

KT 03
KM 03 international
series



Alternative
Solvent Machines



REALSTAR

Cleaning Solutions

Realstar KT and KM 03 Series:

REALSTAR Experience and Technology a legacy of excellence

Since the 1980's **REALSTAR** has been an innovative leader in the manufacturing of dry cleaning machines for the garment care industry.

Our commitment to research and development has resulted in machines recognized throughout the world for their highest standards of quality control, cutting edge technology, and compliance with rigid environmental regulations.

REALSTAR dry cleaning machines are manufactured in the world's most up to date and modern factories located in Bologna, Italy.

Our commitment to quality control is second to none.

Every step of the manufacturing process is closely monitored to assure that the highest tolerances are met and exceeded.

Only top quality materials and components are used.

The utilizations of laser for precision metal cutting and robots for welding ensure the machines you invest in today will provide years of trouble free service.

REALSTAR builds machines designed for use with all of the popular solvents used in the garment care industry.

These machines are available in a wide range of sizes and configurations; all designed to comply with governmental and environmental regulations.

We offer machines that will meet the needs of the largest production facilities as well as the smaller single plants.

Most importantly to you, we stand behind our products.

We know your success is our success.

This is the philosophy upon which we have built our business.



set a New standard in alternative solvent dry cleaning machines

REALSTAR QUALITY and DESIGN Alternative Solvents

Our R & D at work

Two challenges must be met when designing a machine for operation in a dry cleaning plant today:

- 1 It must be safe for the operator
- 2 It must meet or exceed all governmental rules and regulations, domestic US, European and International

REALSTAR engineers have designed alternative solvent machines that meet the above requirements for use with any Class III A solvents such as Hydrocarbon (flashpoint 56 degree C. 132.8 F), Silicone (Green Earth), and Rynex.

Please note there is a separate **REALSTAR** brochure for our machines designed for use with Solvon K4 solvent from the Kreussler Company.

REALSTAR alternative solvent machines are available in both two tank and three tank design.

Our **KT** Series are two tank versions configured in a slim design. Our **KM** Series offer three tank versions in a traditional wide design.

Experienced dry cleaners have learned they can count on the design and technology inherent in all **REALSTAR** Alternative Solvent Machines to deliver the best results possible when using Class III A solvents.



KT 03



KM 03

KT 03 Series

Realstar KT 03 Series Machines are offered in three models:

KT 343 – 18 Kg. Capacity

KT 403 – 20 Kg. Capacity

KT 503 – 25 Kg. Capacity

These compact machines are designed for use in those plants where space does not allow the installation of our wider **KM Series** machines, such as the narrow but deep plants often found in larger cities.

These units feature two solvent tanks with easily visible sight glasses which allow the operator to view with ease the solvent clarity and level.



All **KT Series** machines include an integral filtration and distillation system to provide maximum solvent condition.

An amply sized loading door makes it easy for the operator to load and unload the machine

Realstar KT 03 Series is the ideal solution!

		KT 343	KT 403	KT 503	
LOAD CAPACITY (Ratio 1:20)		Kg	18	20	25
BASKET					
Volume	lt	340	400	500	
Diameter	mm	900	1000	1000	
Depth	mm	535	510	640	
Wash speed	rpm	12 ÷ 50	12 ÷ 50	12 ÷ 50	
Extract speed	rpm	300 ÷ 540	300 ÷ 540	300 ÷ 540	
Door opening	mm	500	500	500	
TANKS					
Useful volume tank 1	lt	95	120	120	
Useful volume tank 2	lt	150	180	180	
Useful volume tank 3	lt	-----	-----	-----	
STILL					
Useful still volume at half inspection	lt	190	190	190	
Total still volume	lt	225	225	225	
NYLON FILTER					
Volume nylon filter housing	lt	55	55	55	
Nylon filter area	mt ²	3,9	3,9	3,9	
Filter disks	nr	26	26	26	
PURITAN FILTER					
Volume puritan filter housing	lt	13	13	13	
Tubes numbers	nr	1	1	1	
Cartridges quantity	nr	1	1	1	
DUAL CARTRIDGE FILTER					
Volume dual cartridge filter housing	lt	55	55	55	
Tubes numbers	nr	1	1	1	
Cartridge quantity	nr	2	2	2	
ELECTRIC POWER		400V 3ph 50Hz			
Working power (ELECTRIC machine)	Kw	29,5	35,5	35,5	
Maximum amperage (ELECTRIC version)	Amps	54	64	64	
Working power (STEAM machine)	Kw	8,5	10,5	10,5	
Maximum amperage (STEAM version)	Amps	16	19	19	
* Wash/Extract motor (with Inverter)	Kw	1,3 ÷ 3,5	2 ÷ 5,5	2 ÷ 5,5	
Solvent pump motor	Kw	0,75	0,75	0,75	
Fan motor (with Inverter)	Kw	2,25	2,25	2,25	
Refrigerator compressor	Kw	3,75	4,85	4,85	
Nylon filter motor	Kw	0,55	0,55	0,55	
Vacuum pump motor	Kw	0,38	0,38	0,38	
Drying heating elements	Kw				
Still electric elements	Kw	21	25,5	25,5	
Steam boiler working	BHP	2,5	3	3	
CONNECTION SUPPLY					
Compressed air inlet	Ø	1/4"	1/4"	1/4"	
Water inlet	Ø	1"	1"	1"	
Water outlet	Ø	1"	1"	1"	
Steam still and heater inlet	Ø	1/2"	1/2"	1/2"	
Condensat still and heater outlet	Ø	1/2"	1/2"	1/2"	
MACHINES DIMENSIONS					
Width front machine	mm	1250	1300	1300	
Depth	mm	2160	2300	2300	
Height without fan	mm	2040	2090	2090	
Height with fan	mm	2210	2340	2340	
MACHINES WEIGHTS					
Empty machine weight	Kg	1691	1820	1900	
Machine weight with solvent	Kg	1934	2090	2195	
Static charge on the floor with solvent	Kg/mt ²	716	741	754	
Dynamic charge on the floor (+10%)	Kg/mt ²	1118	1205	1300	
Packaged machine weight	Kg	1870	1930	2010	
NOISE LEVEL		dB (A)	70	70	70

KM 343**18****KM 403****20****KM 503****25****KM 703****32****KM 803****40**

340	400	500	645	800
900	1000	1000	1200	1200
535	510	640	570	710
12 ÷ 50	12 ÷ 50	12 ÷ 50	12 ÷ 50	12 ÷ 50
300 ÷ 540	300 ÷ 540	300 ÷ 540	300 ÷ 450	300 ÷ 450
500	500	500	500	600

110	160	160	240	240
110	160	160	240	240
200	200	200	330	330

190	260	260	360	360
230	325	325	455	455

55	75	75	75	100
3,9	5,5	5,5	5,5	7,8
26	39	39	39	52

25	25	25	25	25
1	1	1	1	1
2	2	2	2	2

55	85	85	85	105
1	1	1	1	1
2	3	3	3	4

400V 3ph 50Hz

29,5	35,5	35,5	-	-
54	64	64	-	-
8,5	10,5	10,5	13,5	13,5
16	19	19	28	28
1,3 ÷ 3,5	2 ÷ 5,5	2 ÷ 5,5	3 ÷ 6,1	3 ÷ 6,1
0,75	0,75	0,75	1,1	1,1
2,25	2,25	2,25	3	3
3,75	4,85	4,85	4,85	4,85
0,55	0,55	0,55	0,55	0,55
0,38	0,38	0,38	0,38 x 2	0,38 x 2
21	25,5	25,5	-	-
2,5	3	3	3,5	3,75

1/4"	1/4"	1/4"	1/4"	1/4"
1"	1"	1"	1"	1"
1"	1"	1"	1"	1"
1/2"	1/2"	1/2"	1/2"	1/2"
1/2"	1/2"	1/2"	1/2"	1/2"

2000	2140	2140	2360	2360
1550	1740	1740	2025	2025
2025	2095	2095	2395	2395
2195	2285	2285	2580	2580

1830	2100	2180	2840	2950
2390	2660	2740	3620	3730
771	714	736	757	780
1120	1081	1178	1140	1242
2110	2250	2520	3220	3330
70	70	70	70	70

2000	2140	2140	2360	2360
1550	1740	1740	2025	2025
2025	2095	2095	2395	2395
2195	2285	2285	2580	2580

1830	2100	2180	2840	2950
2390	2660	2740	3620	3730
771	714	736	757	780
1120	1081	1178	1140	1242
2110	2250	2520	3220	3330
70	70	70	70	70

KM 03 Series

Realstar KM 03 Series Machines are offered in five models:

KM 343 – 18 Kg. Capacity

KM 403 – 20 Kg. Capacity

KM 503 – 25 Kg. Capacity

KM 703 – 32 Kg. Capacity

KM 803 – 40 Kg. Capacity

Realstar KM 03 Series, Alternative Solvent Machines are designed with three solvent tanks, large sized distillation system, and offer a variety of choices in filtration system.

Realstar KM 03 Series, machines are built to meet the needs of the most discriminating dry cleaning professional.



These machines are engineered to permit ease of installation, all controls are located for the maximum operator utilization, and required maintenance is facilitated by open access to the rear of the machine.

Realstar KT 03 Series is the choice of the Professional!

Technologies of tomorrow

KT 03 KM 03 series

PULSAR D601 with COMBI System

This is the most advanced control system found on any dry cleaning machine today. The **Realstar Pulsar D601 with Combi System** makes available 20 different programs for both operation as well as maintenance of the machine. It is easily self programmable by the operator and allows any portion of any program to be modified at any time. A memory card feature makes it very easy to transfer identical programs to other machines. Manual machine operations are permitted as well.

Fractional Distillation

One of the most important phases in the proper operation of an alternative solvent machine is that of distillation. An improperly designed distillation system will lead to odor causing bacteria in the solvent tanks which will transfer onto the customer's clothes. To prevent this from occurring, **Realstar** engineers have de-signed a system referred to as **fractional distillation** which is found in

Realstar Pulsar D601 with Combi System, allows the operator to preset drying temperatures, both inlet and outlet, solvent temperatures, machine motor speeds, and dosing pump operations, "set it and forget it"! Its diagnostics capability makes it easy to solve any problems and keep machine down time to a minimum. With the **Pulsar D601 with Combi System by Realstar**, the future is here today. It is simply the best control system to be found in our industry.

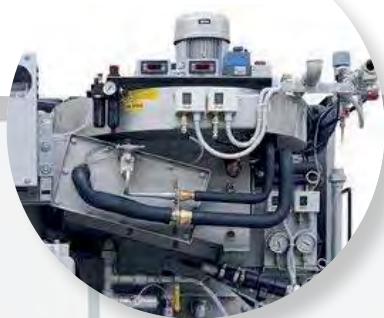
all of our **KT** and **KM Series** machines. Unlike the atmospheric stills used in perc machines, alternative solvent machines distill under vacuum to achieve the higher boiling points of these solvents. Our **fractional distillation** system regulates the proper amounts of solvent to the still and tanks to prevent harmful bacteria causing foam and resulting odors.



STANDARD FEATURES ON

- Floor guard, Solvent safety tray
- Air-operated interlocks and micro-switches on all doors
- Water safety valves by DANFOSS
- INVERTER on the washing motor
- Electronic and self-cleaning Dry Control
- Supplementary water separator
- Automatic Soap Pump
- Fractional distillation processing with Vacuum Technology
- Machine prepared to be connected to a Nitrogen bottle (not supplied)
- Continuous or temporary distillation
- Self-cleaning water separator
- Sound-proofing cover for Refrigeration compressor
- Microprocessor Computer

in operation today!



Faster drying for Shorter cycle times

It's quite simple: shorten the drying time, shorten the cycle time, increase production and increase profits. **Realstar** engineers have developed a new drying system that will shorten drying times without a loss of efficiency through:

- 1 Doubling the air flow through cylinder.
- 2 Relocating the fan midway in the coils and coordinating the refrigeration and heating coils during the drying phase to circulate larger air volume into the cylinder.
- 3 A new Automatic Electronic Dry Control system for maximum efficiency.

Innovative pre-wash system

An optional feature humidifies the solvent during the pre-wash phase. This significantly reduces the amount of soap additives needed to remove water-soluble stains which helps to lower your cost. Solvent from the start phase of distillation is mixed with recovered solvent from the

drying phase and moderately humidified. Using this solvent mixture for the pre-wash phase and during the first phase of the next cleaning cycle means more efficient and effective solvent use with further cost-savings.

For ease of maintenance, our new refrigeration system is now divided into three segments: The compressor, the refrigeration coil, and the heat exchange coil. All three of these components can be individually and simply serviced, without removal of the entire system due to AE-ROQUIP unions. **Simplified maintenance and less downtime!**



ALL REALSTAR KT 03 AND KM 03 SERIES

- Allowing the operator to install up to 20 programs
- Control in 14 different languages
- Electronic temperature control
- Large choice of solvent filtration system
- Aluminium solvent valve
- Back plate washing systems
- Oversized loading door
- Automatic still wall washing
- Large double air lint filter
- Electro-Steam still system
- Electric still version with pressurized water system
- Still sight glass with lamp
- Very large impeller fan for optimal drying
- Fridge Group in three separate sections, for easy and quick maintenance



Available Options on demand:

- Automatic still clean out system
- Still Scraper
- External storage tank for still residue with connections kit
- Built in air compressor
- POLAR SYSTEM – Refrigerated solvent cooling system
- WATER SOLVENT COOLER – Refrigerated solvent cooler with water
- Steam Traps (Steam Version)
- Automatic Start/Stop steam supply to the still
- JET SOLVENT – High pressure washing system with solvent injection
- DOOR LIGHT - Loading door lighting system with LED
- Nebulizer for additives
- Built in Water Proofing System
- 2nd Automatic soap pump
- Self cleaning lint filter
- Stainless steel solvent tanks

Standard Stainless Steel components:

- Still
- Still Condenser
- Button Trap
- Water Separator
- Supplementary Water Separator
- Solvent filter housing
- Basket Cylinder
- Drying Chamber



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