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# UHT 155 EEx em High Voltage Unit

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## 1. Warnings

WARNING : This eqipment may become a safety hazard if it is not operated, disassembled and reassembled in accordance with the instructions given in this manual. See the equipment manual.

#### 1.1. The high voltage unit UHT 155 EEx em marking



#### 2. Introduction

The high voltage unit UHT 155 permits to feed a paint applicator with high voltage without high voltage cable. This unit is mainly used for the PPH 607 and PPH 308 atomisers.

#### 3. Description

The High Voltage Unit UHT 155EEx em comprises:

- A moulded part with:
  - High voltage elements (transformer, cascade, measuring resistance and priming resistance),
  - Low voltage elements (recognition element and protection elements)
  - High voltage outlet adapted for use atomisers.

### 4. Characteristics

#### 4.1. Electrical characteristics

Max input voltage	36 V RMS – 25 kHz roughly
Outlet voltage	90 kV, negative polarity.
Outlet curent	100 µA
Outlet power	10 W max

#### 4.2. Mechanical characteristics

Weight: 0,48 Kg - 1.06 Lbs



#### 5. Safety précautions

- Clean and grease the high voltage stop with dielectric grease before fitting.
- Never assemble or disassemble with voltage on.
- Do not put the low voltage cable into contact with solvent.
- Cable length between high voltage unit and generator GNM 200 -A is 20 m, 65.6 feet.



WARNING : the GNM 200-A must be placed in a anti-fire zone at least 1,5 m (4,9 feet) from the opening of the nearest booth.

### 6. Maintenance

#### 6.1. Electrical connexions

Cable diameter: = CEE 0,5 mm2 or 0,34 mm2 Cable diameter: US = Gauge AWG 20 or AWG 22

А	Yellow	AWG 22	
В	Green	AWG 22	
С	White	AWG 20	
D	Braun	AWG 20	
Е	Pink	AWG 22	
F	Grey	AWG 22	

The cable used for the connections must respect:

- wire diameter comprised between 0,3 mm2 and 0,8 mm2
- diameter: 4 mm mini and 8 mm maxi.
- a complete shielding and a second shielding for each pair of wire

Nota : Should some wires are not used, they should be connected to the ground





#### 6.2. Cable replacement

1	stuffing box nut
2	stuffing box body
3	stuffing box union

- 1 Maintaining the body, loosen the nut in order to unblock the cable
- 2 Unscrew the union in order to access to the connections
- 3 Unplug each electrical wire
- 4 Unscrew the body and keep the union
- 5 Replace the cable
- 6 Replace the seal washer if needed



**JES00775** 

## 7. Spare parts

## 7.1. High Voltage Unit UHT 155 EEx em



Item	Part number	Description	Qty	Sale unit
1	1520282	High Voltage Unit UHT155 EEx em	1	1
2	548304	High voltage stop	1	1
3	548303	HV connector stop	1	1
4	Q2HRDC095	HV spring	1	1
5	1408523	Sealing washer	1	1
6	1310068	Stuffing box union	1	1

#### 7.2. Cables

Note: Each cable has a defined length; for other lengths, please, contact SAMES Technologies.



WARNING : Cable length between the High Voltage Unit and the Control Modul GNM (unit cable + any extension) shoud not exceed 30 m.