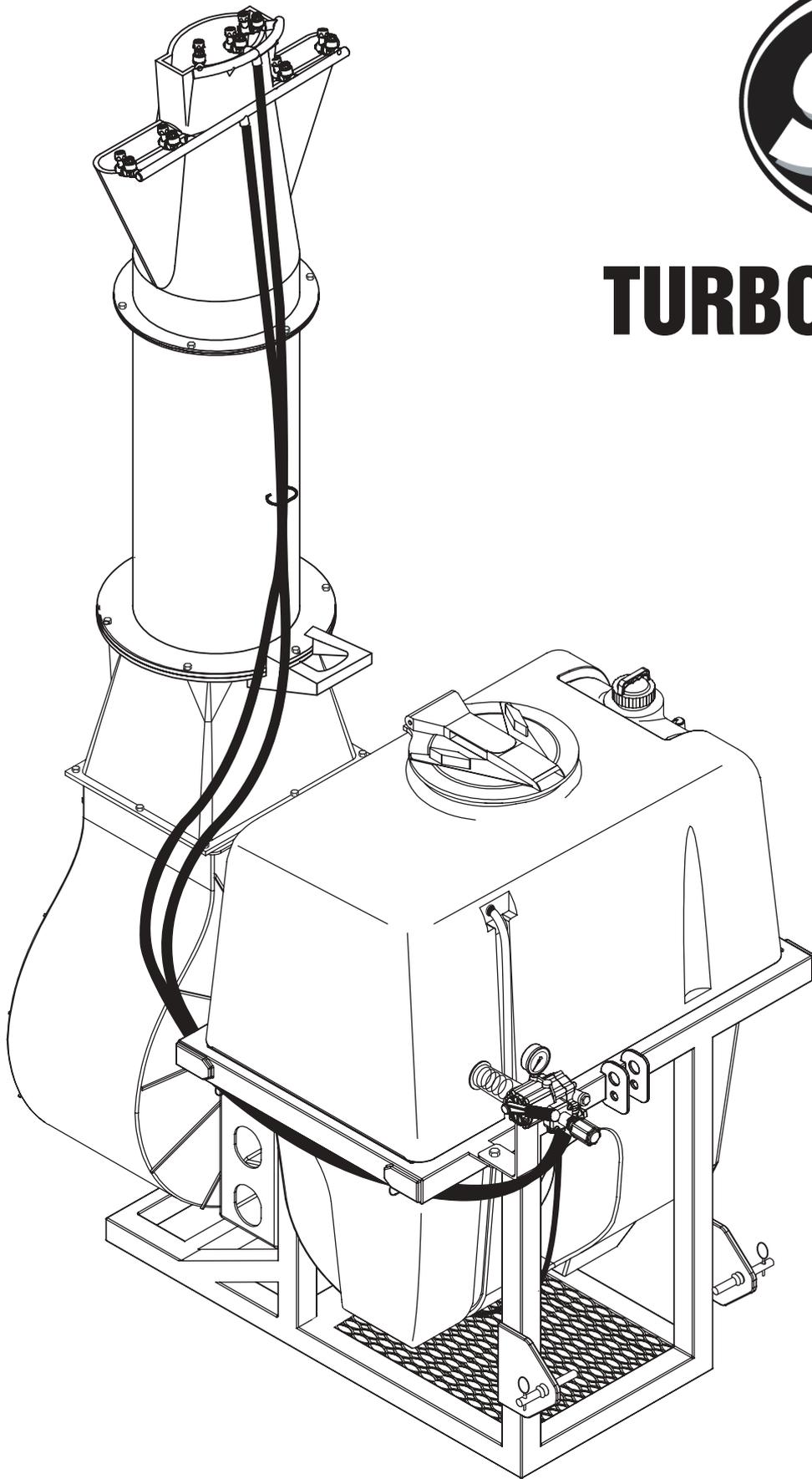




TURBOMIZER P65



OPERATION AND
MAINTENANCE INSTRUCTIONS



MOUNTED SPRAYER
TURBOMIZER P65

MODEL :

SERIAL NO :

OPERATION AND
MAINTENANCE INSTRUCTIONS



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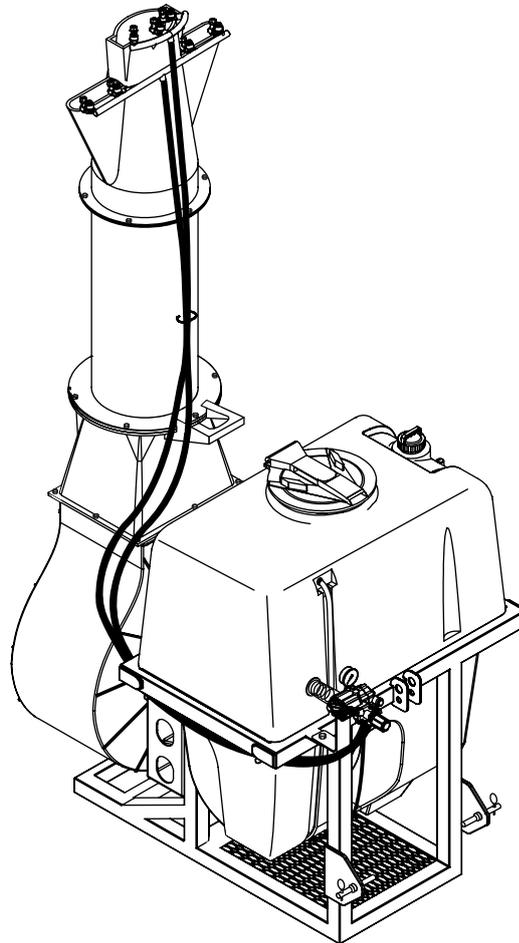
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TURBOMIZER P65 - 600 LITER - Tractor Mounted

INTRODUCTION



Introduction

RB SPRAY TECH SDN BHD is a Malaysian owned company specializing in the supply of crop protection equipments to primary producers. A leader in the design of agricultural sprayers, the company was established in 1996 and has grown to become the largest manufacturer and supplier of crop protection equipments in Malaysia.

RB SPRAY TECH tractor mounted sprayers and associated equipments are designed and manufactured with high standard of performance and safety , incorporated with innovative features. To ensure continued efficient performance and safe operation, you need to read this manual thoroughly and fully familiarize yourself with all aspects of your sprayer's operation, maintenance and safety procedures.

Now that you're a proud owner of RB SPRAY TECH product, all our services and dealer support are available to you should you need them. We assure you of our best attention at all the times.

No liability can be accepted for any inaccuracies or omissions in this publication, although due care has been taken to make it as complete and accurate as possible. The information, illustrations and technical data were considered to be correct at the time of preparation. In accordance with our policy of continuous development RB SPRAY TECH reserves the right to make changes at any time without notice.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

UPON GOOD RECEPTION

On the reception of the machine, make sure that this product is in complete and good condition at every part. If there are any damaged parts found, kindly inform about the issue to the machine distributor with timely manner, or directly contact RB Spray Tech Sdn. Bhd. Upon reception of the machine, expressly verify the following conditions:

- The machine delivered is fully assembled, and that the equipments are fully comply with the requested configuration (this procedure is necessary, because for overall dimensions' requirements the machine is often partially disassembled during the transportation);
- The connections are correctly mounted;
- The cable clamps are correctly tightened, as well as all the fittings and connections;
- All the protections are both present and firmly fastened;

PUBLICATION IDENTIFICATION

The "OPERATION AND MAINTENANCE INSTRUCTIONS" manual is an integrative part of the sprayers. It is identified by a Publication No. located on the frontispiece, and through which the document can be identified, traced and/or subsequently referred to. The information elements contained herein are updated as at the date of publication. RB Spray Tech Sdn. Bhd. reserves the right to modify its machines without notice, with the purpose of applying technical enhancements, and it declines all responsibility for possible omissions from the publication. All right reserved. No parts of this book may be reproduced or utilized in any form or by any means, electronic or mechanical, including photo copying, recording, or by any information storage and retrieval system, without premission in writing by RB Spray Tech Sdn. Bhd.

PURPOSE OF PUBLICATION

All indications contained in this manual are aimed at the user of the sprayer. The duration of the machine and its operation, the operator's safety and the respect for the environment are dependent upon scrupulous observance of the stated norms. Before making use of the sprayer, the user must read, understand and abide by all regulations listed in this manual.

UPDATES

Possible updates that RB Spray Tech Sdn. Bhd. will provide the owner of the sprayer will be accompanied by instructions to insert in this publication. Should the machine be sold, the owner must inform the new purchaser that he should notify RB Spray Tech Sdn. Bhd. of his address in order to receive possible future integrating issues and/or updates.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

USING THE MANUAL

Read every part of this manual, paying attention to the WARNING and DANGER indications both on the text and on the machine or on components. All operations suggested by the manual will have to be followed with the utmost care and only after having understood the negative consequences of improper usage. The following “symbols” are used within the text in order to highlight and visually identify the importance of the various types of information:

	Indicates important additional information
	Non observance can result in permanent damage to the sprayer.
	Highlights possibly dangerous situations to people.

The manual, with relevant attachments and possible integrating issues, must be kept with the utmost care and must always be complete, integer and legible in every part. Should it be mislaid it is imperative to immediately request a duplicate from RB Spray Tech Sdn. Bhd. Should the decals originally applied on the machine be mislaid, damaged or become incomprehensible, they should be promptly replaced. For every type of distribution device (Head) delivered with the sprayer, a specific user and maintenance manual is attached. All the head manuals must always accompany the one of the machine.



- The manual must always be kept for the sprayer's whole operational life.
- Any modification received must be permanently inserted in this publication.
- The manual must be ceded with the sprayer should this be sold.

GLOSSARY

TERMINOLOGY

The terms FRONT, REAR, RIGHT and LEFT utilised in this publication refer to the sprayer as seen by an operator from behind the operative unit along the drive line and facing it: the rear part of the machine is that closest to the operator, and is where the distribution device (Head) is mounted - and the front part is the one that gets attached to the tractor.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

ABBREVIATION

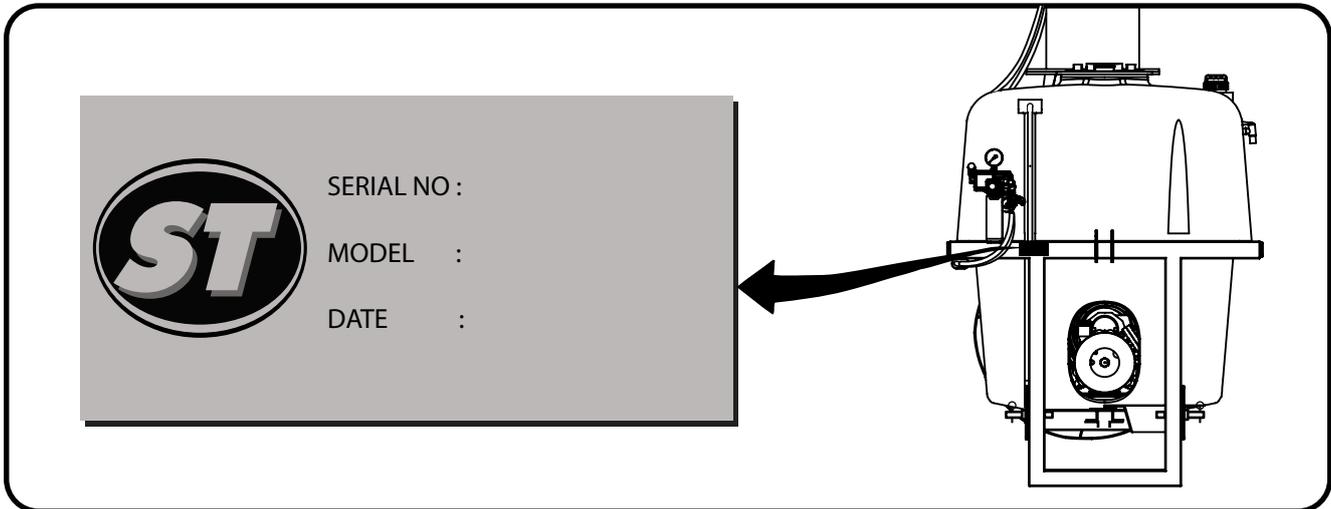
cm	centimetres
g	grams
h	hour
ha.....	hectare
ha/h	hectare per hour
l	litres
l/h	litres per hour
l/min	litres per minute
kg	kilogram
kg/cm ²	kilograms per square centimeter (atmosphere)
k m.....	kilometre
km/h	kilometres per hour
Lm.....	width in metres
m	metre
Mesh	N° of meshes per linear inch
Micron	1/1000 of millimetre
mm.....	millimetres
PPE.....	Personal Protective Equipment
PTO.....	power take-off
RPM	revs per minute
s	seconds



TURBOMIZER P65 - 600 LITER - Tractor Mounted

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MACHINE IDENTIFICATION



TECHNICAL ASSISTANCE

RB Spraytech is at complete disposal of customers for any type of intervention. The names and addresses of its service network, both in Malaysia and foreign countries, can be requested from:

Head Office
RB Spray Tech Sdn. Bhd. (627487-D)
No.44, Lorong Sanggul 1E,
Bandar Puteri Klang, 41200 Klang,
Selangor Darul Ehsan,
Malaysia.

Tel : 603 5162 5746, 51625745

Fax : 603 51615741

E-mail : info@rbspraytech.com

rbspraytech@gmail.com

SAFETY NOTICES

GENERAL



The personnel appointed to the use of the machine must have acquired an exhaustive knowledge of the same one and of the dispositions contained inside this publication, be able to properly interpret the symbols of the adhesives applied on the machine, and, in addition, perfectly know the safety and the work hygienic rules in force in the country where the machine itself is to be used.

All the preparation, use, maintenance, moving and transporting operations must be carried out of the regulations contained in this publication.



IT IS FORBIDDEN TO UTILISE THE SPRAYER FOR PURPOSES OTHER THAN FOR ITS INTENDED USE, SINCE IT WAS MANUFACTURED ONLY FOR SPRAYING AGRICULTURAL CROPS WITH ANTI-PARASITIC PRODUCTS.
Use the sprayer is allowed only during daylight: **YOU MAY NOT USE IN NIGHTWORK. ANY USE OTHER THAN THOSE DESCRIBED IN THE USE PERMITTED IS CONSIDERED AS NOT CONFORMING AND THEREFORE IS NOT PERMITTED.**



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

It is necessary to scrupulously abide by the following general norms:

- Check that the power of the tractor is compatible with the sprayer to be used;
- Verify that the maximum weight admitted on the three-point hoister of the tractor is compatible with the weights of the sprayer to be used;

On the identification plate, the full-load weight (PESO T.) of the machine is indicated, measured WITHOUT the distribution device, and WITHOUT the accessories possibly installed.



In order to calculate the weight on the hoister in operative conditions (at full load), add to the weight indicated on the identification plate (PESO T.), the weight of the distribution device which is used (see “Distribution devices – Use instructions” manual), the weight of the installed accessories (Par. 4.4) and the 50% of the weight of the used cardan shaft (see the relevant specific manual).

- Before utilisation, check the correct tightening and securing of the machine’s various components, paying particular attention to the safety protections and to the moving parts;
- Only utilise protected cardan shafts provided with CE conformity certification.
Carry out the assembly only if the drive outlets of both tractor and sprayer are equipped with the protection counter-guard;
- Check that the cardan shaft is blocked by the appropriate anti-rotation chains;
- Keep people and animals away from the machine before starting it up;
- Don’t wear articles of clothing that might get caught in moving parts;
- Keep to a low speed while negotiating bumps or crossing ditches;
- During the use of the machine, the operator must have a sufficiently good visibility on the working areas, consequently it is recommended to keep both clean and efficient the cab windows and the rear-view mirrors;
- Always stop the tractor’s engine and actuate the parking brake before carrying out any operation on the sprayer;
- Never leave the machine unguarded, when the key is inserted inside the tractor control panel;

- **All maintenance and repair operations must be carried out only after having rinsed the tank and flushed the system.**
- **Before operating within the tank it is necessary to wash it thoroughly with clean water.**
- **The application of paints and/or solvents, the washing of closed environments and machinery as well as the utilisation of the air flow for purposes other than those expressly concerning the spraying of agro-chemicals is not permitted.**
- **It is forbidden to enter the tank.**



PRECAUTIONS AGAINST FIRE

Don’t approach either flames or heat sources to the machine. The materials used for manufacturing the machine itself are widely made by oil derivatives: tanks, pipes, tyres, plastic components; besides, the presence of lubricants and of chemical product residuals make them potentially flammable.



- **It is forbidden to carry out welding works, if ammonium salts have been used.**
- **It is forbidden to use the machine within a potentially explosive environment.**



TURBOMIZER P65 - 600 LITER - Tractor Mounted

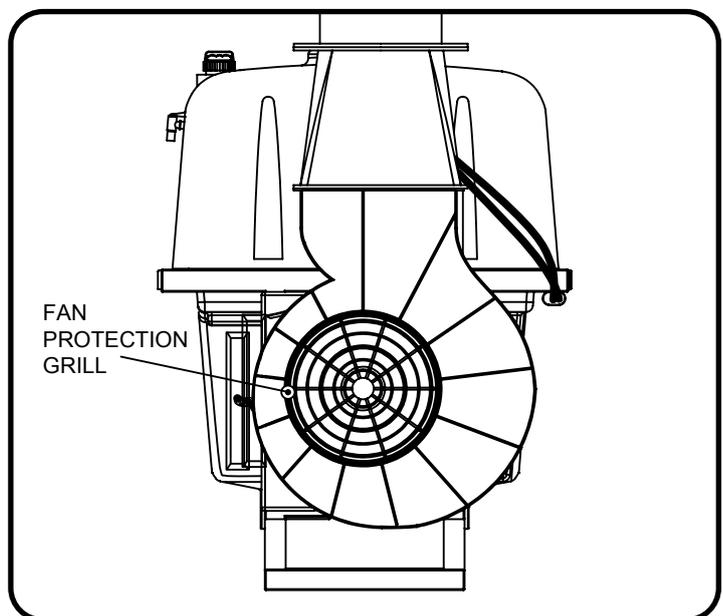
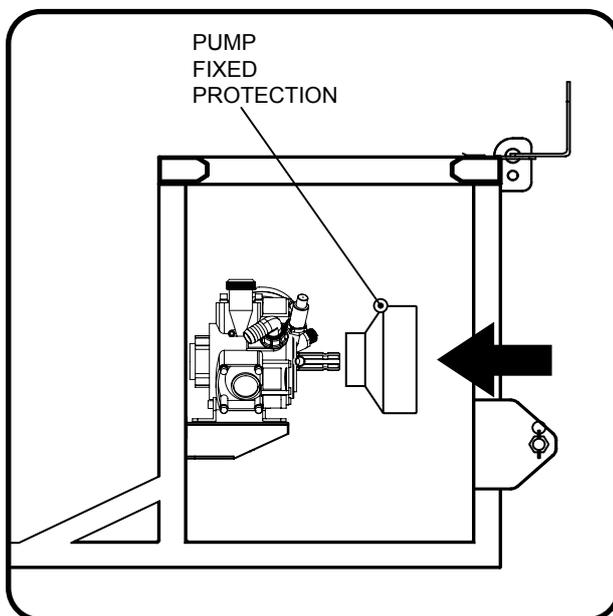
SAFETY SYSTEMS

All machine moving parts are suitably protected by guards and highlighted through the use of warning decals.



- It is forbidden to use the machine with these guards removed.
- Before removing the protection, stop the tractor's engine and remove the key from the control panel.

The pictures illustrate the machine's guarded parts:



THE OWNER AND/OR THE OPERATOR OF THE SPRAYER ARE NOT PERMITTED TO MODIFY THE STRUCTURE OR THE SPECIFIC OPERATION OF THE SPRAYER ITSELF. ANY REPAIRING INTERVENTION HAS TO BE CARRIED OUT EITHER AT THE DEALERS' OR AT THE RB SPRAYTECH WORKSHOPS, OTHERWISE ANY KIND OF WARRANTY IMMEDIATELY CEASES AND RB SPRAYTECH IS CLEARED OF ANY CONSEQUENT AND/OR IMPLIED RESPONSIBILITY.

HANDLING OF AGRO-CHEMICALS

The operator could become contaminated due to accidental spray, contact or inhalation of products or crop-spraying mixtures.

The environment could become polluted by mixture over-spills, puncturing of containers, uncontrolled storage of used and unwashed containers or spillage into waterworks.

In order to avoid these risks the preparation and filling operations must be carried out in suitably appointed and adequately equipped sites.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*



To use pesticides (purchase, transport, loading, treatment planning, mixture preparation, field transfer, treatment performance, ending treatment liquid waste management, equipment rinsing and waste disposal) you must follow the country rules.



Absolutely adhere the rules on the label of the product used referring to the dose per hectare and to the compatibility of other products.

STORAGE

Fixed / stationary: the site used must be well ventilated and secured by lockable doors in order to prevent even accidental access by children or any unauthorised person.

Mobile: the carrier equipment must be properly locked and kept under conditions whereby access by children or any unauthorised person can be prevented during the absence of the operator. All full or partially utilised containers must be secured against tipping, falling or breakage during transportation. Both types of storage must:

- Have a suitable container for the storing of empty packaging materials should a specific storage area not be available;
- Have a clean water supply readily available for washing, by means of a specific container or through connection to the waterworks system;
- Have the use of fire extinguishers, should flammable products and substances be stored.

SPECIFIC EQUIPMENT

The site at which the preparation and filling out will take place must provide for:

- All the equipment necessary to the precise measuring of both the water quantity and the dose of product to be mixed in the tank at every filling;
- All the equipment and means useful to the preparation of the mixture and for the cleaning of the operator in case of contamination;
- All tools necessary to facilitate the direct introduction of the agro-chemicals in the tank;
- The allocation of clothing and specific equipment in order to avoid contamination by contact or inhalation during the whole operative phase of the intervention;
- The availability of proper equipment able to stop the uncontrolled spilling and flowing of the mixture;
- A retaining valve on the feed pipe when the filling of the tank takes place directly from the waterworks system.

DISPOSAL OF EMPTY CONTAINERS AND AGRO-CHEMICAL RESIDUES

Agro-chemicals are classified as 'special' waste and their disposal must take place separately from "urban" wastes.



Empty packaging and contaminated containers to be done away with cannot be dispersed, burned or buried.

The washing water for the cisterns and the tools utilised for the preparation of mixtures cannot be emptied on the ground, spilled into the sewage system or in waterways and rivers.



TURBOMIZER P65 - 600 LITER - Tractor Mounted

The disposal of special wastes is regulated by specific norms. In order to perform this operation it is necessary to obtain the relevant information from the Local Offices specifically appointed to rule on this subject. The non compliance with these regulations can cause considerable damage to persons and animals as well as polluting the environment.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

The use of phytosanitary products might imply a more or less high chemical risk for the workers on the basis of the toxicity and the dangerous properties of the phytosanitary product, of the level and duration of the exposure, of the absorption level through the respiratory tract, the skin, the mucosa and the ingestive tract, as well as the way and frequency of the use. The "personal protective equipment" (PPE) are equipments that all the users of the machine need to wear and hold in order to be protected from one or more risks that may harm the user during the process.

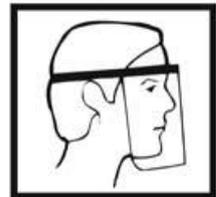
Regarding the basic requirements, PPE have to:

- Be suitable to the risks that have to be prevented, without causing major risks themselves;
- Be suitable to the existing conditions on the workplace;
- Consider the ergonomic (easily adaptable, easy to wear and safe) or health needs for any users;
- Be adaptable to the user according to his/her needs.

The PPE for the protection against dangerous chemical agents used for the operations that concern the exposition to phytosanitary products , pertains to the third class (3rd class – 0000).



Use solely PPE equipped with the needed CE mark, in the scrupulous respect of the regulations in force in the country where the machine is in use and adequate to the phytosanitary product used.



It's needed to use the PPE in each of the following working stage:

- Tank filling and addition of the phytosanitary product;
- Spraying,
- Calibration of the sprayer,
- Draining and cleaning of the tank,
- Phytosanitary product replacement,
- Servicing.

The following must be worn:

- For the protection of the body (gloves, suits, boots),
- For the protection of the respiratory tract, of the head and of the eyes (helmet, masks, filters, glasses, hoods and headdresses).



Filters must be replaced following the producers' instructions, and in any case:

- In case a bad smell is noticed;
- In case a resistance to the respiratory function is noticed;
- At least once a year in case of occasional use.

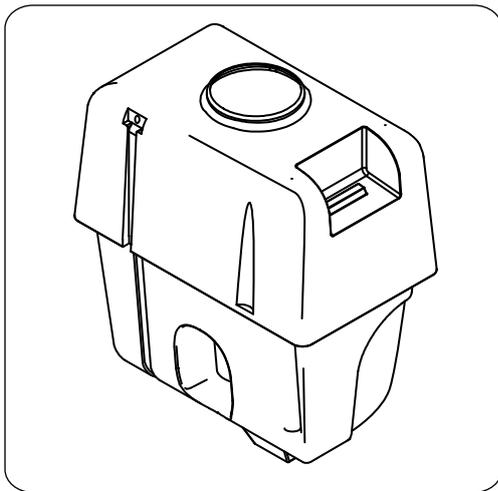
For ALL PPE in use, follow the use instruction declared by the PPE producers.



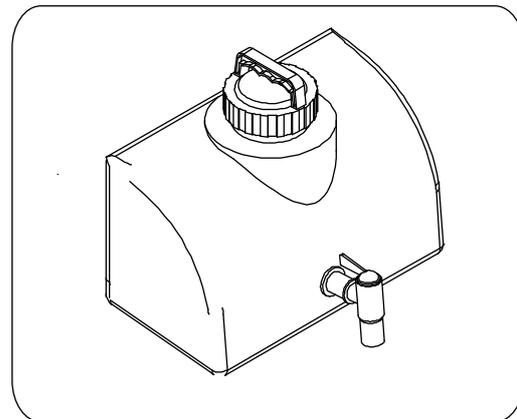
TURBOMIZER P65 - 600 LITER - Tractor Mounted

TANK

Tank main filler with collapsible lid, for the filling with spraying products. Transparent level indicator external pipe with graduated scale.

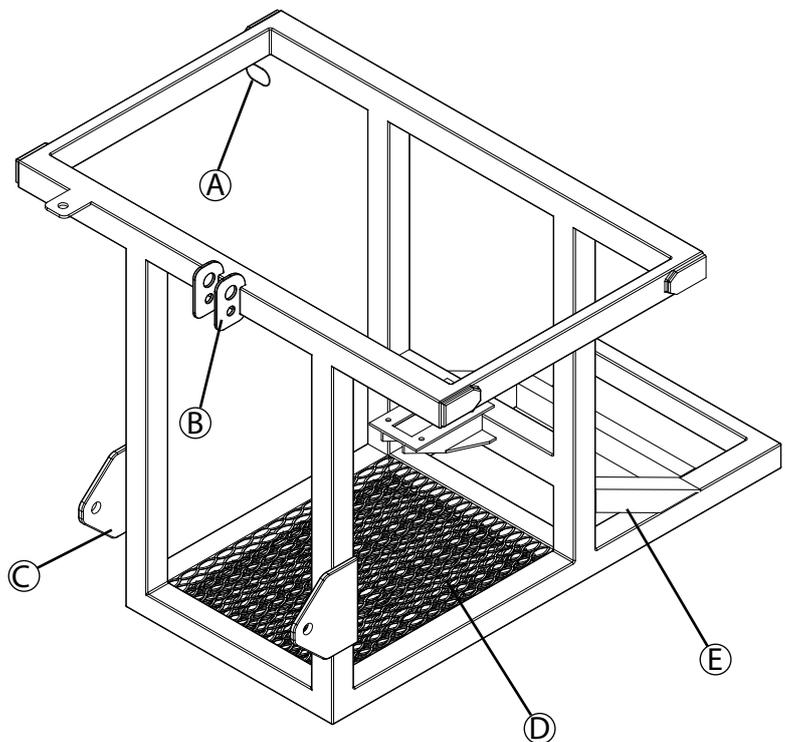


Incorporated polyethylene 15 litre capacity hand wash tank, with external service tap, so that able to be used when in need of clean water source for cleaning purpose.



FRAME

This frame is custom made, which uses mild steel as the core material. Able to withstand high pressure for longevity in usage. The durable frame structure supports (E) are mounted in the most effective position for the stability and strength. When this frame joint (C) with the machine it is coupled to the tractor steadily. The grill part is placed stylishly so that it is able to protect the below part of the tank. The tractor support (B) is meant for the tractor to be mounted steadily. At the same time works as the PTO shaft holder when not in use. Part (A) is designed so that the involved hose can be placed in one place without difficulty.





TURBOMIZER P65 - 600 LITER - Tractor Mounted

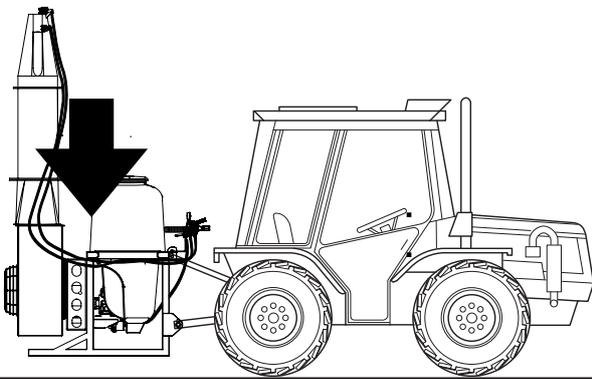
TECHNICAL DATA

Sprayers dimensions and weight



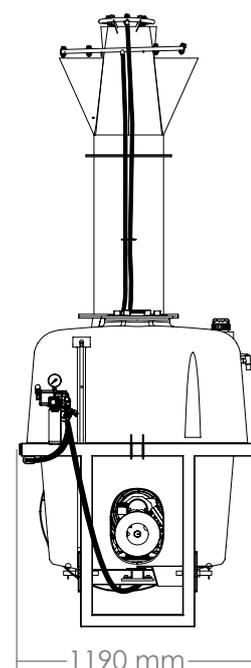
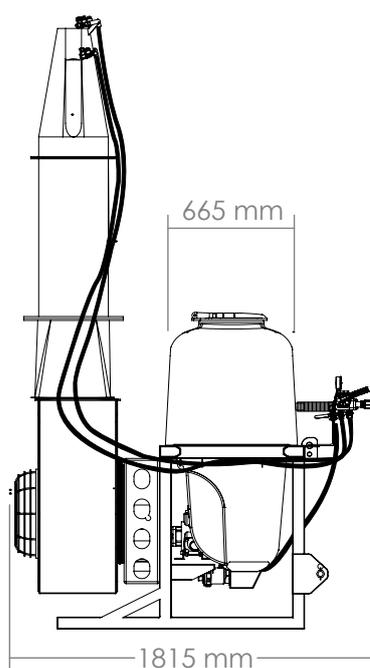
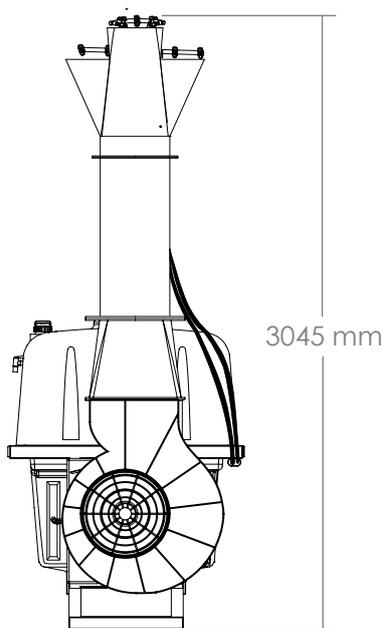
On the identification plate, the full-load weight of the machine is indicated, measured WITHOUT the distribution device, and WITHOUT the accessories possibly installed.

In order to calculate the weight on the hoister in operative conditions (at full load), add to the weight indicated on the identification plate, the weight of the installed accessories, the weight of the distribution device which is used, and the 50% of the weight of the used cardan shaft



**TOTAL WEIGHT
+ SPRAYHEAD WEIGHT
+ ACCESSORIES WEIGHT
+ 50% CARDAN SHAFT WEIGHT**

**= WEIGHT ON THE TRACTOR
THREE-POINT HOISTER**





TURBOMIZER P65 - 600 LITER - Tractor Mounted

COUPLING MODALITIES



Check that the tractor's 'permissible carried weight' and the 'rear overhang allowed' are compatible with the weight and dimensions of the fully loaded sprayer and complete with equipment mounted for the treatment.



The tractor's power take-off (PTO), under all utilisation conditions, must provide a power exceeding that absorbed by the sprayer.



The hitching has to be carried out on a plane surface with a suitable consistency, after having checked that all the people not involved with the operation moved away, as well as the children and the animals possibly present. The road circulation is exclusively allowed in full observation of the rules in force in the country where the machine is to be used, WITHOUT having loaded any chemical substances inside the tank.

EXECUTION

1. Loosen the chains of the lifter arms.

2. Start the tractor and take the lifter's arms to the level of the machine's pins.

3.



Stop the tractor and remove the key from the control panel.

4. Insert the toggle joints on the machine's pegs, locking them with the clip pins.

5. Hook the 3rd-point rod from the tractor to the machine and securing it with the peg and the clip pin.

6. Screw the rod to set it into tension.

7. Start the tractor and hoist the sprayer until the 2 PTO are the same height.

8.



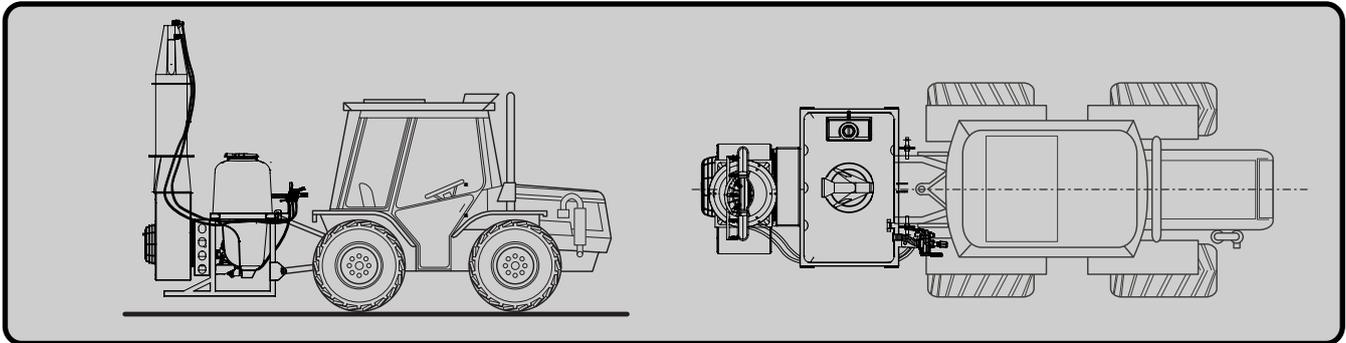
Stop the tractor, remove the key from the control panel and make sure that no one approaches the hydraulic controls of the lifter. NEVER OPERATE OR STAND BENEATH THE MACHINE OR IN THE AREA THAT COULD BE INVOLVED IN ITS SUDDEN LOWERING.

9. By acting on the 3rd-point rod, vertically align the sprayer. N.B.: block the 3rd-point rod with the specific lock ring.

10. Block the coupling by tightening the chains of the hoister arms.



When the operation is completed the 2 drive outlets (PTO) must be positioned on the same axis, both in vertical and horizontal direction.

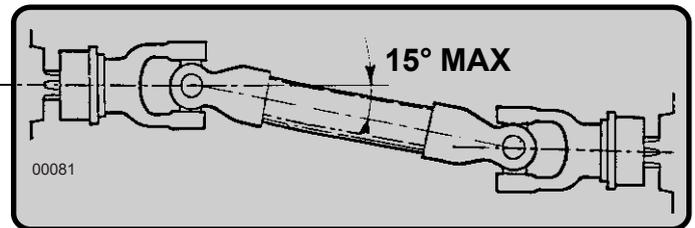


MOUNTING OF CARDAN TRANSMISSION SHAFT

 The mounting, disassembling or possible other interventions on the transmission shaft must be carried out with the engine switched off and with the starter key removed from the tractor's control panel.

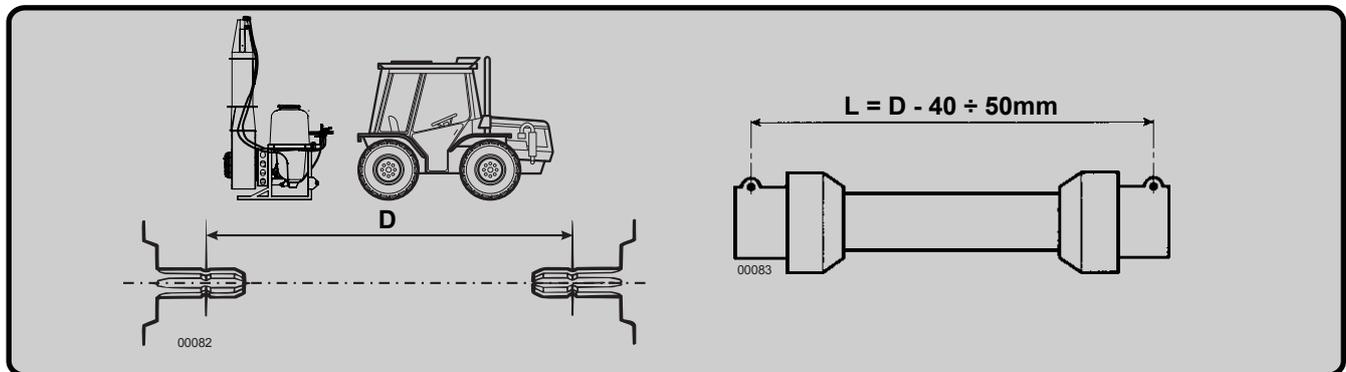
 **USE TRANSMISSION SHAFTS WITH CE CERTIFICATION. OBSERVE THE REGULATIONS CONTAINED IN THE USE AND MAINTENANCE BOOK-LET PROVIDED BY THE SHAFT MANUFACTURER.**

 The cardan transmission shaft must work with the 2 COAXIAL drive outlets (PTO) or, should this not be possible, with the PARALLEL axles. In this case the angle of the joint **MUST NOT EXCEED 15°**.



DEFINITION OF THE LENGTH

Set the 2 drive outlets (PTO) perfectly on the same axis and measure the distance "D" between their grooves. Length "L" of the cardan transmission shaft (refer to the picture) to be deployed, measured between the 2 stopping pawls and with joint closed, must be 40÷50 mm lesser than distance "D".



 Using the cardan shaft with too short in length may cause the serious collision to the sprayer and to the tractor, and dangerous for the persons.

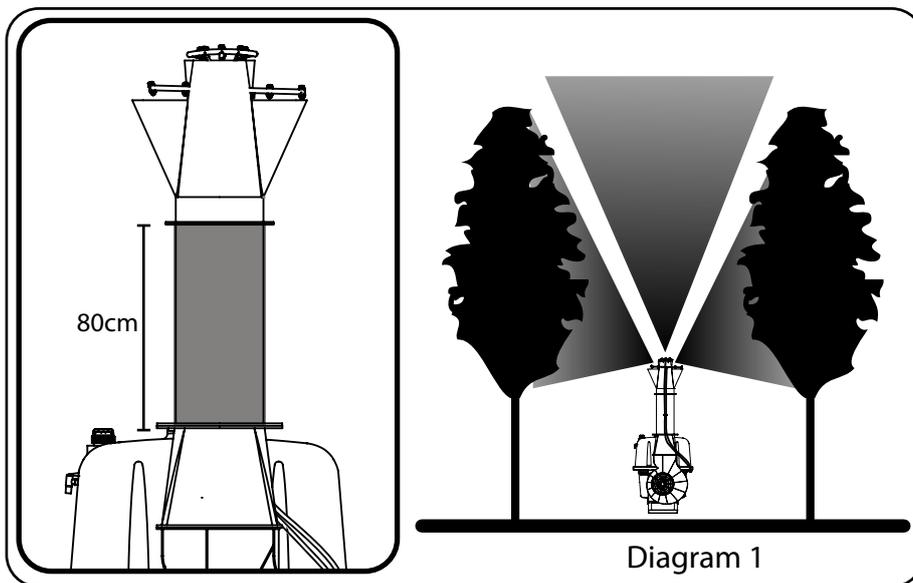
 Using the cardan shaft too much long cause a push on the two PTO, that it can cause huge mechanical damages both to the tractor and to the sprayer.



TURBOMIZER P65 - 600 LITER - Tractor Mounted

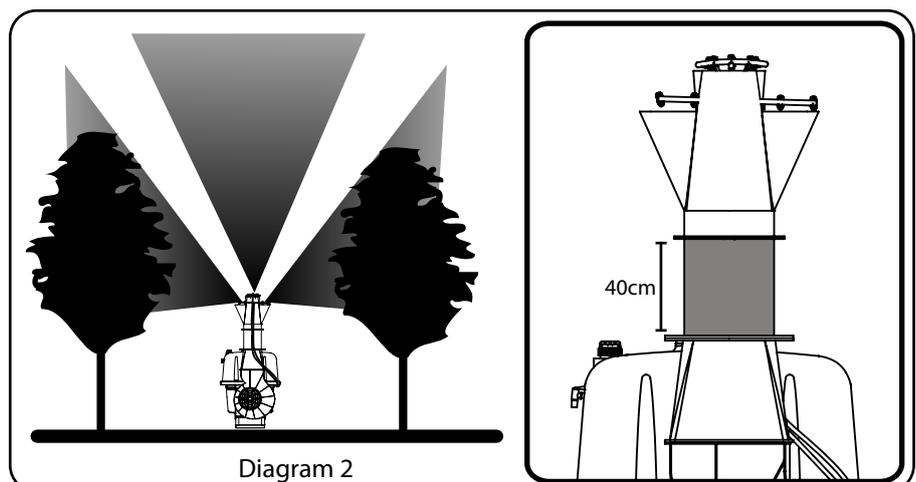
DISTRIBUTION DEVICES

There are 2 variance for Turbomizer P65 extension tube which is detachable as can be referred in Diagram 1 and Diagram 2. The extension tubes are 80 cm and 40cm high respectively. Both serve different purposes. The TURBOMIZER P65 is ideal for Very Low Volume spraying. Comes standard with an infield suction system and quality quick release driveshaft.



80cm high extension tube as in Diagram 1. The Turbomizer P65 is capable of a vertical throw of up to 20 meters high with this 80cm height extension tube. Suitable for trees with 6 meter trunk or higher.

40cm high extension tube as in Diagram 2. The Turbomizer P65 is capable of a vertical throw of up to 20 meters high with this 40cm height extension tube. Suitable for trees with 3 meter trunk or higher.





TURBOMIZER P65 - 600 LITER - Tractor Mounted

FILLING AND MIXING



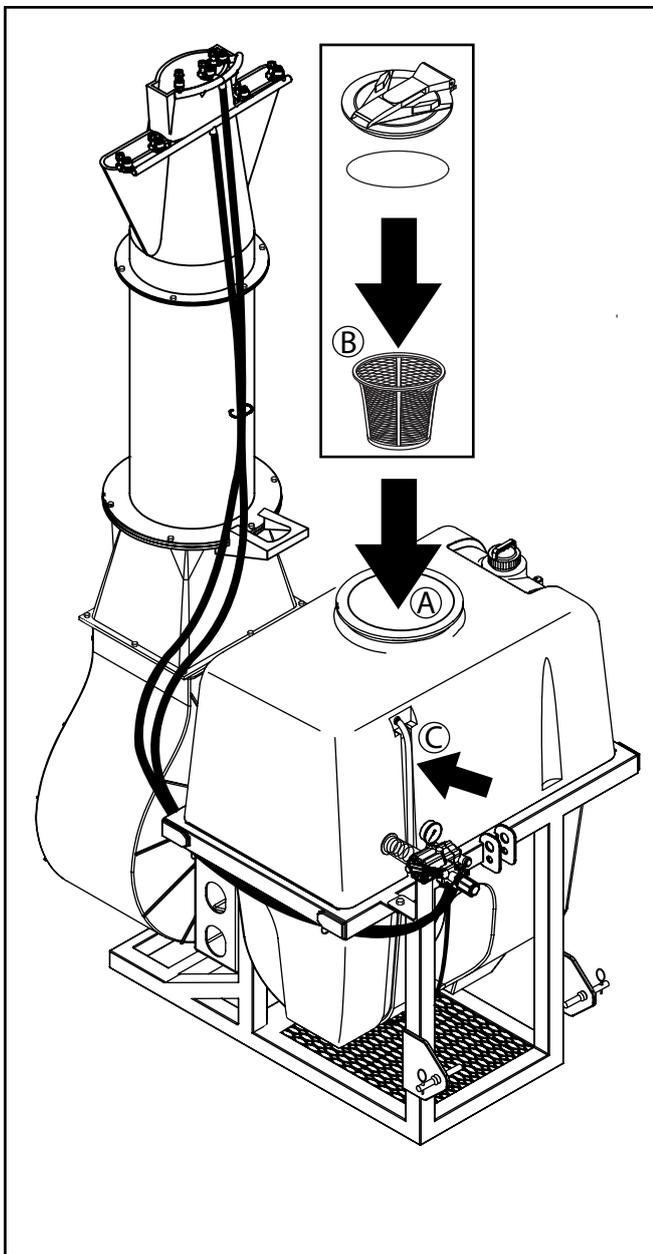
THE INLET OF THE FILLER PIPING MUST NEVER COME INTO CONTACT WITH THE ANTIPARASITIC MIXTURE: IT MUST ALWAYS BE KEPT AT A SAFE HEIGHT ABOVE THE TANK FILLER AND MUST BE EQUIPPED WITH A NON-RETURN VALVE.



MAKE SURE TO WEAR THE MOST SUITABLE PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR SAFETY PURPOSES.



THE PUMP MUST NEVER RUN DRY.



FILLING

Fill the tank by collecting the water needed for the dilution of the phytosanitary products mixture from an external tank.

EXECUTION:

1. Disengage the Turbofan.
2. Prepare the water source to use either external tank, from a well or from a canal/channel.
3. Reach out the water source into the top opening as in (A) and fill the water. Water level indicator (C) will help in determining the current level of water inside the tank.
4. Afterwards, the mixture of pesticides, herbicides, or insecticides may be poured right into the top opening (A). The filter basket (B) will filter residue left from the mixture.
5. Close the tank opening with the tanklid as the process no. 3 successfully takes place.

MIXING

Leave the pesticides, herbicides, or insecticides, to mix with the water for several moment for it to dilute inside the water. Self stirring process will take place as the tank is moving.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*



Before using the atomizer fill the circuit-washer tank (if provided) and the hand-washer tank with clean water.

PRELIMINARY OPERATION TO TREATMENT

- The operator must:
 - a. Ascertain that the condition of the crops, the progress of the disease or the need for its prevention actually justify the treatment to be applied.
 - b. Be aware of the meteorological conditions forecast for all the time necessary for carrying out the treatment.
 - c. If possible, avoid carrying out the spraying in strong wind conditions or when one detects that the sprayed mixture disperses away from the target crop (drifting). It is advisable to suspend the treatment when the wind speed exceeds 3 m/s (10 km/hour). Should it be imperative to operate anyway, the following suggestions are made:
 - reduce the distance of the target from the spraying points, even if detrimental to the quality of the spraying.
 - increase the dimension of the droplets, suitably adjusting the machine.
 - d. Check that multiple-product mixtures be physically, chemically and biologically compatible amongst themselves; if need be, obtain the necessary information from the products' sales representative.
 - e. Carefully calculate the exact quantity of the product necessary for the treatment and establish the volume of water to be used for the intervention.
 - f. Check that the product is available in a quantity sufficient to complete the intervention.
 - g. Read the product's utilisation instructions carefully, in order to ascertain the usage conditions, the correct dosage and the expiration dates.
 - h. Make sure of the parameters necessary to the adjustments of the machine and determine the exact dose of product to be applied to every loading.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

PREPARATORY OPERATION TO TREATMENT



THE FILLING MUST BE CARRIED OUT WITH THE MACHINE ON A FLAT SURFACE. BEFORE THE OPERATION, IN THE ALLOCATED AREA, THE DOSES OR MIXTURES TO BE POURED IN THE TANK MUST BE MADE READY.

Before starting the filling cycle, check:

- THAT THE DELIVERY FILTER ARE CLEAN;**
- THE EFFICIENCY OF THE DISTRIBUTION DEVICE (HEAD);**
- THE CONDITIONS OF THE TANK LEVEL INDICATOR.**

• The operator must:

a. Wear adequate protective clothing and accessories such as overalls, waterproof suits, gloves, glasses and masks to shield the operator from contamination by inhalation or contact with the products



- Anti-dust masks don't offer any protection against toxic vapours.**
- Avoid wearing loose clothes that might entangle with moving parts.**

b. With the parameters defined during the preliminary operations, carry out the adjustments of the sprayer.

c. Prepare the mixtures in a well ventilated area. When in the open, the presence of wind increases the danger of contamination.

d. Precisely weigh the previously calculated doses of products to be mixed at every filling operation.

e. Avoid handling products close to open flames, embers, incandescent bodies or in the presence of flammable substances.

f. In order to obtain the correct volume dosage of agro-chemicals and fertiliser mixtures, the fertiliser must be first diluted.

g. Wash and rinse the just emptied product containers with clean water – collect the washing water and pour it in the tank before carrying out the filling – place the empty packaging in the specific container

h. Wash the equipment and tools utilised in the preparation and place them in the chemical products storage area.

i. Always leave the area assigned to the loading and preparation of the mixtures in such condition as to avoid any possibility of contamination to persons or animals or of pollution to the environment.



THE TREATMENT



IT IS ADVISABLE TO BEGIN TREATMENT AT THE HEADLANDS.



WHEN THE TREATMENT IS OVER, OR IF THE SAME HAS TO BE TEMPORARILY INTERRUPTED, ALWAYS LET THE FAN STILL OPERATE FOR APPROXIMATELY 30 SECONDS AFTER CUTTING-OUT THE POWER SUPPLY (EITHER MANUAL DISTRIBUTOR P10 OR ELECTRICAL DISTRIBUTOR E11), IN ORDER TO FULLY ELIMINATE THE PRODUCT MIXTURE FROM THE DISTRIBUTING DEVICES, SO PREVENTING ANY POSSIBLE ANOMALOUS DRIPPING FROM TAKING PLACE.

- The operator must:
 - a. Shake the mixture in the tank before starting the treatment, re-circulating it completely for as long as it takes to make it homogeneous.
 - b. Check the orientation of the distributors (hands, guns and/or fishtails) of the distribution device (sprayhead) in relation to the dimensions, the shape and the thickness of the vegetation to be treated.
 - c. Continue to shake the mixture until the treatment is resumed should the intervention momentarily be interrupted. If the utilisation is to be deferred, check that the filter cartridge is clean before resuming and agitate the mixture that has remained in the tank.
 - d. Ensure that the hand wash supplementary tank is filled with clean water after each filling operation.
 - e. Make use of individual protections identical to those envisaged for the preparation of mixtures if the tractor is not equipped with a pressurised cabin with aeration filters.
 - f. Wash immediately all the elements that might have become contaminated during the treatment, promptly remove the polluted garments and interrupt the work if these cannot be immediately replaced.
 - g. Keep to the preliminary operations already indicated (10.1.c), in case of wind conditions prevailing.
 - h. Stop the engine, remove the key from the tractor's control panel and lower the hoist during stoppages.
 - i. Pay particular attention to the treatment when close to boundaries and in proximity of dwellings, waterways, roads or public-usage paths.



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

END OF TREATMENT - STORAGE

DAILY

The operator must:

If the machine is equipped with unit-washing tank:

a. Carry out the hydraulic circuit washing process spraying on a piece of ground treated yet. **Attention:** The sprayer to be sprayed around 5 sec..

b. Wash the inside of the tank:

1. Disengage the fan.

2. Open the cock and position the lever.

3. Engage the drive outlet (PTO) and take it to a speed of 540 RPM



PTO to be used ONLY at 540 rpm. Engage the PTO with the engine of the tractor at low speed and with maximum modularity, obtaining soft and progressive graft and avoiding abrupt starts of the cardan shaft.

6. Open the tap and place the hose into the top opening.

7. Rinse the tank until the water in the spray-line rinsing tank is totally run out, if needed wash the internal of the tank with a jet of clean water as expected for the machine without circuit-washer.

8. Disengage the drive outlet (PTO).

9. Discharge the rinsing water in area with a drain basin and arrange the waste following the country rules.

10. Spray the rinsing water in the previously treated area. Discharge the remaining water of the tank and pipes (about 5 to 6L balance in tank), gathering it in a proper waste container following the country rules or use it again, putting in the tank, for a next treatment if this will be suitable with the product to use.



The machine must be stored in a secure or closed place, so as to prevent access to unauthorized personnel.



TURBOMIZER P65 - 600 LITER - Tractor Mounted

END OF SEASONAL CYCLE

• The operator must:

- a. Take the utmost care in carrying out the operations envisaged at the end of the daily treatments: the cleaning of the main tank must be done at least twice. Check that no product residues are left in any part the tank.
- b. Execute the necessary maintenance and lubrication operations , then let the atomizer operate for some minutes.



The pump must never run dry



Avoid using anti-freeze solutions.

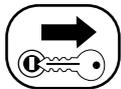
c. Check the proper operation of all parts and of the machine structure. In case of faults being detected, request the intervention of one of our service points.

d. Keep the machine on a plane surface with a suitable consistency, in a well ventilated place, sheltered from rain, icing and direct sun rays.



The machine must be stored in a secure or closed place, so as to prevent access to unauthorized personnel.

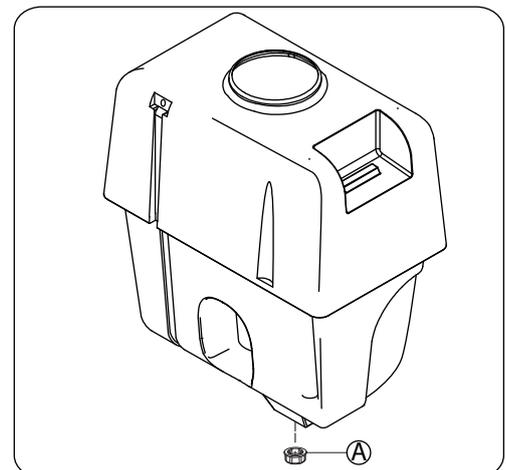
TANK DRAINING



- Stop the tractor and remove the key from the control panel.
- Wear suitable protective clothing and accessories in order to avoid contamination by contact or inhalation of the mixture.
- Carry out the discharging in a suitable and properly geared area for the collection of the washing liquid.

EXECUTION:

1. Turn the tap tractor engine off.
2. Unscrew and remove the water drain plug as in the fitting (A).
3. Let the water from the inside of the tank flow out until totally drained.
2. Screw back the water drain plug from the fitting (A).





LIFTING AND TRANSPORT



THE FOLLOWING ACTIONS ARE NOT ALLOWED:

- Transporting or lifting the sprayer with residual quantities of mixture in the tank for purposes differing from its destined usage.
- The transporting of people, animals or things.
- The trailing of vehicles or equipment.



Road transport must take place in the complete observance of road regulations in force in the Country where the machine is used.

- When the footprint of the sprayer exceeds that of the tractor, the specific notice sign for overhanging loads needs to be attached on the rear.
- It is necessary to replicate the tractor's number plate and tail lights when these are covered by the machine.

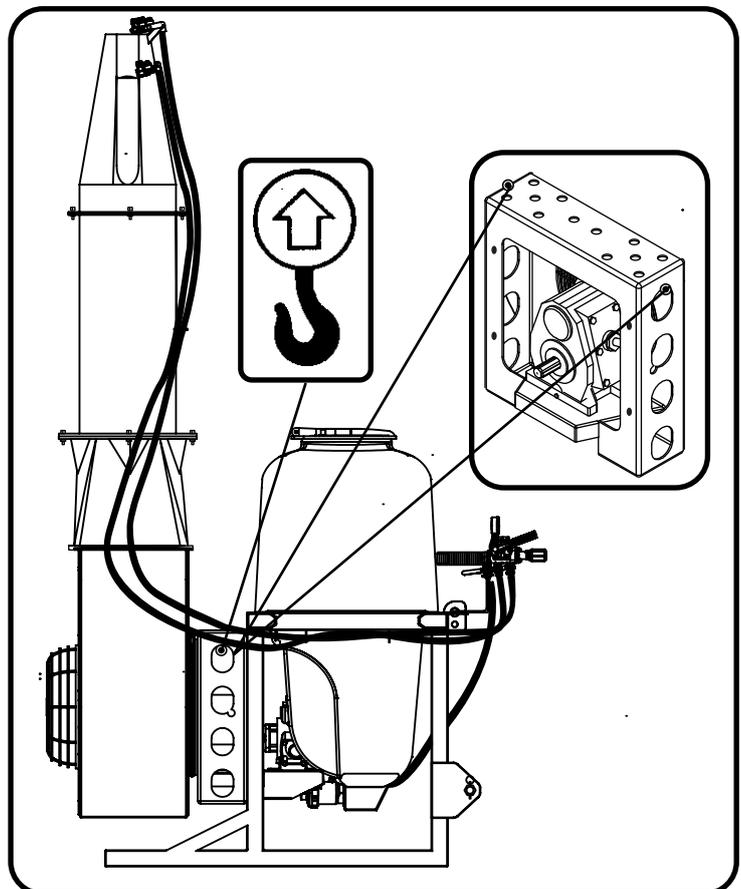
The operator is responsible for possible defaults due to the non observance of said regulations.



Before carrying out any operation it is essential to verify that no chemical mixture are left in the tank.

STEPS

1. Check that the cables or chains used for the lifting are adequate for the weight to be lifted (machine- distribution devices - accessories).
2. Hook the machine through the specific support point indicated by the specific decal on the frame, checking all the parts involved in the operation.
3. Lift the machine, verifying that it is properly balanced, and, on those units equipped with either cables or hoisting chains, make sure that they DON'T get engaged with the plant-washing tank.
4. Position the sprayer on the transporting vehicle in perfectly stable conditions.
5. During transport the machine must be immobilised and fastened to the carrier by way of suitable strapping.





TURBOMIZER P65 - 600 LITER - Tractor Mounted

LUBRICATION AND MAINTENANCE

Daily Maintenance

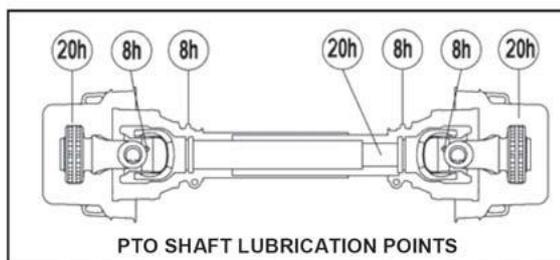
Before carrying out any maintenance, please switch off the tractor and disconnect the drive shaft.

General

During the first few days of operation, before starting each day check that all hardware is tight and inspect the unit for leaks while running and tighten all hose clamps.

PTO Shaft

Grease the PTO shaft with multi-purpose grease at the time intervals shown below. This is the amount of lubrication recommended for normal operation. More frequent inspection and lubrication may be needed under very dusty conditions.



Pump

Check the oil level in the viewer daily and if necessary top up with SAE 20-40 multigrade engine oil.

Filters

Clean all filters daily or as stated below. More frequent cleaning may be found necessary depending upon circumstances. The best method for cleaning filters is to wash them with a soft bristle brush. Check for any tears or holes and replace if damaged.

Check and if necessary clean the basket strainer under the tank lid before each fill. Always clean the suction filter before each tank refill and at the end of the day. Close the stop valve by pushing the cap in and turning it in the direction indicated on the cap out, then unscrew the filter cover to remove the filter element - refer diagram in Operation section. Ensure the 'O' ring is in good condition when refitting.

Tank and Spray Lines

At the end of each day run clean water through the pump and lines to purge them of chemicals. Rinse out the tank to remove powdered material.

Never leave chemicals in the tank that may settle to the bottom, harden and break into lumps as this may block the suction filter.

Weekly Maintenance

PTO Shaft (Every 20 Hrs)

Slide the PTO shaft apart, clean the telescopic tubes with kerosene and apply multi-purpose grease to the sliding surfaces, then reassemble. This is most important in dusty conditions.

Annual Maintenance

Diaphragm Pump

Drain the oil from the diaphragm pump annually, or at the end of each spraying season, and refill with SAE 20-40 multi-grade engine oil.

Remove the pump heads, carefully inspect the diaphragms and replace if necessary. Also check the inlet and outlet valves, seats and springs for wear, damage or chemical corrosion and replace as necessary.

Check the air pressure in the surge chamber at the end of the pump which smooths out the pulsations in fluid flow. The air pressure behind the chamber's diaphragm should be set in accordance with the spraying pressure being used, as shown in the chart below.

SPRAYING PRESSURE (Bar)	2 - 5	5 - 10	10 - 20
SURGE AIR PRESSURE (Bar)	2	2 - 5	5 - 7

Adjust the pressure at the valve fitting on the chamber using a compressed air hose fitted with a tire valve connection and a reliable pressure gauge.

Refer to the pump instruction manual for further details on the above maintenance operations.

Electrical Fuses

The cabin control units used with boom solenoid valves and foam markers include a fuse to protect their electrical circuits.

If the electrical system fails to operate remove the fuse and check whether it has blown. If so, first locate and rectify the fault, then replace the fuse with one of the correct 8 amp rating. A blown fuse may indicate that an electrical lead has rubbed through on a sharp surface.

Hardware

At the end of each season generally inspect the sprayer for any signs of damage and check that all bolts are securely tightened.



TURBOMIZER P65 - 600 LITER - Tractor Mounted

TANK REMOVAL OF REPLACEMENT

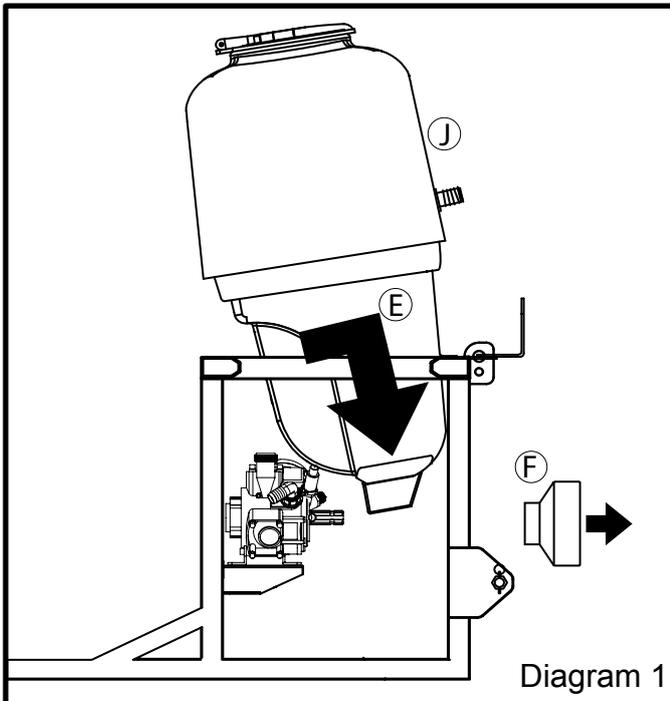


Diagram 1

In order for the steps to be identified correctly please refer to the Diagram 1 and Diagram 2.

TANK INSTALLATION

1. Before beginning to insert the tank, unscrew the Pump fixed protection (F) away from the pump.
2. Place the tank (J). Look for the direction in (E) for the tank to be successfully placed fit to the frame (this is only applies if the Pump (I) is attached).
3. Once the tank (J) successfully placed on the frame, find the two(2) hoses that connects the Pump with the tank along with all the nipples and elbow;
4. Connect the Control Valve (B) hose directly to the tank along with all the nipples and elbow;
5. Afterwards connect all two(2) hoses from the Control Valve (B) to the main sprayhead (L) along with all the nipples and elbow.
6. Screw the filter (D) at the bottom along with all it's nipples and elbow.
7. Attach the level gauge (H) at the designated area on the tank surface with it's nipple and elbow.

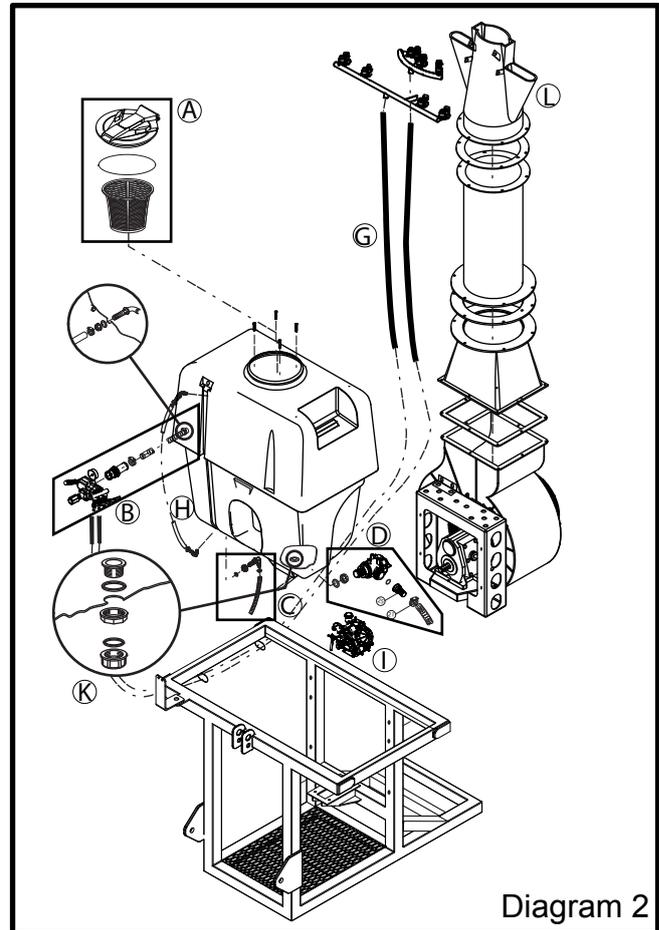


Diagram 2

8. Make sure to include the drain cap (K) in order to secure the water inside the tank.
9. Screw the tanklid on top of the opening on the tank

TANK REMOVAL

The tank removal process is somewhat similar to that of installation process. Simply reverse the steps taken from no. (1) till (8)



FAULT FINDINGS

A. FAULT By utilising the filler piping the pump doesn't operate (suction).



It is necessary to disengage the drive outlet (PTO) and wait for it to stop rotating before repeating the filling operation.

1. CAUSE : The quantity of water poured into the tank is insufficient to trigger the pump.
REMEDY : **Add water to the tank until the pump starts its cycle.**
2. CAUSE : The filler piping sucks in air.
REMEDY : **Completely submerge the suction filter of the filler piping.**
3. CAUSE : Lack of seal of the pipes.
REMEDY : **Check the tightening of ring nuts, fittings and clamps. Check the efficiency of sealers and that piping elements are not cracked or broken. Replace parts that are possibly found to be defective.**

B. FAULT Leakage and dripping from the pump.

1. CAUSE : Non-sealing of the fittings and clamps connecting the piping to the pump.
REMEDY : **Check for proper tightening of ring nuts and clamps.**
2. CAUSE : Mechanical sealing defective.
REMEDY : **Address to RB Spraytech Sdn. Bhd. point of "Sale and Service".**

C. FAULT Variations in the pressure.

1. CAUSE : Lack of seal of the pipes and/or the valves.
REMEDY : **Check the clamping of the ring nuts, the connections and the clamps. Verify the efficiency of the gaskets and the integrity of the pipes. Replace the possibly defective parts.**
2. CAUSE : Residue of product at the entrance of the gauge
REMEDY : **Clean.**
3. CAUSE : Lack of seal of the O-Ring gasket of the pump suction connection (cone).
REMEDY : **Check the correct assembling and the efficiency of the O-Ring gasket, if necessary replace the gasket.**

D. FAULT Vibrations of fan unit.

1. CAUSE : The tractor and of the atomizer PTOs are not lined up or their position determines the overcoming of the maximum work angle of the drive cardan shaft.
REMEDY : **Raise or lower the sprayer in order to realign PTO so that cardan shaft functions correctly.**



TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

FAULT FINDINGS

E. FAULT Anomalous and continuous noisiness together with vibrations of the fan group.

1. CAUSE : Breaking of the fan shaft bearings.
REMEDY : **Address to RB Spraytech Sdn. Bhd. point of 'Sale and Service'.**
2. CAUSE : Interference fan - case.
REMEDY : **Address to RB Spraytech Sdn. Bhd. point of 'Sale and Service'.**

F. FAULT No spraying action delivered: totally.

1. CAUSE : Clogging up of the grill/filter on the pump, of the pump suction inside the tank or suction pipes of pump clogged up with deposits of hardened plant protection product.
REMEDY : **Clean.**

G. FAULT No spraying action delivered: totally.

1. CAUSE : Pump defective (only in case total delivery missing).
REMEDY : **Address to RB Spraytech Sdn. Bhd. point of 'Sale and Service'.**



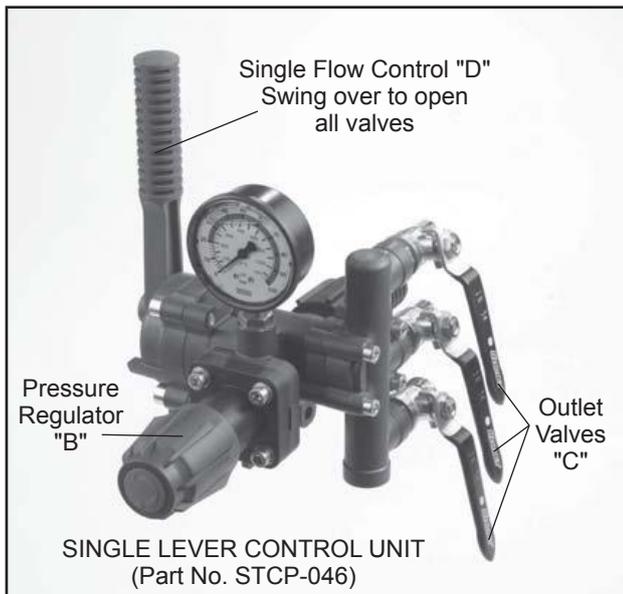
THE CAUSES AND REMEDIES FOR THE FAULTS CONCERNING THE DELIVERY OF THE SPRAYING BY ONE OR MORE DIFFUSERS ARE INDICATED IN THE USE AND MAINTENANCE MANUAL OF EACH SPRAYHEAD.



TURBOMIZER P65 - 600 LITER - Tractor Mounted

CONTROL VALVE

CONTROL VALVE



Single Lever Control Unit

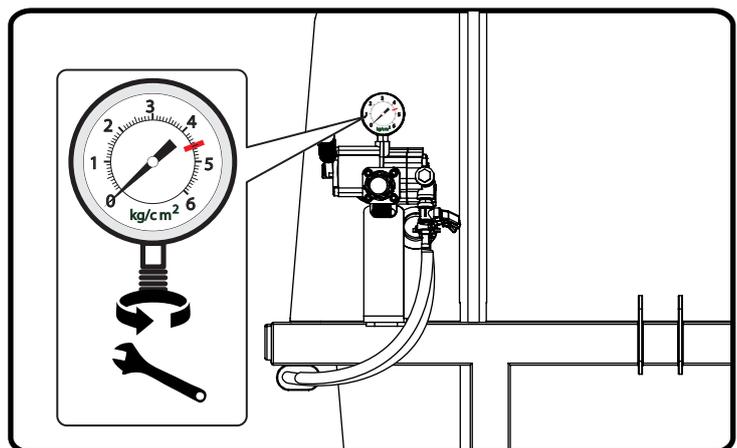
Fluid is directed to the boom lines or other spraying devices by four outlet valves which may be operated individually or as a group. The individual valves are open when levers “C” are vertically down and closed when vertically up. Raising the single lever “D” and swinging it over to the other side of the valve opens the flow to all valves and swinging it back closes the flow.

Once the required outlets have been selected using the individual valves, spraying may be started and stopped by using the single lever. If you wish to stop spraying but leave the tractor PTO running, close the single lever and move the bypass lever to by-pass mode.

PRESSURE GAUGE REPLACEMENT

Pressure gauge regulator act as the display that indicates the current pressure of the pump.

1. Identify whether the pressure gauge is broken.
2. Using the correct size of spanner, unscrew the pressure gauge away from the Control Valve.
3. Replace with the new pressure gauge and screw it into the Control Valve using the suitable spanner.





TURBOMIZER P65 - 600 LITER - Tractor Mounted

LEVEL GAUGE CLEANING

1. With a suitable pliers release the clamp ① fixing transparent tube of the level gauge.
2. Take off and remove the transparent tube ②.
3. Remove the red plastic ball ③.
4. Clean the transparent tube both inside and out with clean water.



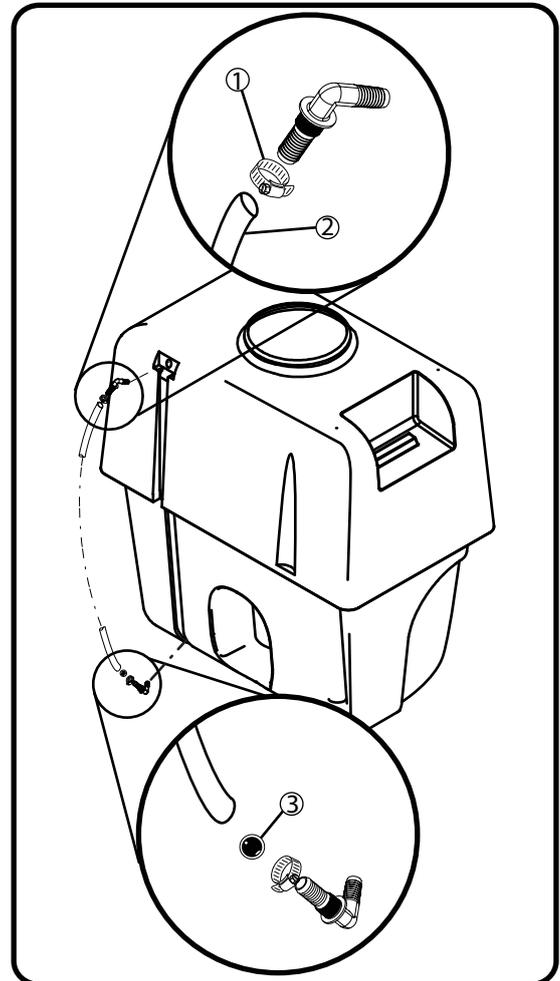
Gather the rinsing water in a proper container provided to be waste according to the rules or used again, putting it in the tank, for a next treatment if suitable with the product to be used.

5. If the cleaning is not satisfactory, replace the transparent tube ②.



Waste the transparent tube according to the same method as per the pesticides container.

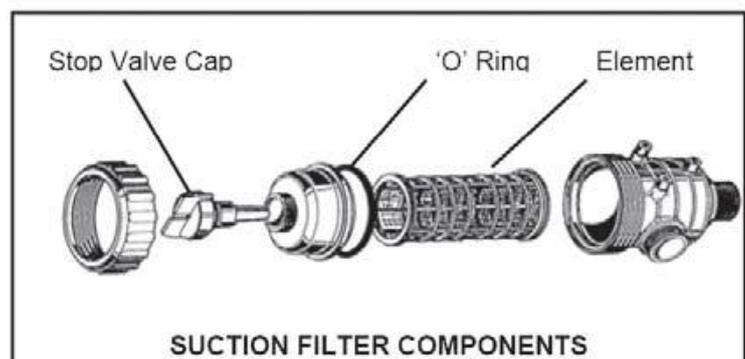
6. Put the red plastic ball ③ into the transparent tube ②.
7. Install the transparent tube ② making slip it on the rubber fittings.
8. Place the clamps ① fixing the transparent tube ② of the level gauge and close them with a suitable pliers.



FILTER

The suction filter is fitted with a shut-off valve which closes automatically when the valve cap is screwed off. This allows the filter cover to be unscrewed and the element to be removed for cleaning while there is fluid in the tank. Gloves should be worn when handling the filter.

When the sprayer is operating the valve must be fully screwed in to open the shut-off valve and allow fluid to pass through the filter. Directional arrows are moulded into the valve cap to show the opening and closing operation.



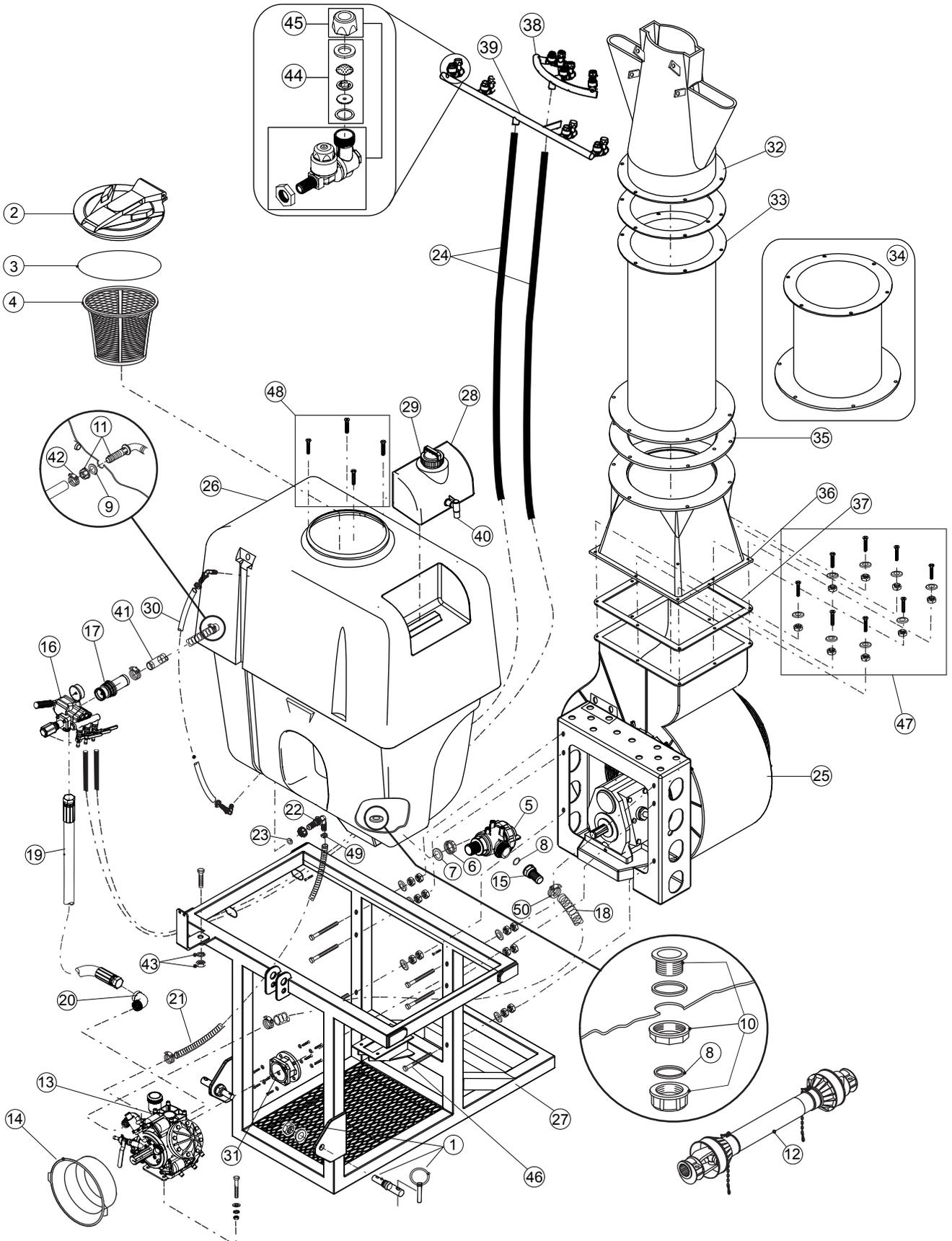
SUCTION FILTER COMPONENTS



TURBOMIZER P65 - 600 LITER - Tractor Mounted

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P65 ASSEMBLY



SPARE PARTS LIST



TURBOMIZER P65 - 600 LITER - Tractor Mounted

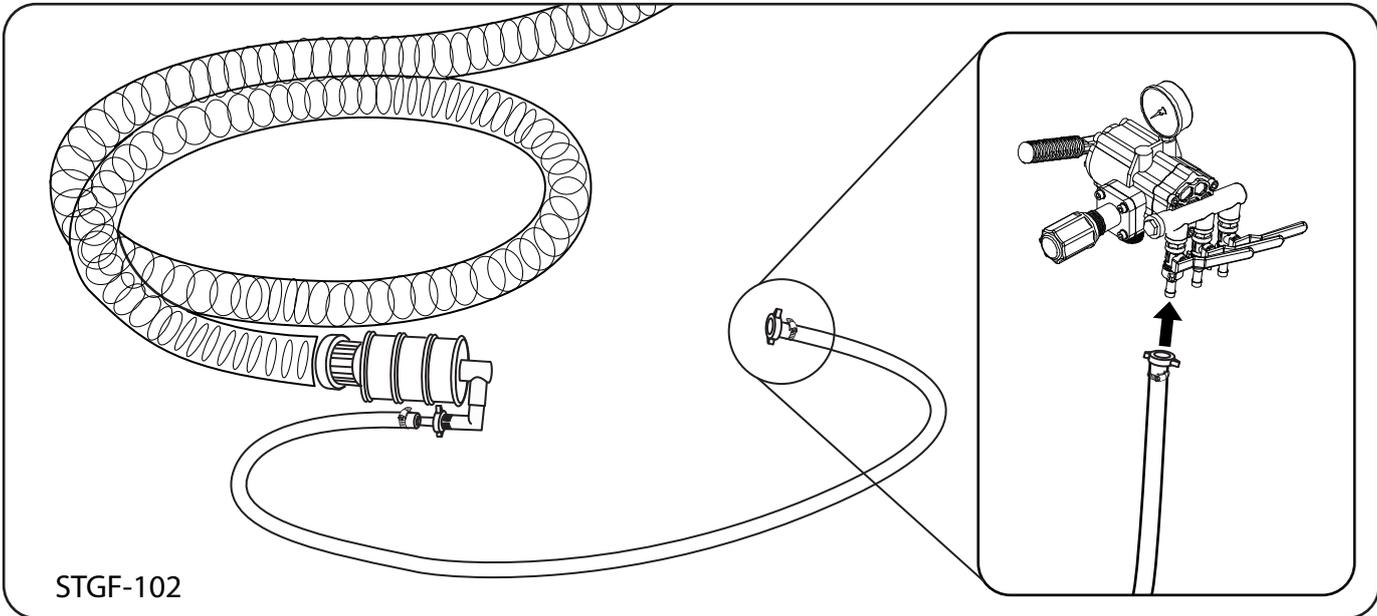
www.rbspraytech.com

P65 SPARE PART LIST

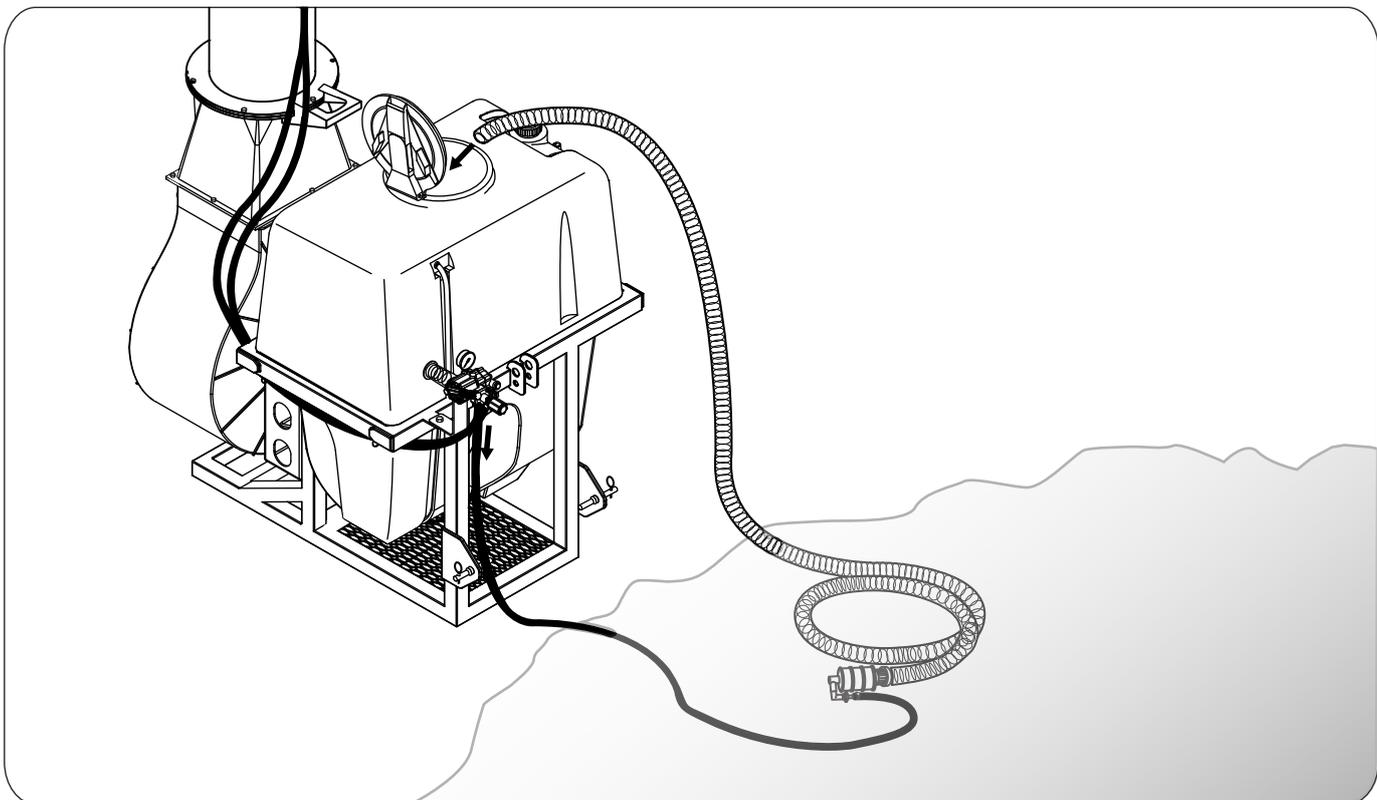
NO	ALTERNATE NO.	DESCRIPTION	QTY
1	STHC-111-10000	CAT 2 NUT	2
1	STHC-111-10001	SPRING WASHER	2
1	STHC-111-10002	CAT 2 PIN	2
1	STHC-111-10003	COTTER ASSY	2
2	STAF-091-10002	TANK LID	1
3	STAF-091-10007	O RING FOR TANK LID	1
4	STAF-091-10003	BASKET FILTER	1
5	STGF-101-10005	FILTER	1
6	STGF-101-10006	1'1/4 BSP BACK NUT	1
7	STGF-101-10003	WASHER	2
8	STAF-091-10001	WASHER	3
9	STAF-091-10000	WASHER	1
10	STGF-101-10002	1¼ BSP COMPLETE	1
11	STGF-101-10001	HOSETAIL	1
12	STEP-131-10001	PTO SHAFT	1
13	STCP-049	APS 71 PUMP	1
14	STCP-049-10068	FIXED PROTECTION	1
15	STAF-091-10018	STRAIGHT HOSETAIL 1"1/4 (35MM)	1
16	STCP-046	CONTROL UNIT HPR (50 BAR)	1
17	STCP-046-10040	SUCK-BACK HOSETAIL	1
18	STCH-301-10000	SPRING HOSE (3FEET)	3
19	STCH-301-10001	HYDRAULIC HOSE C/W FEMALE COUPLING'S	1
20	STCH-301-10002	BRONZE STREET ELBOW ADAPTOR	1
21	STCH-301-10003	SPRING HOSE (2 FEET)	2
22	STAF-091-10020	SINGLE-PIECE ELBOW	1
23	STAF-091-10021	FLAT GASKET	1
24	STCH-301-10004	HYDRAULIC HOSE C/W FEMALE COUPLING'S	2
25	STCG-231-10003	TURBOFAN GBT3	1
26	STOT-281-10000	THRU-HOLE 600L TANK	1
27	STST-271-10000	TANK FRAME	1
28	STOT-281-10001	CLEAN WATER TANK	1
29	STTK-015-10000	CLEAN WATER TANK CAP	1
30	STAF-091-10019	TANK LEVEL INDICATOR	1
31	STIS-291-10000	FLANGE	1
32	STST-271-10001	ROCKET HEAD	1
33	STST-271-10002	80CM EXTENSION TUBE	1
34	STST-271-10003	40CM EXTENSION TUBE	1
35	STST-271-10004	GASKET 1	2
36	STST-271-10005	EXTENSION TUBE HOLDER	1
37	STST-271-10006	GASKET 2	1
38	STST-271-10007	NOZZLE SUPPORT 3 - HOLE	1
39	STST-271-10008	NOZZLE SUPPORT 4 - HOLE	1
40	STGF-101-10007	TAPS FOR HAND WASH	1
41	STCH-301-10005	186 - 25A (2) HOSE	7 INCH
42	STCH-301-10006	HOSE CLIP (22 - 29)	2
43	STBB-312-10000	BOLT AND NUT	21
44	STBN-311-10000	NOZZLE KIT	1 SET
45	STBN-311-10001	BRASS NOZZLE HOLDER	7 SET
46	STBB-312-10001	BOLT AND NUT (M12)	6 SET
47	STBB-312-10002	BOLT AND NUT (M8)	12 SET
48	STBB-312-10003	BOLT AND NUT (8 X 1)	8 PCS
49	STCH-301-10007	HOSE CLIP (13 - 19)	2 PCS
50	STCH-301-10008	HOSE CLIP (25 - 35)	2 PCS

ACCESSORIES

IN-FIELD SUCTION HOSE

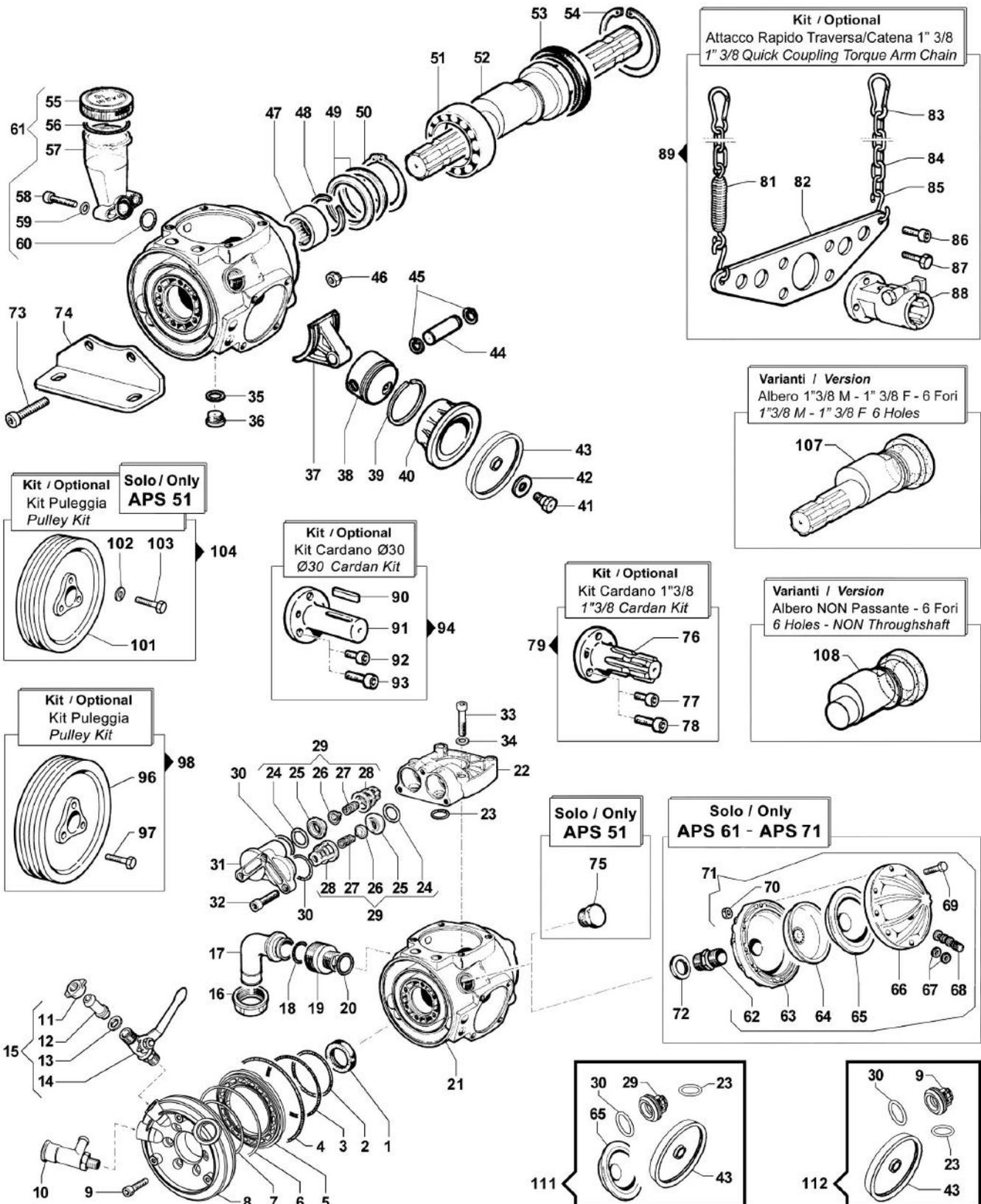


The in-field suction hose is for filling up the tank. It must be screwed into the place on the HPR control as in the diagram above.





APS 71 - Diaphragm Pump



SPARE PARTS LIST



APS 71- Diaphragm Pump (Use with 600 Liter)

www.rbspraytech.com

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
1	STCP-049-10000	0019 0083	OIL SEAL	1
2	STCP-049-10001	1210 0347	O-RING	1
3	STCP-049-10002	1210 0345	O-RING	1
4	STCP-049-10003	1210 0349	O-RING	1
5	STCP-049-10004	0602 0058	PLASTIC SPACER	1
6	STCP-049-10005	1210 0206	O-RING	1
7	STCP-049-10006	1210 0431	O-RING	1
8	STCP-049-10007	1009 0202	MANIFOLD FLANGE	1
9	STCP-049-10008	3609 0006	SCREW	6
10	STCP-049-10009	1219 0051	SAFETY VALVE ASSEMBLY	1
	STCP-049-10010	1219 0046	SAFETY VALVE ASSEMBLY	1
11	STCP-043-10024	1200 0038	WING NUT	1
12	STCP-043-10022	2802 0018	DELIVERY HOSE TAIL	1
13	STCP-043-10023	1209 0013	GASKET	1
14	STCP-043-10032	2826 0030	LEFT TAP	1
15	STCP-044-10068	1214 0014	LEFT COMPLETE TAP	1
16	STCP-049-10011	1200 0011	WING NUT	1
17	STCP-049-10012	2801 0009	SUCTION ELBOW TAIL	1
18	STCP-044-10011	1210 0034	O-RING	1
19	STCP-049-10013	2803 0108	COUPLING	1
20	STCP-049-10014	1210 0173	O-RING	1
21	STCP-049-10015	0403 0115	PUMP CRANKCASE	1
22	STCP-049-10016	3218 0103	PUMP MANIFOLD	3
23	STCP-044-10005	1210 0047	O-RING	6
24	STCP-049-10017	1210 0443	O-RING	6
25	STCP-049-10018	3009 0115	SUCT.DELIVERY VALVE CAGE	6
26	STCP-044-10026	3604 0023	SUCTION DELIVERY VALVE	6
27	STCP-049-10019	1802 0015	SPRING(WIRE 0,8)	6
28	STCP-049-10020	1205 0029	SUCT.DELIVERY VALVE CAGE	6
29	STCP-049-10021	1220 0035	SUCT.DELIVERY VALVE ASSY.KIT	6
30	STCP-049-10022	1210 0032	O-RING	6
31	STCP-049-10023	3202 0197	PLUG	3
32	STCP-049-10008	3609 0006	SCREW	9
33	STCP-049-10024	3609 0078	SCREW	12
34	STCP-042-10035	2811 0098	WASHER	12
35	STCP-049-10025	1210 0044	O-RING	1
36	STCP-049-10026	3200 0010	PLUG	1
37	STCP-049-10027	0205 0053	CONNECTING ROD ASSEMBLY	1
38	STCP-049-10028	2409 0067	PISTON	3
39	STCP-049-10029	0020 0008	COMPRESSION RING	3
	STCP-049-10030	0400 0074	PISTON SLEEVE	3
40	STCP-049-10031	0400 0073	PISTON SLEEVE	3
	STCP-049-10032	0400 0072	PISTON SLEEVE	3
41	STCP-042-10011	3605 0005	DIAPHRAGM HOLDER SCREW	3
42	STCP-049-10033	0602 0010	DISC	3
	STCP-049-10034	1800 0088	DIAPHRAGM	3
43	STCP-049-10035	1800 0096	DIAPHRAGM	3
	STCP-049-10036	1800 0095	DIAPHRAGM	3
44	STCP-049-10037	3011 0021	GUDGEON PIN	3
45	STCP-049-10038	3020 0029	INNER SEEGER	6
46	STCP-049-10039	0604 0073	NUT	2
47	STCP-049-10040	0437 0022	ROLLER BEARING	1
48	STCP-049-10041	0009 0186	RING	1
49	STCP-049-10042	0010 0021	CONNECTING ROD RING	2
50	STCP-049-10043	3019 0001	OUTER SEEGER	1
51	STCP-049-10044	0438 0001	BALL BEARING	1
	STCP-049-10045	0001 0518	THROUGHSHAFT	1
52	STCP-049-10046	0001 0517	THROUGHSHAFT	1
	STCP-049-10047	0001 0516	THROUGHSHAFT	1
53	STCP-049-10048	0019 0085	OIL SEAL	1
54	STCP-049-10049	3020 0002	INNER SEEGER	1
55	STCP-049-10050	0402 0141	VOLUM.COMPENSATOR COVER	1
56	STCP-049-10051	1210 0122	O-RING	1
57	STCP-049-10052	0421 0015	VOLUMETRIC COMPENSATOR	1
58	STCP-049-10053	3609 0002	SCREW	2
59	STCP-041-10056	2811 0004	WASHER	2
60	STCP-049-10054	1210 0233	O-RING	1
61	STCP-049-10055	1208 0013	VOLUMETRIC COMPENS.KIT	1
62	STCP-049-10056	2000 0024	NIPPLE	1
63	STCP-049-10057	0002 0031	PRESSURE ACCUMULATOR	1
64	STCP-042-10014	0460 0036	DIAPHRAGM SUPPORT CAP	1
65	STCP-042-10013	1800 0034	DIAPHRAGM SUPPORT CAP	1
66	STCP-049-10058	0003 0027	PRESSURE ACCUMULATOR	1
67	STCP-041-10027	1209 0033	GASKET	2
68	STCP-041-10025	3610 0003	AIR VALVE	1
69	STCP-049-10059	3607 0025	HEXAGONAL SCREW	8
70	STCP-049-10060	0604 0015	NUT	8
71	STCP-049-10061	1225 0014	PRESSURE ACCUMUL.ASSY	1
72	STCP-049-10062	0601 0284	SPACER	1

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
73	STCP-049-10063	3609 0049	SCREW	2
74	STCP-049-10064	2400 0066	PUMP MOUNTING BRACKET	2
75	STCP-049-10065	0432 0031	CAP	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
76	STCP-041-10062	0027 0016	SHAFT	1
77	STCP-041-10063	3609 0157	SCREW	3
78	STCP-041-10064	3609 0026	SCREW	3
79	STCP-041-10025	5003 0007	CARDAN KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
81	STCP-041-10076	1802 0040	SPRING (WIRE 2,5)	1
82	STCP-041-10077	3221 0003	TORQUE ARM-QUICK COUPLING	1
83	STCP-041-10078	1202 0009	HOOK	2
84	STCP-041-10079	0465 0001	CHAIN	2
85	STCP-041-10080	1202 0006	HOOK	2
86	STCP-041-10064	3609 0026	EXAGONAL SCREW	3
87	STCP-041-10089	3607 0225	HEXAGONAL SCREW	4
88	STCP-041-10082	1407 0046	QUICK COUPLING	1
89	STCP-041-10083	5002 0003	TORQUE ARM-QUICK COUPLING KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
90	STCP-041-10065	1602 0018	KEY	1
	STCP-041-10066	0027 0017	SHAFT	1
91	STCP-049-10066	0027 0023	SHAFT	1
92	STCP-041-10063	3609 0157	SCREW	3
93	STCP-041-10064	3609 0026	SCREW	3
94	STCP-041-10067	5003 0014	CYLINDER CARDAN KIT	1
	STCP-049-10067	5003 0041	CYLINDER CARDAN KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
96	STCP-049-10068	2424 0016	PULLEY	1
	STCP-049-10069	2424 0035	PULLEY	1
97	STCP-042-10044	3609 0161	SCREW	3
98	STCP-049-10070	5001 0043	PULLEY KIT	1
	STCP-049-10071	5001 0045	PULLEY KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
101	STCP-041-10069	2424 0007	PULLEY	1
	STCP-041-10070	2424 0008	PULLEY	1
102	STCP-049-10072	2819 0004	SPRING WASHER	3
103	STCP-049-10073	3607 0008	HEXAGONAL SCREW	3
104	STCP-049-10074	5001 0062	PULLEY KIT	1
	STCP-049-10075	5001 0064	PULLEY KIT	1

VERSION

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
	STCP-049-10076	0001 0515	6 HOLES THROUGHSHAFT	1
107	STCP-049-10077	0001 0514	6 HOLES THROUGHSHAFT	1
	STCP-049-10078	0001 0513	6 HOLES THROUGHSHAFT	1

VERSION

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
	STCP-049-10079	0001 0322	6 HOLES - NON THROUGHSHAFT	1
108		0001 0322	6 HOLES - NON THROUGHSHAFT	1
		0001 0295	6 HOLES - NON THROUGHSHAFT	1

MAINTENANCE KIT

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
111	STCP-049-10082	5026 0085	ORDINARY MAINTENANCE KIT	1
112	STCP-049-10083	5026 0084	ORDINARY MAINTENANCE KIT	1

SPARE PARTS LIST



TURBOMIZER P65 - 600 LITER - Tractor Mounted

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HPR - Pump Control (Use with 600 Liter Model)

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
1	STCP-046-10000	1600 0049	LEVER	1
2	STCP-046-10001	3609 0162	SCREW	4
3	STCP-046-10002	3021 0023	ELASTIC PIN	1
4	STCP-046-10003	0415 0037	MANIFOLD FOR LEVER	1
5	STCP-046-10004	1210 0159	O-RING	1
6	STCP-046-10005	2408 0061	PIVOT	1
7	STCP-046-10006	3007 0025	VALVE SELECTOR	1
8	STCP-046-10007	3021 0018	ELASTIC PIN	1
9	STCP-046-10008	1802 0121	SPRING	1
10	STCP-046-10009	3003 0021	BALL	1
11	STCP-046-10010	3009 0079	SEAT	2
12	STCP-046-10004	1210 0159	O-RING	2
13	STCP-046-10011	1210 0221	O-RING	1
14	STCP-046-10012	1202 0035	HOOK	1
15	STCP-046-10013	3009 0101	SUCK-BACK SEAT	1
16	STCP-046-10014	3003 0019	BALL	1
17	STCP-045-10028	1802 0015	SPRING (WIRE 0,8)	1
18	STCP-046-10015	3007 0023	VALVE SELECTOR	1
19	STCP-046-10007	3021 0018	ELASTIC PIN	1
20	STCP-046-10016	1210 0219	O-RING	1
21	STCP-046-10017	0415 0039	TAP BODY	1
22	STCP-046-10018	3200 0007	PLUG	1
23	STCP-043-10032	2826 0030	LEFT TAP	3
24	STCP-043-10023	1209 0013	GASKET	3
25	STCP-043-10022	2802 0018	DELIVERY HOSE TAIL	3
26	STCP-043-10024	1200 0038	WING NUT	3
27	STCP-044-10068	1214 0014	COMPLETE TAP	3
28	STCP-046-10019	3609 0165	SCREW	3
29	STCP-046-10020	3202 0153	WING NUT PLUG	1
30	STCP-046-10021	3609 0125	SCREW	1
31	STCP-046-10022	1223 0032	WING NUT	1
32	STCP-043-10002	1209 0044	SPACER	1
33	STCP-044-10065	1802 0053	SPRING	1
	STCP-043-10001	1802 0048	SPRING	1
34	STCP-046-10023	3609 0032	SCREW	4
35	STCP-046-10024	2811 0030	WASHER	4
36	STCP-046-10025	0424 0251	REGULATION VALVE BODY	1
37	STCP-046-10026	1210 0019	O-RING	1
38	STCP-046-10027	2426 0017	GUIDE	1
39	STCP-046-10028	1800 0043	WITON @ VALVE DIAPHRAGM	1
40	STCP-046-10029	3600 0065	PRESSURE VALVE	1
41	STCP-046-10030	3609 0115	SCREW	1
42	STCP-046-10031	3009 0099	VALVE SEAT	1
43	STCP-046-10032	0424 0249	CONTROL ASSY.Y BODY	1
44	STCP-046-10033	0424 0253	BODY	1
	STCP-046-10034	1816 0128	PRESSURE GAUGE	1
	STCP-046-10035	1816 0118	PRESSURE GAUGE	1
45	STCP-044-10021	1816 0117	PRESSURE GAUGE	1
	STCP-044-10002	1816 0115	PRESSURE GAUGE	1
47	STCP-046-10036	0601 0241	SPACER	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
51	STCP-046-10037	1210 0223	O-RING	1
52	STCP-041-10051	1210 0191	O-RING	1
53	STCP-046-10038	2803 0285	SUCK-BACK HOSE TAIL	1
	STCP-046-10039	2803 0247	SUCK-BACK HOSE TAIL	1
54	STCP-046-10040	2803 0329	SUCK-BACK HOSE TAIL KIT	1
	STCP-046-10041	2803 0327	SUCK BACK HOSE TAIL KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
57	STCP-045-10042	1211 0033	ELBOW	1
58	STCP-044-10036	0604 0050	NUT	1
59	STCP-046-10043	2803 3375	ON PUMP HOSE TAIL KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
62	STCP-044-10059	2802 0009	STRAIGHT QUICK COUPLING	1
63	STCP-041-10015	1210 0002	O-RING	2
64	STCP-046-10044	1223 0034	WING NUT	1
65	STCP-046-10045	2800 0064	DELIVERY HOSE TAIL	1
66	STCP-046-10046	1209 0018	GASKET	1
67	STCP-046-10047	5004 0102	STRAIGHT REMOTE CONTROL KITS	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
68	STCP-044-10039	0412 0025	ELBOW COUPLING	1
69	STCP-044-10036	0604 0050	NUT	1
70	STCP-046-10048	2803 0511	ELBOW COUPLING KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
71	STCP-042-10021	2803 0033	ELBOW QUICK COUPLING	1
72	STCP-041-10015	1210 0002	O-RING	2
73	STCP-046-10044	1223 0034	WING NUT	1
74	STCP-046-10045	2800 0064	DELIVERY HOSE TAIL	1
75	STCP-046-10046	1209 0018	GASKET	1
76	STCP-046-10049	5004 0100	ELBOW REMOTO CONTROL KITS	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
81	STCP-046-10050	0032 0003	QUICK COUPLING	2
82	STCP-046-10051	0412 0012	HELBOW COUPLING	1
83	STCP-044-10039	0412 0025	HELBOW COUPLING	1
84	STCP-046-10052	5004 0118	REMOTE CONTROL KIT WITH SELF-LOCKING DEVICES	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
85	STCP-044-10036	0604 0050	NUT	1
86	STCP-046-10053	1209 0104	GASKET	1
87	STCP-046-10054	2803 0336	COUPLING	1
88	STCP-046-10044	1223 0034	WING NUT	1
89	STCP-046-10055	2803 0252	COUPLING	1
90	STCP-046-10056	2803 0248	ON PUMP HOSE TAIL KIT	1

KIT OPTIONAL

NO	ALTERNATE NO	CODE	DESCRIPTION	QTY
91	STCP-044-10036	0604 0050	NUT	1
92	STCP-046-10053	1209 0104	GASKET	1
93	STCP-046-10054	2803 0336	COUPLING	1
94	STCP-046-10044	1223 0034	WING NUT	1
95	STCP-046-10057	2803 0250	COUPLING	1
96	STCP-046-10058	2803 0246	ON PUMP HOSE TAIL KIT	1
97	STCP-046-10059	2803 0205	ELBOW COUPLING	1
98	STCP-046-10060	2803 0240	ON PUMP HOSE TAIL KIT	1



TURBOMIZER P65 - 600 LITER - Tractor Mounted

WARRANTY

RB SPRAY TECH welcomes any warranty repair and apologises for any inconvenience caused. See the next page for the statement of the warranty coverage offered by RB SPRAY TECH. The following information will assist your understanding of warranty procedures.

Any authorised RB SPRAY TECH dealer service outlet can perform warranty repairs, however, we recommend that such repairs be carried out by the Dealer from whom you bought the machine.

Most warranty repairs are handled routinely, but sometimes requests for repairs cannot be accepted under warranty. Normal wear and tear is not covered by warranty nor does warranty apply if a machine fails prematurely and that failure can be attributed to abuse or neglect.

Whilst RB SPRAY TECH will abide by its warranty policy under all genuine circumstances, we must emphasise that such can only apply when our equipment has been used in applications for which it was designed and manufactured and that a reasonable degree of care and common sense has been exercised by the operator.

Warranty Repair Site

The warranty provides for repairs to be carried out at the servicing dealer's normal place of business. An owner may elect to have repairs carried out at his own residence but, whilst RB SPRAY TECH will accept the actual repair cost of the failed component(s), the travelling costs will not be covered under warranty.

Items Not Covered By Warranty

The warranty does not allow for the cost of the following items. These are the responsibility of the owner.

- 1) Labour to travel to and from a broken-down machine or for any distance charges.
- 2) Labour premiums that might apply for any repairs that are made outside the dealer's normal business hours.
- 3) Transportation costs of the machine to and from the service outlet.
- 4) Freight costs to get parts to and from the service outlet.
- 5) Telephone and fax calls made by the owner in connection with the warranty repair.

TO PASS SAFETY INFORMATION

The buyer is responsible towards the final user for the safety information shown on the sale documentation, concerning use limit, performances and product features.

VALIDITY AND ACCEPTANCE

The guarantee is valid if the CERTIFICATE OF GUARANTEE is sent, to RB Spraytech Sdn. Bhd., with every part of it filled in,



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TURBOMIZER P65 - 600 LITER - Tractor Mounted

CERTIFICATE OF WARRANTY

The warranty will not be considered valid if this coupon, with every part of it filled in, is not mailed to the following address: Head Office RB Spray Tech Sdn. Bhd. (627487-D), ,No.44, Lorong Sanggul 1E, Bandar Puteri Klang, 41200 Klang, Selangor Darul Ehsan, Malaysia., or sent by fax to the following number: +603 51615741.

Last name, Name or
NAME OF THE FIRM

ADDRESS

Place PROVINCE ZIP

e.mail (*) telephone (*)

Date of purchase INVOICE N.

MACHINE MOD. MATRICULATION N.

SPRAYHEAD MOD.

Dealer's stamp (compulsory)

(*) NOT COMPULSORY DATA

PRIVACY

Consent for the personal data processing- **PROTECTION OF THE PRIVACY .**

I authorize you to do the processing of my personal data in observance of the law above mentioned, for the indicated purposes, and so that they can be communication to the subjects for the declared purposes.

Date Signature

CUT ALONG THE DOTTED LINE



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TURBOMIZER P65 - 600 LITER - *Tractor Mounted*

NOTES

A series of horizontal dotted lines for taking notes.