KT 03
KM 03
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 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 – 40 LB. Capacity

KT 403 – 50 LB. Capacity

KT 503 – 60 LB. 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)	**Lbs**	**40**	**45 ÷ 60**	**55 ÷ 60**
BASKET				
Volume	cu.ft.	12	14.1	17.7
Diameter	inches	34.5	39.4	39.4
Depth	inches	21	20	25.2
Wash speed	rpm	12 - 50	12 - 50	12 - 50
Extract speed	rpm	300 - 540	300 - 540	300 - 540
Door opening	inches	20	20	20
TANKS				
Useful volume tank 1	gal	25	31	31
Useful volume tank 2	gal	40	47	47
Useful volume tank 3	gal	-------	-------	-------
STILL				
Useful still volume at half inspection	gal	50	50	50
Total still volume	gal	60	60	60
NYLON FILTER				
Volume nylon filter housing	gal	14.5	20	20
Nylon filter area	ft^2	42	59	59
Filter disks	nr	26	39	39
PURITAN FILTER				
Volume puritan filter housing	gal	6.6	6.6	6.6
Tubes numbers	nr	1	1	1
Cartridges quantity	nr	2	2	2
DUAL CARTRIDGE FILTER				
Volume dual cartridge filter housing	gal	14.5	22.5	22.5
Tubes numbers	nr	1	1	1
Cartridge quantity	nr	2	3	3
ELECTRIC POWER			**220V 3ph 60Hz**	
Working power (ELECTRIC machine)	Kw	30	35.5	35.5
Maximum amperage (ELECTRIC version)	Amps	105	130	130
Working power (STEAM machine)	Kw	9	10.5	10.5
Maximum amperage (STEAM version)	Amps	45	55	55
* 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	2.63	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
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	inches	49.2	51.2	51.2
Depth	inches	85	90.5	90.5
Height without fan	inches	80	82.5	82.5
Height with fan	inches	87	92.1	92.1
MACHINES WEIGHTS				
Empty machine weight	lbs	3728	4012	4188
Machine weight with solvent	lbs	4263	4607	4840
Static charge on the floor with solvent	lbs/ft^2	147	172	185
Dynamic charge on the floor (+10%)	lbs/ft^2	229	269	281
Packaged machine weight	lbs	4123	4255	4431
NOISE LEVEL	dB (A)	70	70	70

KM 343	KM 403	KM 503	KM 703	KM 803
40	45 ÷ 50	55 ÷ 60	75 ÷ 80	90 ÷ 95
340	400	500	645	800
35.4	39.4	39.4	47.3	47.3
21	20	25.2	22.5	28
12 - 50	12 - 50	12 - 50	12 - 50	12 - 50
300 - 540	300 - 540	300 - 540	300 - 540	300 - 540
20	20	20	20	23.6
29	42	42	63	63
29	42	42	63	63
53	53	53	87	87
50	68	68	95	95
60	86	86	120	120
14.5	20	20	20	26.5
42	59	59	59	84
26	39	39	39	52
6.6	6.6	6.6	6.6	6.6
1	1	1	1	1
2	2	2	2	2
14.5	22.5	22.5	22.5	27.8
1	1	1	1	1
2	3	3	3	4
220V 3ph 60Hz				
30	35.5	35.5	-------	-------
105	64	64	-------	-------
9	10.5	10.5	13.5	13.5
45	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
2.63	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"
78.7	84.3	84.3	93	93
61	68.5	68.5	79.8	79.8
79.7	82.5	82.5	94.4	94.4
86.4	90	90	101.6	101.6
4035	4630	4805	6260	6503
5269	5865	6050	7980	8223
158	146	150	155	160
229	221	242	234	255
4652	4960	5555	7098	7431
70	70	70	70	70

KM 03 Series

Realstar KM 03 Series Machines are offered in five models:

KM 343 – 40 LB. Capacity

KM 403 – 50 LB. Capacity

KM 503 – 60 LB. Capacity

KM 703 – 80 LB. Capacity

KM 843 – 90 LB. 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.

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.

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 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 with Vacuum Technology
- Supplementary water separator
- Automatic Soap Pump
- Fractional distillation processing
- Machine prepared to be connected to a Nitrogen bottle (not supplied)
- Continuous or temporary distillation
- Self-cleaning water separator
- WATER SOLVENT COOLER – Refrigerated solvent cooler with water
- Steam Traps
- Automatic Start/Stop steam supply to the still

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:

- Doubling the air flow through cylinder.
- 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.
- A new Automatic Electronic Dry Control system for maximum efficiency.

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 AEROQUIP unions. **Simplified maintenance and less downtime!**

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.

N ALL REALSTAR KT 03 AND KM 03 SERIES

- JET SOLVENT – high pressure washing system with solvent injection
- Sound-proofing cover for Refrigeration compressor
- Microprocessor Computer
- 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
- 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

REALSTAR

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