EQUINOX

Verti Jet

User Manual

Order code: EQLED356

WARNING - FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.

CAUTION!
TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is 240V AC, 50Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.

- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- WARRANTY: One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

Before filling the unit disconnect the mains. Never fill with hot liquids.

Only use high quality, water based smoke fluid recommended by the manufacturer. Other smoke fluids may cause clogging and void the guarantee.

Always make sure there is sufficient smoke fluid in the tank. Operating this smoke machine without smoke fluid will cause damage to the pump as well as over heating of the heater.

Operate the unit only after you have familiarised yourself with its functions. Do not permit operation by persons not qualified for operating the unit and always drain the tank and use the original packaging if the unit is to be transported.
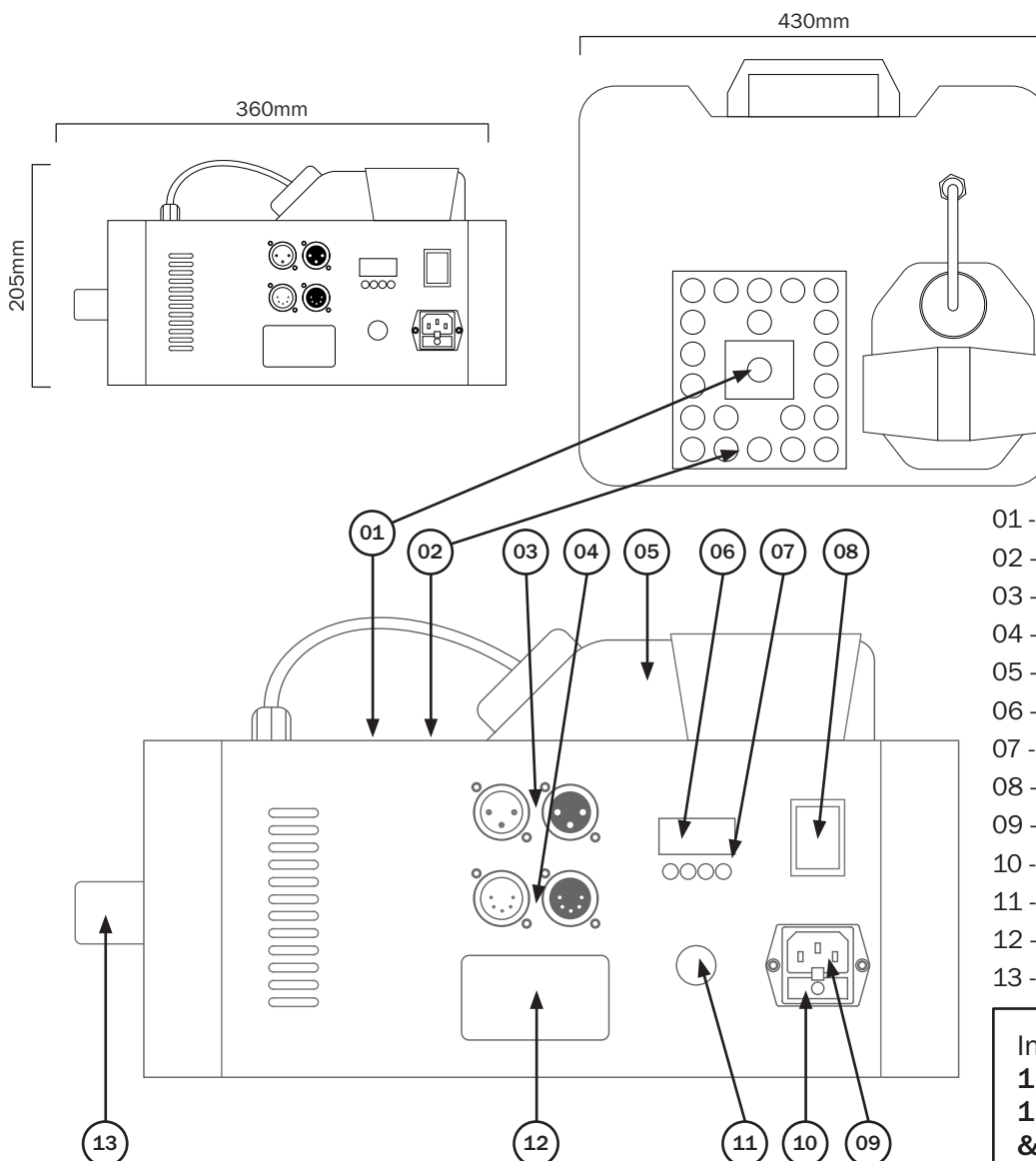
Verti Jet

The Verti Jet combines a high output LED wash with a high output fogger. Red, green and blue colour mixing along with a copious fog output adds an extra dimension of effects at shows and events. This machine produces a 12,000 cubic feet per minute output with a 1500W heater and a 2.5 litre fluid tank.

- 21 x 3W tri-colour LEDs (RGB)
- Smoke output: approx. 12,000 cu.ft per minute
- Projection distance: 6-8m
- Warm-up time: approx. 4-5 mins
- Tank capacity: 2.5 litres
- DMX channels: 7
- Static colour, colour change and auto modes

Wireless Remote Control included

Specifications	
Power consumption	1600W
Power supply	220~240V, 50/60Hz
Fuse	F8A 250V
Dimensions	205 x 430 x 360mm
Weight	8.4kg
Order code	EQLED356

430mm

360mm

205mm

01 - Smoke aperture

02 - LED output

03 - 3-Pin XLR input/output

04 - 5-Pin XLR input/output

05 - Fluid tank

06 - LED display

07 - Menu buttons

08 - Power on/off switch

09 - IEC power input

10 - Fuse F8A 250V

11 - Manual switch

12 - Remote control sensor

13 - Carry handle

In the box: **1 x fixture,
1 x wireless remote control,
1 x power cable
& 1 x user manual**

Operation:

Place the unit on a level surface with the output nozzle orientated for vertical (upwards) or horizontal output. DO NOT install in a vertical (downwards) position or above any persons.

Always disconnect it from the mains supply before filling as fluid could be spilled.

Fluid replenishment:

Always fill the tank away from the unit to prevent fluid getting inside the main housing.

If fluid should get inside the main housing, disconnect the unit from the mains immediately and consult a technician.

Remove the pipe from the tank by unscrewing the cap fully. Then unscrew the 2 spring-loaded hand screws from the bracket securing tank and remove tank. Once out and away from unit, stand the tank upright, then fill tank with fluid. Slide bottle back into the unit and replace the pipe by screwing the cap back on tightly. Secure the tank by replacing the bracket and securing with the 2 spring-loaded hand screws, making sure they are firmly in position.

Installation:

Install the unit in a well-ventilated area. Use in an insufficiently ventilated room can lead to the condensation of the smoke fluid. The resulting slippery surface can cause accidents. Keep a minimum distance of 1m around the unit.
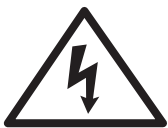
Furthermore do not orientate the output aperture directly in the direction of the audience's eyes. In order to create the best effect, there should be a distance between the unit and the audience of at least 3m.

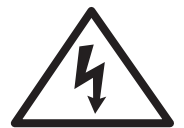Only install the smoke machine on fire resistant, scratch resistant and water resistant surfaces.

DANGER OF FIRE!
When installing the unit, make sure there is no highly flammable
material (decoration articles etc) within a minimum distance of 1m

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DANGER TO LIFE!
Disconnect from the mains before starting maintenance

Only use quality smoke fluids recommended by your dealer. You must
not use substances which are classified as 'DANGEROUS WORKING
MATERIALS' or 'FLAMMABLE FLUIDS'.

On startup the LED display ill show UP whilst the unit it heating up.

After the unit has heated up the LED display will show $rEAd$ the unit is ready to fog.
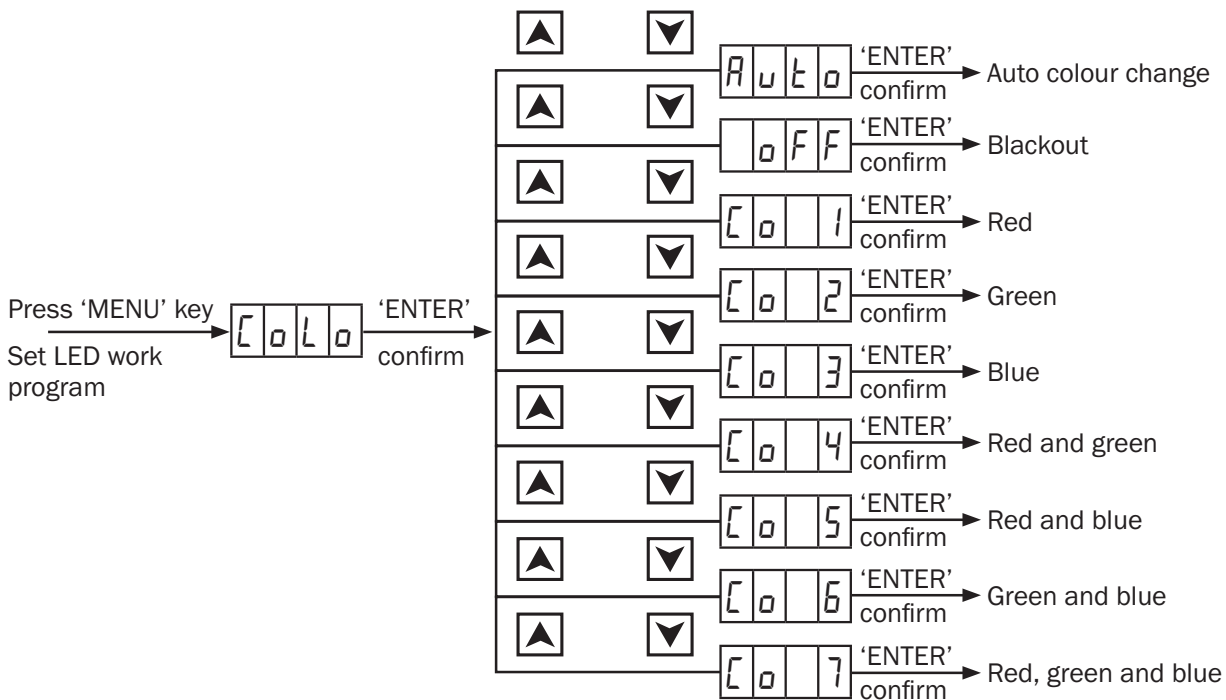
<u>**Manual control mode:**</u>

Manual control can be facilitated via the wireless remote or the "**MANUAL**" button located under the LED display.

The desired colour of LEDs can be set for manual mode by following the instructions below.

Press the "**MENU**" button on the unit to show $CoLo$ on the LED display. Press the "**ENTER**" button then use the "**UP**" and "**DOWN**" buttons to choose the desired colour, then press the "**ENTER**" button to confirm.

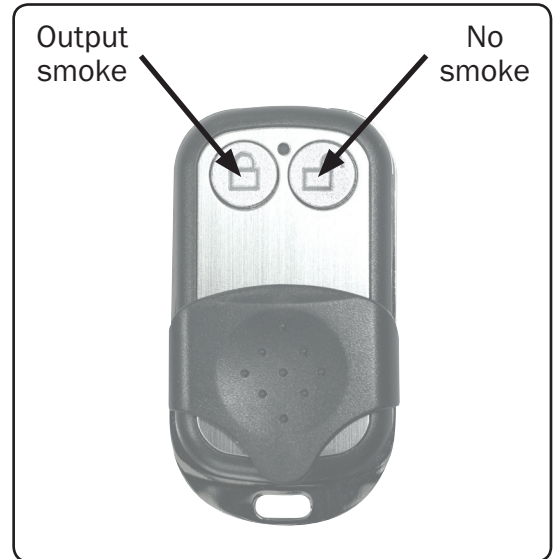Press and hold the "**MANUAL**" button on or press the lock button on the remote for operation.

Please note: Once the lock button on the remote has been pressed, the fogger will run for 5 seconds in the colour set, followed by a 30 second interval continuously.

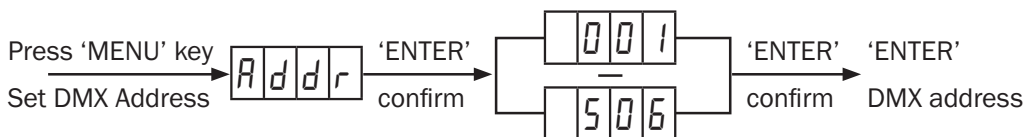Note: The colour will show in the smoke output once set.

Remote:

Press the "**MENU**" button on the unit to show $r\mathcal{E}\mathcal{N}_o$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select $o\mathcal{n}$ or $o\mathcal{FF}$. Press the "**ENTER**" button to confirm the setting.

Output smoke / No smoke

DMX mode:

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

To access the DMX address mode, press the "**MENU**" button on the unit to show $Addr$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to set the required DMX address. Press the "**ENTER**" button to confirm the setting.

Press 'MENU' key → Set DMX Address → $Addr$ → 'ENTER' confirm → 001 / 506 → 'ENTER' confirm → 'ENTER' DMX address

Note: This unit is designed so the DMX control takes priority. When a DMX controller is connected the screen will display the current address code and wireless remote control function and the manual button function will both be disabled.

Channel	Value	Function
CH1	000-009	Smoke off
	010-255	Smoke output (full on)
CH2	000-255	Master dimmer (0-100%)
CH3	000-020	No function
	021-127	Static colour
	128-255	Auto (slow to fast)
CH4	000-009	Strobe off
	010-255	Strobe (slow to fast)
CH5	000-255	Red dimmer (0-100%)
CH6	000-255	Green dimmer (0-100%)
CH7	000-255	Blue dimmer (0-100%)

Troubleshooting:

When the display shows a flashing ⁻⁻ this means the machine has run out of fluid and has stopped working to protect the pump. When this happens please do the following:

Power off the unit and disconnect from mains power supply.

Refill the fluid tank.

Reconnect the mains power supply and power on the unit

The unit can now be operated again after it has finished heating up again, the screen should not show ⁻⁻ anymore.

If the ⁻⁻ continues to flash, please contact your dealer.

In order to keep the unit working efficiently make sure the fluid level is topped up and doesn't run out.

Cleaning and maintenance:

We recommend a frequent cleaning of the unit. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents! Clean the output nozzle frequently from smoke fluid residues. The fluids we recommend are non-hazardous to the environment and can be disposed of via the sewage system.

There are no serviceable parts inside this unit except for the fuse.

Maintenance and service operations are only to be carried out by authorised dealers.

Replacing the fuse:

Only replace the fuse with a fuse of same type and rating.

Before replacing the fuse, disconnect from the mains, see the following for procedure:

Step 1: Open the fuse holder on the rear panel with a suitable screwdriver.

Step 2: Remove the old fuse from the fuse holder.

Step 3: Install the new fuse in the fuse holder.

(Replacement fuses should be of the same value as originally supplied)

Step 4: Replace the fuse holder in the housing.

Should you need any spare parts, only use genuine parts.

If defective, please dispose of the unusable unit in accordance with the current legal regulations.

Should you have any further questions, please contact your dealer.

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.
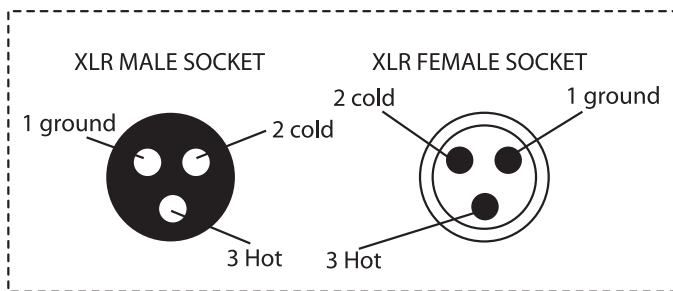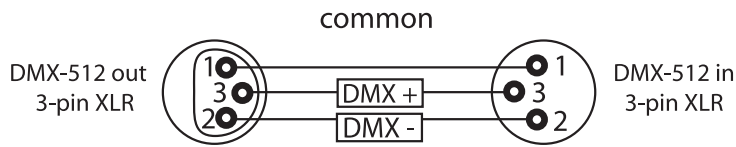Please quote:

    CABL10 – 2m
    CABL11 – 5m
    CABL12 – 10m

Note: DMX cable must be daisy chained and cannot be split.

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Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

common

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

XLR MALE SOCKET

1 ground
2 cold
3 Hot

XLR FEMALE SOCKET

2 cold
1 ground
3 Hot

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Special note:

Line termination:

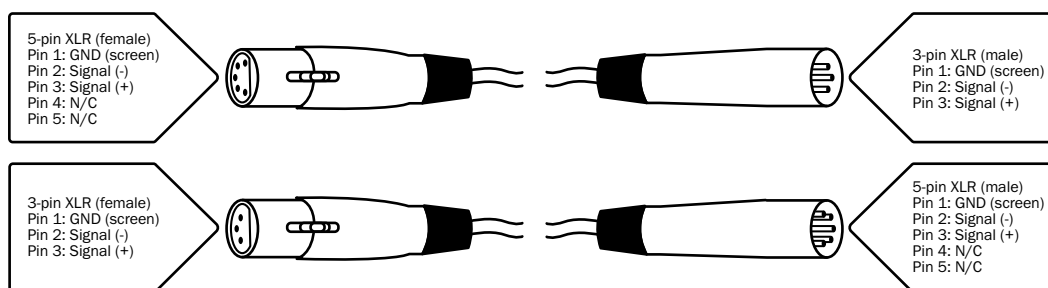When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

5-pin XLR DMX connectors:

Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.

5-pin XLR (female)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-pin XLR (male)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-pin XLR (female)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-pin XLR (male)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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