

PLURAL COMPONENT SYSTEM





SELECTION GUIDELINES



SD SERIES —

The Cosmostar SD Series Plural-Component Sprayer is designed to pump, mix and atomize high to 100% solid content coating system. Equipped with our solvent pump to clean up mixed material from static mixer to spray gun with one valve open.

TYPICAL Heavy Duty Protective coatings
APPLICATIONS

FLUIDS HANDLED Polyurethane, Epoxy, high solid content material

PF SERIES

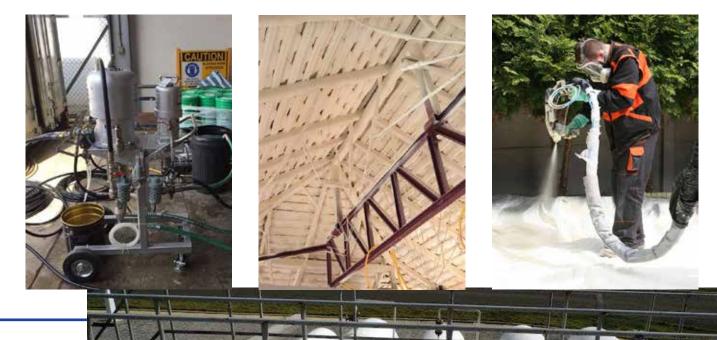
The Cosmostar PF Series Plural Component Sprayer is engineered to process fast-set materials such as polyurea and polyurethane foam, or other coating that require high pressure and fast curing material.



 TYPICAL
 Protective coatings and Foam insulation

 APPLICATIONS
 FLUIDS

FLUIDS HANDLED Polyurethane foam, Polyurea, Polyurethane



SD100 PLURAL COMPONENT AIRLESS SPRAYER

Cosmostar SD100 Plural Component Sprayer is designed for spraying high viscosity fluid, high solid content material coating. The gravity feed, flush pump and fluid heater can be implemented to face the hardest environment and any coating applications.

HIGH PRESSURE RATIO

High pressure to handle high viscosity and high solid content coating. Rugged air motor body can stand any hardest applications environment.



FLUID MANIFOLD

The system of dual shutoff & dual brain valve can easily be started or stopped as well as fast proccess daily ratio-checked

PRECISSION RATIO

Materials are proportioned by precision positive displacement pumps and mixed accurately

FEATURES & BENEFITS

- High resistance and durability
- Two and three lower designs achieve a wide variety of mix ratios
- Two-lower design for a consistent 1:1 mix ratio
- Three lower design provides mix ratios above 1:1 for balanced pumping
- Provides accurately mixed and proportioned material on demand
- Reduces material and solvent waste

SOLVENT FLUSH PUMP

- Mouting with Cosmostar Enco 4" high pressure flush pump
- Provide enough pressure force to push material out of manifold and mixing hose immediately

AUTOMATIC SAFETY PRESSURE RELIEF

Protect pumping system from over-heating and exceeds its pressure limits

HIGH DURABILITY & MOBILITY

- Tough frame with rugged design
- Three-wheel cart design to prove high mobility application

HEATING SYSTEM

- Heating system upgradable based on your need
- Includes fluid heater R0350, heater tank and heater hose

Static Mixer R2020

COSMOSTAR pneumatic based explosion proof mix manifold, injector & airless gun ensure a proper mixing ratio for fast-curing materials to be either injected or sprayed



SD70 SD SERIES

COSMOSTAR SD70 provides maximum performance in compact design. The SD70 made spraying high solid polyurethane spraying easy and affordable. Hopper mounting is optional, with hopper mounted on the cart going from job site to site has never been so easy.



INCREASE PRODUCTIVITY & LABOUR SAVINGS

Mounting with COSMOSTAR 7 inch air motor, it can provide large pressure force to push high volume of material out of manifold and mixing hose immediately, also with the ability to use larger tips, you can get jobs done faster.

HIGH PRESSURE & PRECISSION RATIO

High pressure to handle high viscosity and high solid content coating. Rugged air motor body can stand any hardest applications environment. Materials are proportioned by precision positive displacement pumps and mixed accurately.

EASIER TO SERVICE

The Cosmostar PF/SD plural component mechanically operated sprayer makes it easy to use and service.



SAVE TIME

Easy preparation, easy to set up the equipment, fast operation and clean up.

TECHN	ICAL D	ATA	SD70

Air Motor Diameter	7" (FLASH)	
Mixing Ratio by Volume (Resin:Activator)	3.0:1	3.5:1
Pressure Ratio (Fluid to Air)	40:1	30:1
Volume / Cycle	148cc	168cc
Volume Flow Rates @40 Cycles / Min	5.92 LPM	6.72 LPM
Volume Flow Rates @60 Cycles / Min (Max)	8.88 LPM	10.08 LPM
Fluid Pressure @75 Psi Air Input	3000 Psi	2250 Psi
Fluid Pressure @120 Psi Air Input	4800 Psi	3600 Psi
Air Consumption @100 Psi CFM	34 scfm @ 3.8 LPM	



Includes:

- Air regulator with air Gauge Assembly
- R0927 3/8" High Pressure Fluid Filters
- Fluid manifold
- Automatic safety pressure relief
- Non return valve



SD60 SD SERIES



TECHNICAL DATA SD60 24:1				
Air Motor Diameter	6-inch (COMPACT)			
Mix Ratio	1:1			
Pressure Ratio	24:1			
Maximum Fluid Working Pressure	200 bar (2880 psi)			
Maximum Air Input Pressure	8.3 LPM (120 psi)			
Maximum Volume Flow Rate	4.4 LPM (1.68 GPM)			
Volume Per Cycle	74 cc			
Air Inlet Size	1/4 pt			
Fluid Inlet Size	3/4 pt			
Fluid Outlet Size	1/4 pt			

Includes:

- Air regulator with air Gauge Assembly
- R0927 3/8" High Pressure Fluid Filters
- 50' x 1/4" HP Catalyst hose
- 50' x 1/4" HP Resin hose

Optional:

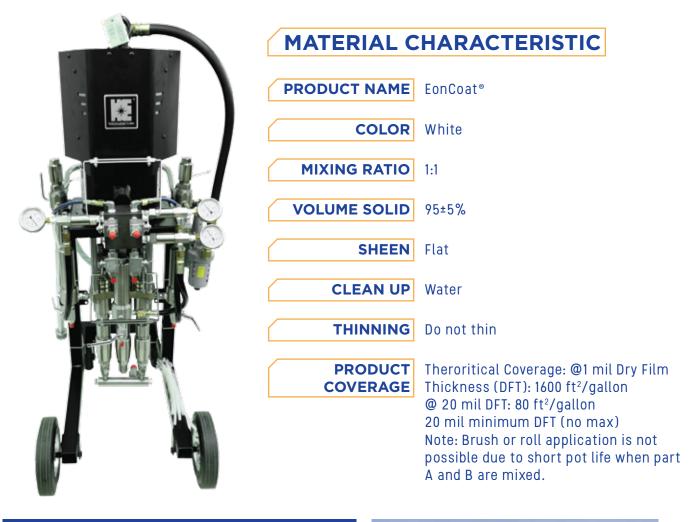
- P0201: Cosmostar Hi Flux 1:1 Transfer pump-2 unit
- 1000KW 55-gallon drum heater-2 unit
- Cosmostar 0705-200L Agitator- 2 unit
- GRACO fusion CS external mixing gun
- Cosmostar well-mix external mixing gun



PF10C

PLURAL COMPONENT AIRLESS SPRAYER

COSMOSTAR PF100 is designed to overcome the fast-set material and toughest job site environment. Equipped with 10" air motor with stainless steel lowers can provide the most reliable mixing ratio and high working pressure and achieve your need about fluid atomization.



TECHNICAL DATA PF100 50:1				
Air Motor Diameter	10-inch (ATLAS)			
Mix Ratio	1:1			
Pressure Ratio	50:1			
Maximum Fluid Working Pressure	350 bar (5000 psi)			
Maximum Air Input Pressure	7.0 bar (100 psi)			
Maximum Volume Flow Rate	13.5 LPM (3.5 GPM)			
Volume Per Cycle	225 cc			
Air Inlet Size	3/4 pt			
Fluid Inlet S				



Includes:

- Air regulator with air Gauge Assembly
- R0927 3/8" High Pressure Fluid Filters
- Fluid manifold

Fluid Outlet

PF70 PF SERIES

COSMOSTAR PF70 with heater provides maximum performance in industrial protective coating. The PF70 made PU Foam spraying easy and affordable. COSMOSTAR PF series is recommended sprayer for applixation of many materials, such as PU Foam, Polyurea, and Polyurethane.





Using COSMOSTAR R0350 Fluid heater maintains optimal temperatures to provide consistent control of fluid viscosity.

TECHNICAL DATA PF70 34:1				
Air Motor Diameter	7-inch (FLASH)			
Mix Ratio	1:1			
Pressure Ratio	34:1			
Maximum Fluid Working Pressure	281 bar (4080 psi)			
Maximum Air Input Pressure	8.3 bar (120 psi)			
Maximum Volume Flow Rate	10.2 LPM (2.68 GPM)			
Volume Per Cycle	225 cc			
Air Inlet Size	3/4 pt			
Fluid Inlet Size	3/4 pt			
Fluid Outlet Size	3/8 pt			



Includes:

- Air regulator with air Gauge Assembly
- R0927 3/8" High Pressure Fluid Filters
- Fluid manifold
- Automatic safety pressure relief
- Non return valve



PF60

PLURAL COMPONENT AIRLESS SPRAYER

 HOPPERS MATERIAL Sidle-mounted 20 liters hoppers content material A and B for ready spray all the time Stainless Steel and PE Hoppers types to meet all application The Most economical way for direct 2k pump feed.
HIGH • M006 Compact 6" air motor • Up to 1440 psi • Polyurethane Foam Application
 PRECISION MIXING RATIO Precise proportion 1:1 ratio Two LS062C/LS037C displacement pump Available in two types of materials: Carbon Steel or SUS
HIGH DURABILITY AND MOBILITY• Tough frame • Two-wheel cart design

TECHNICAL DATA PF60 12:1				
Air Motor Diameter	6-inch (COMPACT)			
Mix Ratio	1:1			
Pressure Ratio	12:1			
Maximum Fluid Working Pressure	100 bar (1440 psi)			
Maximum Air Input Pressure	8.3 bar (120 psi)			
Maximum Volume Flow Rate	7.6 LPM (2.0 GPM)			
Volume Per Cycle	124 cc			
Air Inlet Size	3/8 pt			
Fluid Inlet Size	3/4 pt			
Fluid Outlet Size	1/4 pt			

Includes:

- Air regulator with air Gauge Assembly
- R0927 3/8" High Pressure Fluid Filters
- 50' x 1/4" HP Catalyst hose
- 50' x 1/4" HP Resin hose

Optional:

- P0204: Cosmostar Hi Flux 1:1 Transfer pump-2 unit
- 1000KW 55-gallon drum heater-2 unit
- Cosmostar 0705-200L Agitator- 2 unit
- \cdot GRACO fusion CS external mixing gun
- Cosmostar well-mix external mixing gun

TETHYS 2K GUN SERIES

Superior air purge spray gun for PU Foam and heavy coating. The new COSMOSTAR Tethys 2K Gun is developed to reduce downtime, fast and easy to maintain, less clogging, and increase your productivity. Tethys 2K Gun is highly reliable and easy to use even in difficult spraying positions.





FEATURES & BENEFITS

- Superior air purge spray gun for heavy coating
- Provides accurately mixed & proportioned material
- Less clogging
- Less maintenance & downtime
- Easy to clean
- High resistance & durability



TYPICAL APPLICATIONS

- Roof coatings
- Pipe & tank coatings
- Secondary containment & downtime
- Truck bedliners
- Waterproofing
- Roof & wall insulation

TECHNICAL DATA TETHYS 2K GUN

Maximum Fluid Working Pressure	250 bar (3500 psi)
Minimum Air Input Pressure	5.6 bar (80 psi)
Maximum Air Input Pressure	9.0 LPM (130 GPM)
Air Inlet Size	1/4" pt
A Component Inlet Size	1/4 or 3/8 pt
B Component Inlet Size	1/4 or 3/8 pt

Typical fluid handled:

- Adhesives
- Polyurethane
- Polyurea
- Polyurethane Foam

Typical application:

- Roof coatings
- Pipe & tank coatings
- Truck bedliners
- Waterproofing
- Roof & wall insulation



SPECIFICATIONS

SD100 SERIES

SELECTION GUIDE

- **1. CHOOSE THE MIXING RATIO** The mixing ratio is usually set and conditioned by the material manufacturers.
- 2. CHOOSE YOUR WORKING PRESSURE RATIO OR MAXIMUM PRESSURE

Select a pressure ratio that will allow the proportioner to deliver the required amount of fluid pressure. This is determined by material viscosity & setup parameters.

3. CHOOSE YOUR DESIRABLE FLOW RATE

From the possible choices of fluid to air ratio, select one that exceeds the total flow requirements of the application device(s) by approximately 30%. This provides an adequate application factor for such variables as tip at nozzle wear & pump or motor characteristics.

		SD100 1:1	SD100 2:1	SD100 3:1	SD100 4:1
	Air Motor Type	10-inch (HULK)	10-inch (HULK)	10-inch (HULK)	10-inch (HULK)
_	Displacement Pump A	LS085C-1, LC085C-1	LS085C-2,LC085C-2	LS0113C-2,LC113C-2	LS0113C-2,LC113C-2
Model	Displacement Pump B	LS085C-1, LC085C-1	LS085C-1, LC085C-1	LS073C-1, LC073C-1	LS073C-1, LC073C-1
2	Model	SUS, Carbon Steel	SUS, Carbon Steel	SUS, Carbon Steel	SUS, Carbon Steel
	Mix Ratio	1:1	2:1	3:1	4:1
	Pressure Ratio	68:1	45:1	40:1	45:1
	Maximum Fluid Working Pressure	469 bar (6800 psi)	310 bar (4500 psi)	276 bar (4000 psi)	310 bar (4500 psi)
_	Maximum Air Input Pressure	6.9 bar (100 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
cification	Maximum Flow Rate	10 2 LDM (2 49 CDM)	15-2 LDM (4-0 CDM)	19.0 LDM (/ 7.CDM)	14 94LDM (7 75CDM)
cific	Volume Per Cycle	- Day	in the second se	1000000	
Spe	Air Inlet Size	1 4 0 M M M		and the second second second	and the second second

- Air Inlet Size
- Fluid Inlet Size
- Fluid Outlet Size Maximum Operat

SPECIFICATIONS SD70 SERIES

SD70 is ideal for low pressure airless coating applications which has same flow rate as SD100 which can handle medium viscosity material & equipped with 7-inch Flash air motor.



		SD70 1:1	SD70 2:1	SD70 2.5:1	SD70 3:1	SD70 3.5:1
	Air Motor Type	7-inch (FLASH)	7-inch (FLASH)	7-inch (FLASH)	7-inch (FLASH)	7-inch (FLASH)
	Displacement Pump A	LS085C-1, LC085C-1	LS085C-2,LC085C-2	LS0113C-2,LC113C-2	LS0113C-2,LC113C-2	LS0113C-2,LC113C-2
Mode	Displacement Pump B	LS085C-1, LC085C-1	LS085C-1, LC085C-1	LS073C-1, LC073C-1	LS073C-1, LC073C-1	LS073C-1, LC073C-1
~	Model	SUS, Carbon Steel	SUS, Carbon Steel	SUS, Carbon Steel	SUS, Carbon Steel	SUS, Carbon Steel
	Mix Ratio	1:1	2:1	2.5:1	3:1	3.5:1
	Pressure Ratio	34:1	20:1	45:1	18:1	30:1
	Maximum Fluid Working Pressure	281 bar (4080 psi)	166 bar (2400 psi)	372 bar (5400 psi)	149 bar (2160 psi)	248 bar (3600 psi)
_	Maximum Air Input Pressure	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
cation	Maximum Flow Rate	10.2 LPM (2.68 GPM)	15.2 LPM (4.0 GPM)	7.86 LPM (2.08 GPM)	18.0 LPM (4.7 GPM)	10.08 LPM (2.66 GPM)
SCIFIC	Volume Per Cycle	170 cc	253 cc	131 cc	300 cc	168 cc
spe	Air Inlet Size	1/2 pt	1/2 pt	1/2 pt	1/2 pt	1/2 pt
	Fluid Inlet Size	3/4 pt	3/4 pt	3/4 pt	3/4 pt	3/4 pt
	Fluid Outlet Size	1/4 pt	1/4 pt	1/4 pt	1/4 pt	1/4 pt
	Maximum Operating Temperature	82°C (180°F)	82°C (180°F)	82°C (180°F)	82°C (180°F)	82°C (180°F)

Model



SPECIFICATIONS SD60 SERIES

SD60 is ideal for low pressure airless coating applications which can handle medium viscosity material & equipped with 6-inch Compact air motor.



	•	SD60 1:1	SD60 2:1
	Air Motor Type	6-inch (COMPACT)	6-inch (COMPACT)
	Displacement Pump A	LS037C-1, LC037C-1	LS062C-1,LC062C-1
Model	Displacement Pump B	LS037C-1, LC037C-1	LS062C-1,LC062C-1
2	Model	SUS, Carbon Steel	SUS, Carbon Steel
	Mix Ratio	1:1	1:1
	Pressure Ratio	24:1	12:1
	Maximum Fluid Working Pressure	200 bar (2880 psi)	100 bar (1440 psi)
_	Maximum Air Input Pressure	8.3 bar (120 psi)	8.3 bar (120 psi)
Specification	Maximum Flow Rate	4.4 LPM (1.68 GPM)	7.6 LPM (2.0 GPM)
cific	Volume Per Cycle	74 cc	124 cc
Spe	Air Inlet Size	1/4 pt	1/4 pt
	Fluid Inlet Size	3/4 pt	3/4 pt
	Fluid Outlet Size	1/4 pt	1/4 pt
	Maximum Operating Temperature	82°C (180°F)	82°C (180°F)



SPECIFICATIONS PF SERIES



	•	PF100	PF70	PF70
	Air Motor Type	10-inch (HULK)	7-inch (FLASH)	7-inch (FLASH)
_	Displacement Pump A	LS113C-1, LC113C-1	LS085C-1,LC085C-1	LS113AC-1, LC113C-1
Model	Displacement Pump B	LS113C-1, LC113C-1	LS085C-1,LC085C-1	LS113C-1, LC113C-1
~	Model	SUS, Carbon Steel	SUS, Carbon Steel	SUS, Carbon Steel
	Mix Ratio	1:1	1:1	1:1
	Pressure Ratio	50:1	34:1	25:1
	Maximum Fluid Working Pressure	350 bar (5000 psi)	281 bar (4080 psi)	207 bar (3000 psi)
_	Maximum Air Input Pressure	7.0 bar (100 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
Specification	Maximum Flow Rate	13.5 LPM (3.5 GPM)	10.2 LPM (2.68 GPM)	13.5 LPM (3.5 GPM)
ecific	Volume Per Cycle	225 cc	170 cc	225 cc
Spe	Air Inlet Size	3/4 pt	1/2 pt	1/2 pt
	Fluid Inlet Size	3/4 pt	3/4 pt	3/4 pt
	Fluid Outlet Size	1/4 pt	1/4 pt	1/4 pt
	Maximum Operating Temperature	82°C (180°F)	82°C (180°F)	82°C (180°F)

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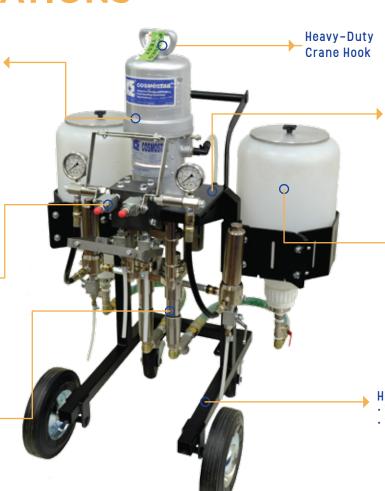
PF60 SERIES SPECIFICATIONS

High Pressure Ratio M006 COMPACT 6" air motor • Up to 1440 psi • Polyurethane Foam Application •



Fluid Manifold The system of dual shutoff & dual brain valve can easily be started or stopped as well as fast proccess daily ratio-checked

Precision Mixing Ratio Precise proportion 1:1 ratio with two LS062C/LS037C displacement pump. Available in two materials: Carbon (CS) & Stainless (SUS)



Compact Cart-Mounted • Designed for easy handling by

one person • Can be floor mounted after removing wheels • Easy mounting of optional flush pump & heater

Material Hopper for Higher Mobility

- Side mounted 7-gal (26 liter) hoppers hold A & B components until it's time to spray
- Made of rugged polyethylene-unaffected by harsh solvent
- Optimized for direct pump feed

High Durability & Mobility
• Tough frame with rugged design • Two-wheel cart design to prove high mobility applications

		PF60	PF60
Model	Air Motor Type	6-inch (COMPACT)	6-inch (COMPACT)
	Displacement Pump A	LS037C-1, LC037C-1	LS062C-1, LC062C-1
	Displacement Pump B	LS037C-1, LC037C-1	LS062C-1, LC062C-1
	Model	SUS, Carbon Steel	SUS, Carbon Steel
	Mix Ratio	1:1	1:1
Specification	Pressure Ratio	24:1	12:1
	Maximum Fluid Working Pressure	200 bar (2880 psi)	100 bar (1440 psi)
	Maximum Air Input Pressure	8.3 bar (120 psi)	8.3 bar (120 psi)
	Maximum Flow Rate	4.4 LPM (1.68 GPM)	7.6 LPM (2.0 GPM)
	Volume Per Cycle	74 cc	124 cc
	Air Inlet Size	1/4 pt	1/4 pt
	Fluid Inlet Size	3/4 pt	3/4 pt
	Fluid Outlet Size	1/4 pt	1/4 pt
	Maximum Operating Temperature	82°C (180°F)	82°C (180°F)

ACCESSORIES



ACCESSORIES SELECTION

FEEDING PUMP

High Viscosity Application: P1312 & P1302 Low to Medium Viscosity Application: P0204 & P0201 Agitators - 200 liter drum & 20 liter with transfer pump

AGITATOR -

AM0701 - 200L Bung Mount Design AM0705 - 200L Bung Mount Design

SOLVENT FLUSH PUMP: P1450 & P1452

HEATING SYSTEM

High Pressure Fluid Heater: R0350 Heated Belt:

HB200L 3.0KW

STATIC BLOCK: R2020 Static Block

SPRAY GUN

R2006 Airless Spray Gun R2010 Airless Spray Gun

R2K01 Tethys 2K Gun Static Block: R2020

HEATER



STATIC MIXER

TRANSFER PUMP

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SPRAY GUN

DRUM HEATER BELT





EXPERIENCE • QUALITY • CARE

Established in 1979, COSMOSTAR TECH LTD. has been a front runner among fluid handling equipment manufacturers in Taiwan. The key to our long success is exceptional experience, technical excellence, and dependable customer service. Having obtained EN-ISO 9001:2008 certification, we maintain our high quality control through world class management.

Our products cover various areas of fluid handling applications including spray finishing, fluid agitating, sealant, lubrication, adhesives, and large scale power application equipment for all industries.

DISTRIBUTOR LOCATIONS

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