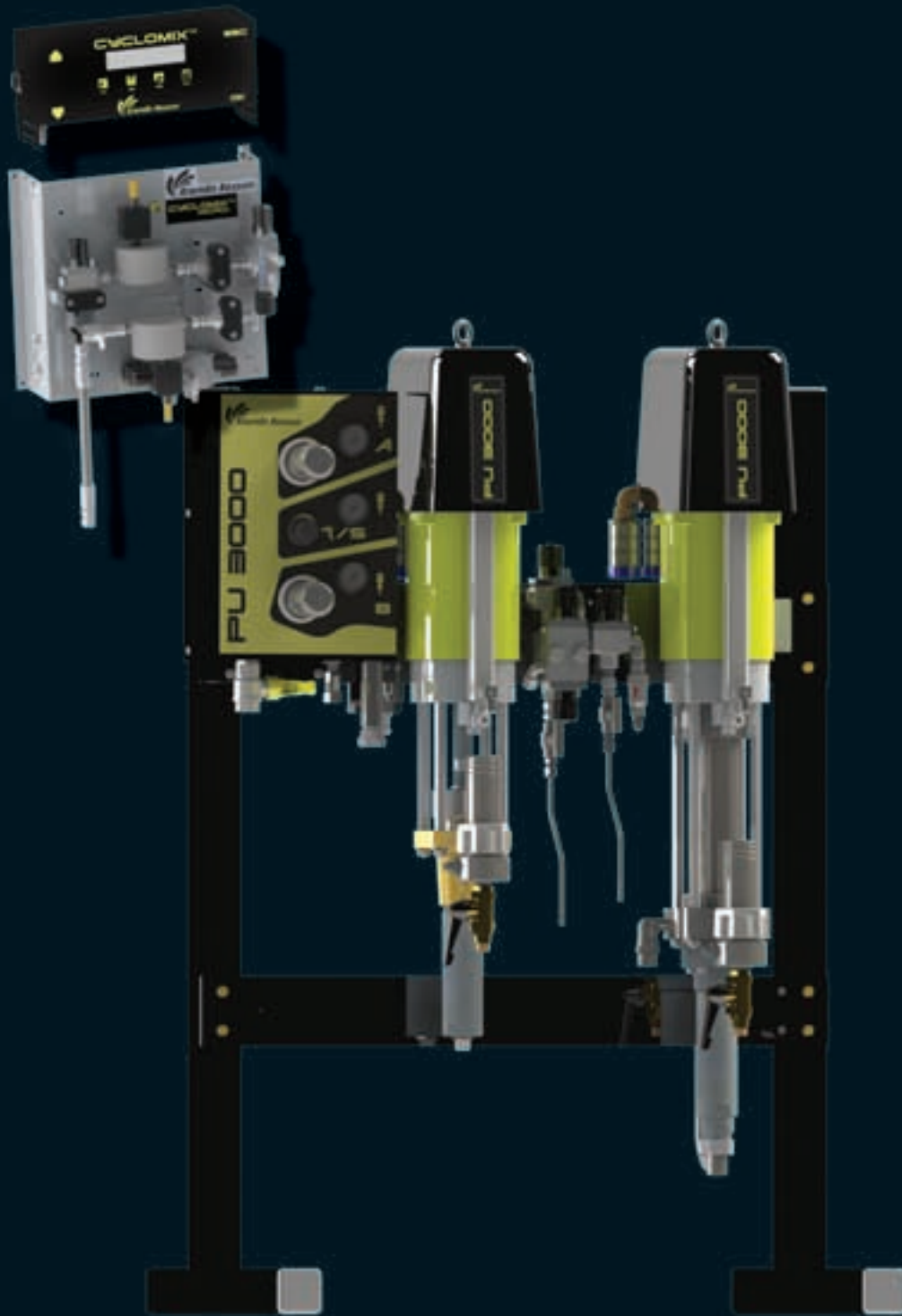


# PLURAL COMPONENT PUMPS AND MACHINES



# PU 2125 F PUMP

## MECHANICAL MIXING



The Flowmax® technology, a Kremlin Rexon patented SuperLife™ bellow design, ensures a perfect mixing accuracy thanks to the total sealing without packings.

Fixed ratio: the economical and easy solution while benefitting from the HTi, HPA and HTV spraying.

PU 2125 F are tested and comes complete ready for use.

PU 2125 F are available in 5 mixing ratio versions: 1/1, 2/1, 3/1, 4/1 or 5/1.

FEATURES	BENEFITS
Sealing done by a FLOWMAX® bellow on the catalyst side	High reliability No more lubricant cups Leak free Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts Ideal for UV and pre-catalyzed materials
Comes with mixer, mix manifold, air feeding assembly, suction rod for base and flushing solvent, 6 L catalyst gravity tank	Ready to use pump
Semi-automatic manifold with synoptic	Safe operation User-friendly
Catalyst re-circulation	Quick color change and flushing without catalyst loss
Stainless steel fluid sections (base and catalyst) - in standard	Chemical compatibility w/o any risk of corrosion with water-based materials
Cart-mounted pump	Easy positioning in the working area (various working areas)

SPECIFICATIONS	
Mixing ratio (upon version)	1/1 - 2/1 - 3/1 - 4/1 - 5/1
Pressure ratio	0.9 à 1.6/1
Max Fluid viscosity in CA 4	180 s
Maximum air inlet pressure (bar)	6
Balanced acoustic pressure (dBA)	80
Weight (kg)	50
Wetted parts	Stainless steel, polyethylene, treated steel Catalyst fluid section: 304 stainless steel Bellow: PTFE

DOSING RATIO					
Description	Volumic dosing ratio	Fluid Output at 20 Cycles/mn (l/mn)	Pressure ratio	Fluid pressure (upon air motor pressure)	
				4 bar	6 bar
PU 2125 F 1/1	1/1	3.5	0.9/1	3.6	5.4
PU 2125 F 2/1	2/1	2.6	1.2/1	4.8	7.2
PU 2125 F 3/1	3/1	2.4	1.4/1	5.6	8.4
PU 2125 F 4/1	4/1	2.2	1.5/1	6	9
PU 2125 F 5/1	5/1	2.1	1.6/1	6.4	9.6

FITTINGS		
Fitting	Air inlet (valve)	F 3/8" BSP
	Air outlet (atomization air)	M 1/4" NPS
	Fluid Outlet	M 1/2" JIC

PU 2125F PART NUMBERS		
Description	Part number	
PU 2125F pump cart-mounted - Dosing ratio 1/1	151.586.100	
PU 2125F pump cart-mounted - Dosing ratio 2/1	151.586.110	
PU 2125F pump cart-mounted - Dosing ratio 3/1	151.586.120	
PU 2125F pump cart-mounted - Dosing ratio 4/1	151.586.130	
PU 2125F pump cart-mounted - Dosing ratio 5/1	151.586.140	



# PU 2160 F PUMP

## MECHANICAL MIXING



The Flowmax® technology, a Kremlin Rexon patented SuperLife™ bellow design, ensures a perfect mixing accuracy thanks to the total sealing without packings.

Fixed ratio: the economical and easy solution while benefitting from the Airmix® spraying.

PU 2160 F are tested and comes complete ready for use.  
PU 2160F are available in 4 mixing ratio versions: 1/1, 2/1, 5/1 or 10/1.

FEATURES	BENEFITS
Cart-mounted pump	Easy positioning in the working area (various working areas)
Comes with mixer, mix manifold, air feeding assembly, suction rod for base and flushing solvent, 6 L catalyst gravity tank	Ready to use pump
Stainless steel fluid sections (base and catalyst) - in standard	Chemical compatibility w/o any risk of corrosion with water-based materials
Sealing done by a FLOWMAX® bellow on the catalyst side	High reliability No more lubricant cups Leak free Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts Ideal for UV and pre-catalyzed materials
Semi-automatic manifold with synoptic	Safe operation User-friendly
Catalyst re-circulation	Quick color change and flushing without catalyst loss
Complete stainless steel 316 catalyst circuit on 10/1 pressure ratio version	Ideal for chemically aggressive catalysts

SPECIFICATIONS	
Mixing ratio (upon version)	1/1 - 2/1 - 5/1 - 10/1
Pressure ratio	10/1 - 15/1 - 18/1 - 20/1
Max Fluid viscosity in CA 4	180 s
Maximum air inlet pressure (bar)	6
Balanced acoustic pressure (dBA)	80
Weight (kg)	60
Wetted parts	stainless steel, polyethylene, PTFE, nickel-coated steel Catalyst fluid section 1/1, 2/1 and 5/1: 304 stainless steel, 10/1: 316L stainless steel

DOSING RATIO					
Description	Volumic dosing ratio	Fluid Output at 20 Cycles/mn (l/mn)	Pressure ratio	Fluid pressure (upon air motor pressure)	
				4 bar	6 bar
PU 2160 F 1/1	1/1	0.8	10/1	40	60
PU 2160 F 2/1	2/1	0.6	15/1	60	90
PU 2160 F 5/1	5/1	0.5	18/1	72	108
PU 2160 F 10/1	10/1	0.44	20/1	80	120

FITTINGS		
Fitting	Air inlet (valve)	F 3/8" BSP
	Air outlet (atomization air)	M 1/4" NPS
	Fluid Outlet	M 1/2" JIC

PU 2160F PART NUMBERS	
Description	Part number
PU 2160 F pump - cart-mounted - pressure ratio 1/1	151.586.690
PU 2160 F pump - cart-mounted - pressure ratio 2/1	151.586.695
PU 2160 F pump - cart-mounted - pressure ratio 5/1	151.586.710
PU 2160 F pump - cart-mounted - pressure ratio 10/1	151.586.700



Airspray spraying technologies

AIRMIX® spraying technologies

AIRLESS spraying technologies

Electrostatic spraying and equipment

Plural component pumps and machines

Fittings and air treatment

# PU 3000

## ELECTRONIC DOSING



The PU 3000, innovative economical and patented solution, combines electronic control and mechanical metering, ready to use. The user-friendly control box allows the operator to intuitively learn how to operate the machine.

**PATENTED** : The innovative pump change-over - FREE PULSE ELECTRONIC technology (FPE) - features a perfectly constant output and a +/- 1% metering accuracy for an outstanding finish and operator peace of mind. Electronic dosing constantly monitors the actual material consumption of products and calculates the VOC.

The machine can be installed in an ATEX 1 or 2 zone to be in close proximity to the operator. PU 3000 is available in HTi / HPA / HTV, AIRMIX® and AIRLESS versions to meet most markets requirements.



FEATURES	BENEFITS
Plug & Spray	Quick start-up
KREMLIN REXSON patent: Free Pulse Electronic Control (FPE) Innovative control system of pump change-over	Constant fluid flowrate Unsurpassed +/- 1% mixing accuracy and +/- 1% repeatability
Direct injection in the high performance static mixer	Perfect mixing
Recording of fluid consumptions and VOC Possibility to print records	Fluid and solvent consumptions stored in memory
Automatic component management: base, catalyst and solvent Automatic flushing and material generation User-friendly control panel	User friendly User-friendly and easy programming for the operator
Preventive maintenance alarm Continuous ratio checking and alarm Low level drum alarm	Safe operation
Ratio check kit in standart with 2 liters test tube Filter and drain assembly in standart	Visual control of mixing accuracy No product loss
Sealing done by a FLOWMAX® bellow on the catalyst side	High reliability Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts
Wide range of ratio from 5 to 160% Suitable for HTi / HPA / HTV, AIRMIX®, AIRLESS spraying technologies Very low flow rate from 10cc	Suitable for use on a wide range of markets

SPECIFICATIONS	
Electrical Power	115/230V - 75W
Maximum air inlet pressure (bar)	6
Fluid viscosity	30 - 8000 cps (20.000cps AIRLESS)
Mixing accuracy	+/- 1%
Mixed fluid output	10cc at 2000 cc / min
Mixing ratio	1/1 - 30/1
Wetted parts	Stainless Steel and PEHD



# PU 3000

## TECHNICAL CHARACTERISTICS

Description	Pressure ratio	Maximum fluid pressure (bar)
PU 3000 - HTi, HPA, HTV versions	1/1 . 7/1	0/6 - 0/40
PU 3000 - AIRMIX® version	30 / 1	200
PU 3000 - AIRLESS version	53 / 1	350

## PU 3000 DIMENSIONS

Description	Height (cm)	Depth (cm)	Width (cm)
HTi, HPA, HTV versions	130	69	86
AIRMIX® version	130	69	86
AIRLESS version	145	69	96
Control Box	28.6	14.3	36.7

## FITTING

Fitting	Air inlet (valve)	F 3/4" BSP
	Air Outlet	F 1/4" BSP
	Fluid Outlet	F 3/4 JIC

## PU 3000 PART NUMBERS

Description	Part number
PU 3000 - HTi, HPA and HTV versions	155.680.140
PU 3000 - AIRMIX® version	155.680.110
PU 3000 - AIRLESS version	155.680.102

## PU 3000 OPTIONS PART NUMBERS

Description	Part number
Spray booth glass mounting kit	155.660.340
Flushing pump	Please consult us

# CYCLOMIX™ MICRO AND MICRO+ PH

ELECTRONIC DOSING



User-friendly precise and control mixing of 2 components materials. With CYCLOMIX™ Micro, the mixing process is mastered and guaranteed. All technical fluid and application characteristics are fully configurable. Once programmed, CYCLOMIX™ Micro will automatically handle all parameters. The programming is user-friendly and quick, with data in-putting by magnetic signal. Flushing and maintenance are very simple. In addition, the system can be controlled from inside the booth. CYCLOMIX™ Micro+ allows the flushing of the catalyst fluid passages especially for water-based materials. For acid catalyst it exists specific references for a CYCLOMIX™ Micro+ PH. Safe zone installation where applicable (Directive ATEX).

FEATURES	BENEFITS
Automatic component management: base, catalyst and solvent	Dosing +/- 1% and repeatability +/- 0.5%
Automatic flushing and material generation	Quick start-up. Minimal material and solvent wastage.
Adjustable flushing volume Several flushing sequence available: only Base side; Base side then Catalyst; Catalyst side then Base side	Solvent savings and environmental protection
Operating pressure from 2 to 200 bar	Allows to choose HTi, HPA, AIRMIX® spray technologies
Continuous ratio checking and alarm	The paint applied on parts always conforms to specifications
User-friendly control panel	User-friendly and easy programming for the operator
Stainless steel design	To handle a wide range of materials
Recording of fluid consumptions and VOC with the possibility to print records (with RS 232 option)	Fluid and solvent consumptions stored in memory
Possibility to monitor the Cyclomix™ Micro from the spray booth (with the glass kit option)	Ergonomy of the working station
Design of the mixing plate	Easy maintenance and spare parts standardization

SPECIFICATIONS	
Electrical Power	115 / 230V - 75W
Trigger air pressure (bar mini)	4
Product pressure (bar)	2 -200
Weight (kg)	25
Wetted parts	Stainless steel and PEHD 316L stainless steel on PH version catalyst side
Mixing ratio	single component and 0,6/1 to 20/1
Mixing accuracy	1%
Mixed fluid output	100 - 2000 cm³/mn
Fluid viscosity	30 - 5000 cps
height (cm)	17.3 (command cabinet) - 40 (dosing unit)
Width (cm)	36.6 (command cabinet) - 40.7 (dosing unit)
Depth (cm)	11.1 (command cabinet) - 30 (dosing unit)

FITTINGS	
Description	Fitting
Electrical supply: bornier and stuffing box	
Air supply	F 1/4" BSP
Air outlet	F 1/4" BSP
Fluid supply	M 1/2" JIC
Fluid outlet	M 1/2" JIC



CYCLOMIX™ MICRO AND MICRO+ PART NUMBERS				
Description	Catalyst fluid passage flushing	Number of bases	Number of catalysts	Part number
CYCLOMIX™ Micro	-	1	1	155.660.900
CYCLOMIX™ Micro	-	3	1	155.660.930
CYCLOMIX™ Micro+	●	1	1	155.660.911
CYCLOMIX™ Micro+	●	3	1	155.660.933
CYCLOMIX™ Micro+ PH (without mixer - see options)	●	1	1	155.660.951
CYCLOMIX™ Micro+ PH	●	3	1	155.660.953

PART NUMBERS OPTIONS CYCLOMIX™ MICRO AND MICRO+	
Description	Part number
Mixing assembly for Cyclomix® Micro+ PH	155.660.955
RS 232 connection kit for printer	155.660.935
Spray booth glass mounting kit	155.660.340
7m extension cable between control cabinet and mixing panel	901.250.216



# CYCLOMIX™ MULTI AND MULTI PH

ELECTRONIC DOSING



CYCLOMIX™ electronic dosing to handle several colors: CYCLOMIX™ Multi can handle up to 7 different bases and 3 catalysts. Modular design CYCLOMIX™ Multi can be positioned in zone 1 or 2 (Directive ATEX). Programming and use are user-friendly by means of a large touch screen. For acid catalyst it exists specific references for a CYCLOMIX™ Multi PH.

FEATURES	BENEFITS
Automatic component management: base, catalyst and solvent	Dosing +/- 1% and repeatability +/- 0.5%
Automatic mix material fill	Quick start-up. Minimal material and solvent wastage.
Adaptable programming for each color	Ideal application for each color
Several flushing modes: production cycle, extended production stops, solvent-based materials	Perfect compatibility with production conditions evolutions
Fast mixing ratio accuracy by beakers	Visual control of mixing accuracy
batch mode	To easily get small quantities of mixed materials for touch-up works
Operating pressure from 2 to 200 bar	Large choice of spraying technologies: HPA, HTI, AIRMIX® or AIRLESS
Autowash system	Off-production gun automatic monitoring
Multilingual display and integrated instruction manual	User-friendly and easy programming for the operator
Stainless steel design	Compatible with water-based materials
Numerical interface	Quick link with an on-line automate
Integrated spraying air management	Comfort and safety during color and solvent fill
Pneumatic emergency flushing	Perfect flushing in case of power supply cut-off
Design of the mixing plate	Easy maintenance and spare parts standardization
Robotic interface	Connection with an on-line automate

SPECIFICATIONS	
Electrical Power	115 / 230 V - 75 W
Trigger air pressure (bar mini)	4
Product pressure (bar)	2 - 200 bar
Weight (kg)	70
Wetted parts	Stainless steel and PeHD
Mixing ratio	0.6/1 à 30/1 (160% à 5%)
Mixing accuracy	+/- 1%
Solvent flowrate (m³/h)	100 - 2000 cm³/mn
Mixed fluid output	100 - 2000 cm³/mn
Fluid viscosity	30 - 5000 cps
height (cm)	60 (control cabinet) - 77 (mixing unit)
Width (cm)	60 (control cabinet) - 60 (mixing unit)
Depth (cm)	40 (control cabinet) - 77 (mixing unit)

FITTINGS	
Description	Fitting
Air supply	F 1/4" BSP
Air outlet	F 1/4" BSP
Fluid supply	M 1/2" JIC
Fluid outlet	F 1/4" BSP

CYCLOMIX™ MULTI PART NUMBERS			
Description	Number of bases	Number of catalysts	Part number
CYCLOMIX™ Multi	3	1	155.660.813
CYCLOMIX™ Multi	5	1	155.660.815
CYCLOMIX™ Multi	7	1	155.660.817
CYCLOMIX™ Multi	3	2	155.660.823
CYCLOMIX™ Multi	5	2	155.660.825
CYCLOMIX™ Multi	3	3	155.660.833
CYCLOMIX™ Multi PH	3	1	155.660.513
CYCLOMIX™ Multi PH	5	1	155.660.515
CYCLOMIX™ Multi PH	7	1	155.660.517

OPTION PART NUMBER CYCLOMIX™ MULTI	
Description	Part number
Autowash	155.660.300



Airspray spraying technologies

AIRMIX® spraying technologies

AIRLESS spraying technologies

Electrostatic spraying and equipment

Plural component pumps and machines

Fittings and air treatment

# CYCLOMIX™ EXPERT

## ELECTRONIC DOSING



Cyclomix™ EXPERT, industrial and evolutive solution, innovative, guarantees total quality of production .

CYCLOMIX™ Expert can manage a total up to 24 components (bases, catalysts, flushing solvents). It can handle mono, bi or tri-component materials

The innovative dosing process - ultra fast injection valve - offers uneaqualified mixing quality and dosing accuracy. The machine can handle 2 working stations at the same time . The machine programming by means of a color screen with ratio/tolerance data assist management - up to 15 languages - has been designed to bring comfort and easiness in the case of product or parameters modifications. The electronic technology brings total monitoring and follow-up of real material consumptions, VOC with recording possibility to ensure tracability.

CYCLOMIX™ Expert can be fitted with different flowmeters technologies (ex: mass flowmeter for difficult paint to handle or water-based materials). The possibility to use Flowmax® technology - developed by KREMLIN REXSON - bellows instead of traditional packings on the catalyst side brings total reliability for moisture-sensitive isocyanates catalysts.

CYCLOMIX™ Expert is available in Airspray (HTI/HPA/HTV), AIRMIX® and AIRLESS versions (up to 200 bars) to meet all market needs, in manual or automatic spraying.

The fluid manifold can be set-up in the spraying area in order to reduce the paint hoses length. Safe zone location (ATEX Directive) for the control cabinet.

Options are available to upgrade the machine depending on each customer configuration.

- Remote color screen control cabinet  
Accessible directly from the working station (spray booth), it allows the operator to manage production, color changes, flushing...

- Automatic Flush box

Located in the spraying area closed to the painter, it enables the painter to be hands free while system is flushing.

FEATURES	BENEFITS
Automatic component management up to 24 components in 1,2, 3 components and solvent	Innumerable possibilities Flexibility when changing materials
Real time display of instant real ratio and flowrate	Continuous process control
No pre-mixing chamber: optimized fluid passages w/o retention zones	Perfect flushing Prevent fluid waste
Stainless steel design	Compatible with water-based materials
Frequency configuration before flushing at the end of potlife	Mixed material and solvent savings Safe operation
Emergency pneumatic manual flushing batch mode	Perfect flushing in case of power supply cut-off To easily get small quantities of mixed materials for touch-up works
Adaptable programming for each color	Ideal application for each color
3 data access level upon each operator	Safety use
Assisted data and tolerance product manufacturer specification entry	Quick and easy data entry eliminating any errors
Color man/machine interface	User friendly
Standard monitoring of 2 guns (2 priming - 2 flushing)	Possibility to manage 2 workstations simultaneously (1 or 2 guns or both)
Ratio check	Safe operation Full operator safety
6 different flushing sequences (air-solvent es standard) Volume or time flushing Multiples solvent choice for each recipe	Solvent consumption optimization upon recipe Optimized flushing
Magnetic injection volume adjustment - electro magnetic valves	Mixing optimization upon ratios Increase of injection frequency
USB data storage Batch number management	Production Follow-up optimization
Various Product mesurement technology: mass or gear	Handles a large range of materials





# CYCLOMIX™ EXPERT

## SPECIFICATIONS

Voltage (V)	115 - 230
Number of fluid inlets	24
Trigger air pressure (bar mini)	4
Operating pressure (bar)	5 - 200
Mixing ratio (in standard)	0.6/1 at 30/1
Mixing accuracy	+/- 1%
Mixed fluid output	50 - 6000 cm <sup>3</sup> /mn
Fluid viscosity	30 - 5000 cps
Wetted parts	Stainless steel and PeHD (option 316L)
Width (cm)	100 (3K) - 89 (2K)
Height (cm)	119 (3K) - 91 (2K)
Weight (kg)	48 (2K) - 68 (3K)

## CONTROL BOX CHARACTERISTICS

Width (cm)	60
Height (cm)	60
Depth (cm)	40
Weight (kg)	25

## CYCLOMIX™ EXPERT PART NUMBER

Description	Part number
CYCLOMIX™ Expert	Please consult us

