

Use and Maintenance Manual



Extraction system ROL-TP

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 811R27 ROL-TP-4-1,5 10.01.2019/EN
 811R28 ROL-TP-4-2,5 10.01.2019/EN

1. Introductory Remarks

The purpose of the present Use and Maintenance Manual is to supply User with directions within the range of application, installation, start-up and the use of the **ROL-TP extraction system**.

Installing, start up and operational use are exclusively admissible after getting acquainted with the contents of the Use and Maintenance Manual.

With regard to continuity of work carried on improvement of our products, we reserve for ourselves the revision possibility of the draft and technological changes improving their functional features and safety.

Construction of the **ROL-TP** extraction system meets the requirements of the current state of technology as well as the safety and health assurances included in:

– **2006/42/EC Machinery Directive** of the European Parliament and of the Council of May 17th, 2006 on machinery – amending the 95/16/EC (recast) /*Journal of Laws EC L157 of 09.06.2006, page 24*/

Additionally, the appliance meets following harmonized standard:

- **EN ISO-12100:2012** – “Safety of machinery – Basic concepts, general principles for design. Risk assessment and risk reduction”

2. Application

ROL-TP extraction system is efficient in extraction of dust- gaseous impurities from the mobile workplaces. It can be adapted for effective exhaust extraction from vehicles that are not moving. The system can serve vehicles, where their exhaust pipes are directed upright, as well as vehicles with traditional horizontal exhaust pipes.

The extraction system can work with a fan that is installed on a wall bracket or on a roof base. Additionally, it can be connected to a ducting of general extraction system.

3. Reservations of Producer

- A. Manufacturer accepts no liability for any consequences following from the operational use that is in contradiction to the purpose of application.
- B. Installing of any additional elements not belonging to the normal device structure (or accessory set) is not acceptable.
- C. Do not undertake any structural changes or constructional modifications on the device on one's own.
- D. Protect the flexible elements and the suction ducts from mechanical damage.
- E. Prior to installing, check the load carrying capability of the building structure where the system will be mounted. Unsure installing can result in uncontrolled device detachment and hazard to personnel / people in the vicinity.
- F. The system cannot be used for conveying the air containing aggressive impurities or substances causing explosion hazard.

4. Technical Data

Table No.1

Type	Diameter Dn [mm]	Recom- mended flow [m ³ /h]	Range					Weight [kg]	Maximum torque M [Nm]	Types of extension arms
			L ₁ [mm]	L ₂ [mm]	L _{max} [mm]	H _{max} [mm]	H _{min} [mm]			
ROL-TP-2,5-1,5	160	1000	2460	1700	4160	3200	1800	127	3500	RO-2,5-E-L/Y + RO-1,5-E-L/X
ROL-TP-2,5-2,5	160	1000	2460	2230	4690	3200	1800	132	3800	RO-2,5E-L/Y + RO-2,5-E-L/X
ROL-TP-4-1,5	160	1000	3710	1700	5410	3200	1800	158	5000	RO-4-E-L/Y + RO-1,5-E-L/X
ROL-TP-4-2,5	160	1000	3710	2230	5940	3200	1800	163	5710	RO-4-E-L/Y + RO-2,5-E-L/X

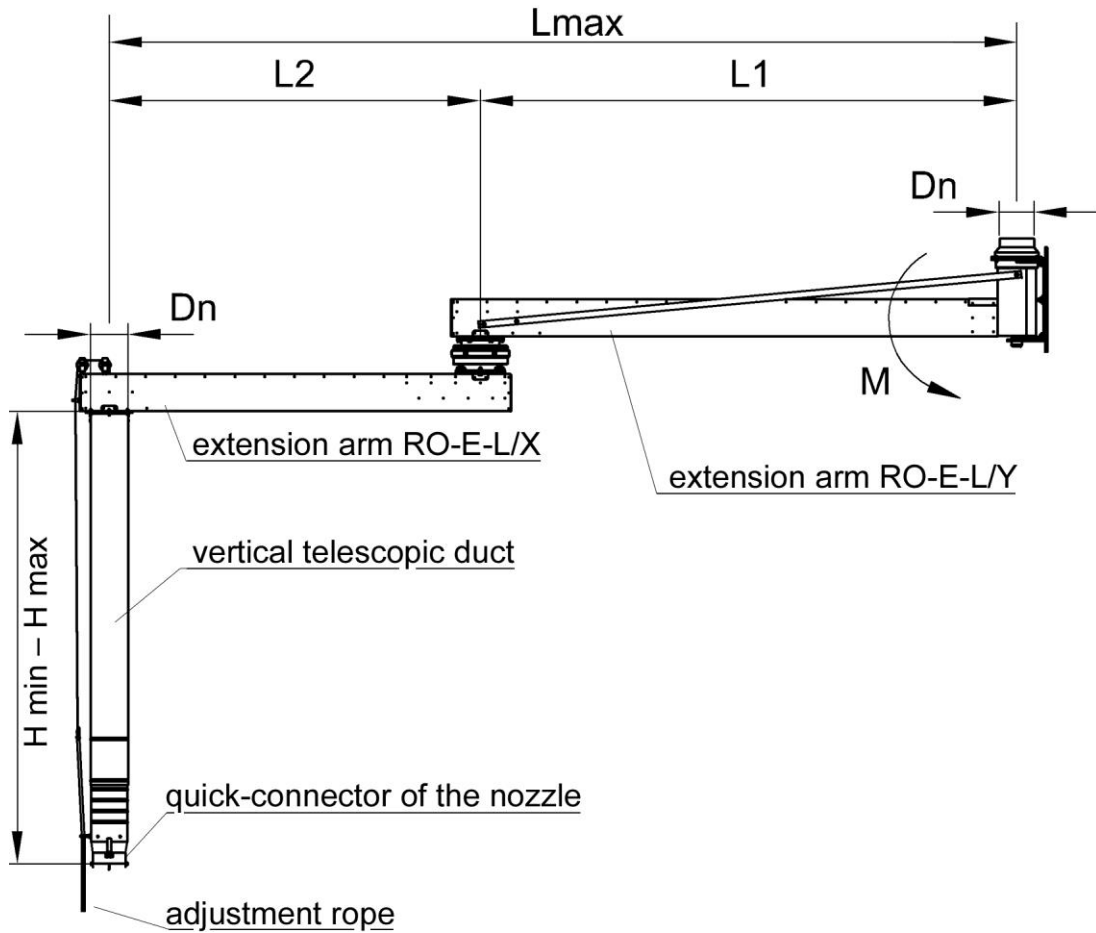
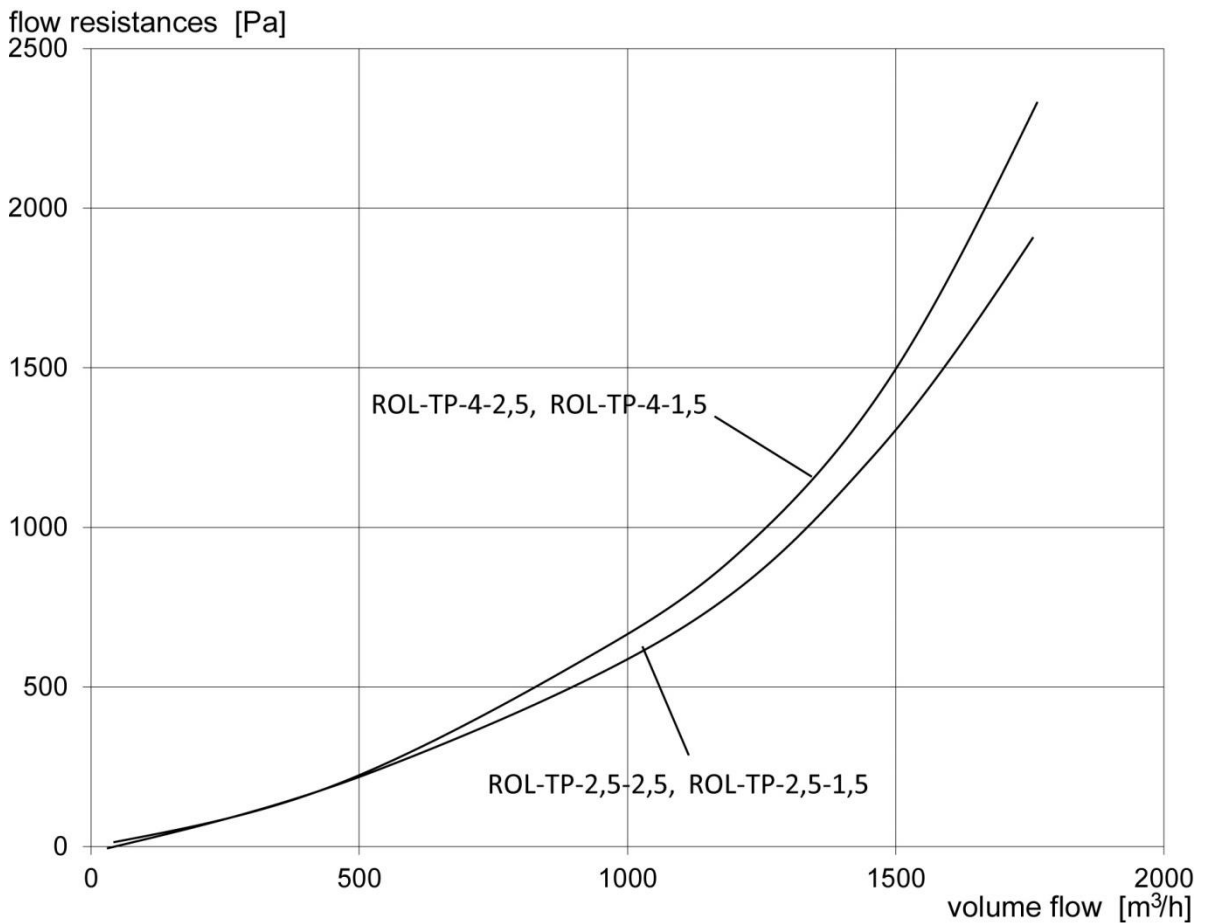
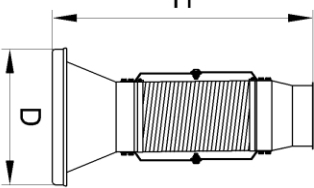
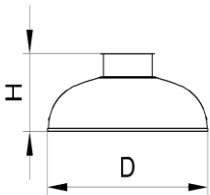
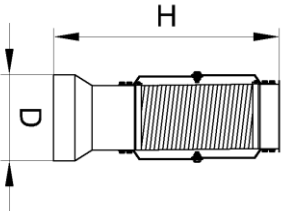

Fig. No.1 – Extraction system ROL-TP

Fig. No.2 – ROL-TP – Flow chart

Table No.2 – Nozzles, Hoods

Sort of the nozzle	Type	Part.No.	Dimensions		Weight [kg]	Remarks
			D [mm]	H [mm]		
nozzle ERGO 	SE-L-160	819S81	160	635	2,6	aluminium, the hose is fastened by means of a quick- connector
suction hood 	SO-L-500	819S82	500	540	2,0	aluminium, the hose is fastened by means of a quick- connector
Nozzle for exhaust pipes 	SW-L-200	819S83	200	190	3,0	metal, the hose is fastened by means of a quick- connector

5. Structure and Function

ROL-TP extraction system consists of subsequent assemblies:

- a set of two extension arms
- vertical telescopic duct
- nozzle / hood

The extension arm consists of a bearing swivel and a square section vertical steel sheet duct. Motion resistances are minimalised, therefore it is easy to move arm horizontally. Two extension arms are mounted in a „broken” version, i.e. one extension arm is suspended at the end of the other arm, whereas the telescopic duct is fastened at the end of the terminal extension arm. The segmented vertical telescopic duct gives a possibility of setting the nozzle / hood in a requested height and, additionally, it can be locked by means of an adjustment rope.

The nozzle / suction hood is fastened (by means of a quick-connector) to the telescopic duct. For choice are three sorts of nozzles:

- ERGO nozzle – for welding fumes extraction,
- suction hood – for welding fumes extraction and for vertical exhaust pipes
- nozzle for horizontal exhaust pipes.

At the end of the telescopic duct is introduced a shut-off damper. Its lever gives possibility of adjustment of the volume of the extracted air.

6. Assembly and Start-up

Prior to installing (of the extraction system) check the load carrying capacity of the wall or other building structure, if this is able to overtake the torque M as given in Table No.1.

Before choosing the sort of extraction, select and fasten through a quick-connector the suitable nozzle / hood. Subsequently, adjust the extensions arms appropriately and, by means of the adjustment rope, set the nozzle / hood at convenient height.

Before welding or exhaust gas extraction, it is important to switch on the ventilation system (or the extraction fan).

7. Operational Use

Low motion resistances and easy manoeuvring with the extraction system provides convenient operational use. After the work is completed, slide the internal duct segment into the external segment. Additionally, set the arms in such position that does not cause barrier for personnel / people in the vicinity.

8. Troubleshooting Guide

Table No.3

	Problem	Possible reason	Corrective action
1.	the extension arm sets automatically always in the same position	the swivel mounting is not levelled in vertical position	Adjust the swivel by levelling the mounting plate of the whole extraction system
2.	the extension arm is turning with too high or too low rotation resistance	improperly adjusted swivel	tighten or release the adjustment nuts
3.	reduced extraction volume efficiency, along with increased noise of the extraction system (with the suction arm)	incorrect impeller rotation sense of the extraction fan	change the phase sequence of the power supply for the three-phase motor
		the holes of the hood inlet grid are clogged	clean the hood inlet grid with steel wire brush

9. Maintenance

Maintenance consists in following steps:

- Periodically clean the surface of the nozzle / hood and its inlet grid, from the deposited impurities, dusts, to obtain full extraction efficiency. Additionally, in case of welding fumes extraction, sprinkle them with anti-spattering preparation.
- Evert three months – lubricate the swivel with solid grease (the lubrication nipple is located in the swivel flange).
- After one year of use, or after the part replacement or repair of an element (when its wear has been noticed) – undertake technical supervision.
- Clean the internal surface of the duct segments from the deposited impurities. Frequency of these activities depends on the intensity of use. **Every three months, it is recommended to examine the cleanness of the segments and remove the impurities when necessary.**

10. Occupational Health and Safety

ROL-TP extraction system will not cause any hazard under the condition that they are firmly and correctly installed to the wall or other constructional element of the building. Unsure mounting could result in uncontrolled detachment of the system and cause hazard to people in the vicinity. After the completed work, leave the device in ultimately used position, in such a configuration that would not cause barrier to the operator / personnel.

Before the installing check the load carrying capacity of the building structure. During the operational use necessarily observe the regulations of Occupational Health and Safety.

11. Transport and Storage

The system is transported in assemblies separately:

- RO-E-L/Y extension arm,
- RO-E-L/X extension arm
- telescopic duct with a nozzle / hood.

The unit ought to be stored in dry rooms and in areas of efficient ventilation.

During the transport / reloading protect the device from mechanical damage, scratching, indents, package damage and pay attention that the surface markings do not get detached / obliterated.

12. Terms of warranty

The period of warranty for the purchased device is indicated in the “Card of Warranty”. The warranty does not comprise:

- device failures caused during the use which is in contradiction with the purpose of application and with the present Use and Maintenance Manual,
- mechanical damages and malfunctions caused by User,
- changes / modifications introduced by User on one’s own,
- malfunction resulting from normal operational wear.

Infringement of the Clause G Section 3 “Reservations of Producer” of the present Use and Maintenance Manual and especially modifications undertaken by User on one’s own or use in contradiction with the purpose of application – shall result in the loss of warranty validity.

13. Sample of the Declaration of Conformity

Declaration of conformity EC No.

Manufacturer (eventually the authorized representative / importer):

name: **KLIMAWENT S.A.**

address: **81-571 Gdynia, Chwaszczyńska 194**

A person, authorized for issuing the technical documentation: Teodor Świrbutowicz, KLIMAWENT S.A. hereby declares that the appliance:

name: **extraction system**

type/model: **ROL-TP**

serial number: year of production:

meets the requirements of the subsequent European Directives:

- **2006/42/EC Machinery Directive** of the European Parliament and of the Council of May 17th, 2006 on machinery – amending the 95/16/EC (recast) /*Journal of Laws EC L157 of 09.06.2006, page 24*

The appliance meets following harmonized standard:

- **EN ISO-12100:2012** – “Safety of machinery – Basic concepts, general principles for design. Risk assessment and risk reduction”

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place, date

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signature of authorised person
District Court Gdańsk-Północ
in Gdańsk, VII Wydział Gospodarczy
of the National Register of Court
KRS 0000308902 company stock
13.779.200 zł paid in total

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name, surname, function
of the signatory
NIP: 958 159 21 35
REGON: 220631262
Bank Account: **Santander Bank Polska S.A.**
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