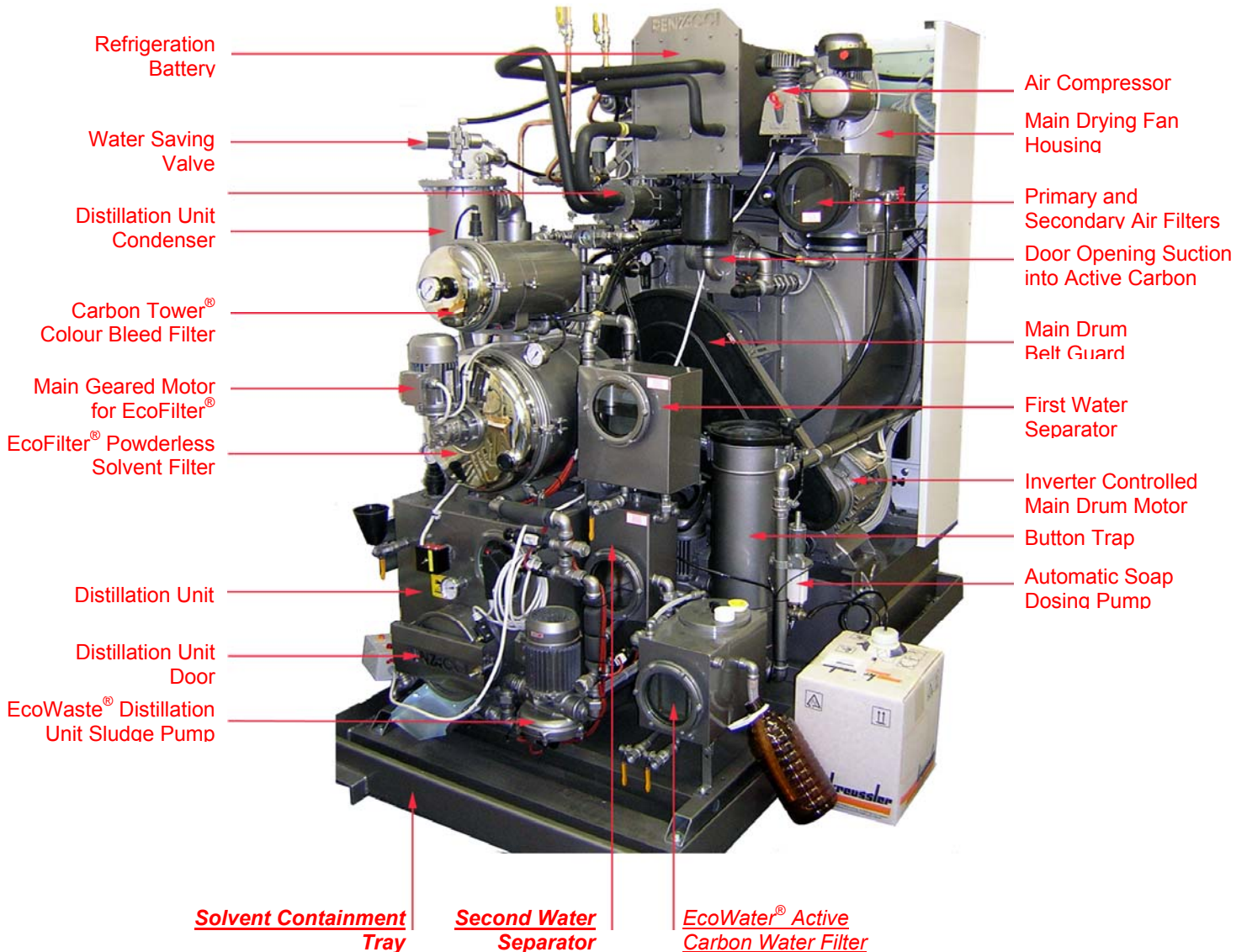




RENZACCI UK PLC

DRY CLEANING | LAUNDRY | PRESSING | FINISHING | PACKAGING | CONVEYING

## A Renzacci Solvent Emissions Directive Compliant Drycleaning Machine for a New Installation



New Installations of Drycleaning Machines must have (amongst others) the following items installed to comply with the Solvent Emissions Directive, Guidance Noted 6(46)/04. Where possible, these items have been underlined in the diagram above:

- A Second Water Separator must be fitted followed by (i.e. part of the drycleaning machine itself).....
- ...Active Carbon Water Filter.
- Solvent Containment Tray.

## **FEATURES AND BENEFITS EXPLAINED:**

### **Videotron® Microprocessor Control**

This system is the most advanced available, offering full real time display including graphical display of all processes being carried out in the drycleaning machine and also where a fault or anomaly might be located on a schematic drawing of your drycleaning machine as well as a full explanation of the problem in the LCD display.

The computer can be set to control programmes automatically, which will take care of all soap injections at the correct time of the cycle and the correct quantity, as well as controlling the temperature of the solvent cooling system (Icecare®), control of the drum inverter (explained later) and the drying process (Rotodrying®). There is also a facility to override times and temperatures whilst the computer programme is running should you require a standard programme but want to do something a bit different for that particular cycle.

In addition, the computer can automatically perform many maintenance tasks for you such as still drying, automatic sludge pumping from the still (Ecowaste®), Filter cleaning (Mini-Micron® Ecofilter), rear of the drum cleaning (Global Wash®), automatic air filter cleaning (Air Jet®) and even pipe washing.

The computer can also be set up to be able to remind you when important tasks need to be carried out – for example when to clean the main filters (Mini-Micron® Ecofilter).

In addition, all programmes are not only stored on the main computer but also on a MemoryKey® which allows a back up of programmes to be made as well as a useful tool for allowing Renzacci UK Plc to programmes onto your MemoryKey® and send them to you to simply upload onto your computer.

The computer can also be controlled manually, so instead of it taking care of running the programmes automatically, you can have complete control over the wash processes, and in addition, also manually control soap injections, the temperature of the solvent cooling system during the wash cycle (Icecare®), control of the drum inverter (explained later) and the drying process (Rotodrying®).

All in all, this computer is designed to make the operation of the drycleaning machine as simple as possible, and the commissioning engineer will download a standard programme set and then ask you or your operator whether you require any additional processes to be programmes into your computer for you. He will then make a backup of your programmes on the MemoryKey® which is personalised for your machine.

### **Computerised Inverter Driver**

This device controls your main motor for the drum with a precision not achieved by any other method, and we offer this option as standard.

The Inverter can control the drum rotation to offer you unparalleled control over the action of the drum, allowing both aggressive and gentle washing (and anything in between) to be carried out.

The speeds of the wash cycle and extraction can be programmed into an individual programme or controlled manually when using the machine in manual mode.

Delicate garments such as chiffons, wedding dresses, sequined garments and suchlike can be cleaned with far more certainty and control than ever before, leading to improved and consistent results.

The inverter, also controls the spin cycle, “ramping up” the speed of the drum to full speed in a controlled and progressive manner. By gradually increasing spin speed, your finishing department will notice far less creasing and damage to delicate clothes and the finishing process will be faster. In addition, as there is far less strain to the drycleaning machine drive components, belt and bearing wear and tear is drastically reduced when compared to conventional contactor operated wash and spin cycles. A spin cycle which is the result of the control by an inverter also means that your energy costs for running the machine are reduced, as the extraction phase prior to drying is far better and more efficient, leading to shorter drying times, and less crushing and balling of garments.

### **Rotodrying®**

This is the name given to the complete drying system. The Progress drycleaning machine range features a far greater air flow volume and less restriction of the air flow due to the CAD/CAM design. This results in a faster and more even drying process, and coupled to the drying sensor which is computer controlled, your garments should be dried in a highly efficient manner.

In addition, this system boasts not only one, but two air filters, drastically reducing the “linting” of the garments, which is a time consuming and wasteful labour resource as the finishing department has to de-lint the garments prior to packaging or pressing. The two air filters of which one is a fine gauge stainless steel mesh coupled to a foam filter and the other being a large foam filter, are also cleaned by simply pulling out the filters and brushing them – no hovering of bags or washing lint screens.

### **Mini-Micron® Ecofilter**

This filter system requires no filter powder and is a highly efficient series of 18 disks which have holes in to a diameter of 13 microns. These disks filter out all solid impurities in the solvent returning from the wash, and therefore leave the solvent clean. Maintenance free, these filters are automatically cleaned by simply selecting the Filter Cleaning programme from the computer. A reminder can also be configured into the computer to let you know when the filters should be cleaned. The surface area of the Mini-Micron® Ecofilter is a huge 6.2m<sup>2</sup> allowing you to benefit from increased filtration capacity and better quality of work.

### **Carbon Tower® colour bleed filter.**

Supplied as standard, the colour bleed filter contains an active carbon core which will help to reduce the effects of a colour run. It absorbs colour from the solvent, helping to leave the solvent pure and ready for another process. This filter can be selected on or off, depending upon whether the operator believes there is going to be a colour run risk load.

**Global Wash<sup>®</sup> back plate, spider and drum cleaning system.**

This system has been designed to alleviate the problem of the spider and drum being clogged up with lint which over time compresses to form a hard mass. This eventually results in odours being produced from the drum which are virtually impossible to remove. Using this system, the operator can select an automatic programme which will clean the back of the drum with a high pressure jet of solvent, removing any lint build up and depositing this in the button trap for easy removal.

**Air Jet<sup>®</sup> automatic air filter cleaning system.**

This system is supplied as standard, and can be configured to clean your primary air filter at the beginning of the wash cycle. Any lint build up on this filter is then deposited in the button trap for easy removal by the operator at the end of the cycle.

**Ice Care<sup>®</sup> refrigerated solvent cooling system.**

Supplied as standard and utilising the very powerful scroll type refrigeration compressor, the computer continually monitors the temperature of the solvent that is actually being used in the wash cycle. This system is preferential to cheaper methods such as cooling the tanks with water coils as no energy or water is wasted. It can be operated either in the automatic modes where the required temperature of the solvent is stored within the programme (but can be over-ridden if required) or manual modes to the temperature the operator selects. Particularly useful for delicate loads such as sequined garments or garments containing beading that often melts in higher temperatures of solvent your Progress drycleaning machine can now clean a much greater range of garments than ever before.

**EcoWaste<sup>®</sup> distillation waste pump out system.**

This system which is standard on both the 2 and 3 tank Progress drycleaning machines, allows the operator to minimise his or her contact with the waste that is produced by the drycleaning machine in the distillation system. The Renzacci EcoWaste<sup>®</sup> system utilised a pump to continually clean the inside of the distillation unit, and coupled to the clever design of the distillation unit, which funnels all waste to the front of the distillation unit, allows for a far more efficient distillation process, as well as reducing energy costs.

Renzacci UK Plc have designed a system where the EcoWaste<sup>®</sup> pump is hermetically connected to a sludge barrel. The system will alert the operator to when the barrel is nearly full and needs changing, and then when the barrel is full, without the operator opening the sludge container to visually inspect the level of the waste. Utilising the EcoWaste<sup>®</sup> system, the operator can reduce the amount of times the distillation unit has to be physically cleaned by 70%.

**EcoWater<sup>®</sup> Second Water Separator with Active Carbon**

This second water separator with active carbon filtration is recommended in order to comply with the Solvent Emissions Directive Guidance Notes 6/46(04) for new

drycleaning machine installations and is fitted after the primary water separator. The waste water flows over a bed of carbon ensuring that there is virtually no Perchloroethylene solvent left in the contact water.

Renzacci UK fits this option to all its drycleaning machines, irrespective of whether or not the machine is destined for a brand new installation or simply to replace an existing drycleaning machine.

**Quiet Scroll type high efficiency refrigeration compressor with heat pump.**

This new, and high grade refrigeration compressor is quite in operation and far superior to the cheaper and less efficient systems employed in other makes of machine. Renzacci purposely has used this form of compressor to allow the operation of the Ice Care<sup>®</sup> system, with no further requirement for an additional compressor. An added benefit of this unit is that it is far more reliable and quieter in operation.

**Double Water Saving Valves.**

Used in both the refrigeration and distillation system, these valves reduce the consumption of water by about 30%. They work by continually monitoring the water requirements of the refrigeration and the distillation units, and allow only the required water to flow through the machine, no more, no less.

**Automatic soap pumping system**

This system allows the computer to introduce the soap into the wash cycle at the precise time required at exactly the correct dose. This reduced wastage, and improves the quality of the wash. In addition, the operator has the option to also dose the wash if they are operating the machine manually. This system is supplied as standard.

**Door opening suction into active carbon.**

Any solvent vapour (which is minimal and below required levels anyhow) left in the drum at the end of the cycle are removed through the back of the drum through an active carbon hopper which strips the vapours from the air. This means that there should be a significant reduction in solvent ppm.

**Button trap drying system.**

This system dries the button trap at the end of the cycle allowing the safe removal of lint from the button trap cage.

**Safety interlocks on button trap, air filter and still doors.**

These switches prevent the operation of the drycleaning machine if any of the above access ports are left open and the machine is attempted to be started. They are required as part of the Solvent Emissions Directive, Guidance Notes 6(46)/04. A visual indication is displayed on the drycleaning machine schematic panel as well as text in the LCD display alerting the operator to which of the access doors has been left open. In addition the drycleaning machine is shut down in the event of any of the access doors being opened or attempted to be opened.

**Built in 0.35kW air compressor.**

At Renzacci UK Plc, we believe in specifying a drycleaning machine with every feature available on it. To this end, we supply as standard an air compressor which caters for the pneumatic requirements of the drycleaning machine. If you already have an air compressor, our installation team will link into the existing system, but also install a bypass valve so that if the existing compressor fails, the compressor supplied with the drycleaning machine can be activated, and no production time is lost.

**EcoVision® Air filter and button trap covers are transparent.**

A simple thought, but greatly appreciated and commented on by all our customers. Operators now do not have to physically open the doors to the button trap or air filter to see if they are blocked. All they have to do is to peer through the thick glass covers to see if the air filter or button trap needs cleaning. This reduces the exposure to solvent vapour and allows the filters to be cleaned at the right time, allowing you to have a more efficient machine.

**Quality of Construction**

Renzacci only uses the finest quality materials and the latest manufacturing techniques to produce a drycleaning machine that has a quality second-to-none. The machine has been designed by highly skilled engineers to allow easy access to all components and therefore to reduce servicing times. High grade stainless steel is generously used throughout the drycleaning machine and the machine is catered to cope with the most demanding of workloads. All components used are tried and tested, and of the very best manufacturers. You know then when you buy a drycleaning machine from Renzacci, you are investing in a machine that is designed to last, be reliable and produce superb quality work.