PART -3 : INTRODUCTION TO PORTABLE MISTER CUM DUSTER

16 - 28 October2016, Nanjing China

2nd Training of Trainers on ANTAM Codes
Organized by ANTAM and CAMTC
AN INTRODUCTION TO PORTABLE MISTERS CUM DUSTERS
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Knapsack Mister cum Duster

Different denominations:

Knapsack Mister cum Duster
Portable Mister cum Duster
Knapsack combustion-engine-driven mistblowers/dusters (ISO)
Knapsack Mister cum Duster

Portable, engine driven, mister and/or duster

Application of liquids, powders (pesticides, fertilizers) seeds broadcasting

Agriculture: Field crops

Health: Mosquito control,

Buildings: Desinsectization
Knapsack Mister cum Duster

Fuel tank
Engine
Shuttle lever
Throttle
Chemical tank lid
Chemical tank
Discharge port
Knapsack band
Shoulder pad
Cushion pad
Bent pipe
Screw clamp
Flexible pipe
Screw clamp
Pipe band
Swivel pipe
Screw clamp
Knapsack Mister cum Duster
Knapsack Mister cum Duster
Knapsack Mister cum Duster

Maruyama MD 165DX
Backpack Mist Blower

» Durable, lightweight & versatile; enable 8 hours nonstop heavy-duty application.

» Corrosion-resistant chemical tank and engine frame designed for superior durability and stability.

» One-Pull-Start with electronic ignition for accurate and quick starts with easy hand throttle system resulting in trouble-free maintenance.

» Compact engine & fan design for easy inspection & maintenance; minimum vibration and low noise for comfort during operation.

» Large and powerful blower capacity ensures wider coverage and uniform spray.

» Low fuel consumption for extended operating hours.

» Optional attached parts and nozzles are available for diversified application needs.

» Can be used as ULV spraying (with special nozzle-atomizer).
Knapsack Mister cum Duster

Maruyama MD 6080
Backpack Motorised Duster

» Multi-purpose for broadcasting dust and granular pesticides, fertilizer, seeds and aquatic food; as well as misting of liquid type chemicals and fertilizers with optional accessories.

» Light weight and compact design with minimum vibration and noise assuring comfortable operation.

» Corrosion-resistant chemical tank is easily switchable without the use of any tools.

» Proven engine and fan combination provides a dramatic boost in operating performance & superior durability.

» Comfortable S-Shape carrying mesh-type straps, easily adjustable and user friendly.

» Large and powerful turbo blower capacity. Releases large volume of air for wider area coverage with uniform spraying.

» Throwing distance of approximately 22 meters with high precision.

» With the use of 'Bena Pipe', the sprayer can be used to speedily control pest & disease outbreak at around 50 minutes/ha.
Knapsack Mister cum Duster

Maruyama MDJ 6026
Backpack Motorised Mist Duster

- Multi-purpose for broadcasting of dust and granular pesticides, fertilisers, seeds and aquatic food as well as misting of liquid type chemicals and fertilisers which are optional accessories.

- Lightweight and compact design with minimum vibration, assuring comfortable operation.

- Corrosion-resistant chemical tank is easily switchable without the use of any tools.

- MARUYAMA proven engine and fan combination provides a dramatic boost in operating performance & superior durability.

- Comfortable carrying straps that are easily adjustable and user friendly.

- Large and powerful blower capacity ensures wider area coverage with uniform spraying.

- Throwing distance of approximately 12 meters with high precision.

- With the use of 'Bena Pipe', the sprayer can be used to control pest & disease outbreak with high precision and fast results (50 minutes/ha).
# Knapsack Mister cum Duster

## MD6026

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>48.6 cc</td>
</tr>
<tr>
<td>12.5 kg</td>
</tr>
<tr>
<td>26 Lit tank</td>
</tr>
<tr>
<td>Standard application for dry chemical</td>
</tr>
<tr>
<td>Maximum range: 12m horizontal – vertical 8m</td>
</tr>
</tbody>
</table>

## MD180DX-30 Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (LxWxH)</td>
<td>410/475/720 mm</td>
</tr>
<tr>
<td>Dry Weight</td>
<td>11.7 kg</td>
</tr>
<tr>
<td>Engine</td>
<td>KAWASAKI TK65 (64.7cc)</td>
</tr>
<tr>
<td>Displacement</td>
<td>2.9 kw</td>
</tr>
<tr>
<td>Recoil Starter System</td>
<td>Standard</td>
</tr>
<tr>
<td>Spark Plug</td>
<td>NGK BPMR7A</td>
</tr>
<tr>
<td>Ignition System</td>
<td>C.D.I.</td>
</tr>
<tr>
<td>Chemical Tank</td>
<td>30 L</td>
</tr>
<tr>
<td>Max. Discharge Volume</td>
<td>3.8L/min</td>
</tr>
<tr>
<td>Mist Reach Distance (Horizontal)</td>
<td>14 m</td>
</tr>
<tr>
<td>Mist Reach Distance (Vertical)</td>
<td>11 m</td>
</tr>
<tr>
<td>Vibration Level (Grip Handle) *1</td>
<td>1.35 m/s²</td>
</tr>
<tr>
<td>Guaranteed Sound Power Level*2</td>
<td>74.7 dB(A)</td>
</tr>
</tbody>
</table>

*1 Vibration level on the throttle handle measured according to ANSI B175.2  
*2 Guaranteed sound power level EC directive 2000/14/EC, ISO11094
## Knapsack Mister cum Duster

<table>
<thead>
<tr>
<th>Item</th>
<th>MIST DUSTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>3WF-3A(20L/26L)</td>
</tr>
<tr>
<td>Motor type</td>
<td>1E40F-3</td>
</tr>
<tr>
<td>Max.power</td>
<td>2.13kw/7500r/min</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>20L / 26L</td>
</tr>
<tr>
<td>Spraying range</td>
<td>≥12m</td>
</tr>
<tr>
<td>Weight</td>
<td>11.5 / 12kgs</td>
</tr>
<tr>
<td>Size</td>
<td>53×44×80cm</td>
</tr>
</tbody>
</table>

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### Specifications

- **MODEL**: 3WF-700G
- **TANK CAPACITY (L)**: 20
- **RANGE (m)**: >16
- **MATCHED ENGINE**: 1E47F
- **DISPLACEMENT (cc)**: 59.2
- **STANDARD POWER (kw/r/min)**: 2.65/7500
- **FORM OF CARBURETOR**: CIRCULATION TYPE
- **MIXED FUEL RATIO**: 25:1
- **FUEL TANK CAPACITY (L)**: 1.8
- **WEIGHT (N.W./G.W.) (kg)**: 12.5/16.5
- **PACKING MEASUREMENT (mm)**: 500×440×780
# Knapsack Mister cum Duster

<table>
<thead>
<tr>
<th></th>
<th>ASPEE MB/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1.2 HP</td>
</tr>
<tr>
<td>Type</td>
<td>2 stroke</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>11.5 L</td>
</tr>
<tr>
<td>Misting range</td>
<td>-</td>
</tr>
<tr>
<td>Misting rate</td>
<td>-</td>
</tr>
<tr>
<td>Air speed</td>
<td>62 m/s</td>
</tr>
<tr>
<td>Air volume</td>
<td>8 m³/min</td>
</tr>
<tr>
<td>Weight</td>
<td>11.5 kg</td>
</tr>
</tbody>
</table>
Knapsack Mister cum Duster

1. Tank lid / Filler basket with filter
2. Formula tank
3. Formula outlet
4. Spark plug
5. Carburetor
6. Muffler
7. Starter handle
8. Air filter
9. Fuel tank cap
10. Fuel tank cap
11. Shoulder strap – quick coupling
12. Liquid tap
13. Spray tube
14. Spray nozzle
15. Dosage sleeve
16. Throttle lever
17. Fuel tap
18. Tank ventilation
Knapsack Mister cum Duster

FIG. 2: MODEL 18539 BAK-PAK® POWER MIST DUSTER

HUDSON, USA. Instructions