

# Thermal Barrier Machinery

## FILLAMETER™ SERIES 60 TRIPLE-HEAD PRODUCT INFORMATION

Metering – Mixing – Dispensing



## CORE FEATURES

Built with durable components, the Azon Fillameter™ Series 60 meters, mixes, and dispenses a two-part polyurethane polymer. The thermal barrier liquid is dispensed into the aluminum extrusion cavity for window, door, and curtain wall applications. The Fillameter is one part of the Azon Thermal Barrier Machinery line and is designed to work seamlessly with existing Azon machinery, such as the SN70 Lancer™, AZO-Brader™, SN25 Bridgemill™, and the Azon Conveyor System.



- **Tornado III Mixer**
- **Recipe Recall:** Set and recall job settings per extrusion, including chemical ratio, four axis mix head positioning, including lead and tilt angles, drive wheel repositioning, throughput speed, cavity size, SN70 Lancer wheel position and Lancer hold-up/hold-down positions
- **Electric Actuation:** Flow rate, mixing, drive wheels, and wheel positioning
- **Dual and Triple Heads:** Up to three heads for higher capacity and throughput
- **Inline Heating:** On-demand precise temperature control with the ability to raise chemical temperature by 27°F at max flow rate in one pass
- **Automatic Pump Wear Compensation:** to maintain ratio
- **Fume Exhaust System**
- **Throughput:** three filled cavities in one pass
- **Azon On-site Support:** Quarterly on-site technical maintenance
- **Azon Remote Support:** Ethernet VPN for remote monitoring and diagnostics

Core Features by Model	Fillameter HMI Model 55	Fillameter HMI Series 60 Dual or Triple Head
Tornado III Mixer	Yes	Yes
Dispensing Heads	1	1, 2 or 3
Total Flow Capacity	1.76 Gallons / Minute	1.3, 2.6 or 3.9 Gallons / Minute
Throughput Capacity	180 Feet / Minute	180 Feet / Minute
Human Machine Interface (HMI)	15" Proface w/WES 7 Installed	12" Allen-Bradley 5310
Recipe Recall	No	Yes
Maximum Extrusion Width	13.7"	15.6"
Maximum Extrusion Height	9.8"	10.63"
Machine Power	Electric and Hydraulic	100% Electric
Ratio Metering	Yes	Yes
Head Positioning Joystick	Yes	No
Energy Saver	No	Yes
Purge System	Yes	Yes
Inline Heating	No	Yes
Number of Tanks	2-3	3
Pump Options	Standard Pulley System	Programmable with Infinite Mix Ratios
Number of Cavities Filled in One Pass	1	2-3
Electric Actuation	Partial	Full
Dual Chemical Capability	No	Yes
Machine Footprint	<b>Fillameter:</b> 68" W x 81" L x 101"H <b>Tank:</b> 75" W x 59" L x 77"H	<b>Single and Dual Head:</b> 67" W x 131" L x 91.5" H <b>Triple Head:</b> 73" W x 148" L x 91.5" H
Automated Metering	Yes	Yes



## PRODUCT SPECS



**Dimensions:**

**Single and Dual Head:** 67" W x 131" L x 91.5" H **Triple Head:** 73" W x 148" L x 91.5" H

**Electrical Requirements:**

480/3/60Hz

**Maximum Extrusion Size:**

Width up to 15.6" (400mm) and height up to 10.63" (270mm)

**3 Head Flow Rate:**

1,040 in<sup>3</sup>/min at 77°F (350 in<sup>3</sup>/min/Head)

**Chemical Temperature Change at Maximum Flow Rate:**

Up to 27°F

**Environment:**

For Indoor Use

Ambient Operational Temperature 32°F – 122°F

**Max Drive Wheel Speed:**

180 ft/min

**Chemical System Max Pressure:**

41.4 bar (600psi)

**Compressed Air Supply Minimum Requirement:**

6.2 bar (90 psi)

### FILLAMETER THROUGHPUT SPEEDS FOR STANDARD AND CONCEPTUAL CAVITIES PER HEAD

Cavity Standard Designation	Area (in <sup>2</sup> )	Speed (Ft/min)		Conceptual Designation	Area (in <sup>2</sup> )	Speed (Ft/min)
AA	0.11	180		FF	0.433	67
BB	0.156	180		GG	0.464	63
CC	0.191	153		HH	0.372	78
DD	0.257	113		II	0.565	52
EE	0.309	94		JJ	1.272	23
				KK	2.261	13



## FILLAMETER HUMAN MACHINE INTERFACE (HMI) DISPLAY



The Fillameter HMI is equipped with a 12" Allen-Bradley 5310 touchscreen interface with a movable arm.

### THE FOLLOWING FUNCTIONS ARE CONTROLLED AND MONITORED THROUGH THE HMI:

- Recipe setup and recall
- Temperature set points
- Chemical ratios
- Heaters
- Level controls
- Drive wheel positions
- Drive wheel speed
- Chemical flow rate
- Mixer RPM
- SN70 Lancer wheel positions
- Lancer hold-up/hold-down positions
- Safety alarms
- Loading station, runout conveyer and transfer conveyer

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