

# DUST FIGHTERS

## Spray Mist Systems



G-WIKI

**Nebulisation** is the process or act of converting some physical substance (water + additives) into the form of particles small and light enough to be carried on the air.

It refers to a process of converting and suspending particles or a composition in a moving stream of air for the purpose of delivering the particles (i.e. mist water) to a particular location or area.



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*“Better Being With Brooks”*

# DUST FIGHTERS: *GENERAL GUIDELINES*

Generac Mobile's Dust Fighter range is composed by many different nebuliser units which provide our users and customers, with solutions based on application and size of area which requires coverage. The dust suppression systems under traditional conditions of use, are suitable for a variety of applications such as demolition works, mining, odor suppression in waste dumps and recycling depots, aggregate production, environmental repairs and much more.

## **Latest application example:**

During the period of development and enlargement of the corona virus pandemic, also known as Covid19, many of our customers started to use our Dust Fighters to nebulise at a wide distance high solutions of water and various sanitizing substances in order to sanitise various public areas such as: roads, sidewalks, pedestrian paths, hospital entrances and emergency rooms, just to name a few cases.



# DUST FIGHTERS: SOME TRADITIONAL DUST SUPPRESSION WAY



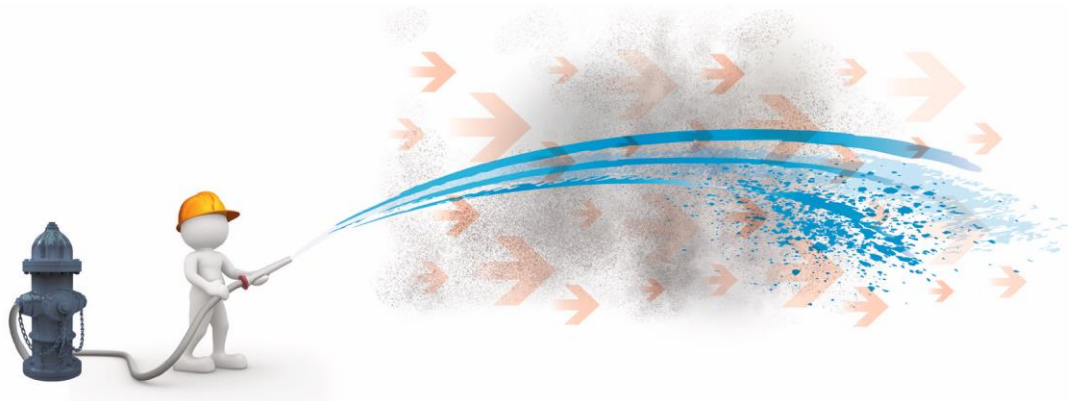
**DUST CAN BE HIGHLY HARMFUL**



# DUST FIGHTERS: HOW THE SYSTEM WORKS



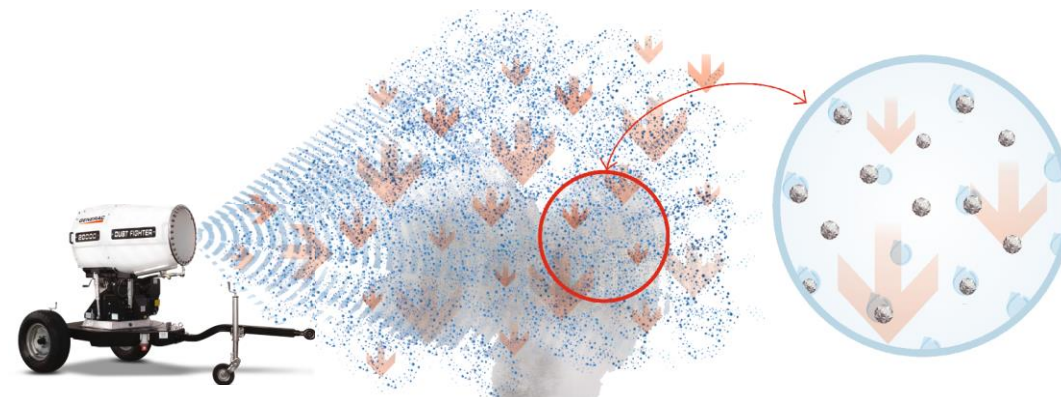
## TRADITIONAL



Using a traditional dust suppression system through a water hose, you can obtain water particles with a 1000 micron average diameter: these particles are not able to catch dust particles that have a 80 micron diameter instead. Moreover, the water flow passes through the dust cloud without covering it completely.



## DUST FIGHTERS



Nebulised water mixed with chemical or disinfectants, produces particles that have a 50-150 micron diameter: they can easily combine themselves with dust, humidity or particles that are suspended in the air or on flat surfaces and drag them to the ground.

# DUST FIGHTERS: ADVANTAGES OF THE DUST FIGHTER SYSTEM

- Eliminates private costs used to manual water spray the job site with a water tank-truck, since is totally automatic, for a fast return on the investment.
- Eliminates mud problems, by emitting only the water necessary to eliminate dust. Guarantees the highest rating on public and private bids.
- Uses only a small fraction of the water employed by traditional irrigation systems.
- Has a strong impact on public health and environmental control agencies (i.e. public sanitization)
- Creates a cooler work environment as the water evaporates it decreases the outside temperature by up to 4°C.
- The machine can be easily installed on any transport vehicles



# DUST FIGHTERS: *GENERAL BENEFITS*



Dust Fighter is not just the best solution to reduce the dust, it is an ***environmental friendly solution***.

**The traditional systems** used during the demolitions can consume huge amount of water, even up to **300 - 350 l/m**.

With Generac Mobile's **Dust Fighters** you just have a water consumption of approx. **12 to 120 l/m** depending by chosen models.

In a nutshell, this means:

- Lower water consumptions***
- Better results***
- Better efficiency***
- Respect of the natural resources***
- SAVING MONEY**



# DUST FIGHTERS: *EASY TO USE AND PUT IN PLACE*

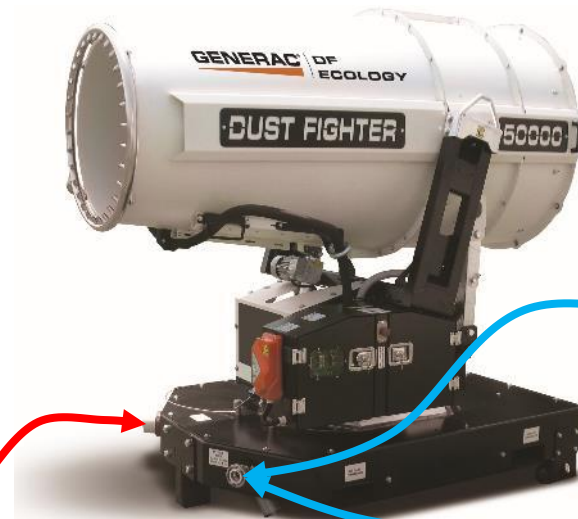
Dust Fighter is born as the Solution for all working environment where you need to reduce dust and odors.

## **POWER SUPPLY:**

- from a Generating Set
- from the Electrical Main



It's  
**EASY**



## **WATER SUPPLY:**

or from the Public Water Net  
or from a Mobile Water Tank



**Minimum Water pressure  
approx. 1.5 bar**

# DUST FIGHTERS: GENERAL LINE-UP

WIDE RANGE OF AVAILABLE MODELS, FOR ANY KIND OF APPLICATION



**DF Mini**

- Horizontal range: from 5 to 8 m
- Water tank: 70 L
- Running time with water tank: from 80' to 318'
- Hand trolley
- Ideal for small indoor jobs



**DF Smart**

- Horizontal range: 13 m
- Mains powered equipment
- Water consumption: from 5.4 to 12 L/min
- Tilting: +10° / +50°
- Hand trolley
- Ideal for small outdoor jobs



**DF Smart All In One**

- Horizontal range: 13 m
- Mains powered equipment
- Water consumption: 7 L/min
- Rotation: 100° / Tilting: +10° / +50°
- Water tank: 1000 L
- Ideal for sanification jobs



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**DF 500**



**DF 110000**

## COMPACT SIZE LINE-UP

## AUTONOMUS LINE-UP



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DUST FIGHTERS



**DF Mini**

- Horizontal range: from 5 to 8 m
- Water tank: 70 L
- Running time with water tank: from 80' to 318'
- Hand trolley
- Ideal for small indoor jobs



**DF 7500 - DF 15000 - DF 20000**

- Horizontal range: 40/50/60 m
- Vertical range: 16/20/24 m
- Max. covered area: 4600/7190/10355 m<sup>2</sup>
- Water consumption: 52/60/70 L/min
- Rotation: 335° / Tilting: +0° / +40°



**DF Smart**

- Horizontal range: 13 m
- Mains powered equipment
- Water consumption: from 5.4 to 12 L/min
- Tilting: +10° / +50°
- Hand trolley
- Ideal for small outdoor jobs



**DF 50000**

- Horizontal range: 80 m
- Vertical range: 32 m
- Max. covered area: 20000 m<sup>2</sup>
- Water consumption: 125 L/min
- Rotation: 340° / Tilting: +0° / +35°



**DF Smart All In One**

- Horizontal range: 13 m
- Mains powered equipment
- Water consumption: 7 L/min
- Rotation: 100° / Tilting: +10° / +50°
- Water tank: 1000 L
- Ideal for sanification jobs



**DF 110000**

- Horizontal range: 120 m
- Vertical range: 40 m
- Max. covered area: 45000 m<sup>2</sup>
- Water consumption: from 150 to 315 L/min
- Rotation: 320° / Tilting: +0° / +40°



**PowerJet 30**

- Horizontal range: 30 m
- Built-in diesel engine: 6.2 kW
- High pressure pump
- Water consumption: from 44 to 50 L/min
- Rotation: 90° / Tilting: +0° / +40°
- Hand trolley



**DF 3000 MPT**

- Horizontal range: 20 m
- Water consumption: 6.25 L/min
- Tilting: -30° / +10°
- Water tank: 1000 L
- Generating set: 3.7 kW



## MEDIUM SIZE LINE-UP

Version on optional trailer



# COMPACT LINE-UP: *THE RANGE*



## COMPACT SIZE LINE-UP

DF MINI  
DF SMART  
DF SMART ALL IN ONE

The range of compact DFs will offer a wide range of applications to our customers. They can be used both indoors (DF MINI) and outdoors (DF SMART). They are easy to transport, therefore also easy to install on light size vehicles (pickups and small trucks). They are increasingly used for sanitation in small environments where space does not allow movement with large vehicles.

# COMPACT LINE-UP: TECHNICAL CHARACTERISTIC

## DF MINI: PASSIVE FLOW (NO FAN)

- Stainless steel 70 L water tank
- Three interchangeable type of nozzles for different coverages
- Wheels and handles for transport
- High pressure pump
- Signal for low water level
- Adjustable for an easy transport
- Manually adjustable nozzles spray angle
- Pump: 230 V - 50 Hz - 2.6 A - 0.55 kW - 100 bar
- Nozzle spray angle: +80°/+150°
- Tilting head: +15°/+25°
- Spray distances options:
  - Mode1 (opt.): 8m | Running time: 1 h 20'
  - Mode2 (std.): 7m | Running time: 2 h 25'
  - Mode3 (opt.): 5m | Running time: 5 h 18'



DF MINI

**DF MINI:** unique in its kind, not being equipped with a push fan, is recommended for indoor use and for applications in quiet areas. The tank is entirely made in stainless steel.

Helpful  
Tips

## DF SMART: COMPACT AND POWERFUL

- Wheels and handles for transport
- Stainless steel crown with nozzles
- Water inlet filter
- Emergency stop button
- Manual tilting
- Water connection: express type ½" quick connection
- Electric motor: 2.2 kW - Single-phase - 230 V – 50/60 Hz
- Water consumption: from 5.4 to 12 l/min
- Max. horizontal range: 13m
- Air flow: 90 m<sup>3</sup>/min



DF SMART

### Available Options:

- 10 m electrical cable with Schuko plug
- Plastic box for documents
- 110V kit

# COMPACT LINE-UP: SANITIZATION AND NOT ONLY

## DF SMART | ALL IN ONE



Booster Pump

220V E/C

DF  
SMART

MANUAL  
SWING

Refilling Q/C

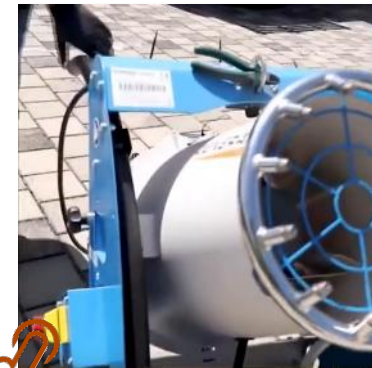
Water Tank

Palletized Tank

The compact line has recently been used in sanitation campaigns in various regions of the world. Here on the right a special ready-to-use application (Pump+Tank+DFSMART) while here under two application videos that will give clear examples of how these products are used by our customers.

### Recent application videos:

Medellin / Colombia



Milan / Italy



# COMPACT LINE-UP: APPLICATIONS

*Recycling Plasterboard*



*Civil Demolitions*



*Crushing Plants*



*Indoor Demolition*



# MEDIUM LINE-UP: *THE RANGE*



DF 4500



DF 20000 on low-speed trailer



DF 20000 on base

## MEDIUM SIZE LINE-UP

- DF 4500
- DF 7500
- DF 15000
- DF 20000

The range of medium Dust Fighters is by far the most requested and sold all over the world: this DF line guarantees high nebulization capacity along with compact dimensions. This range of products is easy to move thanks to the wheels but also simply installable on trucks or pick-ups, with the available “on base” configuration.

# MEDIUM LINE-UP: DF4500 - TECHNICAL DATA

## DF4500: COMPACT YET POWERFUL

- Integrated control panel
- Phase inverter
- Pump with peripheral impeller
- Flowmeter for pump protection
- Pressure gauge for outlet pressure reading
- Stainless steel crown with nozzles
- Water drain system
- Low speed trailer with drawbar
- Two wheels and jockey wheel
- Forklift pockets
- Four height adjustable stabilizers
- Manual rotation
- Electric tilting



TECHNICAL DATA		DF 4500
Electrical engine power (kW)		4
Smallest generator required		Three-phase - 7.9 kW
Max. horizontal range (m)	Without wind	20 - 30
Max. vertical range (m)	Without wind	12
Max. covered area (m <sup>2</sup> )	With rotation on	2590
Electrical connection	Inlet plug	Three-phase socket - 32 A
Water connection	Available plugs	UNI 45 / STORZ / CAMLOCK
Inlet pressure (bar)	Min. / Max.	1 / 4
Water consumption (L/min)		22 L/min
Water inlet filter (µm)		170
Rotation angle (°)		330
Tilting angle (°)	Min. / Max.	-20 / +40
Dimensions (mm)	Length x Width x Height	1780 x 1165 x 1800
Weight (kg)		290

**DF4500:** compact and versatile, offers high mobility thanks to the trolley and side loading pockets, and is entirely made of powder-coated steel. All controls are easily accessible and user-friendly.



# MEDIUM LINE-UP: DF7500 - DF15000 - DF20000 - TECHNICAL DATA

## DF7500 | DF15000 | DF20000: THE BEST SELLERS

### Powerful

- Booster pump with peripheral impeller
- Flowmeter for pump protection
- Pressure gauge for outlet pressure reading

### Durable Design

- Stainless steel crown
- Powder coat finish

### Easy to Use

- Integrated control panel
- Remote control (Opt.)
- Automatic oscillation system
- Motorized tilting: 10-50° (Opt.)

### Versatile

- Adjustable angle and rotation
- Skid mount or trailer option



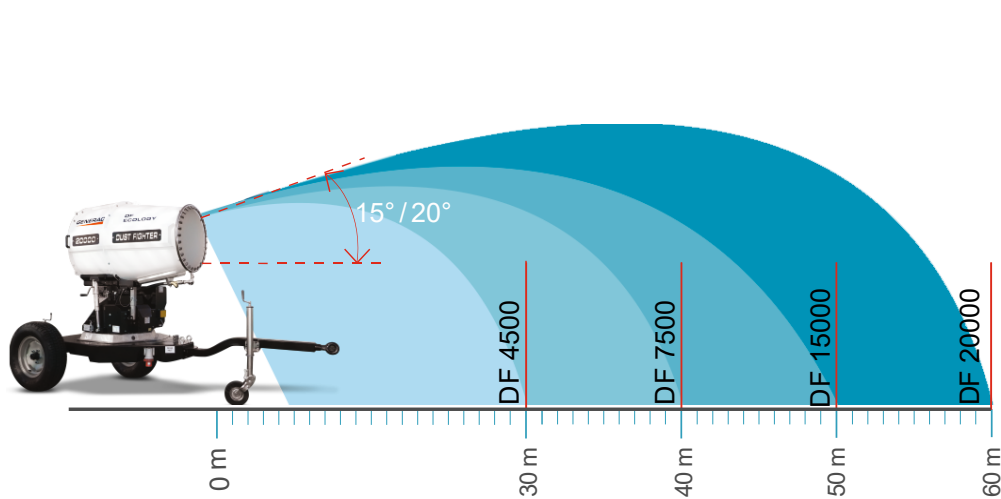
DF20000 – Trailer mounted

		DF 7500	DF 15000	DF 20000
<b>TECHNICAL DATA</b>				
Electrical engine power		7.5	15	20
Smallest generator		Three-phase - 20 kW	Three-phase - 35 kW	Three-phase - 50 kW
Max. horizontal range (m)	Without wind	30 - 40	40 - 50	50 - 60
Max. vertical range (m)	Without wind	16	20	24
Max. covered area (m <sup>2</sup> )	With rotation on	4800	7190	10355
Electrical connection	Inlet plug	3 phase - 32 A	3 phase - 32 A	3 phase - 63 A
Water connection	Available plugs	UNI 45 / STORZ	UNI 45 / STORZ	UNI 45 / STORZ
Min. inlet pressure (bar)		1	1	1
Water consumption		52	60	70
Water inlet filter (µm)		180	180	180
Rotation angle (°)		335	335	335
Tilting angle (°)	Min. / Max.	+0° / +40°	+0° / +40°	+0° / +40°
Dimensions (cm)	Length x Width x	330 x 183 x 218	330 x 183 x 218	330 x 183 x 218
Weight (kg)		760	810	850

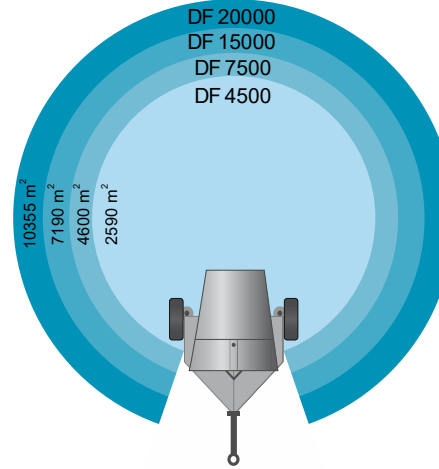
The almost total absence of plastic materials makes our product very resistant and suitable for continuous and repeated use in many applications.



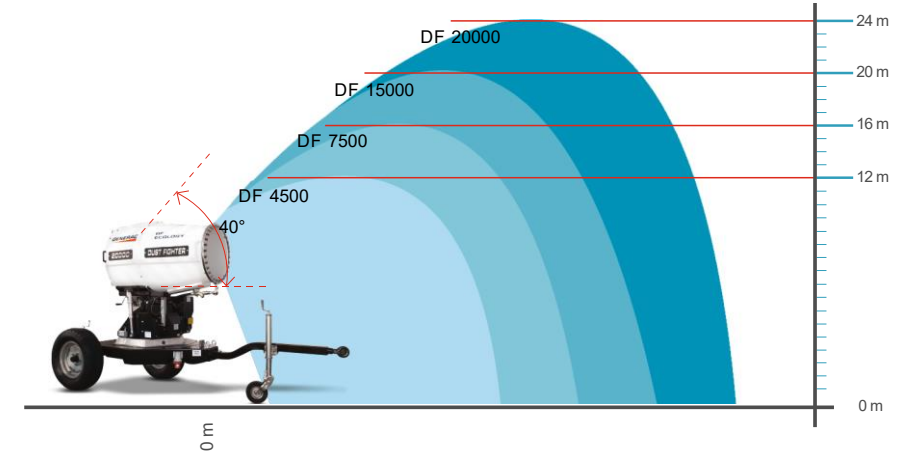
# MEDIUM LINE-UP: DF7500 | DF15000 | DF20000 - TECHNICAL DATA



MAXIMUM HORIZONTAL RANGE



ROTATION ANGLE



MAXIMUM VERTICAL RANGE

## STANDARD VERSION:

- Integrated control panel
- Phase inverter
- Pump with peripheral impeller
- Flowmeter for pump protection
- Pressure gauge for outlet pressure reading
- Stainless steel crown with nozzles
- Water drain system
- Equipped with two wheels, tow bar and forklift pockets
- Two height adjustable stabilizers

## OPTIONS AVAILABLE:

- Remote control
- Road trailer type CM (adjustable)
- Documents for road registration (EU)
- Automatic rotation
- Electric tilting
- Dosing pump for chemical additives
- Water supply pump
- Side forklift pockets (for low-speed trailer only)
- Ball or eyelet hitch



# LARGE SIZE LINE-UP: *DF50000* | *DF110000*



## LARGE SIZE LINE-UP

DF 50000  
DF 110000

This range of Dust Fighters, are Generac Mobile's high-end products with high atomisation jet up to more than 120 horizontal meters. The models are normally offered on base and not on trolley as for the medium range and have high requirements in terms of water and electricity.

# LARGE LINE-UP: DF50000 - TECHNICAL DATA

## DF50000

### Standard Integrated control panel

- Phase inverter
- Pump with peripheral impeller
- Flowmeter for pump protection
- Pressure gauge for outlet pressure reading
- Stainless steel crown with nozzles
- Water drain system
- Installed on base with forklift pockets
- Automatic rotation
- Electric tilting
- Remote control

### Options:

- Low speed trailer (no brakes)
- Dosing pump for chemical additives
- Water supply pump
- Customized colour (RAL)



DF 500

TECHNICAL DATA		
Electrical engine power (kW)		45
Smallest generator required		Three-phase
Max. horizontal range (m)	Without wind	70 - 80
Max. vertical range (m)	Without wind	32
Max. covered area (m <sup>2</sup> )	With rotation on	20000
Electrical connection	Inlet plug	Three-phase
Water connection	Available plugs	UNI 45 / STORZ
Min. inlet pressure (bar)		1
Water consumption (L/min)		125
Water inlet filter (µm)		180
Rotation angle (°)		340
Tilting angle (°)	Min. / Max.	+0 / +30
Dimensions (mm)	Length x Width x Height	2270 x 1450 x 1410
Weight (kg)		1410



# LARGE LINE-UP: DF110000 - TECHNICAL DATA

## DF110000

### Standard Equipment

- Control panel on separated electrical cabinet
- Integrated multistage water pump
- Flowmeter for pump protection
- Pressure gauge for outlet pressure reading
- Double stainless-steel crown with nozzles
- Water drain system
- Installed on base with forklift pockets
- Automatic rotation
- Electric tilting
- Remote control



### Options:

- Dosing pump for chemical additives
- Water supply pump
- Customized colour (RAL)

### TECHNICAL DATA

Electrical engine power (kW)		(kW)	
Smallest generator required		ired	
Max. horizontal range (m)	Without wind	n)	Without wind
Max. vertical range (m)	Without wind		Without wind
Max. covered area (m <sup>2</sup> )	With rotation on		With rotation on
Water connection	Available plugs		Available plugs
Min. inlet pressure (bar)			
Water consumption (L/min)		in)	
Water inlet filter (µm)			
Rotation angle (°)			
Tilting angle (°)	Min. / Max.		Min. / Max.
Main unit dimensions (mm)	Length x Width x Height	m)	Length x Width x Height
Electrical cabinet dimensions (mm)	Length x Width x Height	sions (mm)	Length x Width x Height
Main unit weight (kg)			
Electrical cabinet weight (kg)		(kg)	



# AUTONOMOUS LINE: POWERJET - DF3000MPT - DF7500MPT



POWER JET



DF 3000 MPT on trailer



DF 3000 MPT on base



DF 7500 MPT on trailer

## AUTONOMOUS LINE-UP

POWER JET  
DF 3000 MPT  
DF 7500 MPT

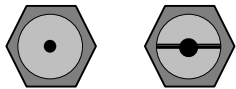
This is an express line designed for mobility, for towing on site or on the road (with approved trolleys offered as an option). The MPT kit offers all together the best features: high performance spray heads, built-in power generators and large tanks for pre-mixed water with disinfectant elements. All in one solution. Total flexibility.

# AUTONOMOUS LINE: POWERJET - TECHNICAL DATA

## POWER JET: EASY TO MOVE, COMPACT & MIGHTY

- Integrated control panel
- Spray head with two nozzles
- High pressure pump coupled with engine
- Protection against running dry pump
- Nozzle pressure gauge
- Water drain tap
- Inlet water filtration system
- Hand trolley
- Forklift pockets on 3 sides
- Central lifting eye
- Manual rotation
- Manual tilting

TECHNICAL DATA		PowerJet 30
Max. horizontal range (m)	Without wind	30
Water connection	Inlet plug	UNI 45 / STORZ / CAMLOCK
Max. inlet pressure allowed (bar)		6
Water consumption (L/min)	Min. / Max.	44 / 50
Water inlet filter (µm)		170
Rotation angle (°)		90
Tilting angle (°)	Min. / Max.	+0 / +40
Diesel engine		Yanmar L100N V6 (1-cyl. - Air cooled - Stage V)
Engine speed (RPM)	Min. / Max.	2900 / 3100
Fuel tank (litres)		5.4
Running time (h)	@ 2900 RPM	3
Avg. noise pressure level	dB(A) @ 7 m	87
Transport dimensions (mm)	Length x Width x Height	1291 x 990 x 1072
Work dimensions (mm)	Length x Width x Height	1605 x 990 x 1563
Dry weight (kg)		210



Dual nozzle spray head



Integrated diesel engine



Wheels and forklift pockets



# AUTONOMOUS LINE: DF3000MPT - TECHNICAL DATA

## DF3000MPT: TOWABLE WITH LARGE AUTONOMY

- Telescopic vertical mast (max. height: 4m)
- 1000 liters plastic water tank
- 3.7 kW - 230 V integrated generating set
- Integrated control panel
- Stainless steel crown with nozzles
- Nebulizer cone foldable for shipment
- Telescopic mast with double crank winch
- Water Supply network connections
- Main Electricity network connections
- High pressure washer connection
- Water drain system



Spraying head with fan



TECHNICAL DATA		DF 3000 MPT
Electrical engine power (kW)		2.2
Integrated generating set		3.7 kW - 230 V - Yanmar L70N
Max. horizontal range (m)	Without wind	20
Max. covered area (m <sup>2</sup> )	With rotation	1170
Running time (min)		160
Fuel tank capacity (L)		18
Water tank capacity (L)		1000
Water consumption (L/min)		6.25
Water inlet filter (µm)		170
Rotation angle (°)		335
Tilting angle (°)	Min. / Max.	-30 / +10
Dimensions on base (mm)	L x W x H (min./max.)	2374 x 1210 x 2230/3920
Dimensions on road trailer* (mm)	L x W x H (min./max.)	3920 x 2015 x 2780/4470
Dry weight on base (mm)		490
Dry weight on road trailer* (kg)		840

Integrated 3,7kW Diesel Genset



1000 liters water tank



# AUTONOMOUS LINE: DF7500MPT - TECHNICAL DATA

## DF7500MT: THE REAL ALL IN ONE SOLUTION

- 2000 liters water tank, 100% stainless steel
- 17 kW integrated generating set
- Installed on base with forklift pockets
- Integrated control panel
- Two pumps with peripheral impellers
- Flowmeter for pump protection
- Pressure gauge for outlet pressure reading
- Stainless steel crown with nozzles
- Water drain system
- Four height adjustable stabilizers
- Automatic rotation
- Electric tilting
- Remote control



### DF 7500 MPT

TECHNICAL DATA		
Electrical engine power (kW)		7.5
Integrated generating set		Diesel engine - 17 kW - 400 V - 1500 RPM - 50 Hz
Max. horizontal range (m)	Without wind	30 - 40
Max. vertical range (m)	Without wind	17
Max. covered area (m <sup>2</sup> )	With rotation on	4600
Running time (min)	1 pump / 2 pumps	85 (@ 6 bar) / 60 (@ 12 bar)
Fuel tank capacity (L)		85
Water tank capacity (L)		2000
Water consumption (L/min)	1 pump / 2 pumps	23 (@ 6 bar) / 35 (@ 12 bar)
Water inlet filter (µm)		180
Rotation angle (°)		335
Tilting angle (°)	Min. / Max.	+0 / +40
Dimensions on base (mm)	Length x Width x Height	3180 x 1820 x 2215
Dimensions on trailer (mm)	Length x Width x Height	4450 x 2240 x 2640
Dry weight on base (kg)		2070
Dry weight on trailer (kg)		2450

**DF 7500 MPT** is entirely made of high quality steel, powder coated to ensure maximum resistance to rust and corrosion. This construction allows the operator to easily sanitize our Dust Fighters after use by means of pressure washer.



# AUTONOMOUS LINE: DF7500MPT - FUNDAMENTALS

Nebulizer head model DF 7500 with maximum horizontal range of 40m

Integrated "tilting" system for vertical adjustment

Automatic rotation on the motorized Y-axis

Water tank integrated in the base, with 2000 liters of capacity

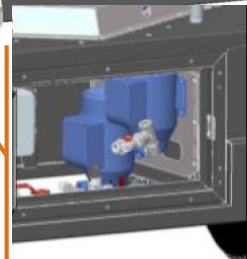
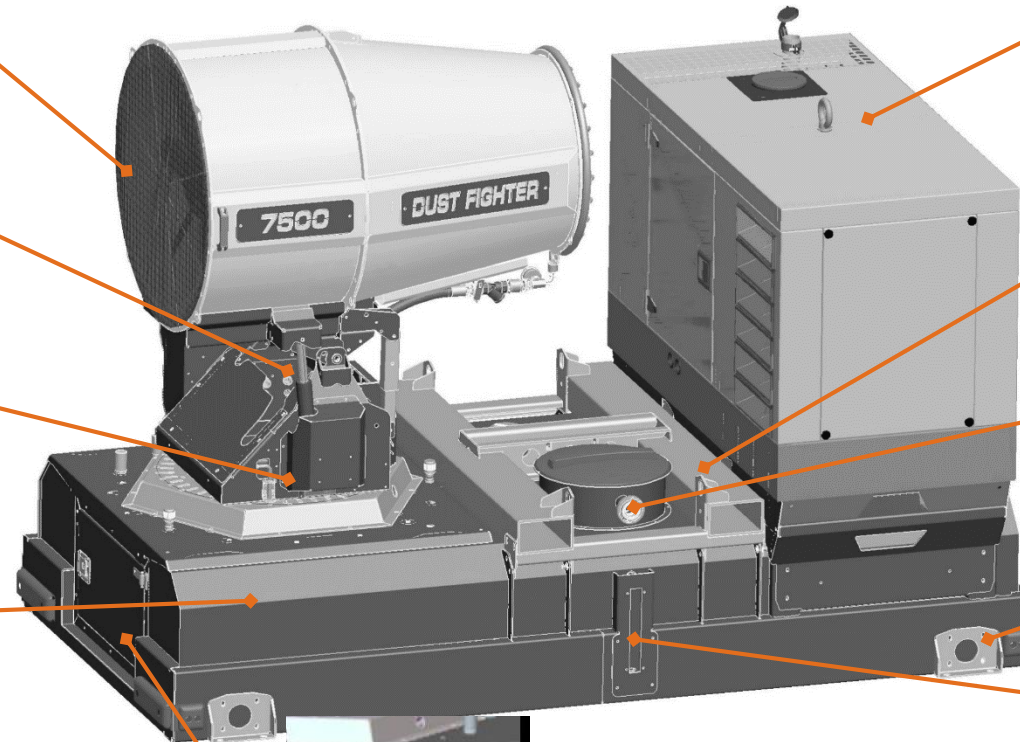
17kW Diesel Genset with autonomy of more than 17 hours. Available at 400V/110V or 400V/230V

Integrated loading and unloading fork pockets

Large water inlet, with STORZ coupling or via the large screw-on lid.

Built-in hooks for cranes lifting.

Visual water level indicator



Filters and water pumps are easily accessible for maintenance



# APPLICATION PHOTOS





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**BROOKS HIRE**

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