

**TECHNICAL BULLETIN**

**SPECIFICATIONS: The PRIME-40™ – Thermal Fog Applicator**

MOTOR – PULSE JET	Kilowatt Horse Power (Hp) / Kilo-Calories per Hour.	18.0 Kw 24.1 Hp / 15,500 kcal/Hr
FUEL CONSUMPTION	At Maximum Power	1.2 lts/Hr
FUEL TANK CAPACITY	1.5 litres	
FUEL TANK PRESSURE	0.062 bar (0.90 psi)	
FUEL MANAGEMENT	Purpose Built Carburetor for Pulse Jet engines	NOVA-EZY Start™
TANK – MATERIAL	STAINLESS STEEL (EDP/Powder Coated option)	
FILTRATION	YES. Push-On quick fit for maintenance	SSTL Mesh with VITON Support
IGNITION	Buzzer Coil, 4 x 1.5 Volts D Cell Long Life Batteries	6 Volts for Ignition ONLY
FORMULATION TANK CAPACITY	5.0 litres – 3 Ports- Filler 90mm diam, Valve 64mm diam, Drainage 64mm diam.	9 litre Tank <b>Optional</b> (available late 2018)
FORMULATION TANK PRESSURE	0.25 bar (3.62 psi)	
TANK – MATERIAL	STAINLESS STEEL (EDP/Powder Coated option)	
FILTRATION	YES, Push-On quick fit for maintenance	SSTL Mesh with VITON Support
FLOW RATE - CONTROL	On/Off 3 Way Valve - Manual	SSTL
FLOW RATE - OUTPUT	Maximum Output	44 lts/Hr
SET FLOW RATE VALVES for WET-FOG / DRY-FOG Options	FSFR Valves, SSTL. Set of 8 Valves with #60 being Factory Fitted.	#20 = 5 lts/Hr, #28 = 10 lts/Hr, #37 = 16 lts/Hr, #42 = 21 lts/Hr, #47 = 26 lts/Hr, #47 = 26 lts/Hr, #50 = 31 lts/Hr, #55 = 37 lts/Hr, #60 = 44 lts/Hr
DROPLET RANGE *	Due to Density of Carrier Solution the 'fog' can be seen for considerable distances	50 - 75 metres

**\*Fog (Droplets) will be clearly visible for 25-30 or more metres. The actual distance the droplets travel will depend of many environmental factors – mainly wind/breeze velocity and ambient temperatures**

PARTICLE SIZE DIAMETER	Measured in microns (µm)	<5 – 30 µm
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**Droplet size is determined by Formulation (Solution) Flow Rate adjustments. High Flow Rate = larger droplets. Low Flow rate = smaller droplets.**

Material - Construction	BARREL Assembly - Engine Tube, Air Duct and Guards	Stainless Steel
	SUPPORT Stand	Stainless Steel
	PLUMBING – Delivery Lines and Fittings	Stainless Steel
	FLOW RATE Fittings	Stainless Steel
	FORMULATION and GASOLINE TANKS	Stainless Steel+Electrophoretic Deposition Coated (EPD) or Powder Coated
	“O” Ring material – Formulation Tank Caps	VITON
	CAPS	HDPE
Tank Opening Ports	YES – complying with W.H.O. Guidelines	Filler Port diam, > 90mm
	CARBURETOR	Aluminium, Cast
Shipping Dims		136.0cm x 31.0cm x 36.0cm
Volume (Packed)	Cubic Metres	0.15 m <sup>3</sup>
Weight (kgs)	Empty (kgs) / Filled (kgs)	8.4 kgs / 13.4 kgs
Warranty	Limited	24 Months

NOTE: The above Specifications are as described at the time of writing. PronixNova Ltd reserves the right to make Technical changes at any time without notice given.