

 **Painttechnik – SPRAY SOLUTION**

**Total Solution for Fluid Handling Equipment**

**Specialized Manufacturer of Plural Component Sprayer with 40 years experience**



# **PLURAL COMPONENT PROPORTIONING SYSTEM**

**Tough Designed Sprayer for Overall Industrial Protective Coatings**

**CE**

# PLURAL COMPONENT AIRLESS SPRAYER

## SD 100

Painttechnik **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.



### TYPICAL APPLICATIONS

- Plural component materials
- Protective coatings
- Farm and construction equipment
- Truck and bus
- General metal fabrication
- Foam and elastomeric

### APPLICABLE COATINGS

Epoxies • Polyurethanes • Waterborne  
• Acid-catalyzed wood finishing materials • Stains, lacquers and varnishes • Sealants and adhesives

# PLURAL COMPONENT AIRLESS SPRAYER

## SELECTION GUIDELINES

The **SD100/PF100** series are spraying and pumping systems that proportion and mix two-component fluids. The fixed ratio mechanical plural-component proportioning sprayer and pump accurately pump and proportion two-component materials by powering two or three positive displacement pump lowers. The mix ratio is fixed by selecting compatible sets of two or three lowers.



For spraying PU foam application, Painttechnik **SD60-24:1** with **mixing ratio 1:1** are designed to overcome the toughest job site environment. Equipped with two positive displacements can provide the most reliable mixing ratio and **COMPACT 6-inch** can always achieve your expectation about fluid atomization.

### Typical Applications

Plural component materials  
Protective coatings  
Foam insulation

### Typical Fluids Handled

Polyurethane Foam  
Polyuria



For spraying PU foam application, Painttechnik **PF70-34:1** with **mixing ratio 1:1** are designed to overcome the toughest job site environment. Equipped with two positive displacements can provide the most reliable mixing ratio and **FLASH 7-inch** can always achieve your expectation about fluid atomization.

### Typical Applications

Plural component materials  
Protective coatings  
Foam insulation

### Typical Fluids Handled

Polyurethane Foam  
Polyuria





# PLURAL COMPONENT AIRLESS SPRAYER

## 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 shut-off and dual drain valve can easily be started or stopped as well as fast process daily ratio-checked



## PRECISION RATIO

Materials are proportioned by precision positive displacement pumps and mixed accurately

## STATIC MIXER R200

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

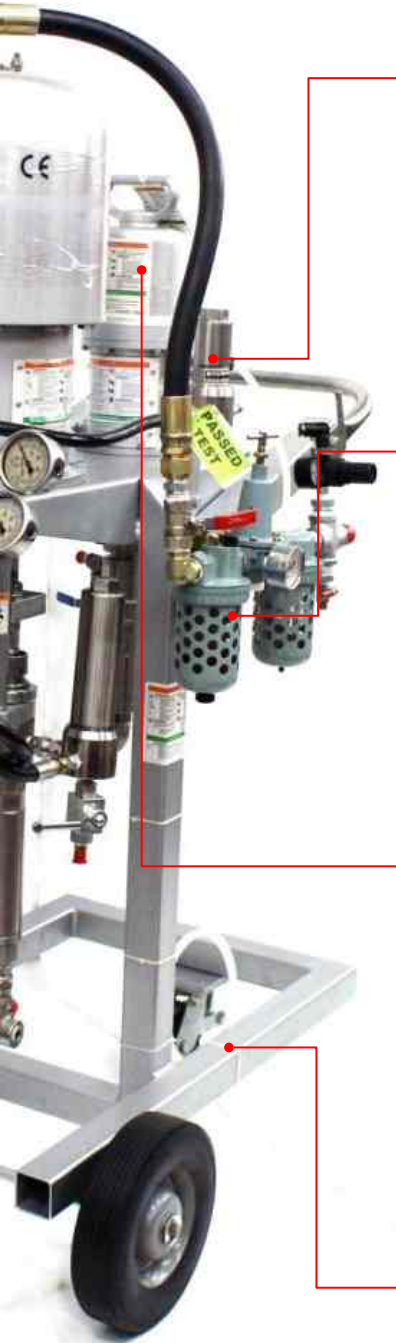


# PLURAL COMPONENT AIRLESS SPRAYER

## FEATURES

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## BENEFITS



### **AUTOMATIC SAFETY PRESSURE RELIEF**

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

### **HEATING SYSTEM**

Heating system upgradeable based on your need, which includes fluid heater **R0350**, heated tank and heated hose

### **SOLVENT FLUSH PUMP**

Mounting with Painttechnik **ENCO** 4-inch high pressure flush pump, it can provide enough pressure force to push material out of manifold and mixing hose immediately

### **THREE-WHEEL CART**

Three-wheel cart design provides the best mobility to move your equipment to any tough locations.

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



# PLURAL COMPONENT AIRLESS SPRAYER

## PF SERIES

# SD 70

Getting the “right and accurate” equipment is the most important consideration in coating PU foam and polyurea, or any 2K material. Painttechnik **PF series** can always be your solution by providing high power output with precision mixing ratio.



### Technical Data **SD70 34:1**

Air Motor Diameter	7-inch (FLASH)
Mix Ratio	1:1
Pressure Ratio	25:1
Maximum Fluid Working Pressure	281 bar (4080 psi)
Maximum Air Input Pressure	8.3 bar (120 psi)
Maximum Volume Flow Rate	10.2 LPM (2.7 GPM)
Volume Per Cycle	170 cc
Maximum Recommended Pump Speed	60 cycles per min
Air Inlet Size	1/2 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
- Fluid Manifold
- Automatic Safety Pressure Relief
- Non Return Valve



# PLURAL COMPONENT AIRLESS SPRAYER

## 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 bar (120 psi)
Maximum Volume Flow Rate	4.4 LPM (1.68 GPM)
Volume Per Cycle	74 cc
Air Inlet Size	3/8 pt
Fluid Inlet Size	3/4 pt
Fluid Outlet Size	1/4 pt

## HIGH PRESSURE RATIO

- M006 **COMPACT** 6-in air motor
- Up to 1440 psi
- Polyurethane Foam Application

## PRECISION MIXING RATIO

- Precise proportion 1:1 ratio
- Two **LS062C** Displacement Pumps
- Available in two types material: Carbon Steel or Stainless Steel

## HIGH DURABILITY AND MOBILITY

- Tough frame
- Two-wheel cart design

# SD 60

### INCLUDES:

- Air Regulator with Air Gauge Assembly
- R0927 : Painttechnik R0927 3/8" High Pressure Fluid Filters-2 Set
- 50' x 1/4" HP Catalyst Hose
- 50' X 1/4" HP Resin Hose

### OPTIONAL:

- P0201: Painttechnik HI-FLUX 1:1 Transfer Pump-2 unit
- 1000KW 55-gallon Drum Heater-2 unit
- Painttechnik 0705-200L Agitator-2 unit
- GRACO Fusion CS External Mixing Gun
- Painttechnik Well-Mix External Mixing Gun

# PLURAL COMPONENT AIRLESS SPRAYER

## PF SERIES

# PF 100

Getting the “right and accurate” equipment is the most important consideration in coating PU foam and polyurea, or any 2K material. Painttechnik **PF series** can always be your solution by providing high power output with precision mixing ratio.



### Technical Data **PF100 50:1**

Air Motor Diameter	10-inch (KING)
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	250 cc
Maximum Recommended Pump Speed	60 cycles per min
Air Inlet Size	1/2 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
- Fluid Manifold
- Automatic Safety Pressure Relief
- Non Return Valve



# PLURAL COMPONENT AIRLESS SPRAYER

## PF SERIES

# PF70

Getting the “right and accurate” equipment is the most important consideration in coating PU foam and polyurea, or any 2K material. Painttechnik **PF series** can always be your solution by providing high power output with precision mixing ratio.



### Technical Data **PF70 25:1**

Air Motor Diameter	7-inch (FLASH)
Mix Ratio	1:1
Pressure Ratio	25:1
Maximum Fluid Working Pressure	207 bar (3000 psi)
Maximum Air Input Pressure	8.3 bar (120 psi)
Maximum Volume Flow Rate	13.5 LPM (3.5 GPM)
Volume Per Cycle	225 cc
Maximum Recommended Pump Speed	60 cycles per min
Air Inlet Size	1/2 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
- Fluid Manifold
- Automatic Safety Pressure Relief
- Non Return Valve

# SD100 SERIES SPECIFICATIONS

## SELECTION GUIDE

### 1. CHOOSE THE MIXING RATIO

The mixing ratio is usually set and conditioned by the materials 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 for the application. This is determined by material viscosity and setup parameters.



		SD100 1:1	SD100 2:1	SD100 3:1
<b>Model</b>	Air Motor Type	HULK 10-inch	HULK 10-inch	HULK 10-inch
	Displacement Pump A	LS085C - 1	LS085C - 2	LS113C - 2
	Displacement Pump B	LS085C - 1	LS085C - 1	LS073C - 1
	Model	Stainless Steel	Stainless Steel	Stainless Steel
<b>Specification</b>	Mix Ratio	1:1	2:1	3:1
	Pressure Ratio	68:1	45:1	40:1
	Maximum Fluid Working Pressure	469 bar (6800 psi)	310 bar (4500 psi)	276 bar (4000 psi)
	Maximum Air Input Pressure	6.9 bar (100 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
	Maximum Flow Rate	10.2 LPM (2.68 GPM)	15.2 LPM (4.0 GPM)	18.0 LPM (4.7 GPM)
	Volume Per Cycle	170 cc	253 cc	300 cc
	Air Inlet Size	3/4 pt	3/4 pt	3/4 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)

# SD70 SERIES SPECIFICATIONS

## SELECTION GUIDE

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



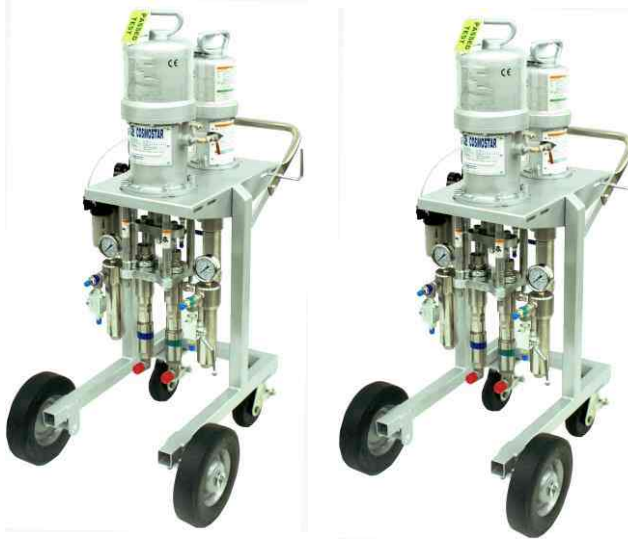
	SD70 1:1	SD70 2:1	SD70 3:1
<b>Model</b>			
Air Motor Type	FLASH 7-inch	FLASH 7-inch	FLASH 7-inch
Displacement Pump A	LS085C - 1	LS085C - 2	LS113C - 2
Displacement Pump B	LS085C - 1	LS085C - 1	LS073C - 1
Model	Stainless Steel	Stainless Steel	Stainless Steel
<b>Specification</b>			
Mix Ratio	1:1	2:1	3:1
Pressure Ratio	34:1	20:1	18:1
Maximum Fluid Working Pressure	281 bar (4080 psi)	166 bar (2400 psi)	149 bar (2160 psi)
Maximum Air Input Pressure	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
Maximum Flow Rate	10.2 LPM (2.68 GPM)	15.2 LPM (4.0 GPM)	18.0 LPM (4.7 GPM)
Volume Per Cycle	170 cc	253 cc	300 cc
Air Inlet Size	1/2 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)



# SD60 SERIES SPECIFICATIONS

## SELECTION GUIDE

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



	<b>SD60 1:1</b>	<b>SD60 1:1</b>
<b>Model</b>		
Air Motor Type	Compact 6-inch	Compact 6-inch
Displacement Pump A	LS037C - 1	LS062C - 1
Displacement Pump B	LS037C - 1	LS062C - 1
Model	Stainless Steel	Stainless Steel
<b>Specification</b>		
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)
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	3/8 pt	3/8 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)

# PF SERIES SPECIFICATIONS

### 3. CHOOSE YOUR DESIREABLE 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 or nozzle wear and pump or motor characteristics.



	PF100	PF70	PF70	
<b>Model</b>	Air Motor Type	KING 10-inch	FLASH 7-inch	FLASH 7-inch
	Displacement Pump A	LS113C - 1	LS113AC- 1	LS085C - 1
	Displacement Pump B	LS113C - 1	LS113C- 1	LS085C - 1
	Model	Stainless Steel	Stainless Steel	Stainless Steel
<b>Specification</b>	Mix Ratio	1:1	1:1	1:1
	Pressure Ratio	50:1	25:1	34:1
	Maximum Fluid Working Pressure	350 bar (5000 psi)	207 bar (3000 psi)	281 bar (4080 psi)
	Maximum Air Input Pressure	7.0 bar (100 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
	Maximum Volume Flow Rate	13.5 LPM (3.5 GPM)	13.5 LPM (3.5 GPM)	10.2 LPM (2.68 GPM)
	Volume Per Cycle	225 cc	225 cc	170 cc
	Maximum Recommended Pump Speed	60 cycles per min	60 cycles per min	60 cycles per min
	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)

# PF60 SERIES SPECIFICATIONS

## SELECTION GUIDE

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



		PF60 1:1	PF60 1:1
<b>Model</b>	Air Motor Type	Compact 6-inch	Compact 6-inch
	Displacement Pump A	LS037C - 1	LS062C - 1
	Displacement Pump B	LS037C - 1	LS062C - 1
	Model	Stainless Steel	Stainless Steel
<b>Specification</b>	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)
	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	3/8 pt (f)	3/8 pt (f)
	Fluid Inlet Size	3/4 pt (f)	3/4 pt (f)
	Fluid Outlet Size	1/4 pt (f)	1/4 pt (f)
	Maximum Operating Temperature	82°C (180°F)	82°C (180°F)



# ACCESSORIES

## ACCESSORIES FOR SD100 SERIES – 40:1, 45:1, 68:1

¼" High Pressure Fluid Filter	R0927
Air Motor 4-inch, Solvent Flush Pump, 23:1 Pressure Ratio	P1450A
Fluid Manifold	R0670
Static Mix Manifold	R2020
Airless Gun with Airless Gun with RAC Tip Adapter, with 519 Spray Tip	R2006
15' x 1/4" HP Whip Hose,	
50' X 1/4" HP Resin Hose	
50' X 1/4" Catalyst Hose	
50' X 1/4" HP Solvent Flush Hose	



## OPTIONAL ACCESSORIES

Feed Pump- High Pressure Pneumatic Transfer Pump:	
• Painttechnik ENCO 4 -INCH 5:1 Transfer Pump	P1302
• Painttechnik HI -FLUX 1:1 Transfer Pump	P0201
Heater, PAINT,240V/2300 W,9.6 AMP – 2 unit	R0350
Drum Heater, 1000KW 55 gallon – 2 unit	
Agitator, COSMOSTAR 0705 -200L – 2 unit	M0705

## ACCESSORIES FOR PF SERIES – PF60 12:1, PF70 25:1, 34:1

1/4" High Pressure Fluid Filters	R0926
Fluid Manifold	R0670
5000PSI -50' x 1/4" HP Catalyst Hose	
5000PSI -50' X 1/4" HP Resin Hose	



## OPTIONAL ACCESSORIES

Painttechnik HiFlux 1:1 Transfer Pump, 2 unit	P0201
Drum Heater, 1000KW 55 gallon	
Agitator, Painttechnik 0705 -200L	M0705
Graco Fusion CS External Mixing Gun	



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