

Technical data sheet

SLIDING EXTRACTION SYSTEMS

CA

Aerial sliding rail duct extraction system with square profile



APPLICATIONS



The rail duct and trolley systems were designed to allow the extraction of automotive exhaust gases, in general, in the following applications:

- Systems for emissions tests or servicing of vehicles in movement (in line with the system) to which appropriate nozzles are attached to the exhaust and connected to the extraction system
- Centralised systems for lifts or multiple work areas where the installation of wall or ceiling-mounted devices is not possible or impractical.

FEATURES

Our rail duct extraction systems were designed to simplify and increase flexibility of systems installed in the automotive sector. Profile bars in extruded magnesium-aluminium alloy are used, supplied in kit form in various lengths which can be connected together, allowing customised lines to be created based on specific requirements of the individual vehicle workshop.

All versions use our own exclusively designed sealing and closing system, in "EPDM" rubber, resistant to gas and high temperatures

Made with special profiling ensuring a perfect fit at low vacuums, facilitating the ogive sliding within the trolleys, maintaining a perfect air tightness.

The hose runners have been designed and resized for the different uses necessary to satisfy the air of all automotive and truck models; they are equipped with special Teflon wheels complete with bearings to increase glide inside the external aluminium profiles.

The CA series rail duct has two possible air extraction sections (CA22 and CA24), and provides greater airflows (and therefore a higher number of hose runners).

One of the exclusive advantages of the Aerservice sliding system is its ease of assembly.

In fact, the ducts are pre-mounted during the production stage, including the introduction of rubber into the aluminium profile, an operation which is not easily carried out on site.

The movement of the hose runners which connect and transport an extraction duct in the longitudinal direction, the rubber hose in the diameters indicated for cars, truck, etc., is carried out as follows:

- Manually, by the operator, for multi-user lines, using the flexible hose connected to the trolleys, or with ropes equipped with



handles, in the case of hose reels.

- For vehicles with engines running during the stages of overhauling in Rev Kit overhauling systems, complete with an automatic decoupler for the nozzle specifications designed for this aspiration.

The rail duct extraction systems use extractor fans from our range, in the versions specified, and in the case of single users or little simultaneous use, they may be installed on rail ducts with rigid hoses on discharge

In more complex multi-user systems, the extraction fan is fitted close to systems in technical rooms, on the ground or wall-mounted in the case of large systems, and even externally.

In this case, our technical office can provide the best technical solutions for sizing the system and the layout of rigid hoses for the extraction/discharge of gases.

CERTIFICATIONS



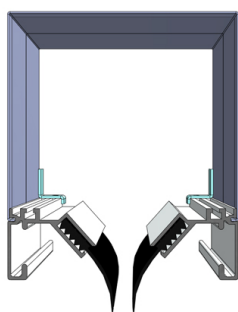
TECHNICAL DATA

The data is guaranteed, even for TGA hoses of different lengths (7 - 10 - 13 - 15 m)

MOD.	Mod. Trolleys	Mod. Hose reels	Simultaneous	Mod. Fan	Total flow rate	Max. recommended length for fan extr. Ø	Avail. Pressure
-	-	-	-	-	m ³ /h	L. mt. - Ø mm	Pa
CA 22	CST 1 d. 75	--	2 max	VA 30	600	20 mt. - Ø 150 mm	250
CA 22	--	ARHC 75	1 max	VA 30	300	30 mt. - Ø 150 mm	400
CA 22	--	AHRC 100	1 max	VA30	450	30 mt. - Ø 150 mm	400
CA 22	CST 1 d. 75	--	4 max	EV 18	1.200	30 mt. - Ø 200 mm	400
CA 22	CST 2 d. 100	--	3 max	EV 18	1.350	30 mt. - Ø 200 mm	600
CA 22	CST 3 d. 125	--	2 max	EV 18	1.400	30 mt. - Ø 200 mm	500
CA 22	CST4 d.150	--	1 max	EV 18	1.100	30 mt. - Ø 200 mm	700
CA 22	--	ARHC 75	4 max	EV 18	1.200	30 mt. - Ø 200 mm	400
CA 22	--	AHRC 100	3 max	EV 18	1.350	30 mt. - Ø 200 mm	350
CA 22	--	AHRC 125	2 max	EV 18	1.400	30 mt. - Ø 200 mm	300
CA 22	--	AHRC 150	1 max	EV 18	1.100	30 mt. - Ø 200 mm	500

DIMENSIONS

The internal duct speed is calculated at about 20 m/sec., which we recommend as the maximum velocity, to facilitate the glide of the runners and the correct evacuation of gases.



MOD.	Dimensions H x B x L	Max. recommended flow rate	Head loss	Weight (excluding trolleys and brackets)
-	mm	m ³ /h	Pa	Kg
CA 22/2	220 x 200 x 2000	3000	40	22,50
CA 22/4	220 x 200 x 4000	3000	70	45,00
CA 24/2	220 x 400 x 2000	6000	30	28,50
CA 24/4	220 x 400 x 4000	6000	55	75,00

ACCESSORIES

PRE-ARRANGED CONFIGURATIONS

To simplify sizing, Aerservice offers a series of pre-assembled KITS, complete with duct, trolley, flexible anti-crush hose (7.5 m), attachment for hanging the hose (ATS), centrifugal fan (EV) and junction brackets.

CA with EXTRACTION FAN

Mod. duct	Mod. trolleys	Trolleys	Extraction Fan	Power	Motor rpm	Voltage
Ø mm	Ø mm	N°	MOD.	kW / HP	N°	Pa
CA 1 Ø 75	CST 1 Ø 75	1	VA 30	0,55/0,75	2840	230/400/50
CA 1 Ø 100	CST 1 Ø 100	1	VA 30	0,55/0,75	2840	230/400/50
CA 1 Ø 125	CST 2 Ø 125	1	EV 18	1,1/1,5	2840	230/400/50
CA 1 Ø 150	CST 2 Ø 150	1	EV 18	1,1/1,5	2840	230/400/50
CA 2 Ø 75	CST 1 Ø 75	2	VA 30	0,55/0,75	2840	230/400/50
CA 2 Ø 100	CST 1 Ø 100	2	VA 30	0,55/0,75	2840	230/400/50
CA 2 Ø 125	CST 2 Ø 125	2	EV 18	1,1/1,5	2840	230/400/50
CA 2 Ø 150	CST 2 Ø 150	2	VA 40	1,5/2	2840	230/400/50
CA 3 Ø 100	CST 1 Ø 100	3	EV 18	1,1/1,5	2840	230/400/50

PACKAGING



WEIGHT 51 KG
VOLUME m³ 0.51 (430X28X42 cm.)

QR CODE

