Difair

Serie C_TR



MOTORIZED CURVED
BLADES GRILLE

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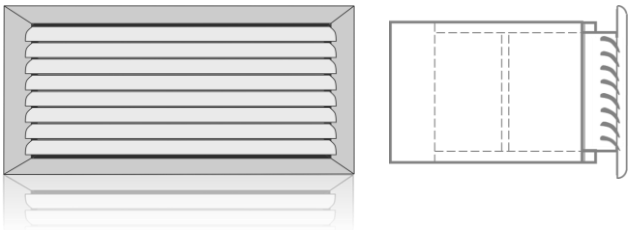
info@difair.es

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28703 San Sebastián de los Reyes, Madrid.

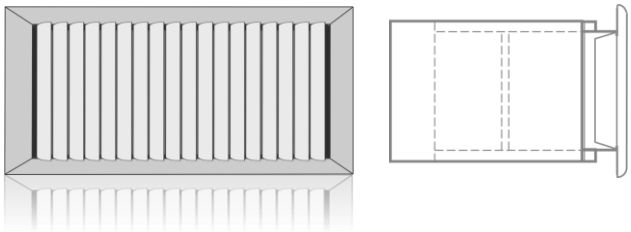
MOTORIZED CURVED BLADES GRILLE
SERIES C_TR



MODELS

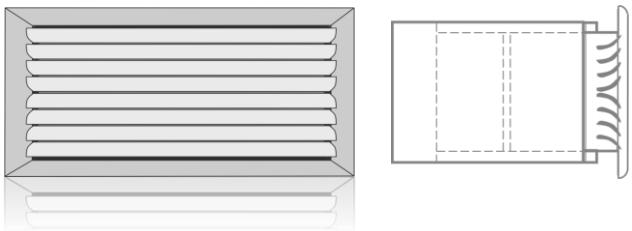


C10TR
Motorized curved-blades grille, single-direction airflow. Horizontal blades.

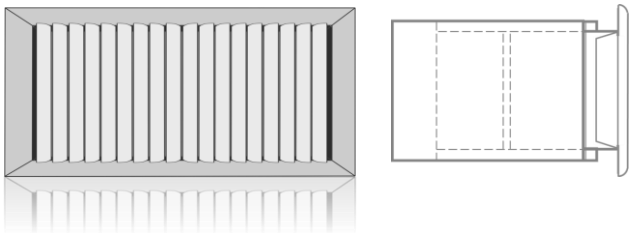


C11TR
Motorized curved-blades grille, single-direction airflow. Vertical blades.

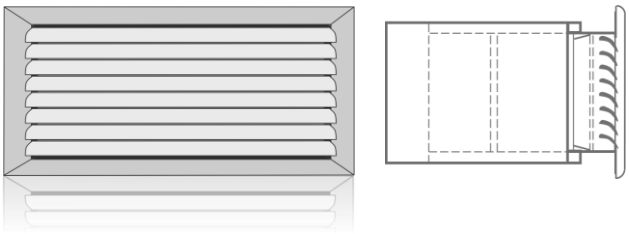
C10TR2D
Motorized curved-blades grille, dual-direction airflow. Horizontal blades.



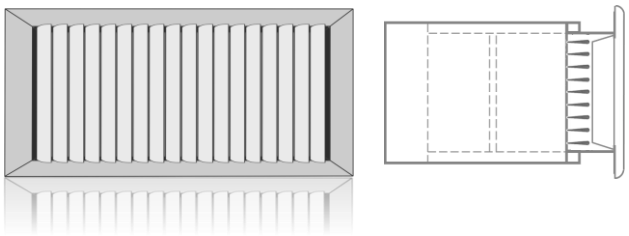
C11TR2D
Motorized curved-blades grille, dual-direction airflow. Vertical blades.



MODELOS

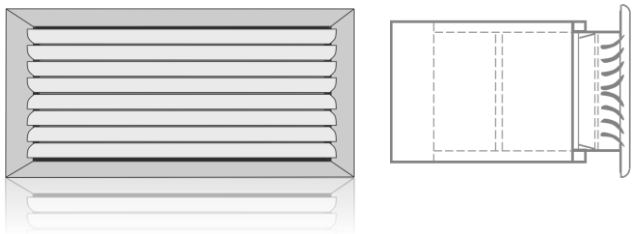


C20TR
Motorized curved-blade grille, dual-deflection, 1st deflection horizontal, 2nd deflection vertical.

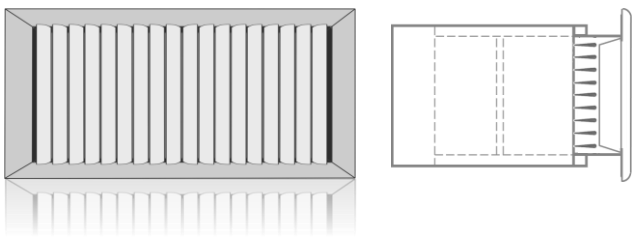


C21TR
Motorized curved-blade grille, dual-deflection, 1st deflection vertical, 2nd deflection horizontal.

C20TR2D
Motorized curved-blade grille, 2-way airflow, dual deflection: 1st deflection horizontal, 2nd deflection vertical.



C21TR2D
Motorized curved-blade grille, 2-way airflow, dual deflection: 1st deflection vertical, 2nd deflection horizontal.



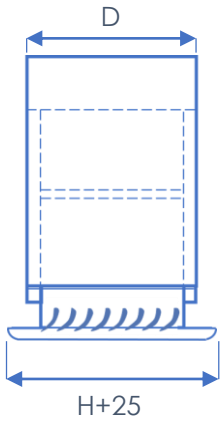
DESCRIPTION

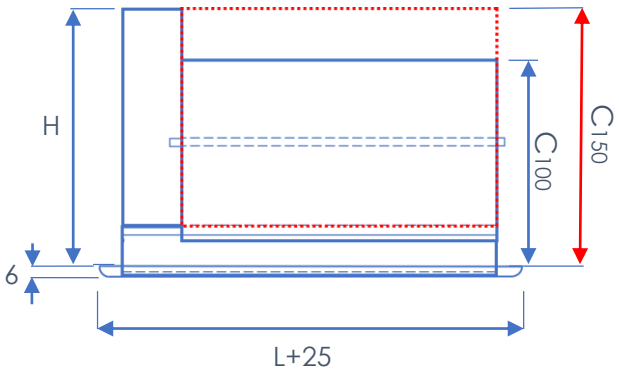
The new zone control and home automation systems allow for individualized temperature control of different zones using a single **HVAC** unit, thereby increasing comfort in each room. These systems reduce the unit's operating time, extending its service life and providing energy savings. The motor operates completely silently, promoting rest and comfort when the vents are installed in bedrooms or offices.

DIFAIR's exclusive **C__TR** grilles can be integrated into any existing control system on the market, since all they require to operate is a **220 V** or **24 V** power supply to open them. This system can range from a simple switch to the most complex home automation system on the market.

DIMENSIONS

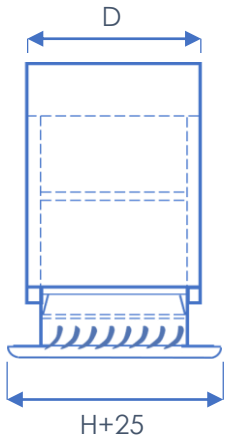
C10TR-C10TR2D-C11TR-C11TR2D

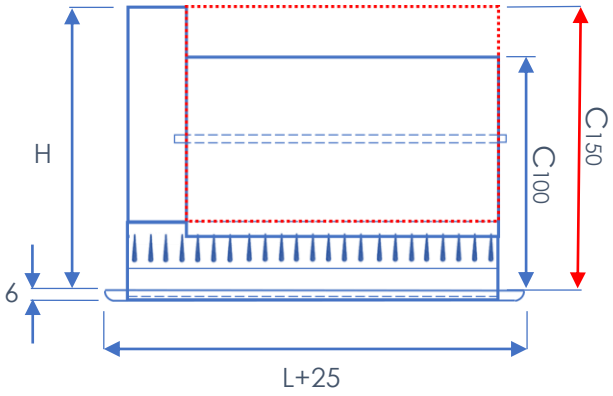




	Size	H (mm)	C (mm)	D (mm)
C10TR-C10TR2D-C11TR-C11TR2D	L x 100 L x 200	134	C_{100} = 106	C_{100} = 87
C10TR-C10TR2D-C11TR-C11TR2D	L x 150 L x 250 L x 300	154	C_{150} = 154	C_{150} = 135

C20TR/C21TR





	Size	H (mm)	C (mm)	D (mm)
C20TR-C20TR2D-C21TR-C21TR2D	L x 100 L x 200	156	C_{100} = 128	C_{100} = 87
C20TR-C20TR2D-C21TR-C21TR2D	L x 150 L x 250 L x 300	176	C_{150} = 176	C_{150} = 135

L X H → Nominal Size = Hole Size

Dimensions may be specified as L x H, with a maximum of 1,000 x 300 and a minimum of 200 x 100 (including the mounting frame).

CONSTRUCTION FEATURES

Curved blades grille, single or dual defletion, made of anodized or painted aluminum, with motorized adjustment (damper) consisting of a frame made of aluminum or steel sheet painted with black epoxy paint. A single natural aluminum blade with built-in rubber gaskets to ensure optimal airtightness in this type of installation. Highly durable brass bushings.

It incorporates a low-power, thermosilicon-coated electrical device. This damper control mechanism is an exclusive **DIFAIR** design that makes no noise when activated (only the sound of air flowing through it can be heard).

CONSIDERATIONS:
To achieve zone-by-zone temperature control, any supply grille in an HVAC system may be replaced with one from this series (**C_TR**), provided that, if the grilles being replaced account for more than 60% of the system's total airflow, a weighted overpressure damper (RCSLP SERIES) must be installed to divert the excess airflow back to the unit's return duct, thereby preventing noise and/or potential duct damage caused by excess pressure.

ACCESSORIES

- **PLENUM BOX** (View the **PLENUM SERIES** technical data sheet).

FINISH

- Grille made of **ANODIZED ALUMINUM.**
- Grille made of **WHITE-PAINTED** aluminum **(RAL 9016).**
- On request, it can be manufactured in lacquered aluminum according to the **RAL** color chart.

TECH. SPECIFICATIONS OF THE THERMOACTUATOR MOTOR

Unless otherwise specified, the following characteristics must be verified at room temperature = **25 ± 5°C** and relative humidity = **45–75%**.

- **CORROSION RESISTANCE OF METAL PARTS**
  According to **UNE-EN-60335-1**, section **31**.

- **RESISTENCIA A LA HUMEDAD**
  Degree of protection against water ingress: **IP 00** (unprotected, per **IEC 60529**). Resistance to humid conditions: per **UNE-EN 60730-2-14**, Section **12.2** (Part **2-14** – Section **12.2**). Although the "silicone-molded" actuator does not have a higher IP rating, it can operate under severe environmental and relative humidity conditions (see **2.2** Operating Conditions).

- **HUMIDITY RESISTANCE**
  According to **UNE-EN-60730-2-14**, Section **21** (Part **2-14** – Section **21**). The plastic materials of the thermoactuator that come into contact with the active parts are classified as **V0** self-extinguishing (**0.8 mm**) according to **UL94**. The thermoactuator also successfully passes the **140°C** ball test, **ref. UNE-EN-60335-1**, section **30.1** (Part **1** – Section **30.1**).

- **RESISTANCE TO SURFACE CURRENTS**
  According to **UNE-EN 60730-2-14**, section **21** (Part **2-14** – section **21**), the plastic materials of the thermoactuator that come into contact with live parts are guaranteed to have a **PTI 250** resistance to surface currents, in accordance with **IEC 60112**.

ELECTRICAL CHARACTERISTICS

- **POWER SUPPLY VOLTAGE**
  Available power ranges:
  -110/240 V_{AC} at 50/60 Hz.
  -12/24 V_{AC} at 50/60 Hz.
  -12/24 V_{DC}.

- **ENERGY ABSORPTION:**
  Power absorption under steady-state conditions after 300 seconds of operation.

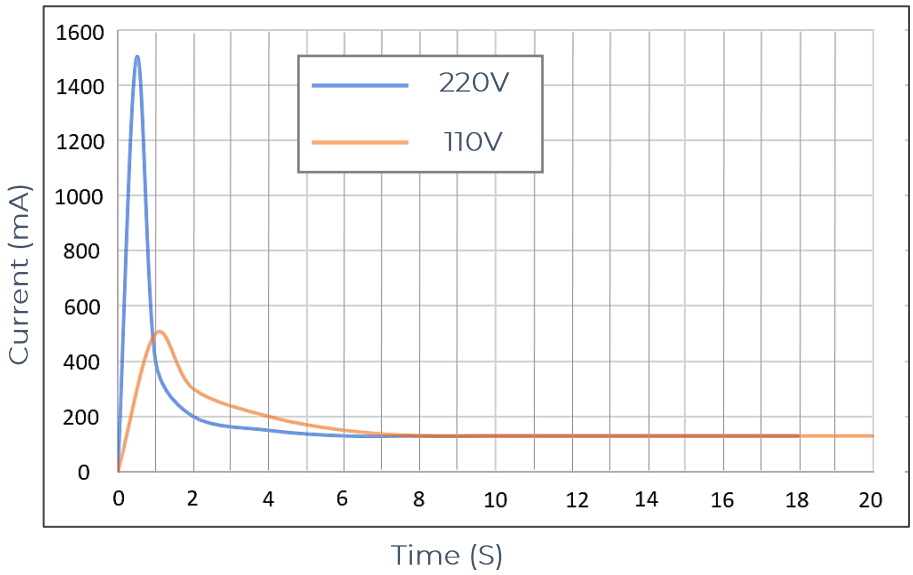
12/24 V	110V	220V
2.8 ± 1W	5.8 ± 1W	5.5 ± 1W

- **CARACTERÍSTICA DE CURVA INTENSIDAD/TIEMPO**

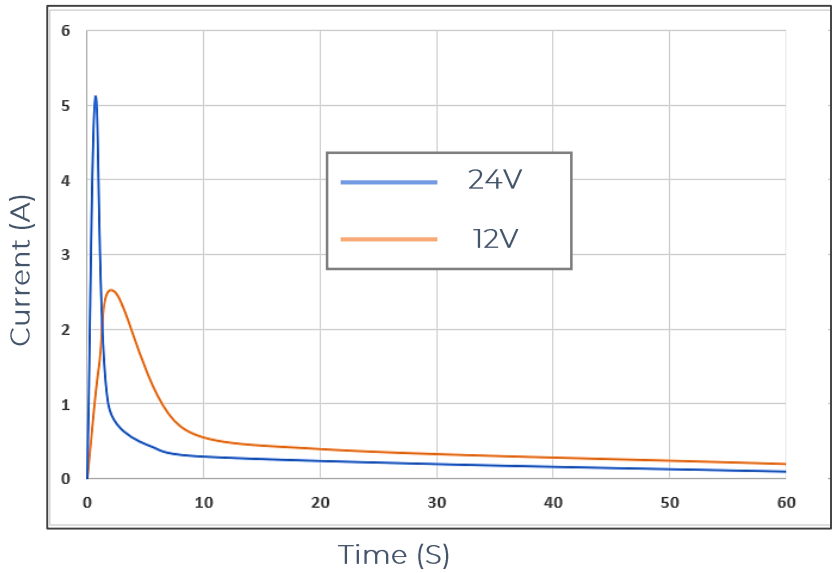
  A diagram illustrating the variation in current absorption over time. The curves are categorized by thermoactuator type and voltage.

  The diagram was obtained under the following conditions:
  - thermoactuators energized for more than 5 minutes;
  - no counteracting load;
  - ambient temperature of 25°C.

CURRENT ABSORPTION FOR 110-220V MOTOR



CURRENT ABSORPTION FOR 12-24 Vdc MOTOR



ENERGY CONSUMPTION PER MOTOR

MODEL	Consumption:			
	Pico de consumo hasta 120 sg		Consumo estable a partir de 120 sg	
C10TR-C10TR2D-C11TR-C11TR2D 220V	110 V	0,5 A	110 V	0,05 A
C20TR-C20TR2D-C21TR-C21TR2D 220V	220 V	1,5 A	220 V	0,03 A
C10TR-C10TR2D-C11TR-C11TR2D 24V	12 VDC	2,4 A	12 VDC	0,25A
C20TR-C20TR2D-C21TR-C21TR2D 24V	24 VDC	5 A	24 VDC	0,15 A

MODEL	Available voltage supply range:
C10TR-C10TR2D-C11TR-C11TR2D 220V **C20TR-C20TR2D-C21TR-C21TR2D 220V**	110 ÷240 VAC a 50 ÷ 60 Hz.
C10TR-C10TR2D-C11TR-C11TR2D 24V **C20TR-C20TR2D-C21TR-C21TR2D 24V**	- 12 ÷ 24 VAC a 50 ÷ 60 Hz - 12 ÷ 24 VDC

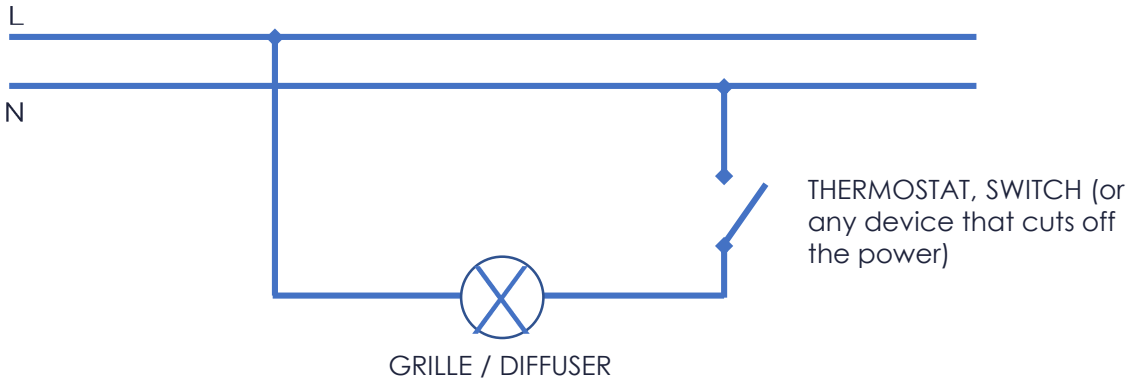
Note: The C_TR SERIES motorized grilles are manufactured in a standard 220V configuration; therefore, unless otherwise specified at the time of ordering, they will be supplied at this voltage.

NUMBER OF MOTORS PER GRILLE BASED ON SIZE

	200	250	300	350	400	450	500	600	700	800	900	1000
100	1	1	1	1	1	1	1	2	2	2	2	2
150	1	1	1	1	1	1	1	2	2	2	2	2
200	2	2	2	2	2	2	2	4	4	4	4	4
250	2	2	2	2	2	2	2	4	4	4	4	4
300	2	2	2	2	2	2	2	4	4	4	4	4

Note: When calculating electricity consumption, take into account the number of motors per grille

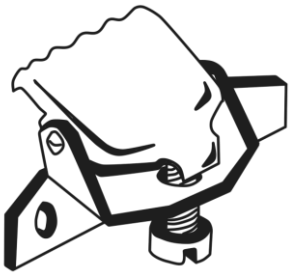
CONNECTION DIAGRAM

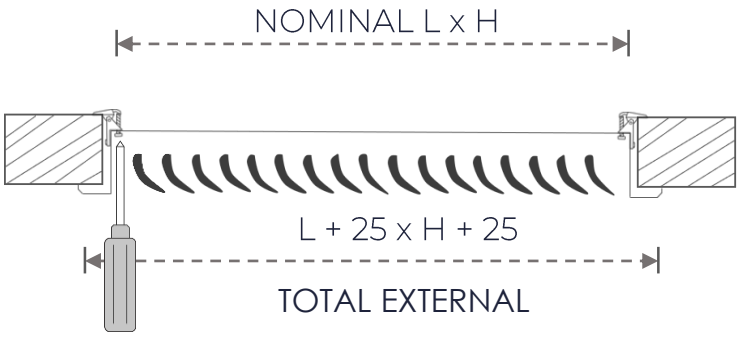


FIXING SYSTEM

GRILLE ASSEMBLY WITH CONCEALED FIXING (Compatible only with double deflection models: C20TR, C20TR2D, C21TR y C21TR2D)

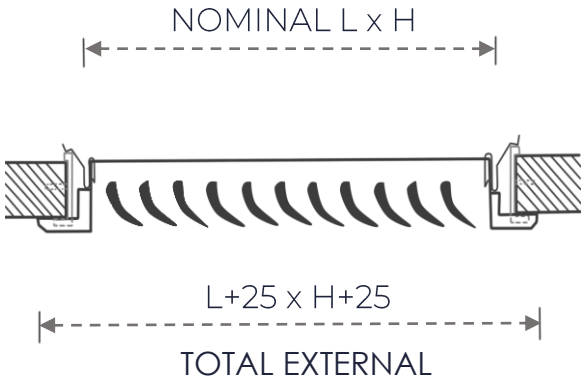
This type of fixing is the standard system for this series. Using a screwdriver to drive the indicated screw, the tongue is pressed onto the mounting frame, thus holding the grille firmly in place. To remove the grille, simply loosen the screw and the steel spring returns the claw to its horizontal position.

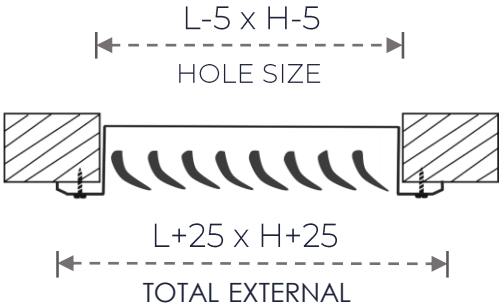




FIXING BY MEANS OF PRESSURE CLIPS

Once the mounting frame has been received, place the grille in the resulting recess and press until the grille is attached to the wall. The pressure that the clips exert on the mounting frame prevents the grille from slipping out of the mounting frame.





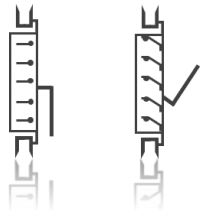
SCREWS FIXING

The grille is supplied with countersunk holes. Screws not included.

NOMINAL= L X H

FLOW MEASUREMENT

$m^3/h = m/s \times m^2 \times 3.600$



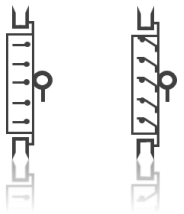
By Pitot tube:

Measurements must be taken at several points on the grille, the arithmetic measurement of all of them allows us to determine the effective suction velocity.

By anemometer:

The entire surface of the grille must be traversed with it to obtain the suction velocity.

$m^3/h = m/s \times m^2 \times 3.600$



EFFECTIVE SECTION (m^2)

MOD. C10TR-C11TR-C10TR2D-C11TR2D

H \ L	200	250	300	350	400	450	500	600	700	800	900	1.000
100	0.00765	0.01030	0.01295	0.01560	0.01825	0.02090	0.02355	0.02723	0.03253	0.03783	0.04313	0.04843
150	0.01500	0.01975	0.02450	0.02925	0.03400	0.03875	0.04350	0.05138	0.06088	0.07038	0.07988	0.08938
200	0.02073	0.02758	0.03443	0.04128	0.04813	0.05498	0.06183	0.07228	0.08598	0.09968	0.11338	0.12708
250	0.02808	0.03703	0.04598	0.05493	0.06388	0.07283	0.08178	0.09643	0.11433	0.13223	0.15013	0.16803
300	0.03543	0.04648	0.05753	0.06858	0.07963	0.09068	0.10173	0.12058	0.14268	0.16478	0.18688	0.20898

MOD. C20TR-C21TR-C20TR2D-C21TR2D

H \ L	200	250	300	350	400	450	500	600	700	800	900	1.000
100	0.00614	0.00828	0.01043	0.01258	0.01472	0.01687	0.01901	0.02168	0.02597	0.03027	0.03456	0.03885
150	0.01248	0.01639	0.02030	0.02421	0.02812	0.03203	0.03594	0.04214	0.04996	0.05778	0.06560	0.07342
200	0.01720	0.02287	0.02855	0.03422	0.03989	0.04557	0.05124	0.05934	0.07069	0.08204	0.09338	0.10473
250	0.02354	0.03098	0.03842	0.04585	0.05329	0.06073	0.06817	0.07979	0.09467	0.10955	0.12442	0.13930
300	0.02988	0.03908	0.04829	0.05749	0.06669	0.07589	0.08509	0.10025	0.11865	0.13706	0.15546	0.17386

MOTORIZED CURVED BLADES GRILLE
SERIES C_TR

QUICK SELECTION TABLE

Dimensions		200 x 100		300 x 100 200 x 150		400 x 100 250 x 150 200 x 200		500 x 100 350 x 150 250 x 200		600 x 100 400 x 150 300 x 200		700 x 100 450 x 150 350 x 200		500 x 150 300 x 250		550 x 150 400 x 200 350 x 250		500 x 200 400 x 250	
Flow m3/h	**Blade Orientation**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**
100	Minimum Range m	0,8	0,5	0,7	0,5	0,5	0,4												
	Maximum Range m	1,3	0,9	1,1	0,8	1	0,7												
	Static pressure mm c.a	0,15	0,15	0,05	0,1	0,05	0,05												
	Sound Level dB NC	-	-	-	-	-	-												
150	Minimum Range m	1,2	0,8	1	0,7	0,9	0,6	0,8	0,6	0,7	0,5	0,7	0,5						
	Maximum Range m	1,9	1,3	1,6	1,2	1,5	1	1,3	0,9	1,2	0,9	1,1	0,8						
	Static pressure mm c.a	0,3	0,4	0,15	0,2	0,1	0,1	0,05	0,1	0,05	0,05	-	0,06						
	Sound Level dB NC	15	16	-	10	-	-	-	-	-	-	-	-						
200	Minimum Range m	1,6	1,1	1,4	1	1,2	0,9	1,1	0,8	1	0,7	0,9	0,7	0,9	0,6	0,8	0,6		
	Maximum Range m	2,6	1,8	2,2	1,6	2	1,4	1,8	1,3	1,7	1,2	1,5	1,1	1,5	1	1,4	1		
	Static pressure mm c.a	0,6	0,7	0,3	0,4	0,2	0,25	0,15	0,15	0,1	0,1	0,05	0,1	0,05	0,05	0,06	0,05		
	Sound Level dB NC	21	23	15	17	-	12	-	-	-	-	-	-	-	-	-	-		
250	Minimum Range m	2	1,4	1,7	1,2	1,5	1,1	1,4	1	1,3	0,9	1,2	0,8	1,1	0,8	1,1	0,7	1	0,7
	Maximum Range m	3,2	2,3	2,8	2	2,55	1,8	2,3	1,6	2,1	1,5	1,9	1,4	1,8	1,3	1,7	1,2	1,6	1,1
	Static pressure mm c.a	0,95	1,1	0,5	0,6	0,3	0,4	0,2	0,25	0,15	0,2	0,1	0,15	0,1	0,1	0,05	0,1	0,05	0,05
	Sound Level dB NC	26	28	20	22	15	17	11	13	-	-	-	-	-	-	-	-	-	-
300	Minimum Range m	2,4	1,7	2,1	1,5	1,6	1,3	1,7	1,2	1,5	1,1	1,4	1	1,4	1	1,3	0,9	1,2	0,8
	Maximum Range m	3,9	2,7	3,3	2,4	3	2,1	2,7	1,9	2,5	1,8	2,3	1,7	2,2	1,6	2,1	1,5	1,9	1,3
	Static pressure mm c.a	1,35	1,6	0,75	0,9	0,5	0,55	0,3	0,4	0,25	0,25	0,15	0,2	0,15	0,15	0,1	0,1	0,05	0,1
	Sound Level dB NC	30	32	24	26	19	21	15	17	11	13	-	10	-	-	-	-	-	-
350	Minimum Range m			2,4	1,7	2,2	1,5	2	1,4	1,8	1,3	1,7	1,2	1,66	1,1	1,5	1,1	1,4	1
	Maximum Range m			3,9	2,8	3,5	2,5	3,2	2,3	2,9	2,1	2,7	1,9	2,6	1,8	2,4	1,7	2,2	1,6
	Static pressure mm c.a			1,05	1,2	0,65	0,75	0,45	0,55	0,3	0,4	0,25	0,3	0,2	0,2	0,15	0,15	0,1	0,1
	Sound Level dB NC			27	29	22	24	18	20	15	17	12	14	-	11	-	-	-	-
400	Minimum Range m			2,8	2	2,5	1,6	2,3	1,6	2,1	1,5	1,9	1,4	1,8	1,3	1,7	1,2	1,6	1,1
	Maximum Range m			4,5	3,2	4	2,8	3,6	2,6	3,4	2,4	3,1	2,2	3	2,1	2,8	2	2,6	1,8
	Static pressure mm c.a			1,35	1,6	0,85	1	0,6	0,7	0,45	0,5	0,3	0,4	0,25	0,3	0,2	0,25	0,15	0,15
	Sound Level dB NC			30	32	25	27	21	23	18	20	15	17	12	14	10	12	-	-
450	Minimum Range m					2,8	2	2,5	1,8	2,3	1,7	2,2	1,6	2,1	1,5	2	1,4	1,8	1,3
	Maximum Range m					4,5	3,2	4,1	2,9	3,8	2,7	3,5	2,5	3,3	2,4	3,2	2,2	2,9	2
	Static pressure mm c.a					1,1	1,3	0,75	0,9	0,55	0,65	0,4	0,5	0,3	0,4	0,25	0,3	0,15	0,2
	Sound Level dB NC					28	30	24	26	21	22	18	19	15	17	13	14	-	10
500	Minimum Range m					3,1	2,2	2,8	2	2,6	1,9	2,4	1,7	2,3	1,6	2,2	1,5	2	1,4
	Maximum Range m					5	3,6	4,6	3,2	4,2	3	3,9	2,8	3,7	2,6	3,5	2,5	3,2	2,3
	Static pressure mm c.a					1,35	1,6	0,95	1,1	0,7	0,6	0,5	0,6	0,4	0,5	0,3	0,4	0,2	0,25
	Sound Level dB NC					30	32	26	28	23	25	20	22	17	19	15	17	11	13
600	Minimum Range m							3,4	2,4	3,1	2,2	2,9	2,1	2,8	2	2,6	1,9	2,4	1,7
	Maximum Range m							5,5	3,9	5,1	3,6	4,7	3,4	4,5	3,2	4,2	3	3,9	2,7
	Static pressure mm c.a							1,35	1,6	1	1,15	0,75	0,9	0,6	0,7	0,5	0,55	0,3	0,4
	Sound Level dB NC							3	32	27	29	24	26	21	23	19	21	15	17
700	Minimum Range m									3,7	2,6	3,4	2,4	3,2	2,3	3,1	2,2	2,8	2
	Maximum Range m									5,9	4,2	5,5	3,9	5,2	3,7	4,9	3,5	4,5	3,2
	Static pressure mm c.a									1,35	1,6	1,05	1,2	0,8	0,95	0,65	0,75	0,45	0,55
	Sound Level dB NC									31	32	28	29	25	27	23	24	19	20
800	Minimum Range m											3,9	2,8	3,7	2,6	3,5	2,5	3,2	2,3
	Maximum Range m											6,3	4,5	6	4,2	5,7	4	5,2	3,7
	Static pressure mm c.a											1,35	1,6	1,05	1,25	0,85	1	0,6	0,7
	Sound Level dB NC											31	32	28	30	26	27	22	23
900	Minimum Range m													4,2	3	4	2,8	3,8	2,6
	Maximum Range m													6,7	4,8	6,4	4,5	5,8	4,1
	Static pressure mm c.a													1,35	1,6	1,1	1,3	0,75	0,9
	Sound Level dB NC													31	32	28	30	24	26
1000	Minimum Range m													4,7	3,3	4,4	3,1	4	2,9
	Maximum Range m													7,5	5,3	7,1	5	6,5	4,5
	Static pressure mm c.a													1,7	2	1,35	1,6	0,96	1,1
	Sound Level dB NC													33	35	31	32	27	28
1100	Minimum Range m															4,9	3,5	4,4	3,1
	Maximum Range m															7,6	5,6	7,1	5,1
	Static pressure mm c.a															1,65	1,95	1,15	1,35
	Sound Level dB NC															33	34	29	30

Minimum range for a terminal velocity of 0.4 m/s.

Maximum range for a terminal velocity of 0,25 m/s.

QUICK SELECTION TABLE

Dimensions		700 x 150 550 x 200 450 x 250		800 x 150 600 x 200 400 x 200		500 x 250		900 x 150 550 x 250 450 x 300		1000 x 150 600 x 250 500 x 300		800 x 200 600 x 300		1000 x 250		1000 x 300	
Flow m3/h	**Blade Orientation**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**	**1 Dir**	**2 Dir**
400	Minimum Range m	1,5	1,1	1,5	1	1,4	1	1,4	1	1,3	0,9	1,2	0,9				
	Maximum Range m	2,5	1,7	2,4	1,7	2,3	1,6	2,2	1,6	2,1	1,5	2	1,4				
	Static pressure mm c.a	0,1	0,15	0,1	0,1	0,05	0,1	0,05	0,1	0,05	0,05	0,05	0,05				
	Sound Level dB NC	-	-	-	-	-	-	-	-	-	-	-	-				
500	Minimum Range m	1,9	1,3	1,8	1,3	1,8	1,3	1,7	1,2	1,6	1,1	1,5	1,1				
	Maximum Range m	3,1	2,2	3	2,1	2,9	2	2,8	2	2,6	1,8	2,5	1,8				
	Static pressure mm c.a	0,2	0,2	0,15	0,2	0,15	0,15	0,1	0,15	0,1	0,1	0,05	0,1				
	Sound Level dB NC	-	11	-	-	-	-	-	-	-	-	-	-				
750	Minimum Range m	2,9	2	2,8	2	2,7	1,9	2,6	1,8	2,4	1,7	2,3	1,6	1,9	1,3	1,5	1,1
	Maximum Range m	4,6	3,3	4,5	3,2	4,3	3,1	4,2	3	3,9	2,8	3,7	2,7	3	2,2	2,6	1,9
	Static pressure mm c.a	0,45	0,5	0,35	0,45	0,3	0,4	0,3	0,35	0,2	0,25	0,15	0,2	0,05	0,1	-	0,05
	Sound Level dB NC	18	20	17	18	15	17	14	15	11	13	-	11	-	-	-	-
1000	Minimum Range m	3,9	2,7	3,7	2,6	3,6	2,6	3,5	2,5	3,3	2,3	3,1	2,2	2,5	1,8	2,2	1,5
	Maximum Range m	6,2	4,4	6	4,3	5,8	4,1	5,6	4	5,3	3,7	5	3,6	4,1	2,9	3,5	2,5
	Static pressure mm c.a	0,8	0,95	0,7	0,8	0,6	0,7	0,5	0,6	0,4	0,5	0,3	0,4	0,15	0,15	0,05	0,1
	Sound Level dB NC	25	27	23	25	22	23	20	22	18	19	15	17	-	-	-	-
1250	Minimum Range m	4,8	3,4	4,7	3,3	4,5	3,2	4,4	3,1	4,1	2,9	3,9	2,8	3,2	2,2	2,7	1,9
	Maximum Range m	7,8	5,5	7,5	5,3	7,2	5,2	7	5	6,6	4,7	6,3	4,5	5,1	3,6	4,4	3,1
	Static pressure mm c.a	1,25	1,5	1,1	1,3	0,95	1,1	0,8	0,95	0,65	0,75	0,5	0,6	0,2	0,25	0,1	0,15
	Sound Level dB NC	30	32	28	30	27	28	25	27	23	24	20	22	11	13	-	-
1500	Minimum Range m			5,6	4	5,4	3,9	5,2	3,7	4,9	3,5	4,7	3,3	3,8	2,7	33	2,3
	Maximum Range m			9	6,4	8,7	8,2	8,4	8	7,9	5,6	7,5	5,4	6,1	4,4	5,3	3,8
	Static pressure mm c.a			1,55	1,85	1,35	1,6	1,2	1,4	0,95	1,1	0,75	0,9	0,3	0,4	0,15	0,2
	Sound Level dB NC			32	34	31	32	29	31	27	28	24	26	15	17	-	11
1750	Minimum Range m							6,1	4,4	5,8	4,1	5,5	3,9	4,5	3,2	3,9	2,7
	Maximum Range m							9,8	7	9,3	6,6	8,8	6,3	7,2	5,1	6,2	4,4
	Static pressure mm c.a							1,65	1,95	1,3	1,5	1,05	1,2	0,45	0,55	0,25	0,3
	Sound Level dB NC							33	35	30	32	28	30	19	21	12	14
2000	Minimum Range m									6,8	4,7	6,3	4,5	5,1	3,6	4,4	3,1
	Maximum Range m									10,8	7,5	10	7,2	8,2	5,8	7,1	5
	Static pressure mm c.a									1,7	2	1,35	1,6	0,6	0,7	0,3	0,4
	Sound Level dB NC									33	35	31	33	22	24	15	17
2500	Minimum Range m													6,4	4,5	5,5	3,9
	Maximum Range m													10,2	7,3	8,9	6,3
	Static pressure mm c.a													0,95	1,1	0,5	0,6
	Sound Level dB NC													27	29	20	22
3000	Minimum Range m													7,7	5,5	6,6	4,7
	Maximum Range m													12,3	8,8	10,7	7,6
	Static pressure mm c.a													1,35	1,6	0,75	0,9
	Sound Level dB NC													31	33	25	26
3500	Minimum Range m															7,8	5,5
	Maximum Range m															12,4	8,9
	Static pressure mm c.a															1,05	1,2
	Sound Level dB NC															28	30
4000	Minimum Range m															8,9	6,3
	Maximum Range m															14,2	10,1
	Static pressure mm c.a															1,35	1,6
	Sound Level dB NC															31	33

Minimum range for a terminal velocity of 0.4 m/s.

Maximum range for a terminal velocity of 0,25 m/s.

MOTORIZED CURVED BLADES GRILLE
SERIES C_TR

GRAPHIC DESCRIPTION

Series	Model		Size
	10	102D	
C_TR	11	112D	L x H
C_TR 24V	20	202D	
	21	212D	

-

Finish
ALU
LB
RAL

+

Accessories	Fixing system
PLENUM	FO
	MM
	Drill

C20TR-300X200-ALU + MM

SERIES

- C_TR: Motorized curved-blades grille.

MODEL

- C20TR: Motorized curved-blades grille, dual-deflection.

SIZE (mm)

- LxH: 300 x 200 mm.

FINISH

- Alu: Anodized aluminum.

FIXING SYSTEM (optional)

- MM: 300 x 200 mm mounting frame with pressure clips.

Order example: C20TR 300x200 ALU + MM

- To order a 300x200 mm motorized curved-blade grille, dual-deflection, 1st deflection horizontal, 2nd deflection vertical, made in anodized aluminim with mounting frame, you should request:

Order	Description
Grille C20TR 300x200 - Anodized aluminum	Rejilla motorizada (220V) de lama curva de doble deflexión de 300x200 mm en aluminio anodizado.
Mounting frame MM 300x200	300x200 mm mounting frame.

Note: 220V is the standard model.

Order example: C10TR 500x100 – 24V + LB + DRILL

- To order a 500x100 mm motorized curved-blade grille (24V), single-deflection, white laquered, for installation with drill and screws (screws not included), you should request:

Order	Description
Grille C20TR 500x100 - White laquered	500x100 mm motorized curved-blade grille (24V), single-deflection, white laquered.
Fixing System DRILL	For installation with drill and screws.



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