

## **TECHNICAL BULLETIN:**

### **Key Features The CHIEF-700™ – Portable, Electric ULV Mister**

### **A Tough Workman's machine built for Heavy Duty Commercial Use**

#### **Key Features**

- **The CHIEF-700** is unique in terms of Care, Service and Maintenance
  - Minimal Service Tools are required (1 x Wrench, 1 x Screwdriver) to dis-assemble and re-assemble the entire machine - all Parts.
  - It is Field Strippable – pretty much BY HAND – of major components including All Electrical Replacement requirements. The CHIEF-700 can be dis-assembled and re-assembled by HAND.
    - Motor / Filter / Anti –Torque Block replacement – no Tools required.
    - Nozzle Replacement / Cleaning / Service – no Tools required.
    - Formulation Tank Replacement / Cleaning – no Tools required.
- **The CHIEF-700** is constructed with rugged with Chemically Resistant **High Grade Virgin HD Polyethylene**
- **The CHIEF-700** has::
  - a Powerful 700 Watt Samsung Motor
  - an anti-torque effect elimination assembly - with a purpose designed 'anti-torque' block and bracket preventing motor spin and twisted wiring.
  - an internal Heat Shield – dramatically reducing Air Friction Heat to Motor/ Nozzle Housing.
  - all-metal Liquid / Air Delivery Components – except for 2 External Flexible Nylon Liquid / Air Delivery Tubes.
  - all fittings are BRASS – no plastic bolts/nuts. Stainless Steel fittings are option
- **The CHIEF-700 features THREADED SCREW CAPS** – Closures ARE NOT secured with metal to plastic screws.
  - Screw Caps - **completely** eliminate any air pressure loss.
  - Screw Caps - have large Grip-Lugs for easy hand tightening.
  - Screw Caps - allow for ease of Field Servicing.
  - Screw-on Caps feature for:
    - (1) Motor within Housing containment.
    - (2) Securing Nozzle Diffuser and Nozzle Face Plate to Body.
    - (3) Securing Flow-Rate Control Adapter to Valve Port on Formulation Tank.
    - (4) Body and Formulation Tank union.
    - (5) "Dry Air" Hose Assembly with Built-In Clean Air Filter insert with washable filter,
    - (6) Securing Filler Cap to Formulation Tank
- **WORLD HEALTH ORGANIZATION (WHO)**  
**Formulation Tank Ports ALL compliant with WHO Guidelines – being a minimum of 90mm diameter.**

## Key Features cont.:

- **The CHIEF-700** has a:
  - Needle Valve Flow Rate Control incorporating Fixed Solution Flow Rate (FSFR) Valves.
  - Maximum Flow Rate Capacity: **0-60 litres per hour** with no Regulating valves attached.
  - To regulate flow a BRASS Set of 5A FSFR Valves\* is supplied for personal setting requirements.
    - #20 = 5lts/Hr
    - #28 = 10lts/Hr - this Valve is Factory set before shipping
    - #37 = 16lts/Hr
    - #42 = 21lts/Hr
    - #47 = 26lts/Hr
    - Additional Valve Orifice Sizes are optional & are available as a BRASS Set of 5B FSFR Valves\*
      - #50 = 31lts/Hr, #55 = 37 lts/Hr, #60 = 44lts/Hr, #65=50lts/Hr, #70 = 55lts/Hr
  - **\* Stainless Steel FSFR Valves are Optional**
  - Mechanical Tilt Control assembly – **not friction elevation** – therefore no slippage when wet or worn.
    - The Tilt Control is metal – **not plastic** - Elevation is set with a Secure Locator Pin.
  - Sturdy Metal Handle incorporated into Motor/Nozzle Housing Assembly bracket to distribute load.
  - Sturdy Metal Motor/Nozzle Housing Assembly Mounting Bracket – to Formulation Tank – secured to Formulation Tank with Grip Lug Screw-on Cap – interchangeable with Nozzle Cap
  - Formulation Pick-up Tube / Filter Assembly positioned to pick-up all Formulation within the Formulation Tank. Filter Assembly is Push-on with Stainless Steel Mesh secured with VITON filter housing
  - Filler Cap has a “marker pen” screen for Chemical Product and Rate recording – a mini ‘Whiteboard’.
  - 2.6m earthed Power Lead

### **The CHIEF-700 ‘NOVA-MIST’ Nozzle features:**

- 6 vane Spiral, HDPE Diffuser / Vortical Nozzle Assembly secured with a Grip Lug Screw-on Cap
- A Fully Replaceable Nozzle Face Plate – with built-in Air Bleed release.
  - Air Bleed assists to entrain the surrounding air for greater chemical dispersal.

### **The CHIEF-700 FORMULATION TANK is:**

- 6 litre capacity, with a Filler Port and Flow Rate Control Port.
- Interchangeable if required – 4lt, 6lt or 9lt are all interchangeable.
- Fully Compliant to **WHO Guidelines** with 90mm Filler and Valve Port apertures.
- Fitted with a ‘sacrificial’ Rubber Boot for Tank Base and Side protection.

### **THE CHIEF-700** has a:

- 24 month Limited Warranty