ROL-TP –
point extraction set

Purpose

The ROL-TP extraction systems is meant for dust-gas contamination extraction at mobile workplaces. Additionally, it can be used for effective removal of exhaust gas emitted through exhaust pipe of vehicles not being in movement. Generally, the appliance can serve vehicles with a vertical exhaust pipe (directed upwards) as well as traditional vehicles with horizontal exhaust pipe. The extraction set can work with a fan mounted on a wall bracket or located on a roof. Additionally, the assembly can be connected to a collecting extraction ductwork.

Structure

ROL-TP set consists of following elements:

- set of two rotational arms,
- vertical telescopic duct
- suction hood.

The rotational arm consists of a swivel with bearing, and a horizontal metal duct of square section.

Friction movement resistance is minimal, allowing for easy movement of the arm in the horizontal plane.

Two rotational arms are connected together in a “broken” version (i.e. one arm is suspended at the end of the other arm), whereas the vertical telescopic duct is fastened at the end of the terminal rotational arm. The segmented vertical telescopic duct provides positioning of the hood in the requested height and it is possible to block it by means of an adjusting cable.

A hood is fastened at the telescopic duct through a quick-connector. We have a choice of three sorts of hoods: ERGO hood to extract welding fumes, large extraction hood to remove welding fumes or exhaust gas from vertical exhaust systems and extraction nozzle for gas removal from vertical exhaust pipe.

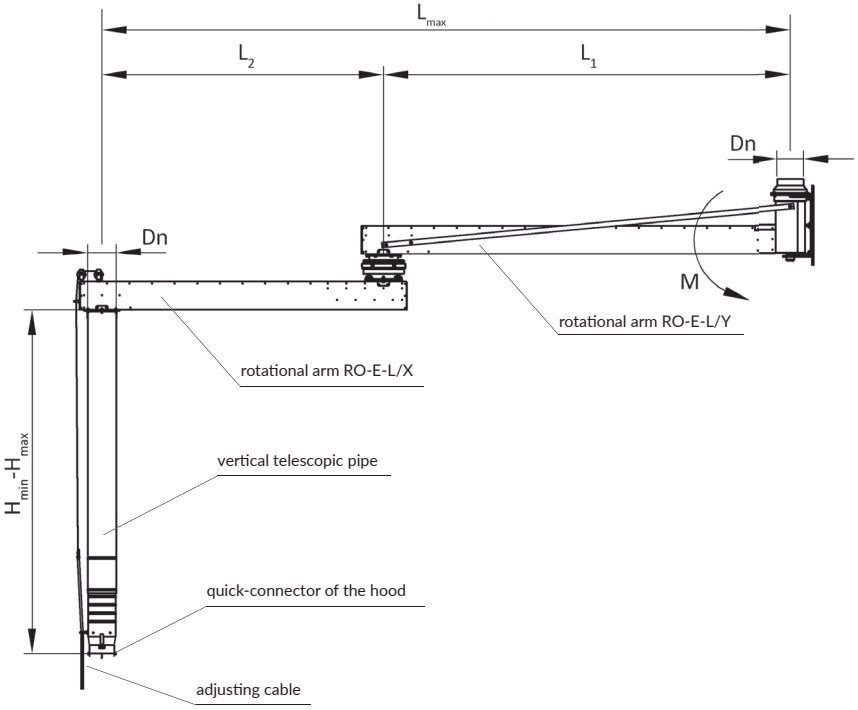
Operational use

Before the start of the process, it is important to fasten through a quick-connector a suitable hood, adjust adequately the set of rotational arms, and then with an adjustment cable set the hood in adequate height.

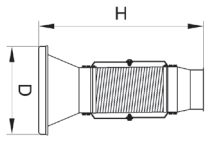
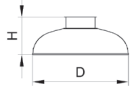
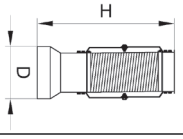
Technical data

Type	Part no.	Nominal diameter Dn [mm]	Recommended volume flow [m³/h]	Workrange					Weight [kg]	Maximum torque M [Nm]	Sort of the applied rotational arms
				L_1 [mm]	L_2 [mm]	L_{max} [mm]	H_{max} [mm]	H_{min} [mm]			
ROL-TP-2,5-1,5	811R25	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	811R26	160	1000	2460	2230	4690	3200	1800	132	3800	RO-2,5-E-L/Y + RO-2,5-E-L/X
ROL-TP-4-1,5	811R27	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	811R28	160	1000	3710	2230	5940	3200	1800	163	5710	RO-4-E-L/Y + RO-2,5-E-L/X

NOTE: Prior to installing of the extraction assembly, check if the load carrying capacity of the wall (or other constructional element) is sufficient to resist the torque M and select the appropriate mounting bolts.



Hood

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

Flow charts