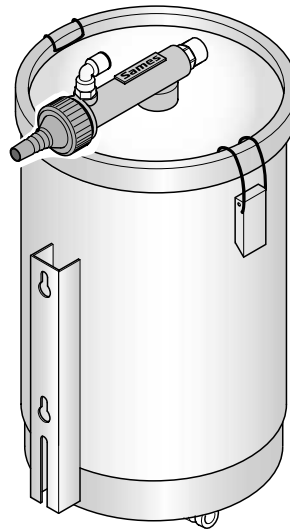




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DES03158

# User manual

## CSV 137 Powder Distribution Tank

FRANCE

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# CSV 137 Powder Distribution Tank

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**IMPORTANT:** This document contains links to the following user manuals:  
For all information concerning the **CS 127 powder pump** [see RT Nr 6368](#).

## 1. Safety regulations



**IMPORTANT:** The **CSV 137 tank** is designed to store powdered paint only.  
This equipment may be dangerous if it is not used in compliance with the safety regulations specified in this manual (cf. articles R233-140 to R233-150 of the Labour Code, concerning painting and powder-coating booths).

- All conducting structures such as floors, walls of the powder-spraying booth, ceilings, barriers, parts to be painted, powder distribution tank, etc., that are near the work station and the earth terminal on the electro-pneumatic control module must be connected to the ground system protecting the electrical power supply.
- It is essential to ground the tank.

Operating temperature range: From 0° °C to 40° °C (32° °F to 104° °F).

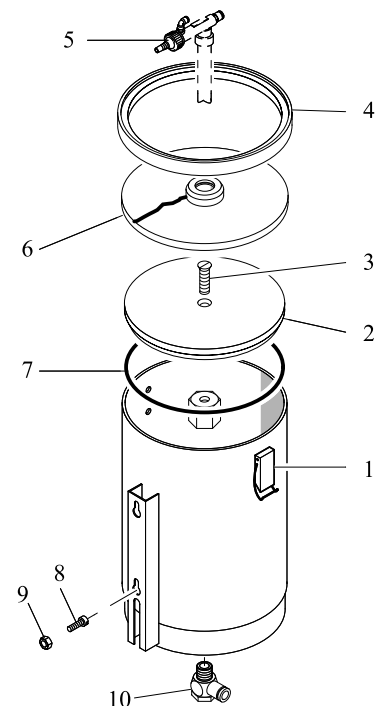
## 2. Description

### 2.1. General description

The **CSV 137** mini-tank principally consists of the following elements:

- A tank body (1) equipped with quick fasteners.
- A fluidisation plate (2) fixed to the bottom of the tank body by a screw (3). Leaktightness between the tank body and the fluidisation plate is guaranteed by a seal (7).
- An outlet plate (6) through which a CS 127 powder pump (5), intended to draw up the powder, is fitted.
- A cover (4) holding the outlet plate in place.
- "Fluidisation" air is supplied to the tank via a banjo union (10).
- A cover (4) holding the outlet plate in place.

The **CSV 137** tank may be fixed using screws (8) and nuts (9).

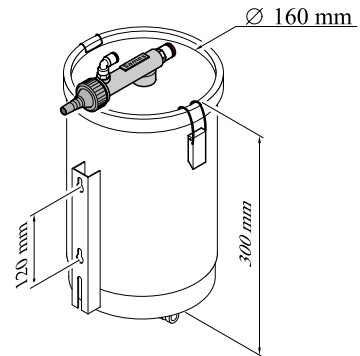


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## 2.2. Characteristics

### 2.2.1. General characteristics

- Capacity of the **CSV 137** tank: 5 litres (or approximately 2.5 kg of fluidised powder).
- Weight of the **CSV 137** tank: 1.650 kg.
- Dimensions: 31 x 31 x 33 cm.



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### 2.2.2. Pneumatic characteristics

Characteristic	Value
"Fluidisation" air pressure	1 bar (15 psi).
Characteristics of the compressed air according to standard NF ISO 8573-1:	
Maximum dew point at 6 bar (90 psi).	Class 4, that is to say +3°C (+38°F).
Maximum particle-size of solid pollutants:	Class 3, that is to say 5 microns.
Maximum oil concentration:	Class 1, that is to say 0.01 mg/m <sub>0</sub> <sup>3</sup> (*).
Maximum concentration of solid pollutants:	Class 3, that is to say 5 mg/m <sub>0</sub> <sup>3</sup> (*).

- Flow rate of "fluidisation" air: Negligible (approximately 0.05 m<sub>0</sub><sup>3</sup>/h).
- Flow rate of "driving" air: 6 m<sub>0</sub><sup>3</sup>/h.

**m<sub>0</sub><sup>3</sup>: Volumic flow at normal atmospheric pressure (1,013 mbar) and at a temperature of 0° °C (32°F).**

## 3. Operating principle

The powdered paint is contained in the tank in which it is fluidised by means of a flow of air rising from its porous bottom.

It is then driven by an air jet from the powder pump to the spray gun to which it is connected by a powder-carrying hose.

## 4. Maintenance

### 4.1. Maintenance and periodic checks



**IMPORTANT: Use an air jet, a cloth or possibly a brush for all cleaning operations. Water must never be used to clean the equipment.**

Clean the tank each time the powder colour is changed.

#### 4.2. Disassembly - Re-assembly

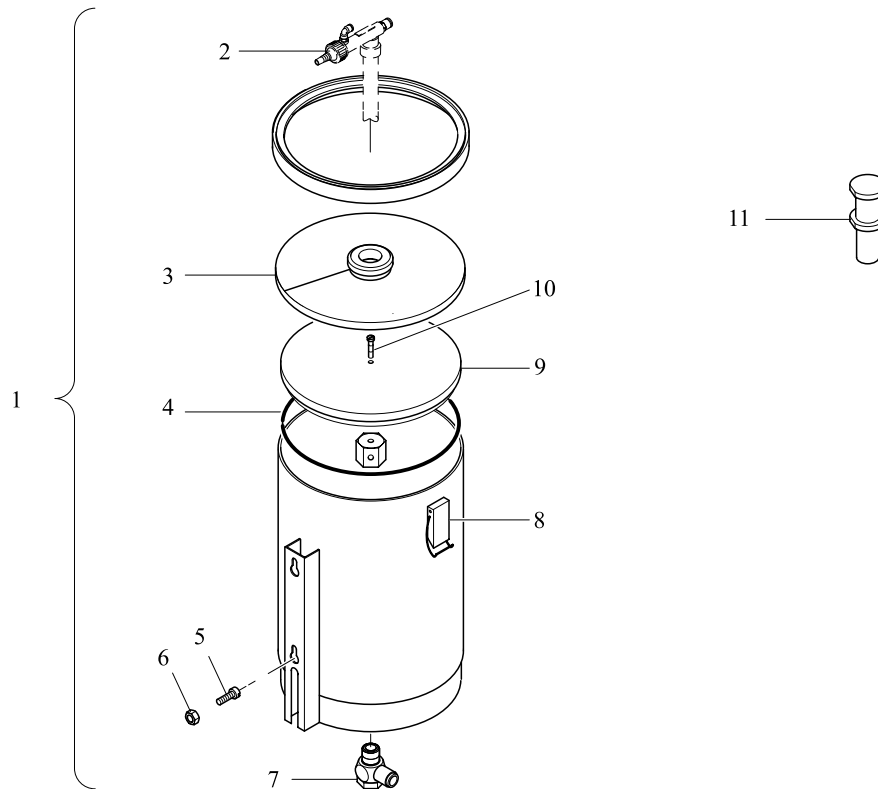
The fluidisation air union is of the “quick-disconnect” type:

- To connect the “fluidisation” air hose, simply insert it into the union and push it fully home.
- To disconnect the hose from the union, simply push back the ring surrounding the hose towards the union and remove the hose.

#### 4.3. Corrective Action

Symptoms	Probable causes	Remedies
The powder comes out in irregular bursts.	Insufficient fluidisation of the powder.	Clean the porous plate. Replace it if necessary.

## 5. Spare Parts



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Item	Part number	Description	Qty	Unit of sale
1	1526440	Complete CSV 137 tank	1	1
2	<a href="#">see RT Nr 6368</a>	CS 127 powder pump	1	1
3	758267	Assembled outlet plate *	1	1
4	740740	Porous plate seal	1	1
5	X2BVCB227	Screw C M 6 x 25 - galvanised steel	2	1
6	X2BEHU006	Nut H M 6	2	1
7	F6RLPS104	Banjo union, dia. 6 mm - 1/4"	1	1
8	732884	Tank body with quick fasteners	1	1
9	435667	Fluidisation plate	1	1
10	X2BVFP188	Screw F/90 M 5 x 30 - steel 8.8	1	1
11	F6RLZX397	Plug, dia. 6 mm	1	1

\* = comprising the outlet plate, the powder pump support, the o-ring and the ground wire.