

**KT-R**  
**KM-R**  
Series



Alternative  
Solvent Machines



# Realstar KT-R and KM-R 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 through out the world for their highest standards of quality control, cutting edge technology, and compliance with rigid environmental regulation.

**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 materials and components of top quality 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 size 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-R Series** are two tank versions configured in a slim design.

Our **KM-R Series** offer in two or 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-R**



**KM-R**

# KT-R Series

**REALSTAR KT-R Series** machines are offered in three models:

**KT-R 210** – 10 Kg. Capacity

**KT-R 212** – 12 Kg. Capacity

**KT-R 215** – 15 Kg. Capacity

These compact machines are designed for use in those plants where space does not allow the installation of our wider **KM-R 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 that allow the operator to view with ease the solvent clarity and level.



All **KT-R 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-R Series is the ideal solution!**

		KT 210	KT 212	KT 215	
<b>LOAD CAPACITY (Ratio 1:20)</b>		<b>Kg</b>	<b>10</b>	<b>12</b>	<b>15</b>
<b>BASKET</b>					
Volume	Lt	200	220	285	
Diameter	mm	700	800	800	
Depth	mm	500	440	560	
Wash speed	rpm	20 + 55	20 + 55	20 + 55	
Extract speed	rpm	300 + 500	300 + 500	300 + 500	
Door opening	mm	350	500	500	
<b>TANKS</b>					
Useful volume tank 1	Lt	75	85	105	
Useful volume tank 2	Lt	75	85	105	
Useful volume tank 3	Lt	-----	-----	-----	
<b>STILL</b>					
Useful Still Volume at half inspection	Lt	84	145	145	
Total Still Volume	Lt	100	180	180	
<b>NYLON FILTER</b>					
Volume nylon filter housing	Lt	35	35	35	
Nylon filter area	mt <sup>2</sup>	2,1	2,1	2,1	
Filter disks	nr	14	14	14	
<b>PURITAN FILTER</b>					
Volume Puritan filter housing	Lt	13	13	13	
Tubes numbers	nr	1	1	1	
Cartridges quantity	nr	1	1	1	
<b>DUAL CARTRIDGE FILTER</b>					
Volume Dual cartridge filter housing	Lt	35	35	35	
Tubes numbers	nr	1	1	1	
Cartridges quantity	nr	1	1	1	
<b>ELECTRIC POWER</b>		<b>400V 3ph 50Hz</b>			
Working power (ELECTRIC Machine)	Kw	15	17	17	
Maximum Amperage in ELECTRIC Version	Amps	29	32	32	
Working power (STEAM Machine)	Kw	4,5	6	6	
Maximum Amperage in STEAM Version	Amps	16	18	18	
* Wash/Extract motor (with Inverter)	Kw	0,5 + 2,2	0,6 + 3	0,6 + 3	
Solvent pump motor	Kw	0,55	0,55	0,55	
Fan motor (with Inverter)	Kw	0,75	1,5	1,5	
Refrigerator compressor	Kw	2,5	2,5	2,5	
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	10,5	10,5	10,5	
<b>CONNECTIONS SUPPLY</b>					
Compressed air inlet	Ø	1/4"	1/4"	1/4"	
Water inlet	Ø	3/4"	3/4"	3/4"	
Water outlet	Ø	3/4"	3/4"	3/4"	
Steam Still and heater inlet	Ø	1/2"	1/2"	1/2"	
Condensat Still and heater outlet	Ø	1/2"	1/2"	1/2"	
<b>MACHINES DIMENSIONS</b>					
Width front Machine	mm	860	970	970	
Depth	mm	1950	2195	2195	
Height Without Fan	mm	1955	2065	2065	
Height With Fan	mm	2045	2170	2170	
<b>MACHINES WEIGHTS</b>					
Empty machine weight	Kg	1025	1170	1220	
Machine weight with solvent	Kg	1195	1385	1435	
Static charge on the floor with solvent	Kg/mt <sup>2</sup>	755	660	684	
Dynamic charge on the floor (+10%)	Kg/mt <sup>2</sup>	1038	1005	1021	
Packaged machine weight	Kg	1105	1260	1310	
<b>NOISE LEVEL</b>		<b>dB (A)</b>	<b>70</b>	<b>70</b>	<b>70</b>

KM 210			KM 212			KM 215			KM 310			KM 312			KM 315		
10			12			15			10			12			15		
200	220	285	200	220	285	200	220	285	200	220	285	200	220	285	200	220	285
700	800	800	700	800	800	700	800	800	700	800	800	700	800	800	700	800	800
500	440	560	500	440	560	500	440	560	500	440	560	500	440	560	500	440	560
20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55	20 + 55
300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500	300 + 500
350	500	500	350	500	500	350	500	500	350	500	500	350	500	500	350	500	500
75	85	105	75	85	105	75	85	105	75	85	105	75	85	105	75	85	105
75	85	105	75	85	105	75	85	105	75	85	105	75	85	105	75	85	105
-----	-----	-----	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
84	145	145	84	145	145	84	145	145	84	145	145	84	145	145	84	145	145
100	180	180	100	180	180	100	180	180	100	180	180	100	180	180	100	180	180
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
400V 3ph 50Hz						400V 3ph 50Hz						400V 3ph 50Hz					
15	17	17	15	17	17	15	17	17	15	17	17	15	17	17	15	17	17
29	32	32	29	32	32	29	32	32	29	32	32	29	32	32	29	32	32
4,5	6	6	4,5	6	6	4,5	6	6	4,5	6	6	4,5	6	6	4,5	6	6
16	18	18	16	18	18	16	18	18	16	18	18	16	18	18	16	18	18
0,5 + 2,2	0,6 + 3	0,6 + 3	0,5 + 2,2	0,6 + 3	0,6 + 3	0,5 + 2,2	0,6 + 3	0,6 + 3	0,5 + 2,2	0,6 + 3	0,6 + 3	0,5 + 2,2	0,6 + 3	0,6 + 3	0,5 + 2,2	0,6 + 3	0,6 + 3
0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
0,75	1,5	1,5	0,75	1,5	1,5	0,75	1,5	1,5	0,75	1,5	1,5	0,75	1,5	1,5	0,75	1,5	1,5
2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,55
0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38
10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5
1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1450	1560	1560	1450	1560	1560	1450	1560	1560	1450	1560	1560	1450	1560	1560	1450	1560	1560
1440	1510	1510	1440	1510	1510	1440	1510	1510	1440	1510	1510	1440	1510	1510	1440	1510	1510
1955	2065	2065	1955	2065	2065	1955	2065	2065	1955	2065	2065	1955	2065	2065	1955	2065	2065
2045	2170	2170	2045	2170	2170	2045	2170	2170	2045	2170	2170	2045	2170	2170	2045	2170	2170
1105	1270	1320	1155	1290	1340	1155	1290	1340	1155	1290	1340	1155	1290	1340	1155	1290	1340
1234	1486	1536	1417	1570	1650	1417	1570	1650	1417	1570	1650	1417	1570	1650	1417	1570	1650
755	704	729	763	745	783	763	745	783	763	745	783	763	745	783	763	745	783
995	1040	1070	1018	1035	1130	1018	1035	1130	1018	1035	1130	1018	1035	1130	1018	1035	1130
1185	1360	1410	1235	1380	1430	1235	1380	1430	1235	1380	1430	1235	1380	1430	1235	1380	1430
70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70

## KM-R Series

**REALSTAR KM-R Series** Machines are offered in six models:

**KM-R 210** – 10 Kg. Capacity, 2 Tanks

**KM-R 212** – 12 Kg. Capacity, 2 Tanks

**KM-R 215** – 15 Kg. Capacity, 2 Tanks

**KM-R 310** – 10 Kg. Capacity, 3 Tanks

**KM-R 312** – 12 Kg. Capacity, 3 Tanks

**KM-R 315** – 15 Kg. Capacity, 3 Tanks

**REALSTAR KM-R Series**, Alternative Solvent Machines are designed with two or three solvent tanks, large sized distillation system, and offer a variety of choices in filtration system.

**REALSTAR KM-R 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 KM-R Series is the choice of the Professional!**

# Technologies of tomorrow

## KT-R KM-R Series

### 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

### 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

larger air volume into the cylinder.

3) A new Automatic Electronic Dry Control system for maximum efficiency.

For ease of maintenance, we have studied a new refrigeration system. The compressor, the refrigeration coil, and the heat exchange coil are today very easy to remove and clean.

### Simplified maintenance and less downtime!

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.



### STANDARD FEATURES ON ALL

- 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

in operation today!

### PULSAR D601 with COMBI System

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 designed a system referred to as **FRACTIONAL DISTILLATION** which

is found in all of our **KT-R** and **KM-R 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.

## REALSTAR KT-R AND KM-R SERIES

- 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
- 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



### 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
- 2<sup>nd</sup> 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



**Cleaning Solutions**

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