

TECHNICAL MANUAL

NITA AV automatic Hose Reel

Item No. 23-12162

Item No. 23-12164

Item No. 23-12166

Item No. 23-12168

Item No. 23-12170

Item No. 23-12172

Item No. 23-12163

Item No. 23-12165

Item No. 23-12167

Item No. 23-12169

Item No. 23-12171



Issue 05.2026

GENERAL INFORMATION

Nita ScanFoam thanks you for purchasing this product. The user must read this instruction manual before use and use the product in accordance with the instructions contained therein. Nita ScanFoam reserves the right to make changes to this manual without prior notice.

The warranty period is 12 months from the date of purchase. The warranty claim only covers the replacement of defective parts. The warranty does not cover misuse of the product. Any tampering or modification of the product will invalidate the warranty claim.

SAFETY PRECAUTIONS

Keep the product away from flames. Do not install the product in locations where there is a risk of explosion or fire.

The reel should be installed in a location that does not pose a hazard to operators. Use the product under appropriate lighting conditions.

Do not service the reel when the system is under pressure. When dismantling the reel (e.g., to replace spare parts), pay particular attention to sudden retraction of the drum (risk of crushing hands).

Persons not using the product must maintain a safe distance during work phases.

CAUTION: Never open the spring assembly, as this is extremely dangerous!

Challenge: Hose reel comes loose from the lock when closing the wash gun

In some situations, hose reels release from their locking position after the wash gun is closed and automatically retract the hose. This is not only annoying for the operator, but also poses a hazard, as the recoiling hose and wash gun can injure people or damage equipment.

The release from the locking position is caused by kickback in the hose when the wash gun is closed. The abrupt stop of the water flow causes kickback in the hose, which moves the hose reel to the next locking position and subsequently releases it from the locking position. The automatic reel then abruptly retracts the hose and the user often loses their grip on the wash gun.

The following measures can be taken to minimize backflow. Often, several of these measures are necessary to achieve the desired improvement.

1. For water pressures up to 40 bar (medium pressure), a wash gun with a shut-off delay should be used.
2. Unroll the entire length of the hose before starting the cleaning process.
3. Ensure that the user does not use the wash gun without a cleaning nozzle, e.g. by permanently attaching the nozzle to the wash gun or lance.

4. Use smaller nozzle sizes to reduce the amount of water.
5. Install a water pressure reducer in the water supply to the hose reel.

Please contact our technical support team for assistance with implementing the measures. We are happy to help!

INSTALLATION

The installation must be carried out by qualified technicians.

Do not use the hose reel near heat sources or flames. Keep a safe distance from live cables.

First check the condition of the wall where the hose reel is to be installed. Assess the total weight of the product (reel, hose, and liquid) in advance.

Use suitable lifting gear or a suitable strap when lifting. Strictly follow the applicable legal regulations on occupational safety.

The hose reel should be attached to the wall with screws that are suitable for the weight of the product and the stress exerted by the operators. The hose reel has holes with a diameter of 13 mm. Therefore, use screws with a maximum diameter of 12 mm. Use wall anchor screws in all holes of the mounting plate.

The connection to the swivel joint must be made with a flexible hose.

OPERATION

Once you release the mechanical lock, you must hold the hose in your hand while winding it up to prevent it from being pulled in quickly and uncontrollably.

The product is intended for use by a single operator.

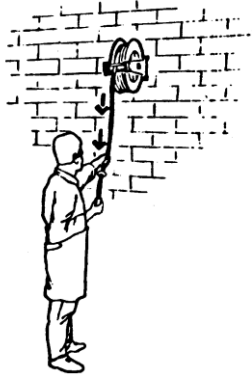
The user should always wear appropriate protective equipment (e.g., gloves, overalls, shoes, safety goggles) when using the product.

Before each use, ensure the following:

- Is the hose reel securely attached to the wall?
- Is there no contact with electrical cables?

Follow these steps during operation:

1) Unroll the hose



Pull the hose away from the reel toward your work area.

2) Lock hose reel in place



Stop unwinding when you have enough hose length to carry out your cleaning task without any problems. Please note that the hose reel can only be locked in certain positions.

3) Perform cleaning procedure

Open the medium supply to the reel and perform the cleaning process by opening the wash gun or valve cap at the end of the hose.

4) Roll up the hose



Release the lock by unrolling the hose a little further. Once the lock is released, hold the hose firmly in your hand to prevent it from being pulled in quickly and uncontrollably. Using the pulling force of the drum, slowly guide the hose back until it is completely rolled up and the hose stopper is at the inlet stop of the reel.

5) Disconnect medium supply

Turn off the medium supply to the hose reel so that it is not under pressure when not in use.

6) Adjusting the brake (for 23-12162 to 23-12166)

1. Remove the frame with cover by loosening 4 screws



2. Remove the frame from the cover



3. If necessary, adjust the braking effect by turning the screw shown. Test the braking effect after each turn



4. Install the frame with cover



MAINTENANCE WORK

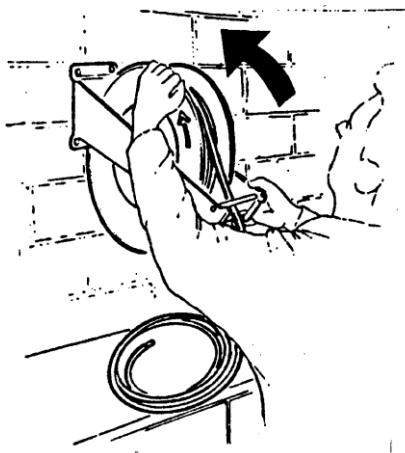
Do not service the system when the spring is under tension or there is residual pressure in the hose. Release the residual pressure in the hose and roll the hose onto the reel. Wear appropriate protective equipment when performing maintenance work.

Do not place your hands or other objects in the reel. If the reel is locked, never attempt to unlock it from the outside using tools such as screwdrivers or wrenches. Instead, contact our technical support team.

Check the following at least every 2 months:

- Spring tension feed
- Function of the locking mechanism
- Hose connections and condition of the hose
- Wall mounting

To install hoses, follow these steps:



- Only allow trained personnel to perform this task.
- Wear suitable protective clothing, including gloves.
- Connect the hose to the hose reel.
- Wind up the hose by turning the reel in the direction indicated by the arrow.
- Determine the starting point of the spring action. This position can be found by turning the reel to the point where you can feel the spring tension begin.
- Turn the reel in the opposite direction to the arrow by the number of turns indicated on the label.
- Lock the drum by observing the locking mechanism.
- Pull the end of the hose through the inlet window.
- Attach the hose stopper to the hose so that the end of the hose is at a suitable height for the operator.

To remove hoses, follow these steps:

- Only trained personnel (2 people) should perform this task.
- Wear suitable protective clothing, including gloves.
- Person 1: Turn off the medium supply to the hose reel and release the test print.
- Person 1: Unroll the hose completely.
- Person 1: Lock the drum.
- Person 2: Position yourself safely next to the hose reel.
- Person 2: Hold the hose drum firmly. Do not rely on the lock. Do not place your hands between the side frame and the drum.
- Person 1: Disconnect the hose from the reel.
- Person 1: Remove the hose.
- Person 1: If necessary, attach a new hose.
- Person 2: Carefully guide the reel until the tension is released.

TECHNICAL SPECIFICATIONS

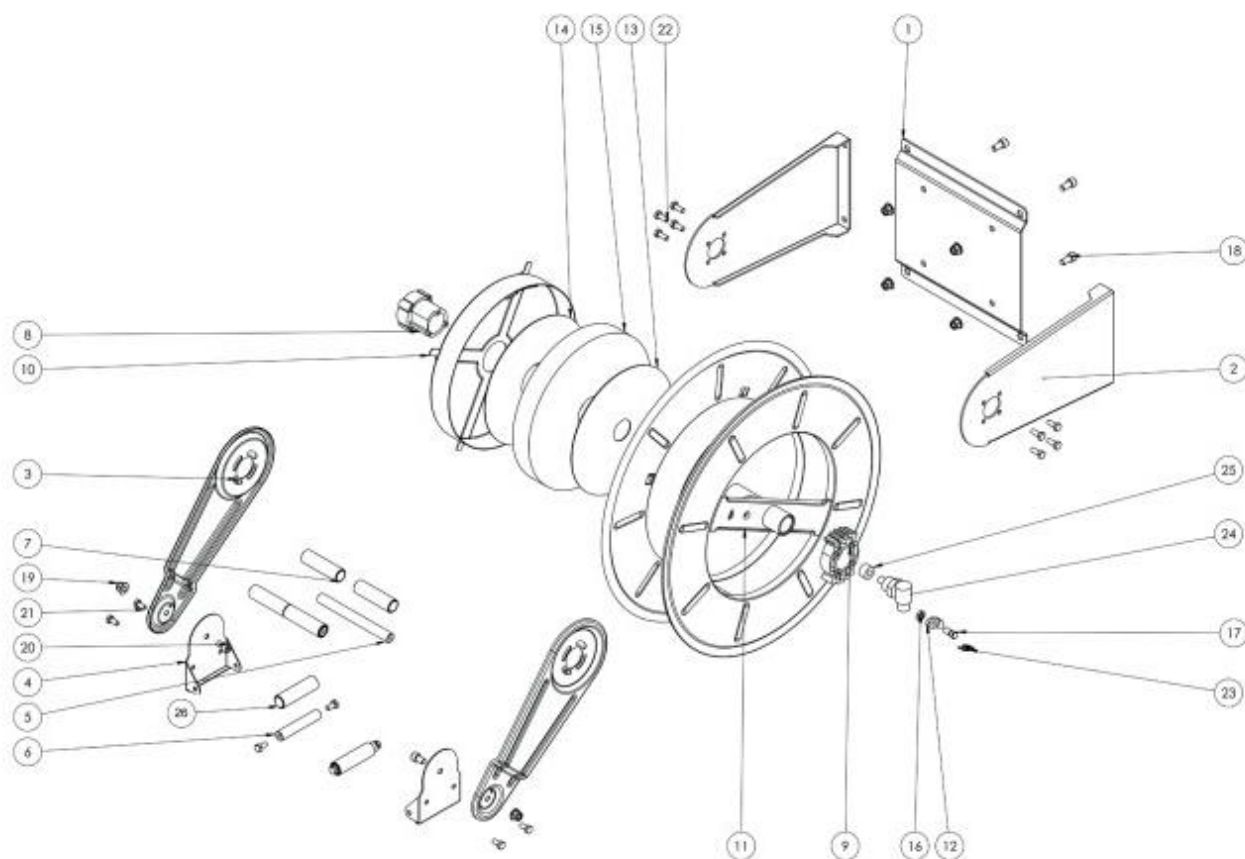
The reels are made of AISI 303/304 stainless steel. The main springs inside are made of steel.

Model	Inlet connection	Outlet connection	Maximum hose length			Max. pressure bar	packaging cm	Weight kg
			3/8"	1/2"	3/4"			
23-12162 (with brake)	swivel joint 1/2" male thread	1/2" female thread	20 m	20 m		200	28x60x55	20
23-12163 (with brake)	swivel joint 1" male thread	3/4" female thread			15 m	80	34x61x66	31
23-12164 (with brake)	swivel joint 1/2" male thread	1/2" female thread	35 m	35 m		200	34x61x66	31
23-12165 (with brake)	swivel joint 1" male thread	3/4" female thread			25 m	80	34x61x66	32
23-12166 (with brake)	swivel joint 1" male thread	3/4" female thread			35 m	80	50x62x70	35
23-12167	swivel joint 1/2" male thread	1/2" female thread	20 m	20 m		200	28x60x53	17
23-12168	swivel joint 1" male thread	3/4" female thread			15 m	80	33x61x65	28
23-12169	swivel joint 1/2" male thread	1/2" female thread	35 m	35 m		200	33x61x65	28
23-12170	swivel joint 1" male thread	3/4" female thread			25m	80	34x61x66	31
23-12171	swivel joint 1" male thread	3/4" female thread			35 m	80	50x62x70	34
23-12172	swivel joint 1" male thread	1/2" female thread	60 m	60 m		200	60x60x60	50

Operating conditions: Temperature between 5°C and 40°C

Drawings and spare parts for the models:

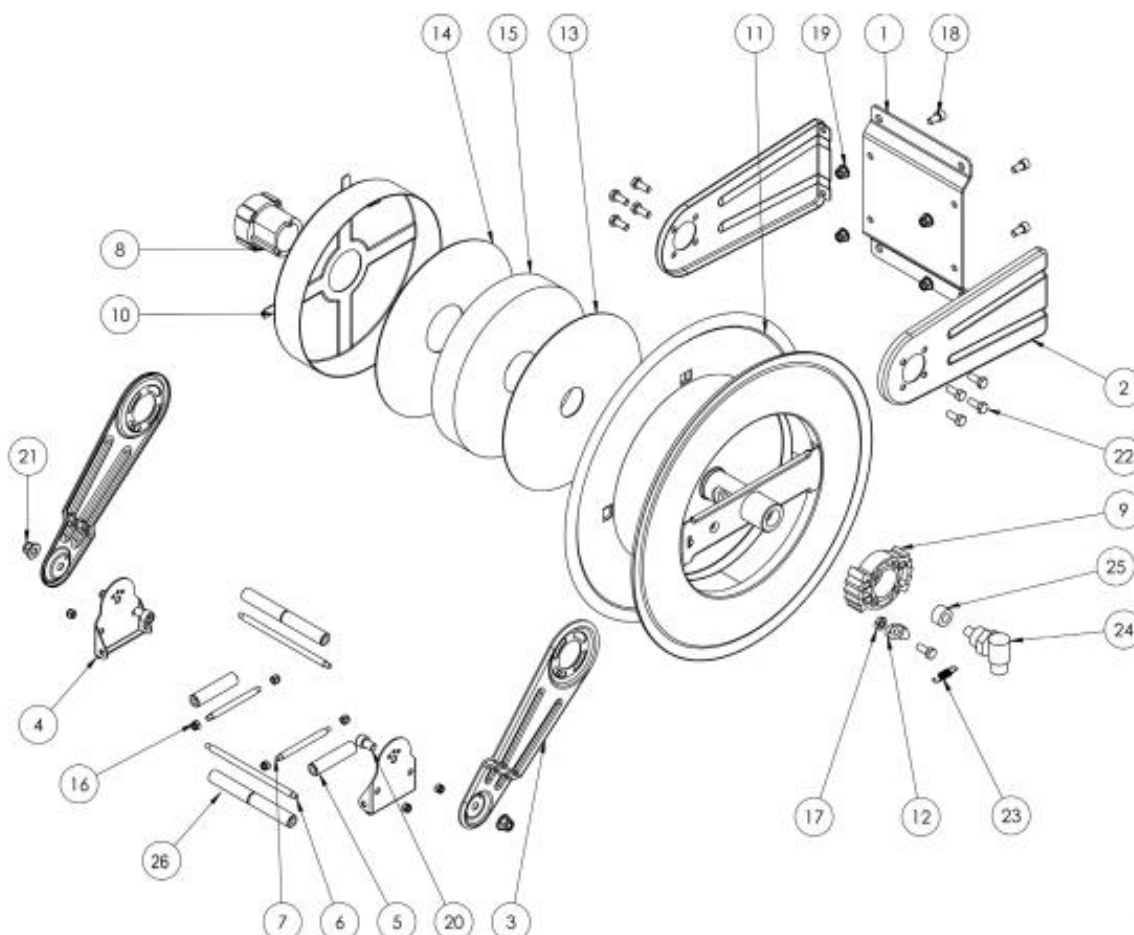
23-12165, 23-12166, 23-12168, 23-12169, 23-12170, 23-12171



Pos.	Item No.	Description
8,10,13,14,15	62-2228	Drive spring kit
9	62-2243	Ratchet
12,17,23	62-21807	Replacement spring and ratchet pin
12	62-21809	Ratchet pin
23	62-2258	Spring
24,25	50-42174	Replacement inlet swivel joint 1"
24,25	50-42173	Replacement inlet swivel joint 1/2", for 23-12169
25	62-28235	Repair kit for replacement inlet swivel joint

Drawings and spare parts for the models:

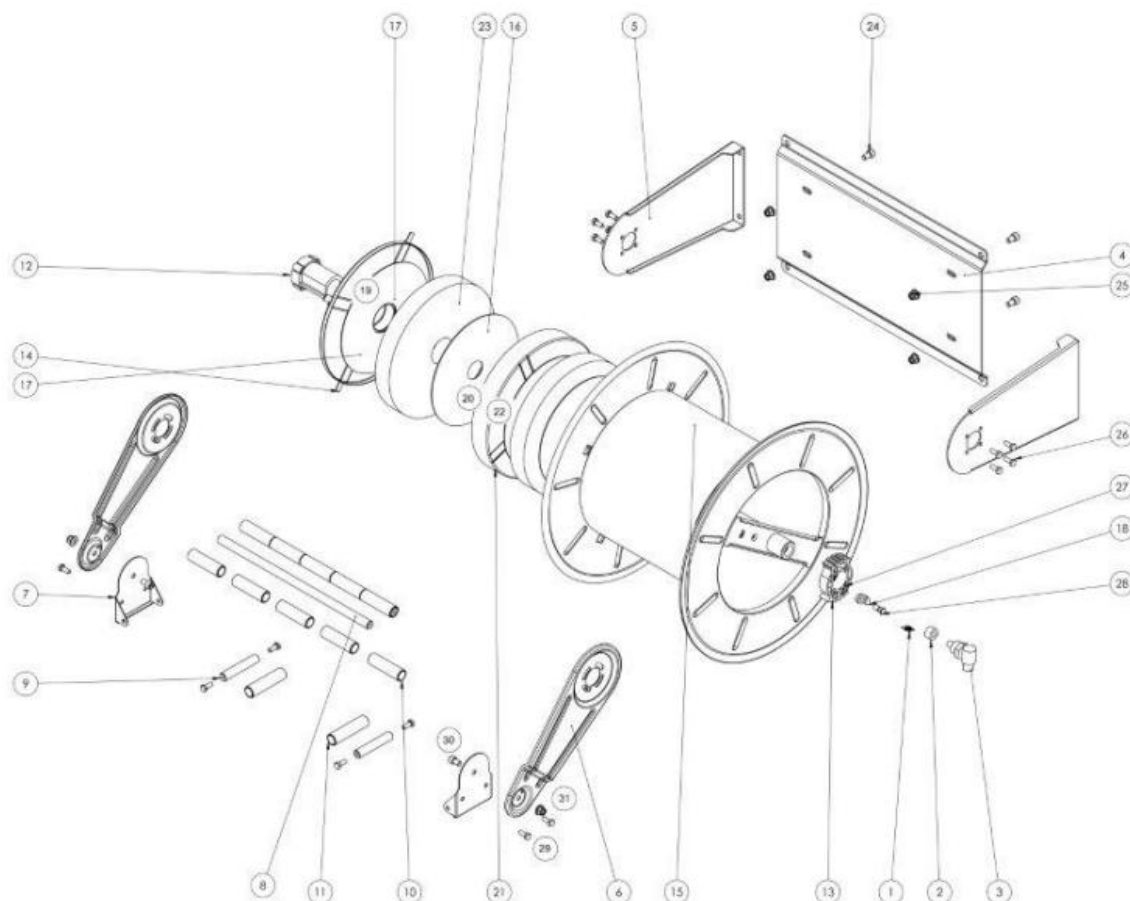
23-12167



Pos.	Item No.	Description
8,10,13,14,15	62-2228	Drive spring kit
9	62-2243	Ratchet
12,17,23	62-21807	Replacement spring and ratchet pin
12	62-21809	Ratchet pin
23	62-2258	Spring
24,25	50-42173	Replacement inlet swivel joint 1/2"
25	62-28235	Repair kit for replacement inlet swivel joint

Drawings and spare parts for the models:

23-12172



Pos.	Item No.	Description
1,18,27,28	62-21807	Replacement spring and ratchet pin
1	62-2258	Spring for ratchet
18	62-21809	Ratchet pin
2,3	50-42173	Replacement inlet swivel joint 1/2"
2	62-21818	Seal kit for swivel joint
13	62-2243	Ratchet

DECLARATION OF CONFORMITY

Nita Hygiene GmbH confirms that the “NITA AV automatic hose reel” complies with the provisions of the directives—including amendments—on the approximation of the laws of the EEC:

- Machinery Directive 2006/42 / EC



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