

CYCLOMIX™

MICRO



MIXING MACHINE FOR 2 COMPONENT PAINTS

AVAILABLE KITS

- Solvent Air Chop Kit
- Fluid Management Kits
- Ratio Test Kit
- 2 Color Expansion Kit
- Flush Box Controller Kit
- E-Stat Safety Kits
- 2nd Catalyst Kits
- Data Link - Network Systems

Bond | Protect | Beautify

SAMES  **KREMLIN**

www.sames-kremlin.com

AVAILABLE CONFIGURATIONS

CYCLOMIX™ MICRO



TECHNICAL DATA

Power supply	230V / 115V - 10W
Air supply pressure (minimum)	58 psi / (4 bar)
Fluid pressure	29 - 2537 psi / (2 - 175 bar)
Weight	55 lbs. / (25 kg)
Fluid passages	Stainless steel and HDPE
Mixing ratio	Single component and 0.6:1 to 20:1
Mixing accuracy depending on the material	± 1%
Mixed fluid output	3.4 - 67.6 oz/mn / (100 - 2,000 cc/mn)
Fluid viscosity (cps)	30 - 5,000 cps
Height	6.8" (17.3 cm) - Control cabinet - 15.7" (40 cm) - Mixing plate
Width	14.4" (36.6 cm) - Control cabinet - 16" (40.7 cm) - Mixing plate
Depth	4.3" (11.1 cm) - Control cabinet - 11.8" (30 cm) - Mixing plate

CYCLOMIX™ TECHNOLOGY

The CYCLOMIX™ MICRO allows the user to dose, mix and continuously deliver two-component paints or adhesives.

The mixing process works by catalyst injection into a constant flow of base material. The catalyst is injected in the center of the stream at a very high frequency. The CYCLOMIX™ MICRO does not require an additional pre-mix chamber. The static mixer insures perfect mixing, even if both components have significantly different viscosities.

The CYCLOMIX™ MICRO dosing system technology is automatically controlled by 2 precision flow-meters. The CYCLOMIX™ MICRO allows you to work without supervision, providing the operator total working security, especially with short pot-life materials (≥ 15 mn).

DESCRIPTION	USA PN:	Canadian PN (CSA Approved)
CYCLOMIX™ MICRO PH, 1+1 Catalyst Flush	997-108-000	668-661-951
CYCLOMIX™ MICRO PH, 3+1 Catalyst Flush	997-108-100	668-661-953
CYCLOMIX™ MICRO, 1+1	155-660-900	668-661-900
CYCLOMIX™ MICRO, 1+1, Catalyst Flush	155-660-911	668-661-911
CYCLOMIX™ MICRO, 3+1	155-660-930	668-661-930
CYCLOMIX™ MICRO, 3+1, Catalyst Flush	155-660-933	668-661-933
REMOTE MOUNTING ACCESSORY		
Remote Booth Mounting Kit	155-660-340	



Remote Booth
Mounting Kit

SOLVENT AIR CHOP KIT

The Solvent Air Chop kit allows for:

- Faster color changes
- Reduced solvent usage - up to 50%
- Reduced VOC's
- Better flushing reduces chance of color contamination between color changes

Each time the flush is enabled the solvent air chop cycle starts.



SOLVENT AIR CHOP CYCLE:

- Solvent push (2-30 sec) Air (0-5 sec) Solvent (0-5 sec)
- Air & Solvent is repeated until CYCLOMIX™ MICRO's flush volume is reached

PN: 668-660-510 Consists of:

DESCRIPTION	Qty
Solvent Air Chop control box	1
RS5 valve (PH)	1
Check valve 1/4" NPT	1
Tee 1/4" NPT fitting (SS)	1
10' 5/32" tubing	1
Misc. fittings	1
Supply air line safety valve - (prevents material from backing up into air line)	1

RATIO TEST KIT

The Ratio Test kit with flow control allows the operator to do quick ratio tests without adjusting pressures or disassembling static mixers.

3-way valve assembly permanently mounts to the mixing block outlet.

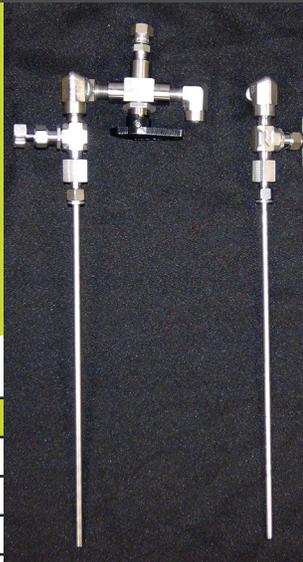
The base flow valve assembly replaces the tubing fitting and plastic tubing on the existing 3-way valve of the manifold.

PN: 668-660-900 Consists of:

DESCRIPTION	QTY
Tube, 1/4" OD SS 304	2
Fitting, 1/4 NPT(F) X 1/4 tube comp	2
Valve, needle, SS 316 1/4 NPT (M)	2
Elbow, M/F street, SS 316, 1/4 NPT	4
Valve, SS 316, 3-WAY, 1/4 NPT (F) 2500 PSI	1
Fitting, SS 316, swivel 1/4" NPT (M) X #5JIC (F)	1
Fitting, 1/4" NPT (M) X #5JIC (M) HEX, SS 316	1

OPTIONAL EQUIPMENT

Graduated cylinder 250 cc - P/N #82-2788-01	1
Graduated cylinder 500 cc - P/N #055-729-532	1



FLUID MANAGEMENT KITS

The Fluid Management kits control inbound fluid pressure for both catalyst and base materials. Fluid regulators make it easy to adjust pressure for precise ratio control.

Airmix® or Low Pressure (LP) regulator kits are available with or without filters.

NOTE: PH kits available in Airmix® only.



Airmix® Regulator with Filter

Airmix® Regulator

Airmix® - Fluid Management Kits	With Filter		Without Filter		PH Unit with filter		PH Unit without filter	
	PN: 668-660-950	Qty	PN: 668-660-951	Qty	PN: 668-660-954	Qty	PN: 668-660-955	Qty
DESCRIPTION								
Airmix® Gold Top Regulator 150-1740 psi (10-120 bar)	X	2	X	2	X	1	X	1
Airmix® Gold Top PH Regulator 150-1740 psi (10-120 bar)					X	1	X	1
Gauge 0-2000 psi (0-138 bar)	X	2	X	2	X	2	X	2
Flow through filter c/w #6 filter screen	X	2			X	2		
Inbound & Outbound #5 JIC (M) fittings	X	4	X	4	X	4	X	4
Mounting bracket	X	2	X	2	X	2	X	2
3' hose w/#5 JIC (F) fittings	X	2	X	2	X	2	X	2

Low Pressure - Fluid Management Kits	With Filter		Without Filter	
	PN: 668-660-952	Qty	PN: 668-660-953	Qty
DESCRIPTION				
Low Pressure Fluid Regulator 30-200 psi	x	2	x	2
Gauge 0-300 psi (20 bar)	x	2	x	2
Flow through filter c/w #6 filter screen	x	2		
Inbound & Outbound #5 JIC (M) fittings	x	4	x	4
Mounting bracket	x	2	x	2
3' hose w/#5 JIC (F) fittings	x	2	x	2

2 COLOR EXPANSION KIT

The 2 Color Expansion kit allows for the addition of 2 colors to the CYCLOMIX™ MICRO 3 color machine.

The addition of the 2 colors is based on the CYCLOMIX™ MICRO's 3rd color being selected and the small pneumatic panel directs the 3rd color valve pilot signal to standard 3rd valve or the 4th and 5th valves dependent upon the selection.



PN: 668-660-960 Consists of:

DESCRIPTION	Qty
Rotary switch control box for 3, 4 or 5 color selection	1
CTM intermediate valve	1
Set of two tie-rods, 3 module	1
1/4" NPT x #5 JIC elbow fitting	2
1/4" NPT plugs	2
10' 5/32" tubing	1

NOTE 1: The recipe including the ratio must be the same for color 3, 4 & 5

NOTE 2: Colors 3, 4 & 5 will report under the same A3 consumption file

2ND CATALYST KITS

The 2nd Catalyst kit allows the end user to configure the CYCLOMIX™ MICRO for a second catalyst based on the color selected. Any 1 or 2 colors can be configured to select the 2nd catalyst valve.

With the kit properly installed there is no additional involvement from the operator to select the correct catalyst. Operate the CYCLOMIX™ MICRO as normal.



DESCRIPTION	Standard Unit		Qty
	PN: 668-660-002	PH Unit PN: 668-660-003	
Air logic module	X	X	1
CTM intermediate valve	X		1
CTM intermediate valve PH		X	1
Set of two tie-rods, 2 modules	X	X	1
1/4" NPT x #5 JIC fitting	X	X	2
1/4" NPT plugs	X	X	2
5' 5/32" tubing	X	X	1
Misc. tubing fittings	X	X	1

NOTE 1: Kit must be used with the 3 color and catalyst flush option

NOTE 2: Catalyst 1 & 2 will report under the same B consumption file

WARNING: Both catalysts must be compatible - check with material suppliers

E-STAT SAFETY KITS

The E-Stat Safety kits allow the use of a electrostatic hand gun to be used with the CYCLOMIX™ MICRO. This kit safely disables the high-voltage during the flush and prime cycle.

The controller is a simple pneumatic circuit that disables the atomization air flow/pressure or the “High Voltage” enable contact electrical circuit to prevent the operation of the Electrostatics while solvent is present. It works in conjunction with any CYCLOMIX™ MICRO solvent valve pilot signal.



WARNING: Used with **SAMES KREMLIN** guns only

DESCRIPTION	PN: 668-660-520	PN: 668-660-521	Qty
KMX (product range)	X		
MIV (product range)	X		
**NANOGUN (product range)		X	
Spraymium™ (product range)	X		
Control box w/palm switch, red indicator	X	X	1
* Atomizing air valve	X		1
Pressure switch with fitting		X	1
10' 5/32" tubing	X	X	1
“OR” Valve	X	X	1
Misc. tubing fittings	X	X	1



Pressure switch



Atomizing air valve

***ORDERING OPTIONS:**
Atomization Air Valve
PN: 65-2419-00 comes standard w/o fittings -

To order the valve with fittings refer to table

ATOMIZING AIR VALVE ASSEMBLIES	PN:
Valve, With 1/4 NPS Fittings	65-2419-01
Valve, With 3/8 NPS Fittings	65-2419-02
Valve, With 5/16 OD Tube Fittings	65-2419-03
Valve, With 3/8 OD Tube Fittings	65-2419-04

OPTIONS CYCLOMIX™ MICRO

FLUSH BOX CONTROLLER KIT

The Flush Box Controller kit allows:

- Operator freedom to perform other tasks during prime and flushing cycle
- Allows material savings by optimizing prime function
- Pot life management
- Safer environment for the operator

The Flush Box Controller kit is a pneumatically operated timed circuit to trigger the gun in the flush box in conjunction with a CYCLOMIX™ MICRO operation. The timer is activated by any color or solvent valve air signal.



PN: 668-660-500 Consists of:

DESCRIPTION	Qty
Flush box control	1
* Atomizing air valve	1
Shuttle valve assembly	1
25' 5/32" tubing	1

NOTE: Flush Box Kits are ordered separately.

Flush Box Kits assemblies are ordered separately;

DESCRIPTION	PN:
Flush box, equipped for M22	668-721-200
*** Flush box, equipped for KMX	668-721-300
** Flush box, equipped for NANOGUN	668-721-600
*** Flush box, equipped for Spraymium™	668-721-400
Flush box, equipped for Xcite™	668-721-500



***NOTE: Electrostatic Flush Box Kits come with E-Stat Safety Kits

ATOMIZING AIR VALVE ASSEMBLIES	PN:
Valve, With 1/4 NPS Fittings	65-2419-01
Valve, With 3/8 NPS Fittings	65-2419-02
Valve, With 5/16 OD Tube Fittings	65-2419-03
Valve, With 3/8 OD Tube Fittings	65-2419-04



Atomizing air valve

*ORDERING OPTIONS:

Atomization Air Valve PN: 65-2419-00 comes standard w/o fittings - To order the valve with fittings refer to table

NOTE:

Mounted between the CYCLOMIX™ MICRO and atomizing air regulator

REPORTING

CYCLOMIX™ MICRO

CYCLOMIX™ MICRO – DATA LINK

A program can be added to the CYCLOMIX™ MICRO as an option to collect the consumption data from multiple CYCLOMIX™ MICRO's on a network. The program change allows each CYCLOMIX™ MICRO to have an unique address and each CYCLOMIX™ MICRO will now respond to commands over a network to send their individual consumption information to a main PC operating the Consumption Data Link software.

The Consumption Data Link software will allow the end user to view each CYCLOMIX™ MICRO's consumption data by CYCLOMIX™ MICRO, by component and by color, tabulate the information, summarize the information, reset each CYCLOMIX™ MICRO's consumption totals, and export the information to a text (*.txt or *.csv) file. The text file with its information then can be opened or imported into other spreadsheet or database programs.

NOTE: Contact your local **SAMES KREMLIN** representative for more information.

MICRO DATA LINK CONSUMPTION CLIPBOARD

Table 1; Running Component Totals

COLOR 1	COLOR 2	COLOR 3	COLOR 4	COLOR 5	COLOR 6	COLOR 7	COLOR 8	COLOR 9	TOTAL VOL
321	321	0	0	0	0	0	0	0	673
A SOLV. 1	A SOLV. 2	A SOLV. 3	B COMP 1	B COMP 2	B COMP 3	B SOLV. 1	B SOLV. 2	B SOLV. 3	TOTAL SOL
0	0	0	31	0	0	0	0	0	0
VOC C1	VOC C2	VOC C3	VOC C4	VOC C5	VOC C6	VOC C7	VOC C8	VOC C9	TOTAL VOC
227	227	0	0	0	0	0	0	0	454

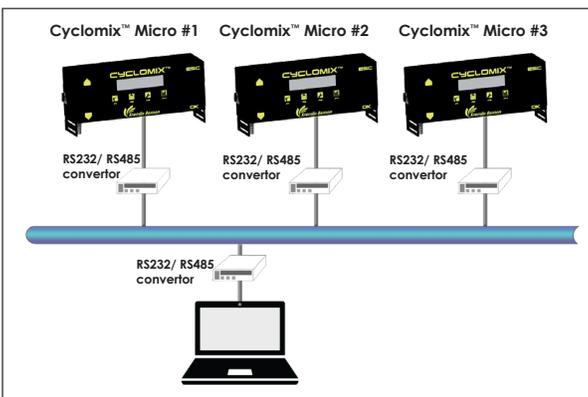
17 hr

Table 2; Micro Raw Data

Number of Micro's : 25 Selected 25 Polled

M#	A1 VOL	A1 VOC	A2 VOL	A2 VOC	A3 VOL	A3 VOC	AS VOL	B VOL	BS VOL	VOC TOT
1	37	26					0	3	0	
2	123	87					0	12	0	
3	173	122					0	17	0	
4	148	105					0	14	0	
5	161	114					0	16	0	
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0					0	0	0	
11	0	0					0	0	0	
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0					0	0	0	
17	0	0					0	0	0	
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0

The polled information can be viewed directly in the Consumption Clipboard or viewed as a Microsoft Excel workbook.



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