



User manual

Bell Atomizer Cleaner

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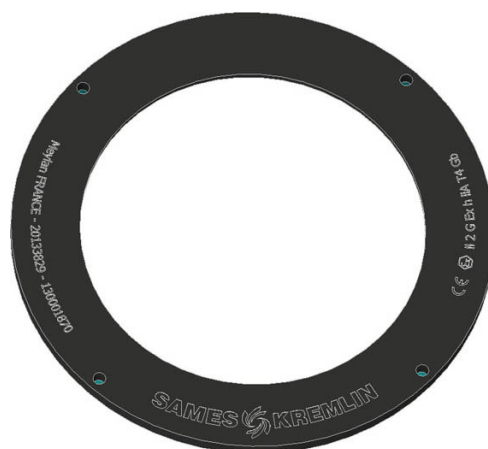
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Bell Atomizer Cleaner

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1. Health and Safety Instructions

1.1. Marking



SAMES KREMLIN

CE  II 2 G Ex h IIA T4 Gb

Meylan FRANCE
Serial number
Part Number
Bell Atomizer Cleaner

N°	Warning type	Limitations for ATEX certification
1	Operation	The bell atomizer cleaner must not be operating using a product with low conductivity (<100pS/m)
2	Operation	When using solutions with a conductivity of between 100 pS/m and 1,000pS/m it may not be moved (directly) in the cycle
3	Installation/ Assembly	The container of the bell atomizer cleaner must be grounded, or integrated in the potential equalization of the installation. This can be achieved by one of the following: - a potential equalization cable, or - via a positive fitting connection with an effectively grounded grate platform
4	Installation/ Assembly	Use only the plastic sealing ring specified for the particular bell cup
5	Installation/ Assembly	The lateral ventilation in the bell atomizer cleaner container must be protected from the foreign bodies, i.e by means of a blind plug, or a 90° pipe elbow directed downward
6	Operation	Ensure that the air pressure and the solution pressure bell cup cleaner supply do not exceed pressure of 6.9 bar / 100 psi i.e by means of protecting the supply with a safety valve
7	Operation	If the bell atomizer cleaner has been specified for temperature class T4, solutions with a boiling temperature must be used.
8	Operation	The intended position of the nozzle in the bell atomizer cleaner must be determined (-> adjustment) and recorded in the nozzle control before startup
9	Maintenance	The impeller must be tested recurrently (at least every 3 years) regard to the ignition protection type, or the lack of ignition. Important testing aspects are the following: running noise and clearance of the roller bearing, as well as the seal between the solution-bearing part and the roller bearing. As an alternative to the testing, the impeller may be replaced (at least every 3 years) with a new one as a precautionary measure
10	Maintenance	The floating plastic sealing ring must be submitted to a recurring inspection (at least annually) regarding its mechanical integrity/damage.
11	Assembly / Operation	The bell cup cleaner may not be connected to zones, in which permanently explosive atmosphere must be anticipated (-> ex-zone 0). This applies particularly for the dump connection to lead away cleaning solvent. If the ex-zone 0 cannot be prevented or eliminated effectively by the operator, additional constructive explosive-preventing measures must be provided (i.e. explosive-protection isolation.)
12	Operation	The bell atomizer cleaner may not be used for manual cleaning purposes.

1.2. Precautions for use

This document contains information that all operators should be aware of before using the "Bell Atomizer Cleaner".

This information includes indications of situations potentially resulting in severe damage and of the preventive precautions to be taken.



WARNING : Before any use of the equipment, check that all operators:

- have previously be trained by the company **SAMES KREMLIN**, or by their distributors registered by them for this purpose.
- have read and understood the user manual and all rules for installation and operation, as laid out below.

It is the responsibility of the operators' workshop manager to ensure these two points and it is also his responsibility to make sure that all operators have read and understood the user manuals for any peripheral electrical equipment present in the spraying area.

1.3. Warnings



WARNING : This equipment may be dangerous if it is not used, disassembled and reassembled in compliance with the regulations specified in this manual and in all applicable European standards or national safety regulations.



WARNING : Equipment performance is only guaranteed if original spare parts distributed by **SAMES KREMLIN** are used.



WARNING : To guarantee an optimal assembly, spare parts must be stored in a temperature close to their temperature of use. Should the opposite occur, a sufficient waiting time must be observed before the installation, so that all the elements are assembled in the same temperature.



WARNING : The integrator of the cleaning box in a paint booth must ensure that the control of the movements of the box is connected to the general control of the booth, and in particular that the emergency stop safety devices arranged for the booth actually act on the actuators of the cleaning box.
Failure to comply with this recommendation may result in damage to property and personal injury.

1.4. Important Recommendations

1.4.1. Ambient temperature

The atomizer is designed to normally operate at an ambient temperature comprised between 0°C and + 40°C.

The storage temperature must never exceed +60°C.

1.5. Guarantee

Under the guarantee, which applies only to the buyer, **SAMES KREMLIN** agrees to repair operating faults resulting from a design fault, materials or manufacture, under the conditions set out below.

The guarantee claim must define the exact nature of the fault concerned, in writing.

The **SAMES KREMLIN** guarantee only covers equipment that has been serviced and cleaned according to standard procedures and our own instructions, that has been fitted with parts approved by **SAMES KREMLIN** or that has not been modified by the customer.

More precisely, the guarantee does not cover damage resulting from:

- the customer's negligence or inattention,
- incorrect use,
- failure to follow procedures,
- accidents such as: collision with external objects, or similar events,
- flooding, earthquake, fire or similar events,
- inadequately filtered paint and solvent,
- use of seals not complying with **SAMES KREMLIN** recommendations,
- pollution of air circuits by fluids or substances other than air.

The **SAMES KREMLIN** Bell Atomizer Cleaner is covered by a one-year guarantee for use in two 8-hour shifts under normal operating conditions.

The guarantee will take effect from the date of the first start-up or of the provisional acceptance report.

Under no circumstances, either in the context of this guarantee or in other contexts, will **SAMES KREMLIN** be held responsible for physical injury or intangible damage, damage to brand image and loss of production resulting directly from its products.

2. Description

The Bell Atomizer Cleaner is designed to clean internal charge robotic sprayers equipped with bellcup (35, 43, 50, 65 and 80 mm) or a Gun head and external charge robotic sprayers equipped with bellcup (43, 50, 65 and 80 mm).

It is fixed on a frame in a booth with a ventilated area and is controlled by a PLC.

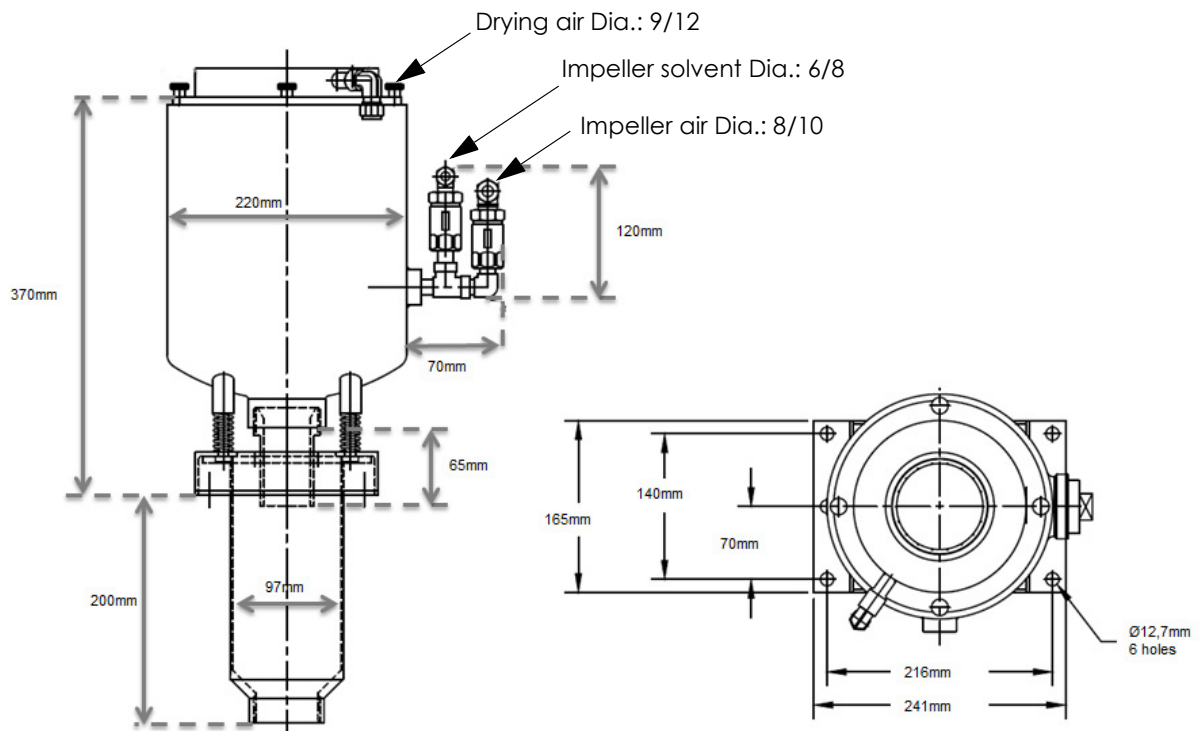
With easy installation and minimal maintenance the Bell Atomizer Cleaner system uses less fluid, shortens cycle times and eliminates contamination on any robot automated paint system. It can be easily integrated into a color change cycle.



1	Drying ring
2	Container
3	Spring
4	Base frame
5	Dump pipe (option)

3. Technical characteristics

3.1. Dimensions (mm)



3.2. Operating characteristics

Weight		
	Bell Atomizer Cleaner	12 kg
Pressure		
	Impeller Air	4 bar (58 PSI)
	Drying Air	5.5 bar mini. (min. 80 PSI)
	Solvent	3 bar (43.5 PSI)
Consumption		
	Air	see § 4.2 page 13
	Solvent	see § 4.2 page 13



WARNING : In order to ensure the optimal operation of the Bell Atomizer Cleaner, it is imperative to respect the pressures indicated above.

3.3. Operating principle

The Bell Atomizer Cleaner is self contained in a stainless steel container housing an impeller system activated by fluid and air.

The paint atomizer enters the container sealing on the floater O-ring. The floater is designed to move allowing for any variation in the robot.

Once the applicator has entered and sealed on the drying ring, fluid and air are activated creating a rotating and pulsing action that cleans and dries the business end of the paint gun or bell and at the same time cleans the interior of the container.

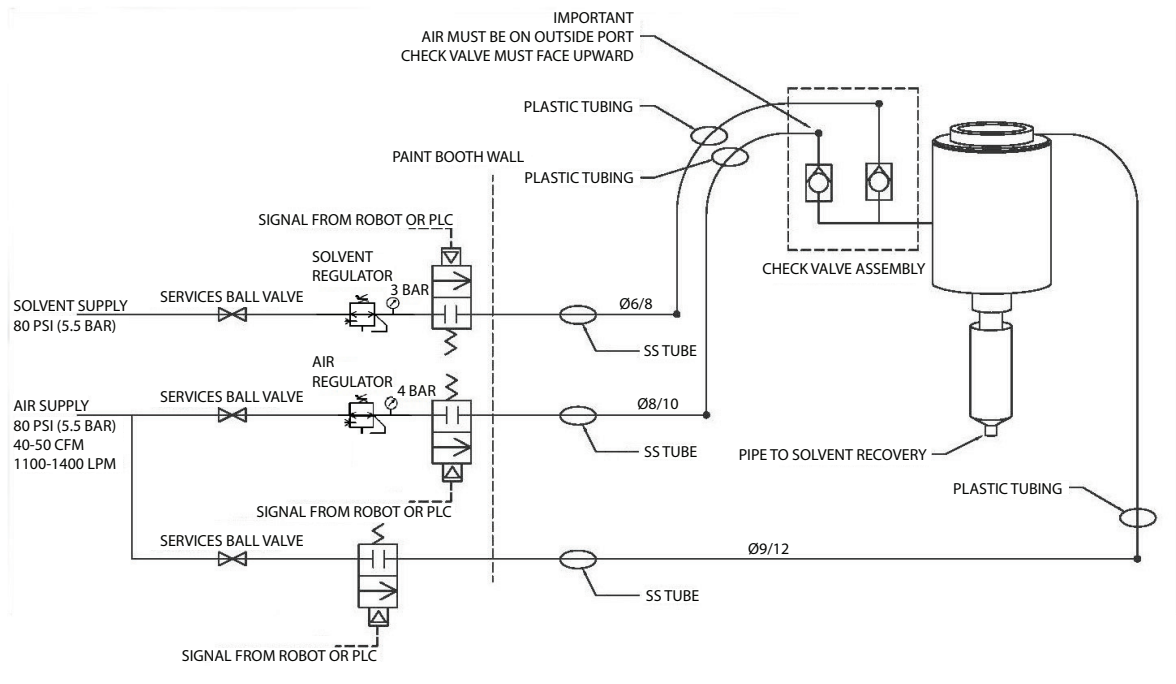
Clean time is managed within the parameters of the plant line speed.

Once finished and the paint applicator exits the container, the impeller is turned off and a unique High Speed Drying System is activated ensuring no residual fluid is left on the shroud or cup.

The rinsing cycle varies according to the time available between operations, the type of paint and type of solvent.

4. Fluid diagram and Process cycles

4.1. Fluid Diagram



4.2. Process cycles for bell

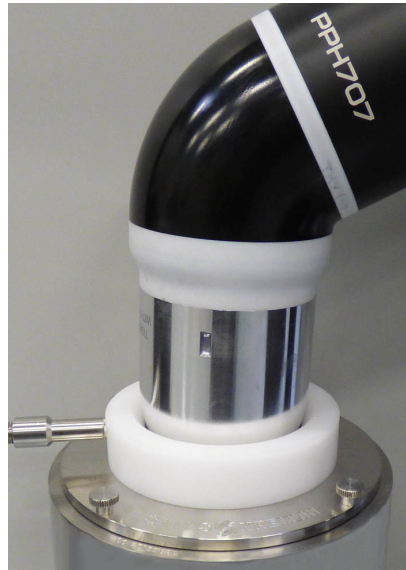
4.2.1. Description of robot positions

Cleaning position :

The atomizer must be centered in the Bell Atomizer Cleaner, and at the lowest possible level, the outer cover coming into contact with the FEP seal located at the level of the blowing rings.

It is better to crush the box (2 mm) a little bit, as it is spring-loaded. In this way the seal of the blowing ring will certainly be in contact with the outer cover, not allowing projections to rise outside the cleaner.

For example, PPH 707 internal charge:



Cleaning position



WARNING : For external charge, the air supply of the drying ring must be positioned between two fingers.

Drying position:

The principle is to position the outer cover nose and bellcup in the blowing ring. The openings of the blowing ring being inclined downwards to avoid product rising outside the box.

The Drying position will be different (in height according to the axis of the cleaner).

The plane of the shaping air edge or gun head must be positioned at a certain distance below the top plane of the blowing ring.

In addition, the movement from the Cleaning position to the Drying position must be performed at a certain speed, which will be different between the outer covers. (Described in the cycles below).

Note: It is necessary to take a break with the robot in the Drying position, in order to dry the area of the outer cover nose and bellcup. The break time depends on the shaping air version used.



WARNING : Be careful to ensure that the outer cover is completely dry at the end of the cycle as humidity could lead to a very significant increase in dirt during applications following cleaning. (Especially with external charge sprayer).

Home (0) Position:

The robot's HOME position is 500 mm above the Bell Atomizer Cleaner.

4.2.2. Description of the cleaning cycles

It is better to make a Solvent / Air / Solvent / Air steps rather than a single Solvent / Air phase (even longer). This ensures a better (mechanical) cleaning efficiency thanks to the emulsion created, especially on heavy soiling. On a light soiling, one can imagine using a single Solvent / Air step. It is not necessary to insert pause times between the closures/openings of the Solvent and Air valves of the impeller because the cleaner is equipped with check valves. Thus, even if both valves are open at the same time, there is no risk of solvent rising into the air. In addition, the addition of air to the solvent during the cleaning cycle improves the efficiency of this cycle.

Note: The drying time remains variable depending on the outer cover size.

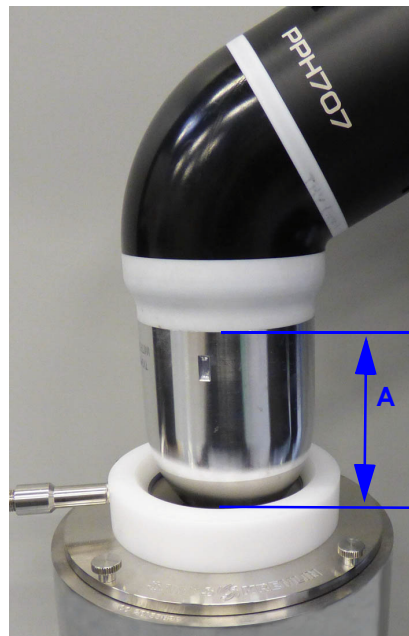
This is also the case to a lesser extent for cleaning times.

For example, the EC50 outer cover is smaller in diameter than the EX80 outer cover and is therefore radially further from the blowing ring. In this case, the drying time will increase.

Remarks: Solvent consumption figures are indicative and vary according to actual pressures used and actuator response times.

4.2.3. For PPH 707 internal charge

4.2.3.1. Position of the robot



Drying position

		Drying
EC35	A	95 to 100 mm
EC43		100 to 105 mm
EC50		100 to 105 mm
EX65		105 to 110 mm
EX80		105 to 110 mm

Drying position:

The principle is defined by the distance between the top of the cleaner and the bottom of the valve cover.

4.2.3.2. Cleaning cycles with EC 35 shaping air assembly

PPH 707	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.35	0.75	1	1.1	1.6	7	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (15 mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	150	150	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	50	50	50	50	50	50	50	50

Cycle time, outer cover rinsing	12.80 s
Cycle time Home to Home	15.80 s
Solvent consumption	290 cc
Rotation	25 Krpm

PPH 707	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.85	0.5	1.6	7	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (15mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	50	50	50	50	50	50

Cycle time, outer cover rinsing	9.95 s
Cycle time Home to Home	12.95 s
Solvent consumption	100 cc
Rotation	25 Krpm

4.2.3.3. Cleaning cycles with EC43 and EC 50 shaping air assemblies

PPH 707	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.25	0.75	1	1	1.5	7	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (15mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	150	150	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	75	75	50	50

Cycle time, outer cover rinsing	12.50 s
Cycle time Home to Home	15.50 s
Solvent consumption	270 cc
Rotation	25 Krpm

PPH 707	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.75	0.5	1.5	7	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (15mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	50	50

Cycle time, outer cover rinsing	9.75 s
Cycle time Home to Home	12.75 s
Solvent consumption	90 cc
Rotation	25 Krpm

4.2.3.4. Cleaning cycles with EX 65 shaping air assembly

PPH 707	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.15	0.75	1	0.85	1.35	6	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (25mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	150	150	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	75	75	50	50

Cycle time, outer cover rinsing	11.10 s
Cycle time Home to Home	14.10 s
Solvent consumption	250 cc
Rotation	25 Krpm

PPH 707	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.65	0.5	1.35	6	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (25mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	50	50

Cycle time, outer cover rinsing	8.5 s
Cycle time Home to Home	11.5 s
Solvent consumption	75 cc
Rotation	25 Krpm

4.2.3.5. Cleaning cycles with EX 80 shaping air assembly

PPH 707	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1	0.75	1	0.75	1.25	5.5	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (25mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	175	175	175	175	175	175	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	75	75	50	50

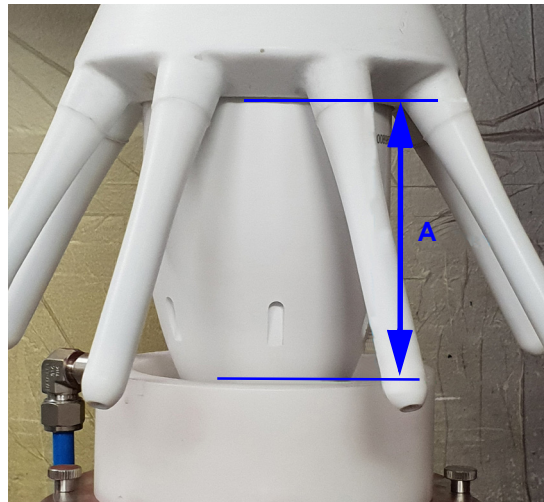
Cycle time, outer cover rinsing	10.25 s
Cycle time Home to Home	13.25 s
Solvent consumption	230 cc
Rotation	25 Krpm

PPH 707	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.6	0.5	1.25	5.5	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (25mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	175	175	175	175	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	50	50

Cycle time, outer cover rinsing	7.85 s
Cycle time Home to Home	10.85 s
Solvent consumption	60 cc
Rotation	25 Krpm

4.2.4. For PPH 707 external charge

4.2.4.1. Position of the robot



Drying position

		Drying
EC50	A	110 to 115 mm
EX65		125 to 130 mm
EX80		115 to 120 mm

Drying position:

The principle is defined by the distance between the top of the cleaner and the bottom of the charge ring.

4.2.4.2. Cleaning cycles with EC 50 shaping air assembly

PPH 707 EXT	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.25	0.75	1	1	1.5	7	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (15mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	150	150	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	75	75	50	50

Cycle time, outer cover rinsing	12.50 s
Cycle time Home to Home	15.50 s
Solvent consumption	270 cc
Rotation	25 Krpm

PPH 707 EXT	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.75	0.5	1.5	7	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (15mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	150	150	150	150	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	50	50

Cycle time, outer cover rinsing	9.75 s
Cycle time Home to Home	12.75 s
Solvent consumption	90 cc
Rotation	25 Krpm

4.2.4.3. Cleaning cycles with EX 65 shaping air assembly

PPH 707 EXT	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.40	0.75	1	0.90	1.40	6.5	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (25mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	175	175	175	175	175	175	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	75	75	50	50

Cycle time, outer cover rinsing	11.95 s
Cycle time Home to Home	14.95 s
Solvent consumption	255 cc
Rotation	25 Krpm

PPH 707 EXT	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.7	0.5	1.40	6.5	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (25mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	175	175	175	175	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	50	50

Cycle time, outer cover rinsing	9.1 s
Cycle time Home to Home	12.1 s
Solvent consumption	75 cc
Rotation	25 Krpm

4.2.4.4. Cleaning cycles with EX 80 shaping air assembly

PPH 707 EXT	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1	0.75	1	0.75	1.25	5.5	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (25mm/s)								
Robot to home position								
Air shaping 1 (vortex) in NL/min	175	175	175	175	175	175	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	75	75	50	50

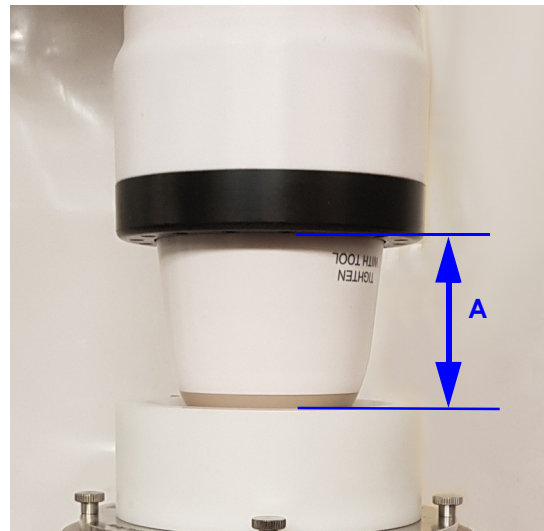
Cycle time, outer cover rinsing	10.25 s
Cycle time Home to Home	13.25 s
Solvent consumption	230 cc
Rotation	25 Krpm

PPH 707 EXT	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.6	0.5	1.25	5.5	1.5
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (25mm/s)						
Robot to home position						
Air shaping 1 (vortex) in NL/min	175	175	175	175	50	50
Air shaping 2 (straight) in NL/min	75	75	75	75	50	50

Cycle time, outer cover rinsing	7.85 s
Cycle time Home to Home	10.85 s
Solvent consumption	60 cc
Rotation	25 Krpm

4.2.5. For PPH 707 EXT i

4.2.5.1. Position of the robot



Drying position

		Drying
EC43	A	85 to 90 mm
EX 65	A	70 to 75 mm

Drying position:

The principle is defined by the distance between the top of the cleaner and the bottom of the charge ring.

4.2.5.2. Cleaning cycles with EC 43 shaping air assembly

PPH 707 EXT i	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.25	0.75	1	1	1.50	7	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (15mm/s)								
Robot to home position								
Shaping air 1 (vortex) NI/min	150	150	150	150	150	150	50	50
Shaping air 2 (Straight) NI/min	50	50	50	50	50	50	50	50
Sprayer blowing air (28) NI/min	50	50	50	50	50	50	50	500

Cycle time, outer cover rinsing	12.50 s
Cycle time Home to Home	15.50 s
Solvent consumption	270 cc
Rotation	25 Krpm

If solvent contamination appears on the shaping air during cleaning, the air ring command could be remove on steps 2 to 4.

PPH 707 EXT i	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.80	0.50	1.50	7.00	1.50
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (15mm/s)						
Robot to home position						
Shaping air 1 (vortex) NI/min	150	150	150	150	50	50
Shaping air 2 (Straight) NI/min	50	50	50	50	50	50
Sprayer blowing air (28) NI/min	50	50	50	50	50	500

Cycle time, outer cover rinsing	9.8 s
Cycle time Home to Home	12.80 s
Solvent consumption	100 cc
Rotation	25 Krpm

4.2.5.3. Cleaning cycles with EX 65 shaping air assembly

PPH 707 EXT i	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	1.4	0.75	1	0.9	1.4	6.5	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (15mm/s)								
Robot to home position								
Shaping air 1 (vortex) NI/min	175	175	175	175	175	175	50	50
Shaping air 2 (Straight) NI/min	75	75	75	75	75	75	50	50
Sprayer blowing air (28) NI/min	50	50	50	50	50	50	50	500

Cycle time, outer cover rinsing	11.95 s
Cycle time Home to Home	14.95 s
Solvent consumption	270 cc
Rotation	25 Krpm

If solvent contamination appears on the shaping air during cleaning, the air ring command could be remove on steps 2 to 4.

PPH 707 EXT i	Light wet contamination (x1 VH)					
Step	1	2	3	4	5	6
Time (sec)	1.5	0.7	0.50	1.4	6.5	1.50
Robot to cleaning position						
Ring air						
Impeller solvent						
Impeller air						
Robot to drying position (15mm/s)						
Robot to home position						
Shaping air 1 (vortex) NI/min	175	175	175	175	50	50
Shaping air 2 (Straight) NI/min	75	75	75	75	50	50
Sprayer blowing air (28) NI/min	50	50	50	50	50	500

Cycle time, outer cover rinsing	9.1 s
Cycle time Home to Home	12.1 s
Solvent consumption	100 cc
Rotation	25 Krpm

4.3. Process cycles for gun



WARNING : Before using a Bell Atomizer Cleaner with guns, it is imperative to replace the original air cap with the specific version supplied with the Bell Atomizer Cleaner.

4.3.1. Description of gun position

Cleaning position:

The atomizer must be centered in the Bell Atomizer Cleaner for gun and at the lowest possible level, the special cap rings coming into contact with the FEP seal located at the level of the blowing rings. It is better to crush the box (2 mm) a little bit, as it is spring-loaded. In this way the seal of the blowing ring will certainly be in contact with the cap ring, not allowing projections to rise outside the cleaner.

Drying position:

The principle is to position the gun 50 mm upper from the cleaning position.

The plane of the gun head must be positioned at a certain distance below the top plane of the blowing ring.

Home (0) Position:

The robot's HOME position is 500 mm above the Bell Atomizer Cleaner.

4.3.2. Cleaning cycles with guns TRP 501, TRP 502, AVX and ASB

	Severe dry contamination (x5 VH)							
Step	1	2	3	4	5	6	7	8
Time (sec)	1.5	0.5	0.5	0.5	0.5	1	3	1.5
Robot to cleaning position								
Ring air								
Impeller solvent								
Impeller air								
Robot to drying position (15 mm/s)								
Robot to home position								
Atomizing air in NL/min	75	75	75	75	75	75	75	75
Fan air in NL/min	75	75	75	75	75	75	75	75

Cycle time, gun rinsing	6 s
Cycle time Home to Home	9 s
Solvent consumption for each gun head	180 cc

4.4. Integrating into a color change cycle

If the first step of the sprayer cleaning cycle is made through the dump line with air/solvent (for example in reverse with FCG pump), it can start before the sprayer proceeds to

HOME POSITION.

If not the sprayer cleaning cycle could start only when the sprayer is in **AT CLEANER POSITION.**

The cleaning box solvent should be turned on as soon as the robot can accomplish the **GO TO cleaner** movement. The position **AT CLEANER** will assure in the program that the atomizer has reached the position to contain the cleaning spray inside the tank. At this position the sprayer trigger may be turned on to dump the rest of paint of the sprayer with the cleaning solvent. The rest of the sprayer cleaning can be done after this step.

The filling cycle could be done if the atomizer is **AT CLEANER** position for safety. When the colour is primed into the bellcup, the shroud cleaner air is enabled to first eject the charge of solvent left into the manifold. This solvent/air steps could be done 2 times depending of the Bellcup and paint type ([see § 4.2 page 13](#) for cycle description). The drying cycle start after and blows off the wet shroud and displaces the humid atmosphere outside from the cleaning box tank.

When this is finished the robot moves to **DRYING POSITION** at the speed described in the cycle (depending on the bell cup type). This, action breaks the seal between the shroud and the O-ring on the top of the Tank. In some cases (shaping air type), a waiting time of 3 seconds at this position should be done to finish blowing the shaping air. After this, the robot moves to **HOME POSITION.**

These recommendations are provided as a guide to what actions are possible in a standard cycle and can be adapted for special process cycle.

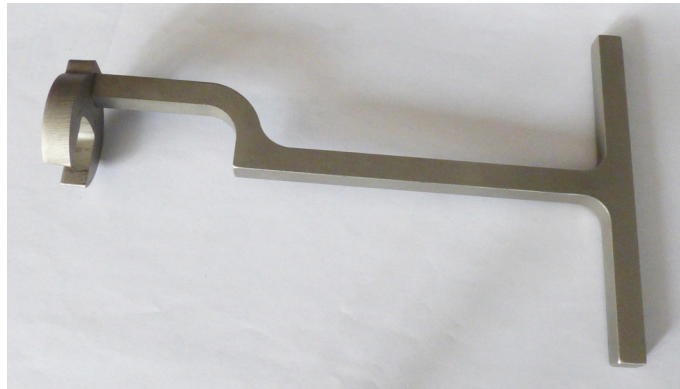
In some installations the cleaning box cycle could replace the External bell cup rinsing by the sprayer.

5. Startup

5.1. Tools



P/N	Description	Qty	Unit of sale
130001900	O-ring removal Wrench for EC43/EX65/EX80 External Charge and EX80 internal Charge	1	1
130001901	O-ring removal Wrench for EC35/EC50/EX65 Internal Charge PPH 707 and Nanobell 801/803	1	1



P/N	Description	Qty	Unit of sale
130001899	Impeller Wrench	1	1

Additional tools and accessories required:

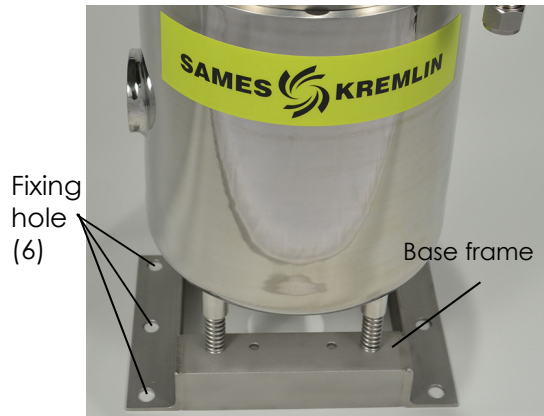
The tools listed below should be available for product installation and maintenance operations.

- Loctite heavy duty anti-seize.
- Nylon brush
- Torque wrench
- 3/8" click type torque wrench with reversible ratchet
- 3/8" female to 1/2" male adapter
- 3/8 " six-point deep socket with 1/2" drive

5.2. Installation

- **Setting up:**

Secure the Bell Atomizer Cleaner to a substantial structural component of the paint booth. The equipment must be fixed securely (see illustration). It should also be free from excessive vibration, and should be mounted perpendicular to the floor of the booth and safely grounded.



- **Supply:**

The Atomizer cleaner requires a supply of solvent and air at 80-100 PSI (5.5-6.9 Bar). A valve pack controlled by the Robot or superior controller for the paint system should have a low pressure drop. The run between the valve pack and check valve assembly should be kept to a minimum with a tube size of 10mm or larger. Connections between hard run tube and the check valve assembly should include a "dogleg" of plastic tubing to allow for Z compliance of the cleaner.

Solvent supply Air supply

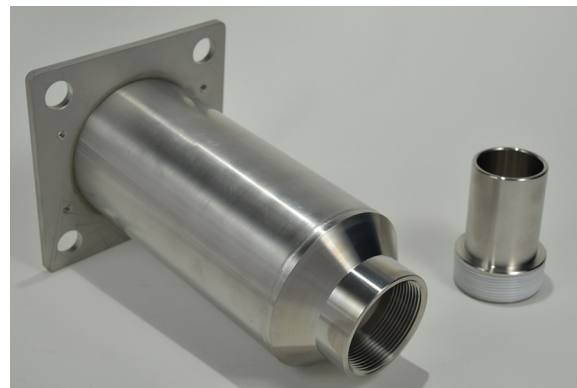


- The check valve assembly should be installed with tube entry above in the 1/4" NPT inlet port of the cleaner. Connect the solvent line to the tube connector closest to the container, and the airline to the tube connector to the outside on the check valve assembly. It is important to orient the check valve assembly upward ([see § 4.1 page 12](#)).

The drying air valve should have a low pressure drop. Air consumption can be as high as 50 scfm (1415 NI/min). If drying times are critical with water as a cleaning solution, increased airflow decreases the drying time.

- **Dump:**

For solvent recovery system, connect the 2" npt fitting on the dump system (bottom of the container). Restriction free, properly vented dumping systems are desirable to avoid overflow of solvent.



Recommendations to be respected to optimize the performances of the equipment:

Cleaner optimizing tips:

- Paint/Solvent chemistry, booth conditions, fluid type, temperature, humidity and pressure stability are all variables. Follow solvent manufacturer's recommendations for temperature etc.
- Please check the air and fluid pressures at the cleaner first before attempting any of the above adjustments.
- When the desired cleaning result is achieved by the default program, try to remove one air /solvent step to see if the atomizer still comes out clean. Repeat the process to make sure atomizer comes out clean and this way you will utilize least amount of fluid air, and time at the recommended speed etc.

Bell Atomizer Cleaner interface with atomizer:

- Push out of the rest of paint can be done.
- Atomizer cleaning can be done inside the cleaner
- Cup Rinse can be done inside the cleaner
- On exit, the shaping air should be reduced to 100 NI/min. This will reduce the turbulence on exit, thus preventing any moisture being re-introduced on the atomizer.

5.2.1. Assembly of the different lids

Nota: This procedure is valid for the different lid assemblies, only the references change ([see § 8.2 page 39](#) item 2).

- **Step 1:** Put the fitting (Street nipple & SS-1/2 – 1/4 fixed together) in to top part of floater.



Step 1

- **Step 2:** Clean the lid (SS316) with soft cloth.

Step 2



- **Step 3:** Put in place the o-rings:
 - Insert the O-ring ([see § 8.2 page 39](#) Item 11) in the lid.
 - Insert O-ring ([see § 8.2 page 39](#) Item 10) in the bottom part of floater.
 - Insert O-ring ([see § 8.2 page 39](#) item 13) in the top part of floater.



Step 3

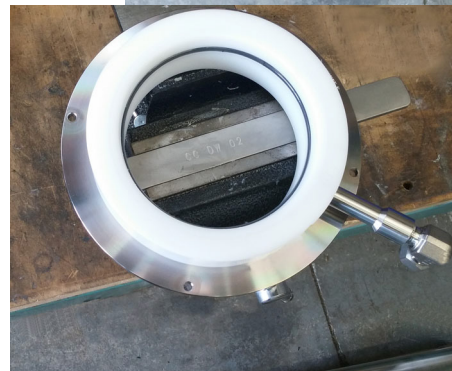
- **Step 4:** To assemble, take top part of the floater & flip it, flip the lid on top of it and then flip the bottom part on it.



Step 4

- **Step 5:** Please ensure to firmly tighten the assembly using our wrench (P/N # 130001900 or 130001901) (Wrench can be fixed on vice and assembly can be tightened properly).

Step 5



- **Step 6:** Use 4 knurled knobs to put it back on the bell atomizer cleaner.
- **Step 7:** Connected to air pressure, tested and ready to go.

6. Maintenance

6.1. Preventive maintenance

Always refer to the health and safety instructions before carrying out any work ([see § 1.3 page Z](#)).



WARNING : Always wear safety goggles.

Whenever solvent is handled, gloves made of an appropriate resistant material must be worn.

Work in a well-ventilated area whenever solvent is used.

- **Step 1:** At the beginning of the shift the operator should reach through the drying ring on the lid to rotate the impeller with a pen or other instrument to ensure it spins freely.
- **Step 2 :** Make sure knurled knobs are hand tightened to secure lid to container.
- **Step 3 :** At break and end of shift the white plastic drying ring where the atomizer seals with the unit should be wiped down with solvent to clear any over spray. The O-ring and drying ring should also be inspected for cuts or grooves.
- **Step 4:** During breaks, please ensure all four shoulder bolts and springs are mounted and as such cleaner comes back to its original position. If any spring/shoulder bolt is missing, the cleaner will appear tilted and will miss its home position when bell exits the cleaner. Incorrect docking can cause damage to applicator and/or cleaner.



WARNING : At the end of shift, the interior of the container should be cleaned automatically.

- **Step 5:** The robot is run to the clean in position to do an extended atomizer clean and simultaneously doing a fluid purge through the atomizer in the unit.
- **Step 6:** The paint line and atomizer are cleared of residue, the impeller will be cleared of any solids on the rotating surfaces, the inside of the container will be maintained and the recovery system piping will be rinsed.
- **Step 7:** Prior to covering the Bell Atomizer Cleaner, the operator should insure the drying ring can move to allow compliance with the atomizer.

6.2. Corrective maintenance

6.2.1. Impeller maintenance



WARNING : Impeller bearing should be replaced annually or as needed.
Do not remove impeller for maintenance unless it has stopped operating.

The impeller may stop for one of the following reasons:

- A new impeller kit is necessary
- Some minor maintenance actions are necessary: follow the procedure below.

Disassembly procedure:

- **Step 1:** Remove the lid assembly from the Bell Atomizer Cleaner using the 4 knurl knob screws ([see § 8.2 page 39](#) item 12).
- **Step 2:** Using the wrench (P/N: 130001899), remove the impeller from the container.
- **Step 3:** Disassemble the impeller by hand (It may be necessary to use a 1 ¼" wrench to remove the impeller kit (fluid delivery stem, seal, bearing assembly from the body)
- **Step 4:** Once you have removed the body from the impeller kit you are ready to clean. (Do not try to remove bearing assembly from fluid delivery stem).
- **Step 5:** Soak (the seal and body only) in clean solvent. Brush with a nylon brush to remove any particles.



WARNING : Allow to dry or blow dry prior to reassembling with compressed air

- **Step 6:** Rotational drive holes on the body may be blocked, if that is the case use the appropriate wire size to clean out the drive hole on the side then use compressed air to blow it clear.
- **Step 7:** After all parts are dry: **Lubricate the threads on the impeller kit stem with Loctite heavy duty anti-seize to prevent galling.**
- **Step 8:** Place the seal on top of the impeller kit making sure the metal side of the seal is placed into the recessed portion of the bearing assembly).
- **Step 9:** Place the stainless steel body on top and tighten by using a torque wrench (60in. lbs./6.78 N.m). Over tightening may squash the seal and hinder rotation.
- **Step 10:** Check to ensure the impeller spins freely.
- **Step 11:** Apply Loctite heavy-duty anti-seize or equivalent to stem threads to prevent galling.
- **Step 12:** Replace in container using wrench (P/N: 130001899).
- **Step 13:** Put back in place the lid assembly and tighten with the 4 4 knurl knob screws.



WARNING : It is important to keep contaminants out of the bearing assembly, therefore if placing in solvent, ensure it is completely free of any particulate material. The construction of the impeller is such that no foreign material should find its way into the bearing while it is assembled.

7. Troubleshooting

Symptoms	Repairing
Atomizer comes out from the Bell Atomizer Cleaner contaminated	Check Impeller Operation, it should spin freely
	Check the solvent and air pressure at the cleaner. Recommended pressure is 80 PSI (5.5 bar) on both.
	Check process cycles, see § 4.2 page 13
	Check the shaping air settings, confirm not too high compared to impeller pressures.
	Confirm fluid compatibility with paint.
	When above checks have been verified, try to set up one additional air / solvent step. If there is no improvement, increase the first fluid times from 0.5 s longer, and keep the same other fluid time.
Atomizer comes out from cleaner wet/moisture	Check the solvent and air pressure at the cleaner (see § 3.2 page 10)
	Check process cycles, see § 4.2 page 13
	Check the shaping air settings, confirm not too low compared to impeller pressures.
	Check the exit robot speed from the cleaner
	Check with fluid supplier for recommended temperature
	Check atomizer internals for trapped liquid
	Balance between impeller pressure and shaping air could be not correct.
	The atomizer has not been moved out as per recommended directions. (see § 5.2 page 30)
	Cup speed should not be in excess of 25,000 rpm.
	Too much fluid being introduced during the cleaning cycle.
	Impeller has been left on during exit, it should be off
	Check informations of cleaning product
Available air and fluid pressures at the cleaner	
Moisture at top of the cleaner	Check to make sure drying ring is tight to the lid
	Check to make sure lid is tight to the cleaner
	Inspect contact O-Ring in the drying ring for nicks or cuts

Symptoms	Repairing
Excessive moisture/fogging at the dump pipe	Check there is adequate flow in the dump system. There is large volume of product evacuated by the Bell Atomizer Cleaner in a relatively short time.
	Confirm that shaping air is switch off during exit from the cleaner, thus reducing amount of product in the cleaner.
Cleaning product flows slowly	Confirm all fluid paths are clear and paint is not building up. Cleaner is designed to be clean after each use. Ensure adequate flushing of paint occurs, including colour change materials, each cycle the cleaner is used.
Paint buildup in the Bell Atomizer Cleaner	
Drain System Plugging	

8. Spare parts list

8.1. Bell Atomizer Cleaner assemblies



Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
Internal charge atomizers					
PPH					
	130001870	Bell atomizer cleaner - 35 mm	1	1	3
	130002057	Bell atomizer cleaner - 43 mm	1	1	3
	130001871	Bell atomizer cleaner - 50 mm	1	1	3
	130001872	Bell atomizer cleaner - 65 mm	1	1	3
	130001873	Bell atomizer cleaner - 80 mm	1	1	3
Gun version					
	130001990	TRP 501 single Gun atomizer cleaner	1	1	3
	130001991	TRP 502 dual Gun atomizer cleaner	1	1	3
	130002116	AVX Gun atomizer cleaner	1	1	3
	130002156	ASB Gun atomizer cleaner	1	1	3
Nanobell II					
	130002058	Bell atomizer cleaner - 35 mm	1	1	3
	130002059	Bell atomizer cleaner - 50 mm	1	1	3
	130002060	Bell atomizer cleaner - 65 mm	1	1	3
Nanobell 801/803					
	130002061	Bell atomizer cleaner - 35 mm	1	1	3
	130002062	Bell atomizer cleaner - 50 mm	1	1	3
	130002063	Bell atomizer cleaner - 65 mm	1	1	3

Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
External charge atomizers					
PPH 707 EXTi					
	130002033	Bell atomizer cleaner - 43 mm	1	1	3
	130002079	Bell atomizer cleaner - 65 mm	1	1	3
PPH 707 EXT					
	130001875	Bell atomizer cleaner - 65 mm	1	1	3
	130001876	Bell atomizer cleaner - 80 mm	1	1	3

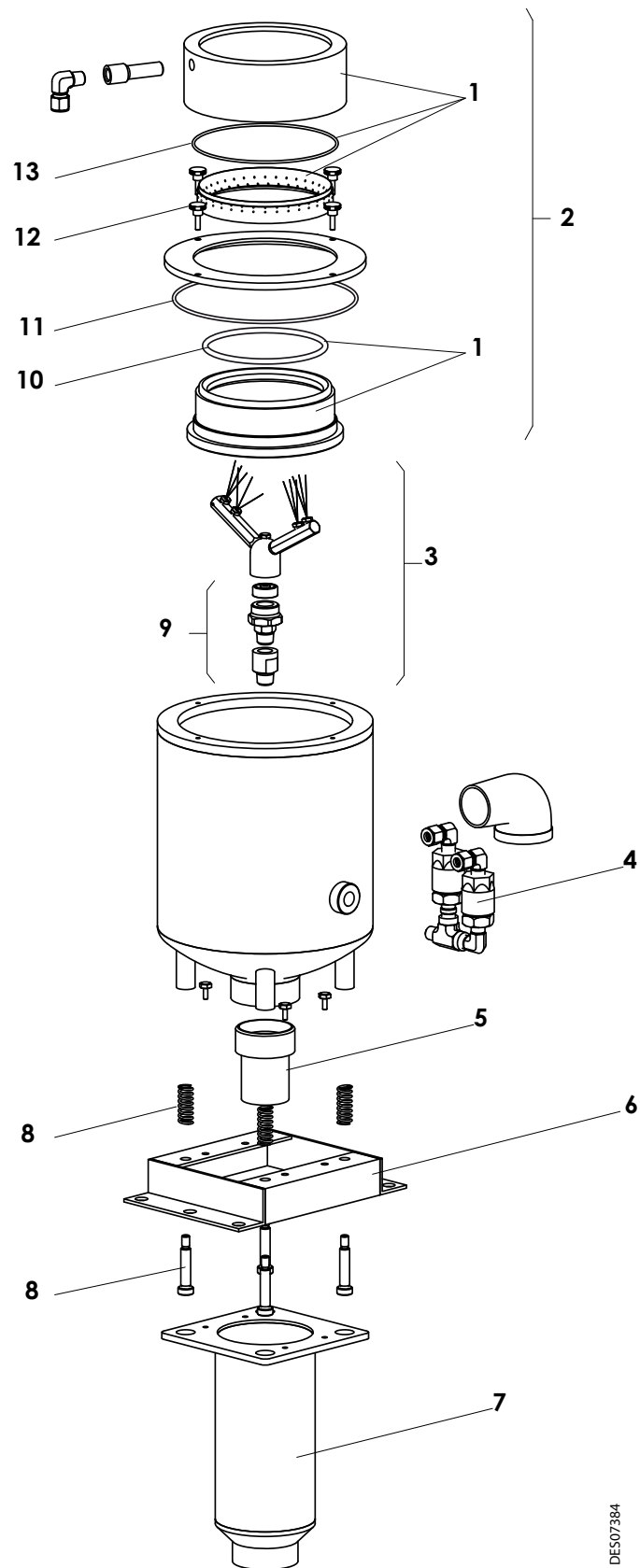
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Level 1: Standard preventive maintenance or breakable part possible during an intervention

Level 2: Corrective maintenance

Level 3: Exceptional maintenance

8.2. Bell Atomizer Cleaner



DE507384

Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
1	130001877	Bell Fixed Seal Assembly EC35/EC43/EC50/EX65 Internal Charge	1	1	3
	130001878	Bell Fixed Seal Assembly EX80 Internal Charge	1	1	3
	130001879	Bell Fixed Seal Assembly EX65/EX80 External Charge	1	1	3
	130002052	Bell Fixed Seal Assembly EC43 and EX 65 for PPH 707 EXTi	1	1	3
2	130001885	Lid assembly (with floater and o-ring) EC35/EC43/EC50/EX65 Internal Charge	1	1	3
	130001886	Lid assembly (with floater and o-ring) EX80 Internal Charge	1	1	3
	130001887	Lid assembly (with floater and o-ring) EX65/EX80 External Charge	1	1	3
	130002049	Lid assembly (with floater and o-ring) EC35/EC50/EX65 Nanobell 801 /803	1	1	3
	130002054	Lid assembly (with floater and o-ring) EC 43 and EX 65 for PPH 707 EXTi	1	1	3
3	130001891	2000 Series Impeller for EC35/EC43/EC50/EX65 Internal Charge and EC50 NANO-BELL 801/803 NANOBELL II	1	1	3
	130001892	2000 Series Impeller for EX80 Internal Charge	1	1	3
	130001894	2000 Series Impeller for EX65 External Charge	1	1	3
	130001895	2000 Series Impeller for EX80 External Charge	1	1	3
	130002050	2000 Series Impeller for EC35 Nanobell 801 / 803	1	1	3
	130002051	2000 Series Impeller for EX65 Nanobell 801 / 803 and Nanobell II	1	1	3
	130002055	2000 Series Impeller for EC43 for PPH 707 EXT i	1	1	3
	130002066	2000 Series Impeller for EX 65 for PPH 707 EXT i	1	1	3
4	130001904	Check valve assembly	1	1	2
5	130001906	Drain pipe Upper part	option	1	3
6	130001905	Horizontal base frame	1	1	3
7	130001907	Drain pipe lower part 2" NPT	option	1	3
8	130001903	Fastener kit (included Bolts, springs and screws 5 of each)	1	1	3

Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
9	130001896	Impeller kit (includes bearing, seal and stem) for EC35/EC43/EC50/EX65 Internal Charge PPH 707 & Nanobell 801/803 and EC50 Nanobell II and EX65/EX80 External Charge	1	1	2
	130001898	Impeller kit (includes bearing, seal and stem) for EX80 Internal Charge and EC 65 Nanobell II	1	1	2
	130002056	Impeller kit (includes bearing, seal and stem) for EC43 /EX65 for PPH EXT i	1	1	2
10	130001880	O-Ring for Floating Seal EC35/EC43/EC50/EX65 Internal Charge PPH 707 and Nanobell II	1	1	2
	130001881	O-Ring for Floating Seal EX80 Internal Charge	1	1	2
	130001882	O-Ring for Floating Seal EX65/EX80 External Charge	1	1	2
	130002048	O-Ring for Floating Seal EC35/EC50/EX65 Nanobell 801 / 803	1	1	2
	130002053	O-Ring for Floating Seal EC43 /EX65 for PPH EXT i	1	1	2
11	130001888	O-ring for lid	1	1	2
12	130001902	Knurl Knob screw kit (4)	1	1	3
13	130001883	Intermediate O-ring EC35/EC43/EC50/EX65 Internal Charge	1	1	2
	130001884	Intermediate O-ring EX65/EX80 External Charge, EC43/EX65 PPH 707 EXT i & EX80 Internal charge	1	1	2

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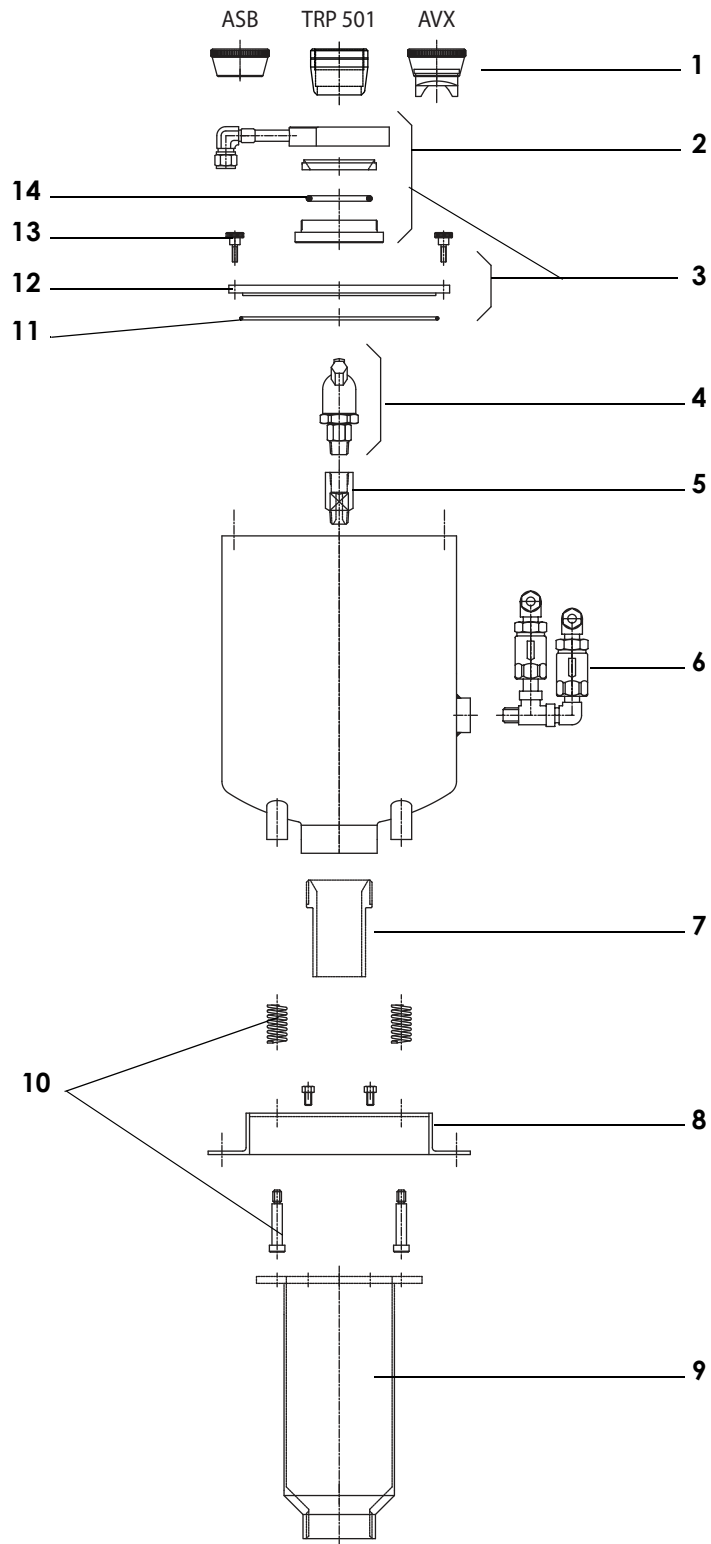
Level 1: Standard preventive maintenance or breakable part possible during an intervention

Level 2: Corrective maintenance

Level 3: Exceptional maintenance

8.3. Bell Atomizer Cleaner, gun version

8.3.1. TRP 501, AVX and ASB



DES08258

Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
1	130002130	Air cap retaining ring for TRP 501	1	1	2
	130002129	Air cap retaining ring for AVX	1	1	2
	130002151	Air cap retaining ring for ASB	1	1	2
2	130002157	High speed drying system fixed seal assembly	1	1	3
3	130002158	Lid assembly	1	1	3
4	130002159	Impeller kit (included seal, fluid delivery stem & proprietary bearing)	1	1	2
5	130001890	Impeller adapter	1	1	3
6	130001904	Check valve assembly	1	1	2
7	130001906	Drain pipe Upper part	option	1	3
8	130001905	Horizontal base frame	1	1	3
9	130001907	Drain pipe lower part 2" NPT	option	1	3
10	130001903	Fastener kit (included Bolts, springs and screws 5 of each)	1	1	3
11	130001888	O-ring for lid	1	1	2
12	130002160	Lid	1	1	2
13	130001902	Knurl Knob screw kit (4)	1	1	3
14	160000289	O-Ring for Floating Seal	1	1	2

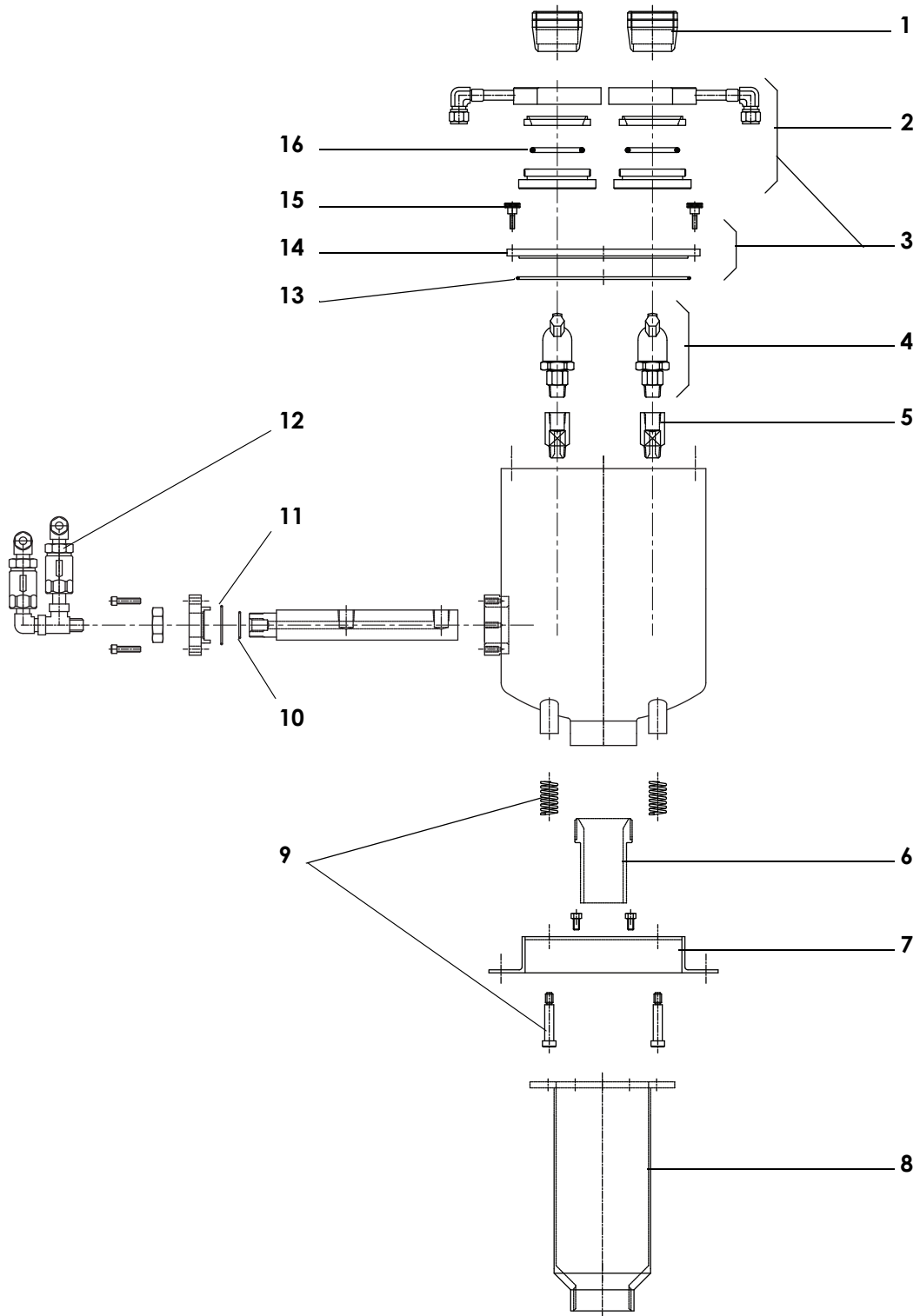
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Level 1: Standard preventive maintenance or breakable part possible during an intervention

Level 2: Corrective maintenance

Level 3: Exceptional maintenance

8.3.2. TRP 502



DIES08259

Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
1	130002130	Air cap retaining ring	2	1	2
2	130002161	High speed drying system fixed seal assembly	2	1	3
3	130002162	Lid assembly	1	1	3
4	130002159	Impeller kit (included seal, fluid delivery stem & proprietary bearing)	2	1	2
5	130001890	Impeller adapter	2	1	3
6	130001906	Drain pipe Upper part	option	1	3
7	130001905	Horizontal base frame	1	1	3
8	130001907	Drain pipe lower part 2" NPT	option	1	3
9	130001903	Fastener kit (included Bolts, springs and screws 5 of each)	1	1	3
10	160000290	O-Ring	1	1	2
11	160000291	O-Ring	1	1	2
12	130001904	Check valve assembly	1	1	2
13	130001888	O-ring for lid	1	1	2
14	130002163	Lid	1	1	2
15	130001902	Knurl Knob screw kit (4)	1	1	3
16	160000292	O-Ring for Floating Seal	2	1	2

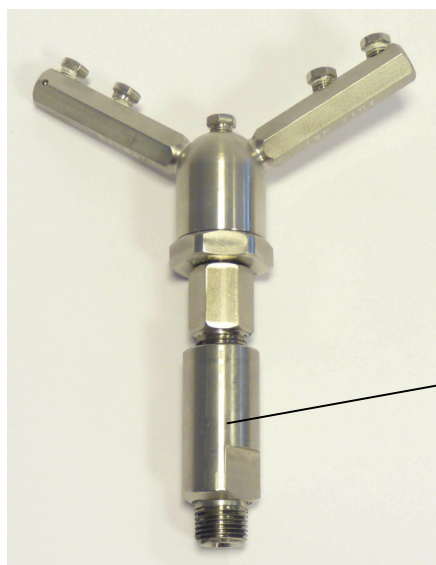
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Level 1: Standard preventive maintenance or breakable part possible during an intervention

Level 2: Corrective maintenance

Level 3: Exceptional maintenance

8.4. Option



Item	P/N	Description	Qty	Unit of sale	Maintenance level for spare part (*)
1	130001930	Box cleaner (2K option)	1	1	3
2	130001889	Impeller adapter	1	1	3

(*)

Level 1: Standard preventive maintenance or breakable part possible during an intervention

Level 2: Corrective maintenance

Level 3: Exceptional maintenance



WARNING : This option is necessary to perform an internal rinsing of the Bell Atomizer Cleaner when 2K products are used.

9. Revision index History

Rev.	Date	Description	Modification locating
A	January 2020	Creation	
B	March 2020	Add bell cup EC43 internal and external charge	§4.2.2.1,§4.2.2.3, add §4.2.4, §8.1 and 8.2
C	September 2021	Add gun version	Add §4.3 and §8.3

10. Appendices

DECLARATION UE DE CONFORMITE
EU DECLARATION OF CONFORMITY
EU-KONFORMITÄTSEKTLÄRUNG
DECLARACIÓN UE DE CONFORMIDAD
DICHIARAZIONE DI CONFORMITÀ UE
DECLARAÇÃO UE DE CONFORMIDADE
EU-CONFORMITEITSVERKLARING




EU-VAATIMUKSENMUKAISUUSVAKUUTUS
DEKLARACJA ZGODNOŚCI UE
EU PROHLÁŠENÍ O SHODĚ
IZJAVA EU O SKLADNOSTI
VYHLÁSENIE O ZHODE
EU-MEGFELELŐSÉGI NYILATKOZAT
DECLARAȚIA DE CONFORMITATE UE

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Déclare que le matériel désigné ci-après / Herewith declares that the equipment / erklart hiermit, dass die / Declara que el material designado a continuación / Dichiaro che il materiale sottoindicato / Declara que o material a seguir designado / verklaart dat de hieronder aangeduide apparatuur / Kungör att den utrustning som anges här nedan / ilmoittaa, että alla mainitut laitteistot / Oświadczam, że wymienione poniżej urządzenia / Prohlašuje, že níže uvedené vybavení / Izjavlja, da je opisana oprema spodaj / Vyhlasuje, že zariadenie uvedené nižšie / Kijelenti, hogy a megjelölt anyag a továbbiakban / Declară că echipamentul precizat mai jos:

BOITE DE RINCAGE BOLS PULVERISATEURS
BELL ATOMIZER CLEANER

Est conforme à la législation d'harmonisation de l'Union applicable suivante / Is in conformity with the relevant Union harmonisation legislation / Erfüllt die einschlägigen Harmonisierungsvorschriften der Union / es conforme con la legislación de armonización pertinente de la Unión / è conforme alla pertinente normativa di armonizzazione dell'Unione / in overeenstemming met de desbetteffende harmonisatiewetgeving van de Unie / med den relevanta harmoniserade unionslagstiftningen / on asiaa koskevan unionin yhdenmukaistamislainsäädännön vaatimusten mukainen / jest zgodny z odnosnymi wymaganiami unijnego prawodawstwa harmonizacyjnego / Shoduje se s nasledujci príslušnou evropskou harmonizační legislatívou / V skladu s harmonizirano zakonodajo Unije / Je v súlade s uplatniteľnými harmonizačnými právnymi predpismi EÚ / Megfelel a következő alkalmazandó uniós harmonizációs szabályozásnak / Este conform cu legislația aplicabilă de armonizare de mai jos

Directive ATEX / ATEX Directive / ATEX Richtlinie / Directiva ATEX / Direttiva ATEX / Diretiva ATEX / ATEX-Richtlijn / ATEX-direktivet / ATEX-direktivi / Dyrektywa ATEX / Směrnice ATEX / Direktiva ATEX / Smernica ATEX / ATEX-irányelv  II 2 G Ex h IIB T4 Gb EN 80079-36 : 2016 - EN 80079-37 : 2016 EN 1127-1 : 2011 – CLC/TR 60079-32-1 : 2018	2014/34/UE
Procédure d'évaluation de la conformité : Module A Documentation technique (Annexe VIII) / Conformity assessment procedure: Module A Technical documentation (ANNEX VIII) / Verfahren zur Konformitätsbewertung: Modul A Technische Unterlagen (ANLAGE VIII) / Procedimiento de evaluación de la conformidad: Módulo A Documentación técnica (ANEXO VIII) / Procedura di valutazione della conformità: Modulo A Documentazione tecnica (ALLEGATO VIII) / Procedimento de avaliação da conformidade: Módulo A Documentação técnica (ANEXO VIII) / Conformiteitsbeoordelingsprocedure: Module A Technische documentatie (BIJLAGE VIII) / Förfarande för bedömning av överensstämmelse: Modul A Teknisk dokumentation (BILAGA VIII) / Vaatimustenmukaisuusarviointimenetelmä: moduuli A Tekninen dokumentaatio (LIITE VIII) / Procedura oceny zgodności: Moduł A Dokumentacji technicznej (ZAŁĄCZNIK VIII) / Postup posuzování shody: Modul A Technická dokumentace (PŘÍLOHA VIII) / Postup posudzovania zhody: Modul A Technická dokumentácia (PRÍLOHA VIII) / Megfelelősegértékelési eljárás: A. modul Műszaki dokumentáció (VIII. MELLÉKLET) / Procedura de evaluare a conformității: Modulul A Documentația tehnică (ANEXA VIII): N° INERIS-EQEN xxxx	

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant / This declaration of conformity is issued under the sole responsibility of the manufacturer / Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller / La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante / La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante / A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante / Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant / Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar / Tämä vaatimustenmukaisuusvakuutus on annettu valmistajan yksinomaisella vastuulla / Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta / Toto prohlášení o shodě se vydává na výhradní odpovědnost výrobce / Za izdajo te izjave o skladnosti je odgovoren izključno proizvajalec / Toto vyhlásenie o zhode sa vydáva / na vlastnú zodpovednosť výrobcu / Ezt a megfelelőégi nyilatkozatot a gyártó kizárólagos felelőssége mellett adják ti / Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului.

Directeur Recherche & Développement / Research & Development Director / Direktor für Forschung & Entwicklung / Director de Investigación y Desarrollo / Direttore Ricerca e sviluppo / Diretor de Pesquisa e desenvolvimento / Manager Onderzoek en Ontwikkeling / Direktör för Forskning och Utveckling / Johtaja tutkimus ja kehitys / Dyrektor ds. Badań i rozwoju / Ředitel výzkumu a vývoje / Direktor za raziskave in razvoj / Riaditeľ pre výskum a vývoj / Kutatási és Fejlesztési Igazgató / Director de cercetare și dezvoltare	Richard WLODARCZYK 
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Fait à Meylan, le / Established in Meylan, on / Geschehen zu Meylan, am / En Meylan, a / Redatto a Meylan, / Vastgesteld te Meylan, / Utformat i Meylan, den / Meylan, Ranska, / Sporządzono w Meylan, dnia / Meylan, dnia / V Meylanu, / V Meylan dňa / Kelt Meylanban, / Întocmită la Meylan, pe data de 23/08/2021 – 08/23/2021