IntelliFlow RF2
Automatic & Manual

One, Two, and Three-Component
Metering, Mixing, and Flow Control Proportioner

IntelliFlow: The next generation of intuitive, accurate, connected proportioning solutions

IntelliFlow products deliver advanced automation and ease of use drive efficiency, uptime, and optimization in your process.

- Large color touch screens with automated processes to reduce training time and operator error

- Cloud-based connectivity allows equipment to be monitored and troubleshot in real-time from anywhere

- Flexible, high-performance fluid components deliver superior ratio and flow accuracy

The IntelliFlow RF2 is designed to maximize process savings for almost any automatic applicator system, including static, reciprocator, flatline, and robot applications.

- Seamless integration with almost any new or existing process

- Capable of up to 100 colors and catalysts, and 3K operation

- Modular design to grow with your process

FEATURES

Best-in-Class Fluid Performance

- True closed-loop flow[1] and ratio control ensures the coating is mixed and metered correctly every time

- Proven dynamic mixing reduces paint and solvent waste during color changes

- Standard air-solvent chop reduces solvent use by up to 65%

- Critical components are designed for reliability and serviceability

- Fluid configurations available to meet the needs of low and high pressure coatings including solventborne, waterborne, electrostatic, and non-electrostatic

15" Color Touchscreen

- User-friendly interface

- Primary operation screen streamlines information

- Customization options to suit your process

- Visible alarms include instructional fixes directly on the screen, reducing troubleshooting time

- Automated common processes increase productivity and uptime

Seamless Connectivity and Integration

- Standard EtherNet/IP communication for seamless integration with PLC, robot, or SCADA system

- Remote operation via trigger signals, color change, flow rate, and ratio commands

- Cloud-based remote monitoring allows secure operation and diagnosis in real time

- Track and export data for process improvement and VOC reporting

[1]Automatic models only

RF2 Manual: Hand Spray Applications

Turn-Key Configurations:

The single part number configurations below include everything necessary to get up and running

All turn-key configurations include the following:

- 15" full-color touchscreen with EtherNet/IP communication
- Solenoids for up to 12 colors, 4 catalysts
- Solvent and Air Chop valves on color stack (except 1-color configurations)
- Solvent valves on catalyst stack (except 1-catalyst configurations)
- 2 high-resolution gear flowmeters
- Pulse valve ratio control
- Dynamic mix block (flushable on low pressure configurations)
- Wall mounting hardware
- 2-gun air cutoff kit
- Manual outlet regulator

Custom Configurations Also Available:

For applications requiring 3K, alternative flowmeters, color stacks, or any other needs, please reach out to Carlisle Fluid Technologies or your local authorized distributor for a quote

How to Select Your Turn-Key Configuration:

1. Select low or high pressure
2. Select the number of colors and catalysts. If your desired number of colors and catalysts is not listed: Order a 1-color, 1-catalyst configuration and order color stacks separately
3. Select material compatibility
4. Select additional kits and accessories

2K LOW PRESSURE 300 PSI (20 BAR)

# OF COLORS	# OF CATALYSTS	PART #
1*	1*	RF2-LM2-01-01-S
4	1	RF2-LM2-04-01-S
7	2	RF2-LM2-07-02-S
12	4	RF2-LM2-12-04-S

*Order low pressure color and catalyst stacks separately

2K HIGH PRESSURE 3,000 PSI (205 BAR)

# OF COLORS	# OF CATALYSTS	STANDARD MATERIALS PART #	ACID-CATALYST PART #
1*	1*	RF2-HM2-01-01-S	RF2-HM2-01-01-A

*Order high pressure color and catalyst stacks separately

RF2 Automatic: Automatic, Robot, or Hand Spray Applications

Turn-Key Configurations:

The single part number configurations below include everything necessary to get up and running

All turn-key configurations include the following:

- 15" full-color touchscreen with EtherNet/IP communication
- Solenoids for up to 12 colors, 4 catalysts
- Inlet pressure regulation
- Solvent and Air Chop valves on color stack (except 1-color configurations)
- Solvent valves on catalyst stack (except 1-catalyst configurations)
- 2 high-resolution gear flowmeters
- 2 closed-loop flow control regulators
- Flushable dynamic mix block
- Wall mounting hardware

Custom Configurations Also Available:

For applications requiring 3K, alternative flowmeters, flow control, color stacks, or any other needs, please reach out to Carlisle Fluid Technologies or your local authorized distributor for a quote

How to Select Your Turn-Key Configuration:

1. Select 1K or 2K
2. Select low or high pressure
3. Select the number of colors and catalysts. If your desired number of colors and catalysts is not listed: Order a 1-color, 1-catalyst configuration and order color stacks separately
4. Select material compatibility
5. Select additional kits and accessories

2K LOW PRESSURE 300 PSI (20 BAR)

# OF COLORS	# OF CATALYSTS	STANDARD MATERIALS PART #	ISOCYANATE MATERIALS PART #
1*	1*	RF2-LA2-01-01-S	RF2-LA2-01-01-C
4	1	RF2-LA2-04-01-S	RF2-LA2-04-01-C
7	2	RF2-LA2-07-02-S	RF2-LA2-07-02-C
12	4	RF2-LA2-12-04-S	RF2-LA2-12-04-C

*Order low pressure color and catalyst stacks separately

2K HIGH PRESSURE 3,000 PSI (205 BAR)

# OF COLORS	# OF CATALYSTS	STANDARD MATERIALS PART #	ACID-CATALYST PART #
1*	1*	RF2-HA2-01-01-S	RF2-HA2-01-01-A

*Order high pressure color and catalyst stacks separately

1K, 2 CHANNELS, LOW PRESSURE 300 PSI (20 BAR)

CHANNEL 1 COLORS	CHANNEL 2 COLORS	RF2 PART #
1*	1*	RF2-LA1-01-01-S

*Order color and catalyst stacks separately

RECOMMENDED ACCESSORIES

PART NUMBER	DESCRIPTION
310-2002	Floor Stand
HGB-510-R1-CO	HGB Inlet Pressure Regulator
CCV-51XX-XXX	Low Pressure Color Change Stack
240-35XX	High Pressure Color Change Stack
240-5202	Solvent Flowmeter Kit
240-5204	In-Booth Solvent Flowmeter Kit
310-8020	In-Booth Fluid Panel Kit 2 Channel Std
310-8021	In-Booth Fluid Panel Kit 3 Channel Std
310-8022	In-Booth Fluid Panel Kit 2 Channel Fiberoptic
310-8023	In-Booth Fluid Panel Kit 3 Channel Fiberoptic
310-8030	Screen Protector Kit
310-4170	Wi-Fi Module
240-5203	Remote Color Change Kit
310-3905-SS	Air Cutoff Kit, 2 Guns
HGB-609-9-R38	Manual Regulator, LP
84-420	Manual Regulator, HP
240-5205-1	Gun Flush Box Kit, 1 Gun
240-5205-2	Gun Flush Box Kit, 2 Gun
310-4143	Gateway, Profinet
310-4144	Gateway, DeviceNet
310-4145	Gateway, CC-Link
310-4146	Gateway, EtherCAT

Let's start a conversation

We want to work together to help answer your application challenges. To learn more about what we can offer, visit our website at **Carlisleft.com** or call us today.

TECHNICAL SPECIFICATIONS

Dimensions	32" x 28" x 69" (81 x 71 x 175 cm)
Weight	300 lbs (136 Kg)
Ambient Temperature	32-122 F (0-50 C)
Ambient Humidity	5%-85%
Power Requirements	100-240 VAC 50/60 Hz, single phase 2.8/1.4 amps
Sound Pressure	less than 70 dB
Sound Power	less than 85 dB
Working Air Pressure	75-105 psi (5 bar-7 bar)
Air Filtration Requirement	5 micron
Fluid Compatibility	Solventborne, waterborne, electrostatic, polyurethane, epoxy, isocyanate, acid-catalyst
Wetted Parts	Stainless steel, PTFE, perfluoro elastomer, UHMW, polyethylene
Resin Flowrate	10-3,500 cc/min
Hardener/Catalyst Flowrate	10-3,500 cc/min
3rd Component Flowrate	10-3,500 cc/min
Flowrate Accuracy	+/- 1%
Fluid Viscosity	10 to 3,000 cPs
Fluid Pressure	300 psi or 3,000 psi (20 bar or 205 bar)
Fluid Temperature	32-140 F (0-60 C)
Fluid Filtration Requirement	100 mesh minimum
Ratio Range	1:1 to 50:1
Ratio Accuracy	+/- 1%
Trigger Response	150 ms
Max Number of Colors	Up to 100
Max Number of Hardeners/ Catalysts	Up to 100
Max Number of 3rd Component	Up to 100
Max Number of Fluid Channels	8
Max Number of Recipes	250
Connectivity	Ethernet/IP standard ProfiNet, DeviceNet, CC-Link, EtherCAT available
Hazardous Area Rating	Class 1, Division 1, Group D, Temp T6 Zone 1, Group 2A, Temp T6 Ex II2G ib IIA T6
Intrinsically Safe Option	Yes

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