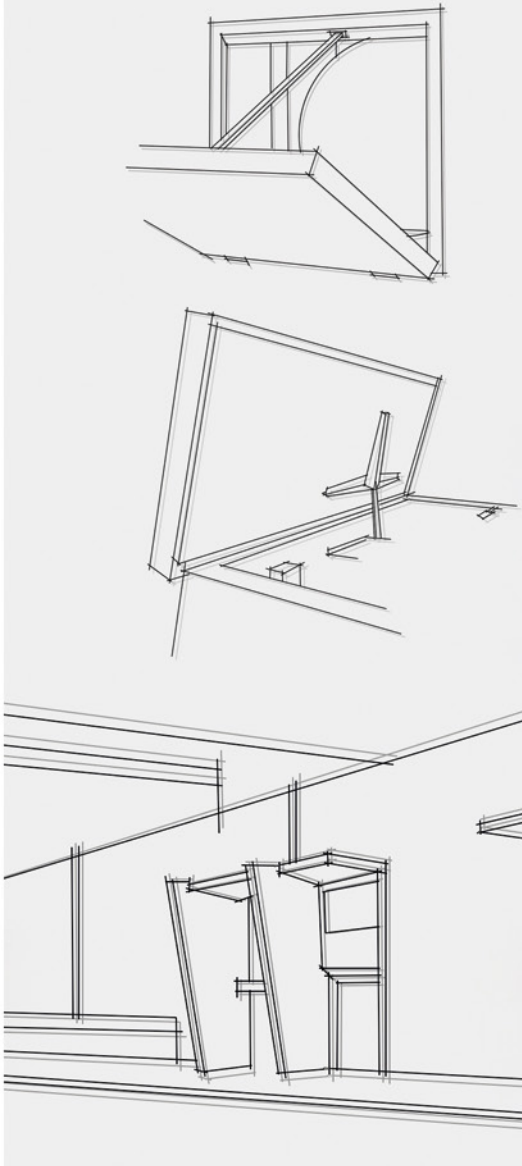


DESIGNED FOR THE FUTURE

VENTILATION SYSTEMS
WITH MOTORISED DAMPERS



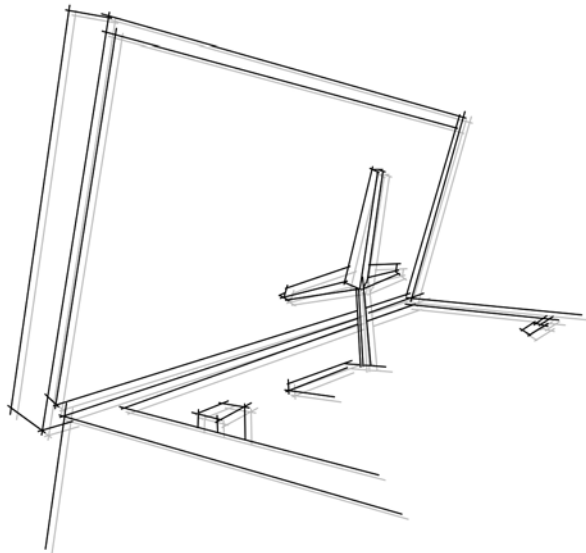
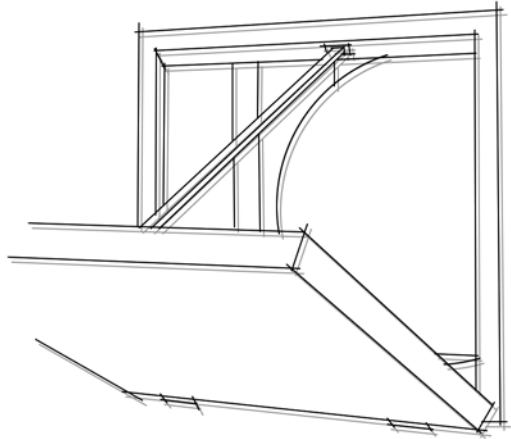


THINGS HAVE CHANGED AND SO HAVE VENTILATION SYSTEMS.

WALL SYSTEM ← **HATCH SOLUTIONS** → ROOF SYSTEM



VENTILATION SYSTEMS WITH MOTORISED DAMPERS



THE HATCH SYSTEM

An efficient solution to prevent heat loss in buildings.

Air extract solutions in buildings or for extracting smoke in the case of fire in accordance with current regulations. They consist of automated systems that use motorised hatches with a design that is completely sealed, using cutting edge technology and with a F-400°C/2h or F-300°C/2h work certificate, depending on the application.

WALL SYSTEM

The WALL system is especially designed to exhaust air or smoke through the buildings walls in the event of fire.



THT/WALL



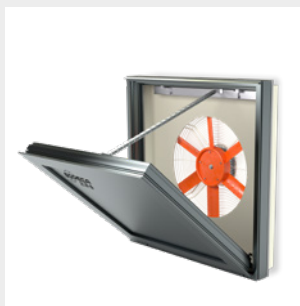
THT/WALL-F



WALL/DUCT



WALL-FREE



WALL/AXIAL

ROOF SYSTEM



THT/HATCH



HCT/HATCH

The ROOF system is designed for easy installation on the roofs of buildings or industrial facilities and permits air or smoke exhaust through the roof in the event of a fire.

The exhaust of both systems is carried out using a fully water-tight motorised hatch. The entire equipment is thermally insulated using technologically advanced materials. This way, heat loss from the building is prevented when the system is not operating.

HEAT LOSS AND THERMAL INSULATION

One of the main disadvantages of current fans is the constant loss of heat, which results in unnecessary costs due to the use of air conditioning or heating systems.

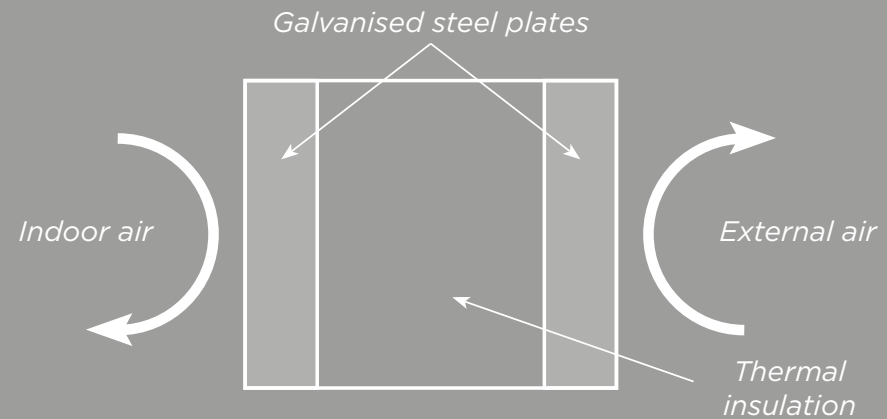
In the new HATCH systems, this disadvantage is corrected since the assembly is completely sealed and insulated using special materials designed for this purpose. This way, heat loss from the building is prevented.



THERMAL TRANSMITTANCE

HATCH

The lid of these HATCH extract systems is layered to a thickness of 100mm and the sides to 60mm. Heat transmission by both conduction and convection have been considered in the thermal calculations.



The thermal transmittance value of HATCH systems is:

$$U = 0.47 \text{ W/m}^2 \cdot \text{K}$$



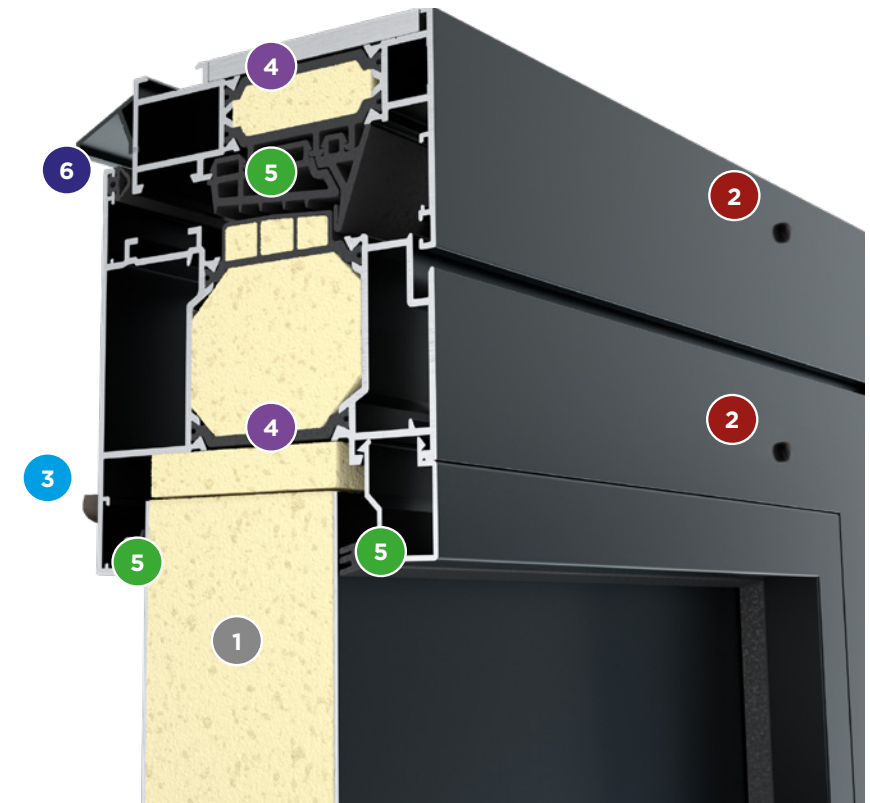
THERMAL TRANSMITTANCE

WALL

The hatch of these units is comprised of 80-mm thick extruded aluminium profiles with a thermal bridge break and a sandwich type central panel with high thermal insulation properties.

The thermal transmittance value of the WALL systems

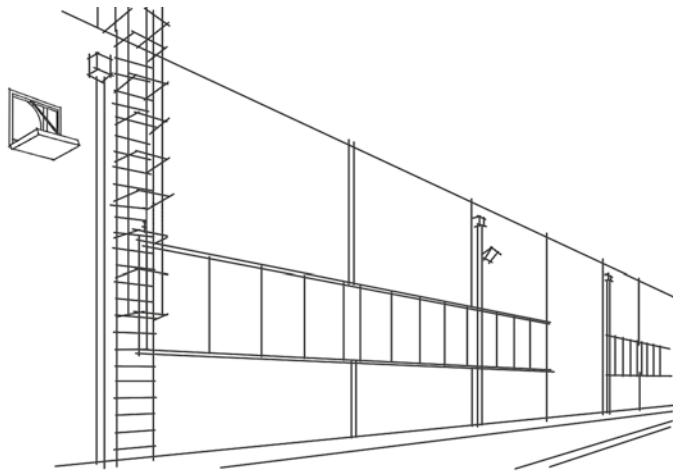
WALL FLAP 40 - 45	0,9 W/m ² ·K
WALL FLAP 50 - 56	0,8 W/m ² ·K
WALL FLAP 63 - 71 - 80	0,7 W/m ² ·K
WALL FLAP 90 - 100	0,7 W/m ² ·K
WALL FLAP 125	0,6 W/m ² ·K



- 1 Aluminium sandwich panel with high-density expanding polyurethane foam
- 2 Anti-detachment fixing screws in the event of fire
- 3 Condensation drainage
- 4 Thermal bridge break
- 5 Water-tightness seals
- 6 Gutter to prevent water from filtering inside the unit

WALL SYSTEM FOR INDUSTRIAL APPLICATIONS ON WALLS

The WALL system can be used in industrial facilities as it is easy to install on walls and can be integrated into the building design. The WALL system can be used for fire protection and smoke extract in the event of a fire, using series with F-400 or F-300 certificates or using the system without a temperature certification for extracting exhaust or contaminated air. The WALL systems can also be used to supply air, if necessary. The advantage of being able to automatically close the hatch when the system is not in use brings very important energy savings. Additionally, it keeps the ventilation opening completely closed from the outside.







ROOF SYSTEM FOR INDUSTRIAL APPLICATIONS

Roof extract fans in industrial buildings are used for extracting heat and contaminants and are the most common types used for industrial building. Many roof extract fans with no aesthetic requirements result in buildings having various different appearances. These roof-mounted extract fans usually permit a high amount of heat loss when they not in use; as heat rises to the top of the building, the heat loss through the extract fans is very high.

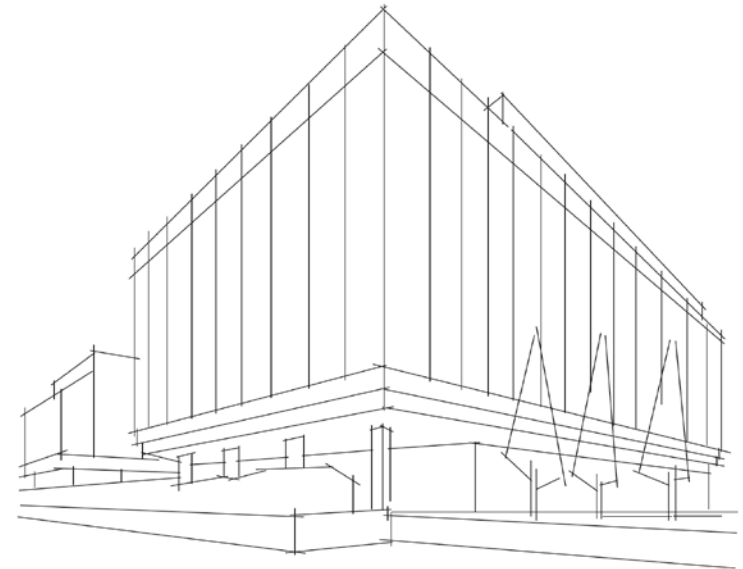
By using roof HATCH systems we prevent any heat loss and give the roofs of industrial buildings a uniform appearance. We can use systems with an F-400 or F-300 certificate for fire protection and rapid smoke exhaust or we can use standard systems to extract exhaust air or contaminants. Their water-tight design makes it impossible for water or snow to enter even in the most extreme weather conditions.

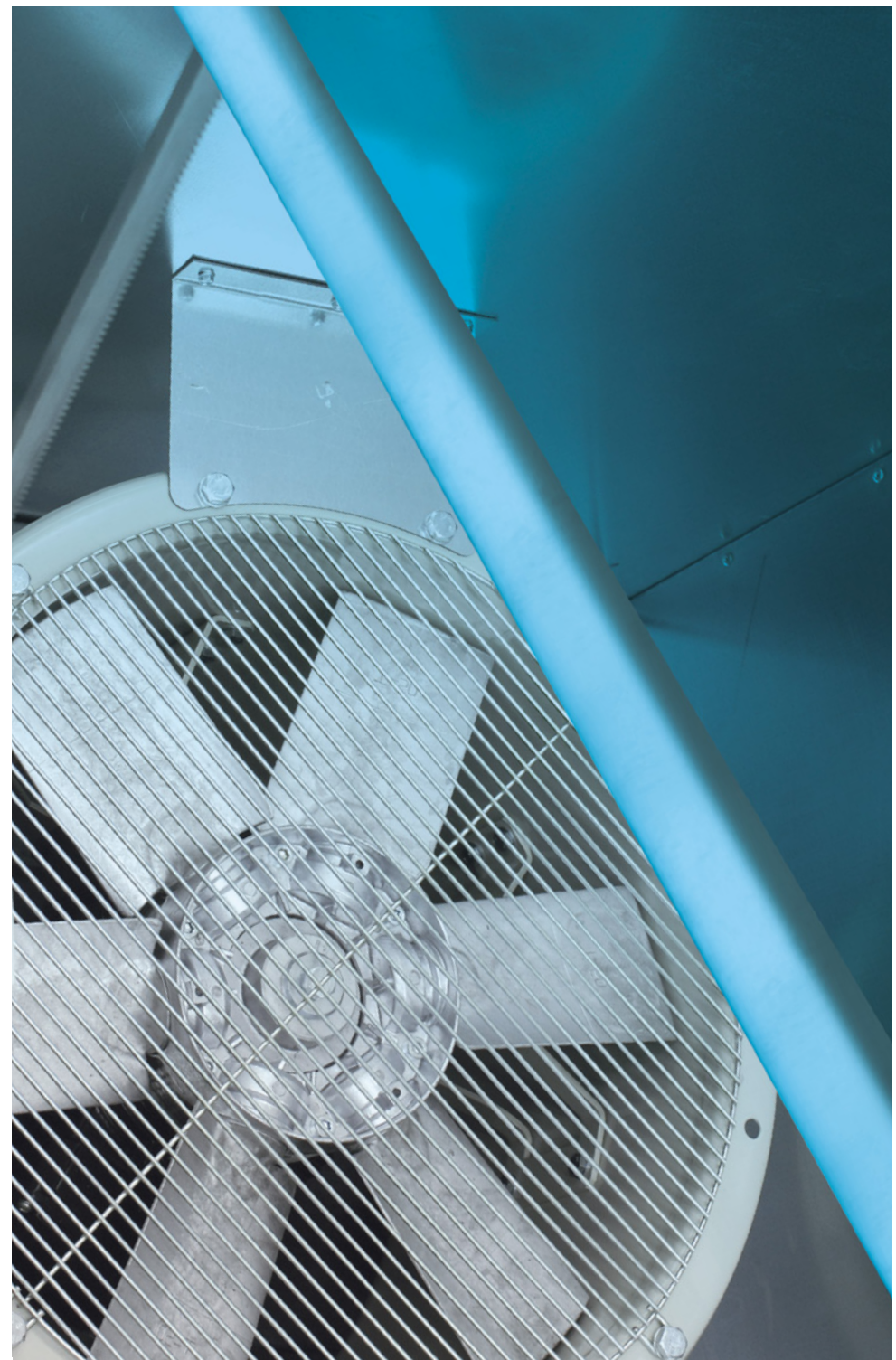


WALL SYSTEM FOR COMMERCIAL BUILDINGS APPLICATIONS ON WALLS

If a fire happens in large buildings, especially those with high ceilings, it is very important to get the smoke extract design right for the safety of the personnel in that building. WALL hatch systems facilitate this because they can be installed at any point on the external walls and are perfectly incorporated into the aesthetic appearance of the building.

Using these products for this application avoids the need to install large amounts of ductwork or chimneys through the roof.





ROOF SYSTEM FOR COMMERCIAL BUILDINGS APPLICATIONS ON ROOFS

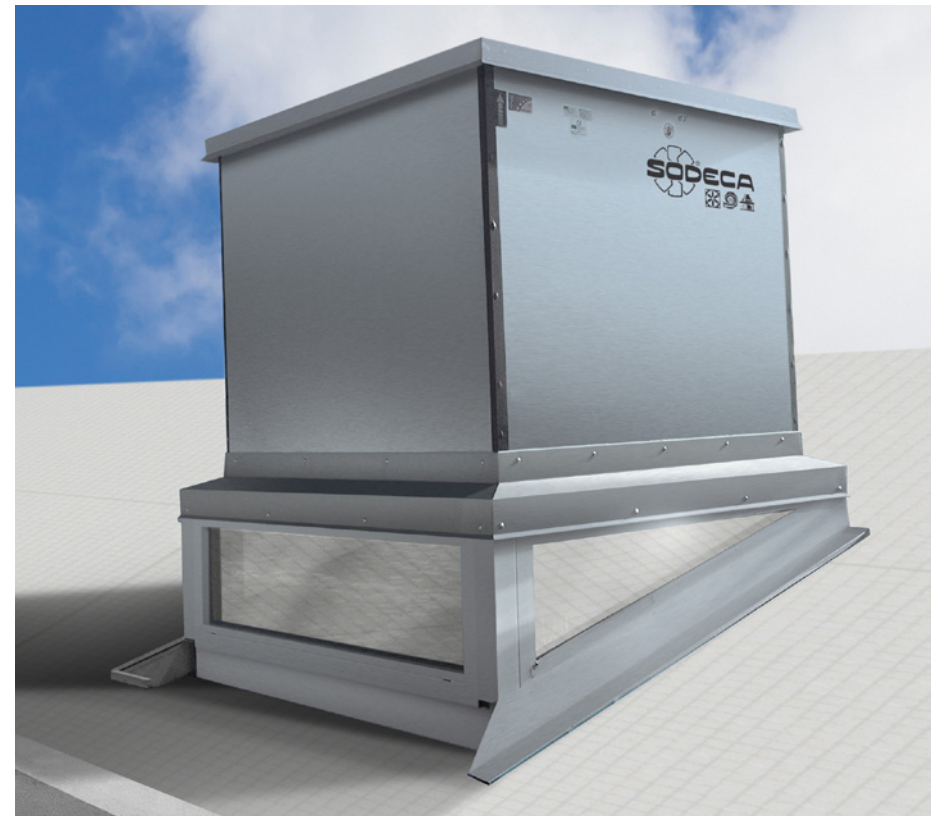
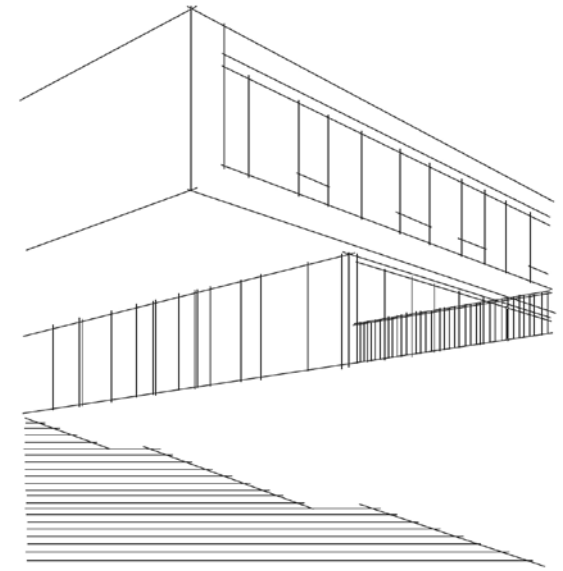
The demand to ensure that buildings are as sustainable as possible means that products installed in those buildings must be energy saving and efficient.

The use of roof HATCH systems that are completely water-tight and with a very efficient thermal insulation results in an almost negligible loss of heat by transmission when the extract system is not being used.

The use of roof HATCH systems results in almost negligible loss of heat from buildings when the extract systems are not being used because of their highly efficient thermal insulation and water tightness.

Using roof-mounted, motorised hatch systems with F-400 or F-300 certification for fire protection is one of the easiest ways to comply with the smoke exhaust regulation in buildings as well as local energy efficiency rules.





CERTIFICATIONS

All WALL and HATCH systems have been subjected to different robustness tests under strenuous, snow load and wind load conditions as well as fire resistance certification tests in accordance with standard EN-12101-3, with certification numbers 0370-CPR-2823 and 0370-CPR-1827. All these tests are conducted by accredited laboratories.

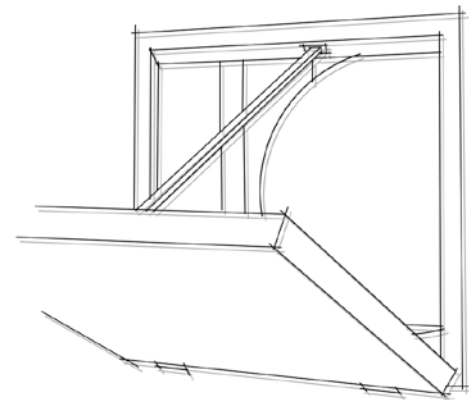
Certifications in accordance with EN-12101-3	CLASSIFICATION	OPEN TIME	WIND LOAD (WL)	SNOW LOAD (SL)
THT/HATCH	F400/2h F300/2h	<30 sec	200 Pa + 3 cycles	SL-1000
THT/WALL and THT/WALL-F	F400/2h F300/2h	<30 sec	200 Pa + 3 cycles	not applicable
Tests based on EN-12101-2	TEMPERATURE	RELIABILITY		
THT/HATCH	-25°	RE-11000		
THT/WALL and THT/WALL-F	-25°	RE-11000		



MOTORISED OPENING

The air outlet hatch is opened by extremely robust motorised actuators. These actuators guarantee proper operation in the most adverse conditions, even under simultaneous snow and wind overload conditions to satisfy the strictest regulations on the market.

This system has been tested and certified by laboratories specialising in these types of tests.





EASY INSTALLATION

Can be installed on any type of roof regardless of its inclination.

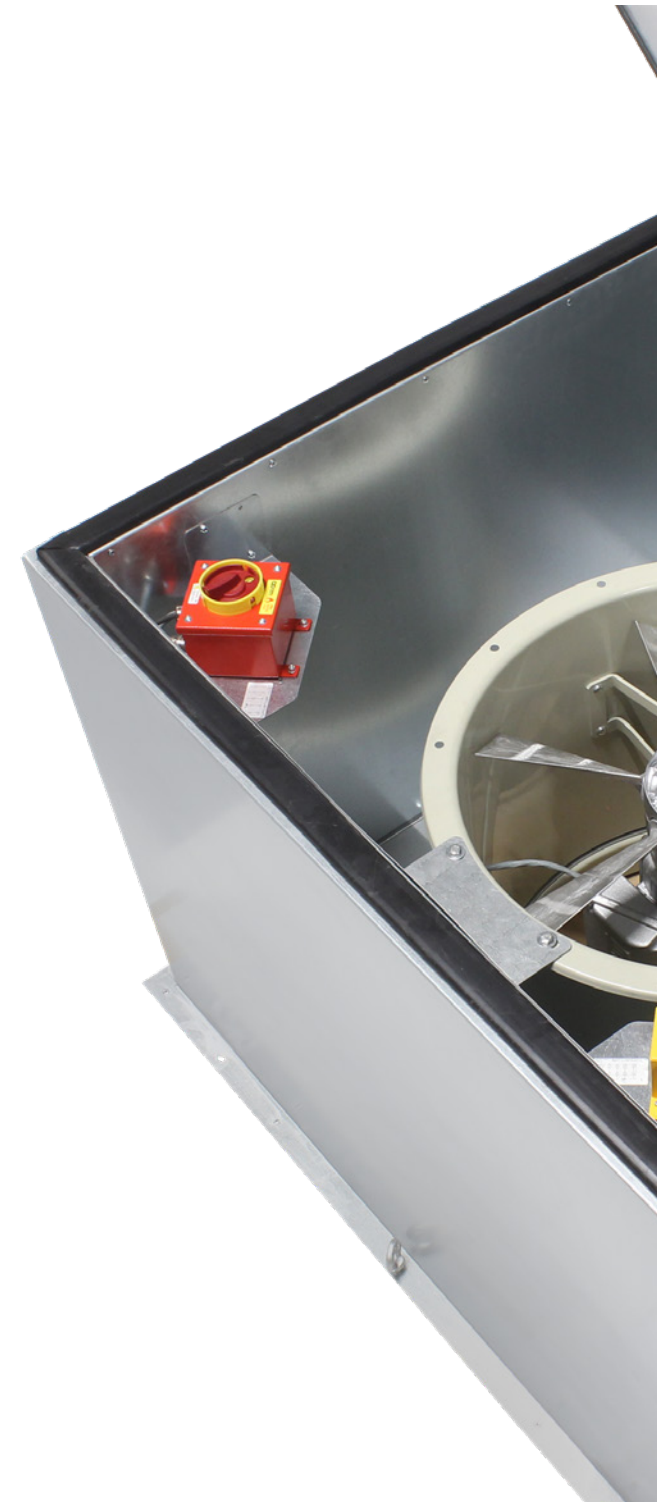
The fan inlet may be free, suctioning directly from the premise or it can be directly connected to an extract duct using the flange that is installed at the base of the extract fan.

ARCHITECTURAL INTEGRATION OF HATCH SYSTEMS

The appearance of industrial or commercial buildings and their integration in the environment is undoubtedly one of the most important concerns of designers.

HATCH systems can be customised to ensure that the smoke exhaust equipment can easily be integrated into the appearance of the building.

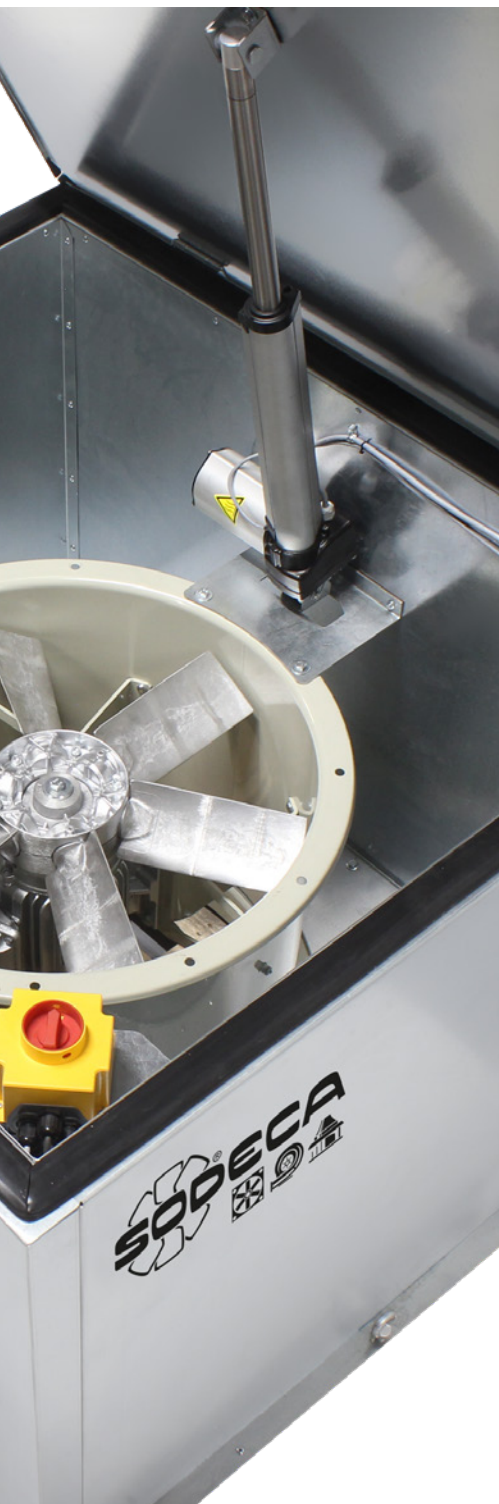
HATCH systems are customised by matching the RAL colour of the building exterior using anti-corrosive polyester resin paint or matching vinyl.



CUSTOMISATION

The finish of hatch systems such as the THT/WALL can be customised to match the building facade.

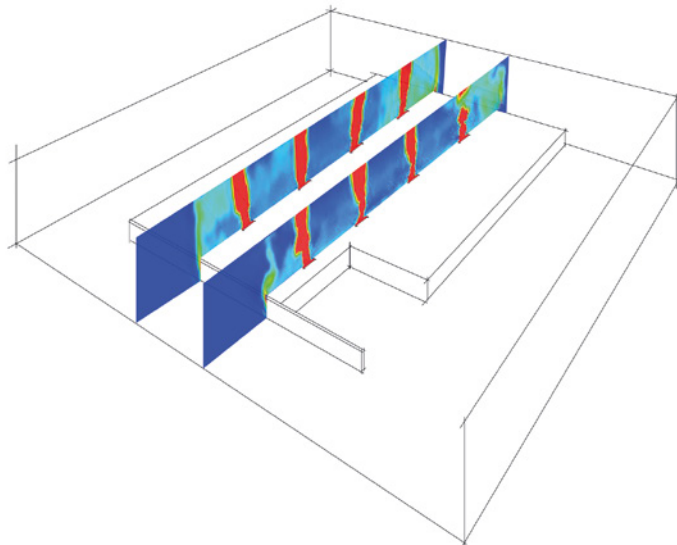
As a result, the unit will be completely integrated into the building appearance, especially when the hatch is closed.



ENERGY EFFICIENCY STUDY

EXAMPLE OF THE STUDY

AREA	3,170 m ²
HEIGHT	8 m
VOLUME	25,360 m ³
INDOOR TEMPERATURE	22°C
OUTDOOR TEMPERATURE	-5.6°C
HEATING	Unit heaters
NO. OF FANS	8 on the roof and 12 on the façade

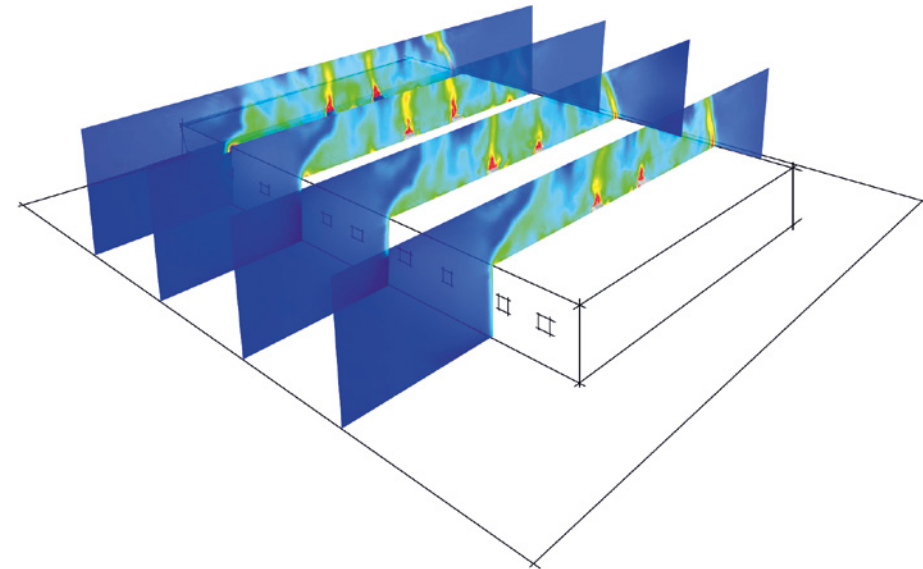


Energy efficiency tested

To calculate the heat loss for different extract systems, common losses are not taken into account. So such things as losses from walls, roofs and other air inlet/outlet sources are eliminated because these will be the same for different extract systems.

The following continuous operating temperatures are used for all systems:

- Indoor temperature: 22°C
- Outdoor temperature: -5.6°C
- Differential: 27.6°C



Extract systems with automated HATCH

As a calculation example, 8 Roof mounted extract fans shall be used of the THT/HATCH type, size 100, together with 12 Wall system extract fans of the THT/WALL type, size 90, installed on the façade. Taking into account the area, the thermal transmittance and the temperature differential, the total heat loss will be:

$$Q_{\text{total}} = 1.3 \text{ kW}\cdot\text{h}$$

Conventional extract fan system with free air outlet

As a calculation example, 8 roof-mounted axial extract fans, size 100, installed on the roof together with 12 wall-mounted axial extract fans, size 90, installed on the façade are used. Taking into account natural air movement from the interior to the exterior, the thermal transmittance and the temperature differential, the total heat loss will be:

$$Q_{\text{total}} = 251 \text{ kW}\cdot\text{h}$$

The difference in heat loss between the two systems will be
249.7 kW·h



ENERGY SAVINGS

Difference in heat loss between the two systems

The difference in heat loss in favour of the HATCH system equates to a difference in consumption in kW·h. In the study that was carried out, the energy savings per hour of the new system will be 249.7 kW·h.

Consumed energy costs comparative

Considering an average price of €0.1/kW·h, the heat loss savings equating to 249.7 kW·h; in one day under the specified temperature conditions, the cost savings would be €600/day; in one week we could save €4,200/week or €18,000/month.

Amortisation of the new equipment

The cost savings achieved at a time when energy efficiency is so important justifies investing in these new ventilation systems; additionally, the cost of these systems can be recouped in a very short time.

THT/WALL



Dynamic wall mounted extractor fans with motorised opening system for connection to extract duct. Specially designed for the fast, effective exhaust of harmful smoke and gases in the event of fire. Suitable for installation in industrial buildings, stores or in any other type of building. Approved as a whole in accordance with standard EN 12101-3, with F400 and F300 certificate. Can be used for ambient ventilation.

Dynamic wall-mount extractor fans with motorised opening system for connection to extract duct. Specially designed for the fast, effective exhaust of harmful smoke and gases in the event of fire. Suitable for installation in industrial buildings, stores or in any other type of building. Approved as a whole in accordance with standard EN 12101-3, with F400 and F300 certificate. Can be used for ambient ventilation.

Fan:

- Helicoidal casing support and fixing flange to allow easy wall anchorage and installation.
- With F400 certificate number 0370-CPR-2823 and F300 certificate number 0370-CPR-0973.
- Tubular casing in sheet steel with polyester resin anti-corrosive treatment.
- Variable angle impeller made of cast aluminium.
- Shielded power cable with EMC protection.
- Airflow direction from motor to impeller.

Extruded aluminum hatch:

- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.

- Thermal resistance of the assembly less than 0.89 W/m²-K.
- Limit switches in both positions (open and closed).
- Manual opening system.

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 -25 °C +40 °C continuous service, also suitable for warm climates with temperatures up to 50 °C. S2 operation, 300 °C/2h, 400 °C/2h.

Actuator:

- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Flap finish:

- Anti-corrosive in extruded aluminum.
- RAL 7016 supplied as standard. Any other RAL can be supplied on demand.

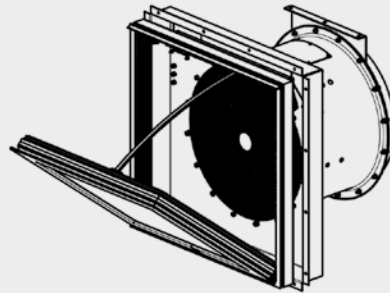
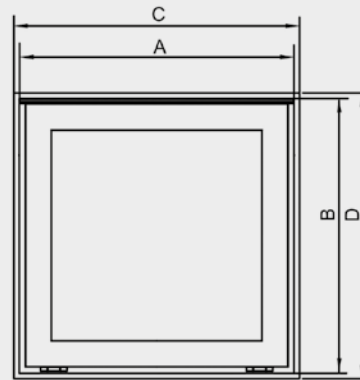
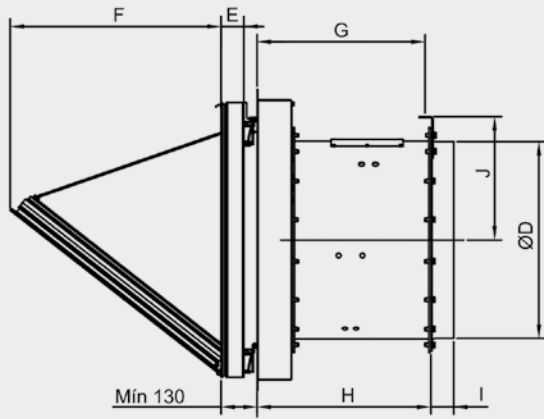
Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	Accor-ding ErP*
		230V	400V	690V						
THT/WALL-40-2T-1 IE3	2850	2.76	1.59		0.75	16	6100	69	62	2020
THT/WALL-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7040	68	63	2020
THT/WALL-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9400	68	67	2020
THT/WALL-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11325	68	68	2020
THT/WALL-50-2T-4 IE3	2880	9.61	5.52		3.00	16	13860	73	84	2015
THT/WALL-50-2T-5.5 IE3	2870		7.20	4.17	4.00	20	15900	73	100	2015
THT/WALL-56-2T-5.5 IE3	2870		7.20	4.17	4.00	16	18820	75	105	2020
THT/WALL-56-2T-7.5 IE3	2910		10.10	5.80	5.50	22	22510	75	107	2020
THT/WALL-56-4T-2 IE3	1440	5.89	3.38		1.50	36	15020	61	84	2015
THT/WALL-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	65	131	2020
THT/WALL-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	66	132	2020
THT/WALL-63-6T-1 IE3	940	3.36	1.93		0.75	38	15890	55	121	2020
THT/WALL-71-4T-3 IE3	1425	7.86	4.52		2.20	22	25100	67	124	2020
THT/WALL-71-4T-4 IE3	1430	11.01	6.33		3.00	28	27480	67	133	2020
THT/WALL-71-4T-5.5 IE3	1440		7.95	4.61	4.00	38	32250	68	143	2020
THT/WALL-71-6T-1.5 IE3	945	4.73	2.72		1.10	34	19930	58	123	2020
THT/WALL-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	72	138	2020
THT/WALL-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	71	147	2020
THT/WALL-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	70	153	2020
THT/WALL-80-4T-7.5 IE3	1460		10.40	6.04	5.50	26	39640	70	154	2020
THT/WALL-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	60	137	2020
THT/WALL-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	61	146	2020
THT/WALL-90-4T-7.5 IE3	1460		10.40	6.04	5.50	18	46140	74	222	2020
THT/WALL-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	73	233	2020
THT/WALL-90-4T-15 IE3	1460		20.70	11.99	11.00	30	59390	75	242	2020
THT/WALL-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	63	195	2020
THT/WALL-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	66	221	2020
THT/WALL-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	76	239	2020

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	Accor-ding ErP*
		230V	400V	690V						
THT/WALL-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	76	292	2020
THT/WALL-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	77	307	2020
THT/WALL-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	67	239	2020
THT/WALL-100-6T-7.5 IE3	970		12.30	7.07	5.50	32	53520	69	276	2020
THT/WALL-125-4T/6-20 IE3	1460		27.80	16.03	15.00	10	78600	84	462	2020
THT/WALL-125-4T/6-25 IE3	1465		35.40	20.39	18.50	14	92550	83	530	2020
THT/WALL-125-4T/6-30 IE3	1470		42.20	24.44	22.00	16	98830	82	544	2020
THT/WALL-125-4T/6-40 IE3	1475		53.30	31.02	30.00	22	117450	82	625	2020
THT/WALL-125-4T/6-50 IE3	1480		66.40	38.26	37.00	26	131050	82	673	2020
THT/WALL-125-4T/9-25 IE3	1465		35.40	20.39	18.50	10	79650	84	539	2020
THT/WALL-125-4T/9-30 IE3	1470		42.20	24.44	22.00	12	88290	83	553	2020
THT/WALL-125-4T/9-40 IE3	1475		53.30	31.02	30.00	16	104040	82	634	2020
THT/WALL-125-4T/9-50 IE3	1480		66.40	38.26	37.00	20	118400	82	682	2020
THT/WALL-125-4T/12-30 IE3	1475		42.20	24.44	22.00	10	62900	85	569	2015
THT/WALL-125-4T/12-40 IE3	1470		53.30	31.02	30.00	14	79180	85	650	2015
THT/WALL-125-4T/12-50 IE3	1480		66.40	38.26	37.00	18	95715	83	693	2020
THT/WALL-125-6T/6-5.5 IE3	970		8.37	4.82	4.00	10	51500	74	395	2020
THT/WALL-125-6T/6-7.5 IE3	970		12.30	7.07	5.50	14	60640	72	402	2020
THT/WALL-125-6T/6-10 IE3	960		15.20	8.83	7.50	20	72650	71	427	2020
THT/WALL-125-6T/6-15 IE3	955		22.50	13.07	11.00	26	85850	71	457	2020
THT/WALL-125-6T/6-20 IE3	950		29.00	16.78	15.00	30	92850	73	530	2020
THT/WALL-125-6T/9-10 IE3	960		15.20	8.83	7.50	14	63490	74	436	2020
THT/WALL-125-6T/9-15 IE3	955		22.50	13.07	11.00	20	77550	72	466	2020
THT/WALL-125-6T/9-20 IE3	950		29.00	16.78	15.00	26	92950	72	539	2020
THT/WALL-125-6T/9-25 IE3	975		36.10	20.77	18.50	32	96500	74	569	2020
THT/WALL-125-6T/12-25 IE3	975		36.10	20.77	18.50	28	91680	74	579	2020
THT/WALL-125-6T/12-30 IE3	975		42.30	24.35	22.00	32	102050	75	621	2020
THT/WALL-125-6T/12-40 IE3	980		55.80	32.13	30.00	38	115950	79	739	2020

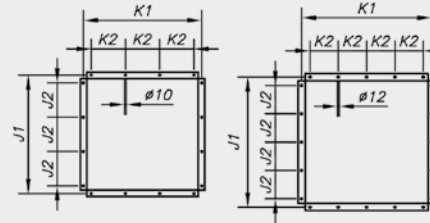
¹ Irradiated sound pressure level in dB(A) at a distance of 3 m.

* In accordance with the ErP 2020 draft

THT/WALL



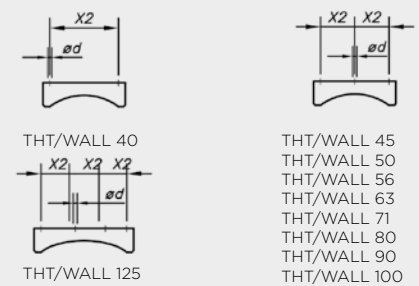
*Wall-mounting flange



- THT/WALL 40
- THT/WALL 45
- THT/WALL 50
- THT/WALL 56
- THT/WALL 63
- THT/WALL 71
- THT/WALL 80

- THT/WALL 90
- THT/WALL 100
- THT/WALL 125

Helical ring support stand



- THT/WALL 45
- THT/WALL 50
- THT/WALL 56
- THT/WALL 63
- THT/WALL 71
- THT/WALL 80
- THT/WALL 90
- THT/WALL 100

Model	A	B	C	D	ØD*	I	J	H	G	E	F	J1	J2	K1	K2	X2	ød
THT/WALL-40	640	590	650	600	400	80	255	530	510	82	430	700	200	700	200	200	10
THT/WALL-45	640	590	650	600	450	80	280	530	510	82	430	700	200	700	200	200	12
THT/WALL-50	690	690	700	700	500	80	305	530	510	82	560	790	220	790	220	200	12
THT/WALL-56	690	690	700	700	560	80	340	530	510	82	560	790	220	790	220	215	13
THT/WALL-56-2T-7.5	690	690	700	700	560	80	340	630	610	82	560	790	220	790	220	215	13
THT/WALL-63	990	990	1000	1000	630	80	385	630	605	82	760	1050	300	1050	300	215	13
THT/WALL-63-6T-1	990	990	1000	1000	630	80	385	530	505	82	760	1050	300	1050	300	215	13
THT/WALL-71	990	990	1000	1000	710	80	445	630	605	82	760	1050	300	1050	300	225	13
THT/WALL-80	990	990	1000	1000	800	100	490	630	605	82	760	1050	300	1050	300	280	13
THT/WALL-90	1190	1190	1200	1200	900	100	550	730	705	82	790	1250	250	1250	250	280	18
THT/WALL-90-4T-15	1190	1190	1200	1200	900	100	550	830	805	82	790	1250	250	1250	250	280	18
THT/WALL-100	1190	1190	1200	1200	1000	100	600	730	705	82	790	1250	250	1250	250	280	18
THT/WALL-100 >10CV	1190	1190	1200	1200	1000	100	600	830	805	82	790	1250	250	1250	250	280	18
THT/WALL-125	1490	1490	1500	1500	1250	100	725	1050	1025	82	1240	1600	300	1600	300	300	18
THT/WALL-125 (4T/6-20;6T/6-5,5;6T/6-7,5;6T/6-10;6T/6-15;6T/9-10;6T/9-15)	1490	1490	1500	1500	1250	100	725	850	825	82	1240	1600	300	1600	300	300	18
THT/WALL-125-50CV	1490	1490	1500	1500	1250	100	725	1150	1125	82	1240	1600	300	1600	300	300	18

* Recommended nominal tube diameter
(C x D) Nominal size of the wall opening.

THT/WALL-F



Dynamic wall mounted extractor fans with motorised hatch, for smoke exhaust in case of fires, 400 °C/2h and 300 °C/2h

Dynamic wall extractor fans with motorised opening system and protective grating for use without extract duct. Specially designed for the fast, effective exhaust of harmful smoke and gases in the event of fire. Suitable for installation in industrial buildings, stores or in any other type of building. Approved as a whole in accordance with standard EN 12101-3, with F400 and F300 certificate. Can be used for ambient ventilation.

Fan:

- Wall fixing flange for correct and easy installation.
- Support frame in galvanized sheet steel.
- With F400 certificate number 0370-CPR-2823 and F300 certificate number 0370-CPR-0973.
- Variable angle impeller made of cast aluminium.
- Shielded power cable with EMC protection.
- Airflow direction from motor to impeller.
- Protection grid against contacts according to UNE-EN ISO 12499.

Extruded aluminum hatch:

- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.

- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Limit switches in both positions (open and closed).
- Manual opening system.

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 -25 °C +40 °C continuous service, also suitable for warm climates with temperatures up to 50 °C. S2 operation, 300 °C/2h, 400 °C/2h.

Actuator:

- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.

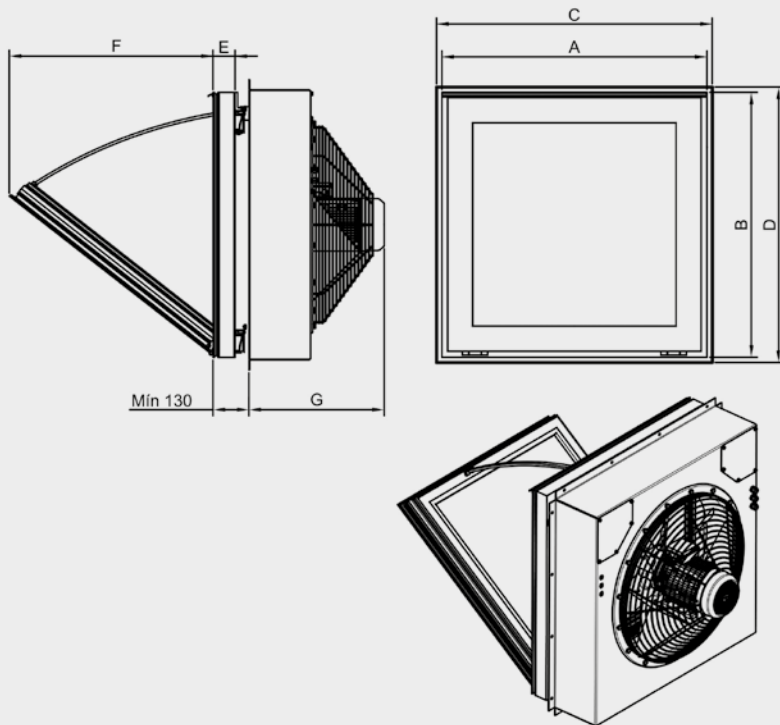
Flap finish:

- Anti-corrosive in extruded aluminum.
- RAL 7016 supplied as standard. Any other RAL can be supplied on demand.

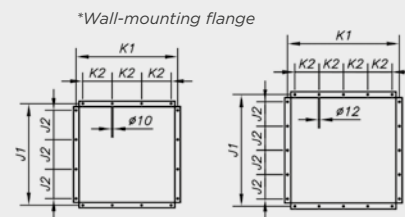
Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m ³ /h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	Accor-ding ErP*
		230V	400V	690V						
THT/WALL-F-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7040	68	55	2020
THT/WALL-F-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9400	68	63	2020
THT/WALL-F-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11325	68	67	2020
THT/WALL-F-56-4T-2 IE3	1440	5.89	3.38		1.50	36	15020	61	69	2020
THT/WALL-F-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	65	97	2020
THT/WALL-F-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	66	103	2020
THT/WALL-F-71-4T-3 IE3	1425	7.86	4.52		2.20	22	25100	67	100	2020
THT/WALL-F-71-4T-4 IE3	1430	11.01	6.33		3.00	28	27480	67	106	2020
THT/WALL-F-71-6T-1.5 IE3	945	4.73	2.72		1.10	34	19930	58	98	2020
THT/WALL-F-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	72	114	2020
THT/WALL-F-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	71	120	2020
THT/WALL-F-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	70	122	2020
THT/WALL-F-80-4T-7.5 IE3	1460		10.40	6.04	5.50	26	39640	70	152	2020
THT/WALL-F-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	60	112	2020
THT/WALL-F-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	61	116	2020
THT/WALL-F-90-4T-7.5 IE3	1460		10.40	6.04	5.50	18	46140	74	183	2020
THT/WALL-F-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	73	187	2020
THT/WALL-F-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	63	145	2020
THT/WALL-F-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	66	165	2020
THT/WALL-F-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	76	194	2020
THT/WALL-F-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	76	226	2020
THT/WALL-F-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	77	237	2020
THT/WALL-F-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	67	178	2020

¹Irradiated sound pressure level in dB(A) at a distance of 3 m.
* In accordance with the ErP 2020 draft

THT/WALL-F



THT/WALL-F 40
 THT/WALL-F 45
 THT/WALL-F 56
 THT/WALL-F 63
 THT/WALL-F 71
 THT/WALL-F 80



THT/WALL-F 90
 THT/WALL-F 100

Model	A	B	C	D	E	F	G	J1	J2	K1	K2
THT/WALL-F-40	640	590	650	600	82	430	375	700	200	700	200
THT/WALL-F-45	640	590	650	600	82	430	400	700	200	700	200
THT/WALL-F-56	690	690	700	700	82	560	415	790	220	790	220
THT/WALL-F-63	990	990	1000	1000	82	760	475	1050	300	1050	300
THT/WALL-F-71	990	990	1000	1000	82	760	500	1050	300	1050	300
THT/WALL-F-80	990	990	1000	1000	82	760	500	1050	300	1050	300
THT/WALL-F-90	1190	1190	1200	1200	82	790	525	1250	250	1250	250
THT/WALL-F-100	1190	1190	1200	1200	82	790	550	1250	250	1250	250

(C x D) Nominal size of the wall opening.

WALL/DUCT



Dynamic wall mount extractor fans fitted with motorised hatch

Dynamic wall mount extractor fans with motorised opening system for connection to extract duct. Suitable for installation in industrial buildings, stores or in any other type of building.

Fan:

- Helicoidal casing support and fixing flange to allow easy wall anchorage and installation.
- Tubular casing in sheet steel with external terminal box.
- PL impellers manufactured in polyamide 6 re-inforced with fibreglass. AL impellers manufactured in cast aluminum. Models 40-2T, 45-2T, 100-4T-15, 100-4T-20 and 125 are only supplied in AL version.
- Airflow direction from motor to impeller.

Extruded aluminum hatch:

- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Limit switches in both positions (open and closed).

- Possibility of mounting in upper and lower opening. Size 125 only top opening.
- Manual opening system.

Motor:

- IE3 efficiency motors.
- Class F motors with ball bearings, IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 °C +60 °C.

Actuator:

- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Flap finish:

- Anti-corrosive in extruded aluminum.
- RAL 7016 supplied as standard. Any other RAL can be supplied on demand.

On request:

- AA: impeller-motor air direction for air entry to premises.

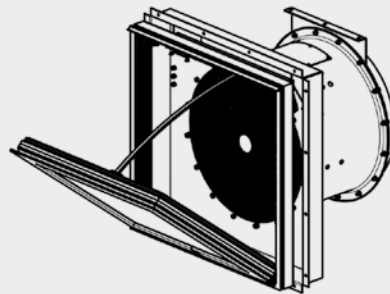
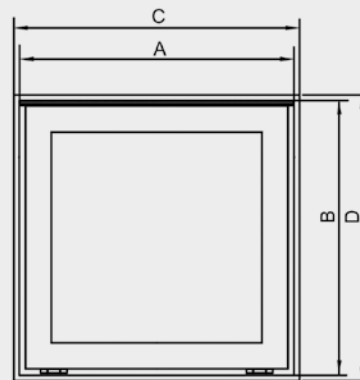
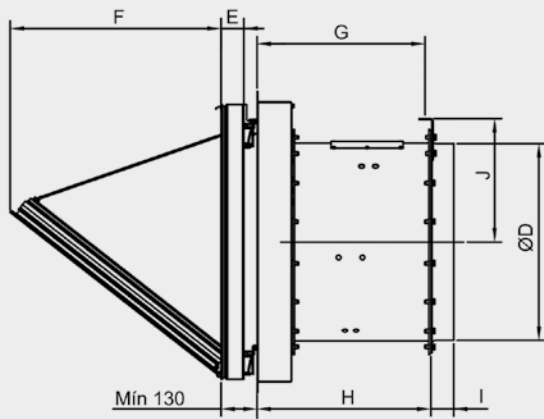
Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m ³ /h)	Sound pressure level ¹ dB (A)	Approx. weight (Kg)	According ErP*
		230V	400V	690V					
WALL/DUCT-40-2T-1.5 IE3	2830	4.03	2.34		1.10	8800	76	55	2015
WALL/DUCT-45-2T-2 IE3	2875	5.34	3.07		1.50	10650	79	64	2015
WALL/DUCT-45-2T-3 IE3	2910	7.32	4.21		2.20	12750	81	68	2015
WALL/DUCT-45-4T-0.5	1370	2.02	1.17		0.37	7100	61	53	2015
WALL/DUCT-50-4T-0.75	1380	2.92	1.69		0.55	10400	65	63	2015
WALL/DUCT-56-4T-1 IE3	1420	2.82	1.62		0.75	12950	68	71	2020
WALL/DUCT-56-4T-1.5 IE3	1455	4.07	2.34		1.10	14000	69	77	2020
WALL/DUCT-56-4T-2 IE3	1440	5.41	3.11		1.50	15290	70	83	2015
WALL/DUCT-56-6T-0.75	900	2.99	1.73		0.55	9990	57	70	2020
WALL/DUCT-63-4T-1 IE3	1420	2.82	1.62		0.75	14140	70	98	2020
WALL/DUCT-63-4T-1.5 IE3	1455	4.07	2.34		1.10	17000	71	104	2020
WALL/DUCT-63-4T-2 IE3	1440	5.41	3.11		1.50	18900	72	111	2020
WALL/DUCT-63-4T-3 IE3	1435	7.93	4.56		2.20	22100	73	113	2020
WALL/DUCT-63-4T-4 IE3	1440	10.70	6.15		3.00	25400	74	119	2020
WALL/DUCT-63-6T-0.75	900	2.99	1.73		0.55	12750	62	97	2015
WALL/DUCT-71-4T-2 IE3	1440	5.41	3.11		1.50	21100	76	117	2020
WALL/DUCT-71-4T-3 IE3	1435	7.93	4.56		2.20	23950	78	119	2020
WALL/DUCT-71-4T-4 IE3	1440	10.70	6.15		3.00	29400	79	125	2015
WALL/DUCT-71-6T-1 IE3	940	3.36	1.93		0.75	17250	65	112	2015
WALL/DUCT-71-6T-1.5 IE3	945	4.68	2.69		1.10	20950	66	117	2015
WALL/DUCT-80-4T-3 IE3	1435	7.93	4.56		2.20	28000	79	132	2020
WALL/DUCT-80-4T-4 IE3	1440	10.70	6.15		3.00	32700	80	138	2020

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Approx. weight (Kg)	According ErP*
		230V	400V	690V					
WALL/DUCT-80-4T-5.5 IE3	1450	13.90	8.00		4.00	37200	81	140	2020
WALL/DUCT-80-6T-1.5 IE3	945	4.68	2.69		1.10	24250	69	131	2020
WALL/DUCT-80-6T-2 IE3	950	6.43	3.70		1.50	28000	70	134	2020
WALL/DUCT-90-4T-5.5 IE3	1450	13.90	8.00		4.00	41850	87	176	2020
WALL/DUCT-90-4T-7.5 IE3	1465		10.30	5.97	5.50	47000	89	211	2020
WALL/DUCT-90-4T-10 IE3	1465		13.90	8.06	7.50	53000	90	215	2020
WALL/DUCT-90-6T-2 IE3	950	6.43	3.70		1.50	30000	75	167	2020
WALL/DUCT-90-6T-3 IE3	950	9.08	5.22		2.20	35000	76	175	2020
WALL/DUCT-90-6T-4 IE3	970	12.00	6.91		3.00	40000	77	193	2015
WALL/DUCT-100-4T-7.5 IE3	1465		10.30	5.97	5.50	52500	92	221	2020
WALL/DUCT-100-4T-10 IE3	1465		13.90	8.06	7.50	58500	93	224	2020
WALL/DUCT-100-4T-15 IE3	1470		20.90	12.10	11.00	68000	94	262	2020
WALL/DUCT-100-4T-20 IE3	1465		27.90	16.20	15.00	71850	95	273	2020
WALL/DUCT-100-6T-3 IE3	950	9.08	5.22		2.20	40500	82	184	2020
WALL/DUCT-100-6T-4 IE3	970	12.00	6.91		3.00	46950	83	202	2015
WALL/DUCT-100-6T-5.5 IE3	960	15.60	8.99		4.00	52000	84	208	2015
WALL/DUCT-125-4T/6-20 IE3	1470		27.90	16.20	15.00	78610	84	462	2020
WALL/DUCT-125-4T/6-25 IE3	1470		35.10	20.30	18.50	92550	83	530	2020
WALL/DUCT-125-4T/6-30 IE3	1470		41.00	23.80	22.00	98830	82	544	2020
WALL/DUCT-125-4T/6-40 IE3	1475		57.10	33.10	30.00	117460	82	625	2020
WALL/DUCT-125-4T/6-50 IE3	1480		66.80	38.70	37.00	131060	82	673	2020
WALL/DUCT-125-4T/9-25 IE3	1470		35.10	20.30	18.50	79670	84	539	2020

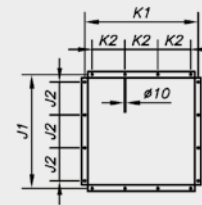
Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Approx. weight (Kg)	According ErP*
		230V	400V	690V					
WALL/DUCT-125-4T/9-30 IE3	1470		41.00	23.80	22.00	88280	83	553	2020
WALL/DUCT-125-4T/9-40 IE3	1475		57.10	33.10	30.00	104040	82	634	2020
WALL/DUCT-125-4T/9-50 IE3	1480		66.80	38.70	37.00	118400	82	682	2020
WALL/DUCT-125-4T/12-30 IE3	1475		41.00	23.80	22.00	62900	85	569	2020
WALL/DUCT-125-4T/12-40 IE3	1470		57.10	33.10	30.00	79180	85	650	2020
WALL/DUCT-125-4T/12-50 IE3	1480		66.80	38.70	37.00	95720	83	693	2020
WALL/DUCT-125-6T/6-5.5 IE3	960	15.60	8.99		4.00	51500	74	395	2020
WALL/DUCT-125-6T/6-7.5 IE3	960		11.20	6.49	5.50	60630	72	402	2020
WALL/DUCT-125-6T/6-10 IE3	960		14.80	8.58	7.50	72650	71	427	2020
WALL/DUCT-125-6T/6-15 IE3	955		21.90	12.70	11.00	85870	71	457	2020
WALL/DUCT-125-6T/6-20 IE3	970		28.20	16.30	15.00	92850	73	530	2020
WALL/DUCT-125-6T/9-10 IE3	960		14.80	8.58	7.50	63490	74	436	2020
WALL/DUCT-125-6T/9-15 IE3	955		21.90	12.70	11.00	77570	72	466	2020
WALL/DUCT-125-6T/9-20 IE3	970		28.20	16.30	15.00	92970	72	539	2020
WALL/DUCT-125-6T/9-25 IE3	975		35.90	20.80	18.50	96500	74	569	2020
WALL/DUCT-125-6T/12-25 IE3	975		35.90	20.80	18.50	91680	74	579	2020
WALL/DUCT-125-6T/12-30 IE3	975		42.40	24.60	22.00	102050	75	621	2020
WALL/DUCT-125-6T/12-40 IE3	980		55.40	32.10	30.00	115950	79	739	2020

¹ Irradiated sound pressure level in dB(A) at a distance of 3 m.
* In accordance with the ErP 2020 draft

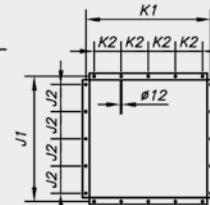
WALL/DUCT



*Wall-mounting flange

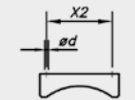


- WALL/DUCT 40
- WALL/DUCT 45
- WALL/DUCT 50
- WALL/DUCT 56
- WALL/DUCT 63
- WALL/DUCT 71
- WALL/DUCT 80

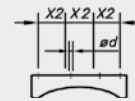


- WALL/DUCT 90
- WALL/DUCT 100
- WALL/DUCT 125

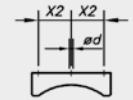
Helical ring support stand



- WALL/DUCT 40



- WALL/DUCT 125



- WALL/DUCT 45
- WALL/DUCT 50
- WALL/DUCT 56
- WALL/DUCT 63
- WALL/DUCT 71
- WALL/DUCT 80
- WALL/DUCT 90
- WALL/DUCT 100

Model	A	B	C	D	ØD*	I	J	H	G	E	F	J1	J2	K1	K2	X2	ød
WALL/DUCT-40	640	590	650	600	400	80	255	450	430	82	430	700	200	700	200	200	10
WALL/DUCT-45	640	590	650	600	450	80	280	490	470	82	430	700	200	700	200	200	12
WALL/DUCT-50	690	690	700	700	500	80	305	490	470	82	560	790	220	790	220	200	12
WALL/DUCT-56	690	690	700	700	560	80	340	530	510	82	560	790	220	790	220	215	13
WALL/DUCT-63	990	990	1000	1000	630	80	385	560	540	82	760	1050	300	1050	300	215	13
WALL/DUCT-71	990	990	1000	1000	710	80	445	630	605	82	760	1050	300	1050	300	225	13
WALL/DUCT-80	990	990	1000	1000	800	100	490	630	605	82	760	1050	300	1050	300	280	13
WALL/DUCT-90	1190	1190	1200	1200	900	100	550	630	605	82	790	1250	250	1250	250	280	18
WALL/DUCT-100	1190	1190	1200	1200	1000	100	600	730	705	82	790	1250	250	1250	250	280	18
WALL/DUCT-100 >10CV	1190	1190	1200	1200	1000	100	600	830	805	82	790	1250	250	1250	250	280	18
WALL/DUCT-125	1490	1490	1500	1500	1250	100	725	1045	1025	82	1240	1600	300	1600	300	300	18
WALL/DUCT-125 (4T/6-20; 6T/6-5,5; 6T/6-10; 6T/6-15; 6T/6-20; 6T/9-10; 6T/9-15)	1490	1490	1500	1500	1250	100	725	845	825	82	1240	1600	300	1600	300	300	18
WALL/DUCT-125-50CV	1490	1490	1500	1500	1250	100	725	1145	1125	82	1240	1600	300	1600	300	300	18

* Recommended nominal tube diameter
(C x D) Nominal size of the wall opening.

WALL/FREE



Dynamic wall mount extractor fans fitted with motorised hatch

Dynamic wall extractor fans with motorised opening system and protective grating for use without extract duct. Suitable for installation in industrial buildings, stores or in any other type of building.

Fan:

- Wall fixing flange for correct and easy installation.
- Support frame in galvanized sheet steel.
- Variable angle impeller made of cast aluminium.
- Airflow direction from motor to impeller.
- Protection grid against contacts according to UNE-EN ISO 12499.

Extruded aluminum hatch:

- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Limit switches in both positions (open and closed).
- Possibility of mounting in upper and lower opening.
- Manual opening system.

Motor:

- Class F motors with ball bearings. IP55 protection. Except single-phase models from size 45 to size 56, with IP54 protection. 1 or 2 speeds depending on model.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 °C +50 °C.

Actuator:

- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Flap finish:

- Anti-corrosive in extruded aluminum.
- RAL 7016 supplied as standard. Any other RAL can be supplied on demand.

On request:

- AA: impeller-motor air direction for air entry to premises.

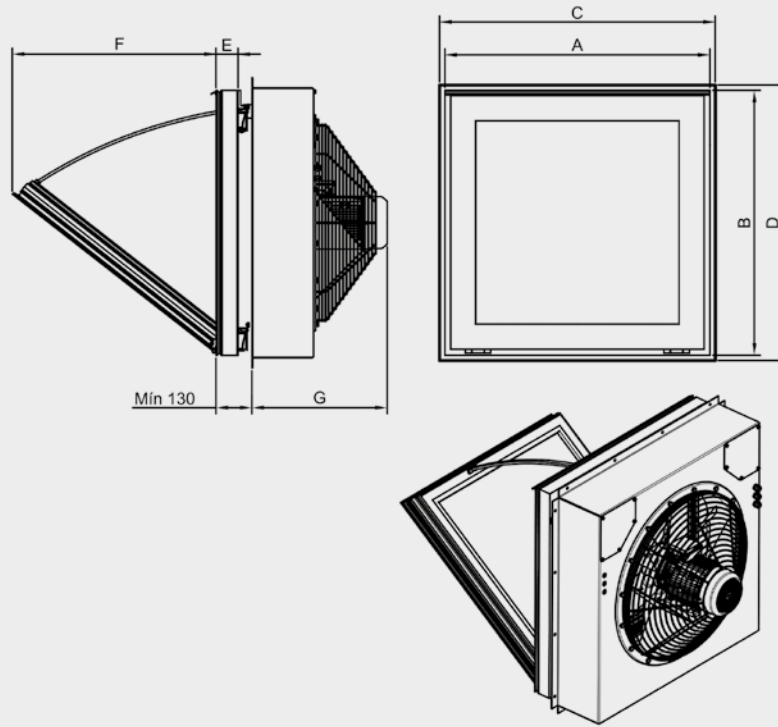


Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m ³ /h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	According ErP*
		230V	400V	690V						
WALL/FREE-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7040	68	55	2020
WALL/FREE-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9400	68	63	2020
WALL/FREE-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11325	68	67	2020
WALL/FREE-56-4T-2 IE3	1440	5.89	3.38		1.50	36	15020	61	69	2020
WALL/FREE-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	65	97	2020
WALL/FREE-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	66	103	2020
WALL/FREE-71-4T-3 IE3	1425	7.86	4.52		2.20	22	25100	67	100	2020
WALL/FREE-71-4T-4 IE3	1430	11.01	6.33		3.00	28	27480	67	106	2020
WALL/FREE-71-6T-1.5 IE3	945	4.73	2.72		1.10	34	19930	58	98	2020
WALL/FREE-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	72	114	2020
WALL/FREE-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	71	120	2020
WALL/FREE-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	70	122	2020
WALL/FREE-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	60	112	2020
WALL/FREE-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	61	116	2020
WALL/FREE-90-4T-7.5 IE3	1460		10.40	6.04	5.50	18	46140	74	183	2020
WALL/FREE-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	73	187	2020
WALL/FREE-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	63	145	2020
WALL/FREE-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	66	165	2020
WALL/FREE-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	76	194	2020
WALL/FREE-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	76	226	2020
WALL/FREE-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	77	237	2020
WALL/FREE-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	67	178	2020

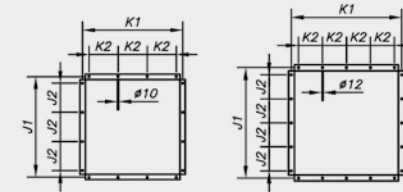
¹ Irradiated sound pressure level in dB(A) at a distance of 3 m.

* In accordance with the ErP 2020 draft

WALL/FREE



*Wall-mounting flange



WALL/FREE 40
WALL/FREE 45
WALL/FREE 56
WALL/FREE 63
WALL/FREE 71
WALL/FREE 80

WALL/FREE 90
WALL/FREE 100

Model	A	B	C	D	E	F	G	J1	J2	K1	K2
WALL/FREE-40	640	590	650	600	82	430	375	700	200	700	200
WALL/FREE-45	640	590	650	600	82	430	400	700	200	700	200
WALL/FREE-56	690	690	700	700	82	560	415	790	220	790	220
WALL/FREE-63	990	990	1000	1000	82	760	475	1050	300	1050	300
WALL/FREE-71	990	990	1000	1000	82	760	500	1050	300	1050	300
WALL/FREE-80	990	990	1000	1000	82	760	500	1050	300	1050	300
WALL/FREE-90	1190	1190	1200	1200	82	790	525	1250	250	1250	250
WALL/FREE-100	1190	1190	1200	1200	82	790	550	1250	250	1250	250

(C x D) Nominal size of the wall opening.

WALL/AXIAL



Dynamic wall mount axial extract fans fitted with motorised hatch

Wall mounted axial fans with fiberglass reinforced plastic propeller with motorized opening damper. Suitable for installation in industrial buildings or commercial facilities.

Fan:

- Wall fixing flange for correct and easy installation.
- Support frame in galvanized sheet steel.
- Fibreglass reinforced polyamide-6 impeller.
- Protection grid against contacts according to UNE-EN ISO 12499.
- On models 71, the protective grille is supplied as an accessory.
- Airflow direction from motor to impeller.

Extruded aluminum hatch:

- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Limit switches in both positions (open and closed).
- Possibility of mounting in upper and lower opening.
- Manual opening system.

Motor:

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings, IP55 protection.
- Three-phase 230/400 V 50 Hz.
- Working temperature: -25 °C +60 °C.

Actuator:

- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Flap finish:

- Anti-corrosive in extruded aluminum.
- RAL 7016 supplied as standard. Any other RAL can be supplied on demand.

On request:

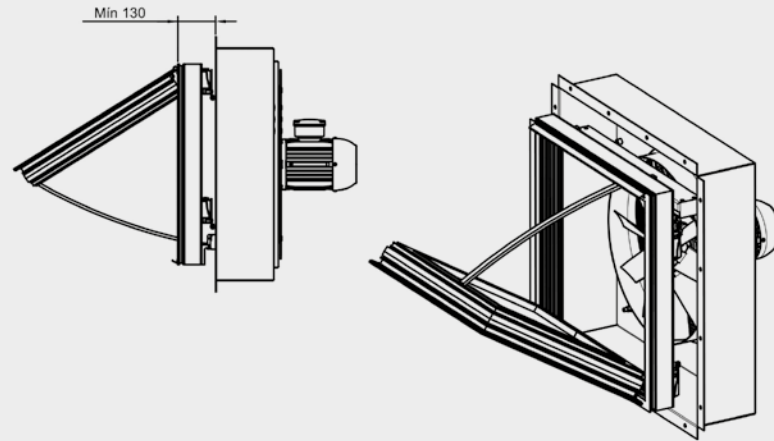
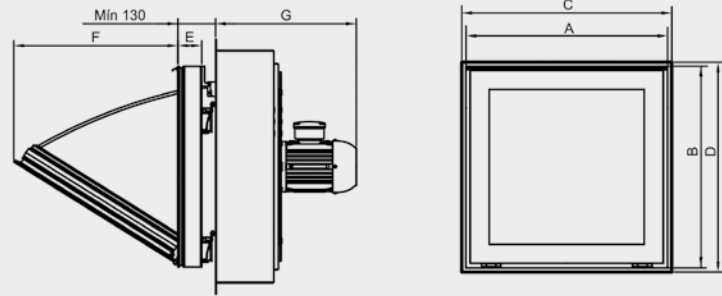
- AA: impeller-motor air direction for air entry to premises.

Model	Speed (r/min)	Maximum admissible current (A)		Installed power (kW)	Maximum flow rate (m ³ /h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	According ErP*
		230V	400V					
WALL/AXIAL-40-4T	1350	1.66	0.96	0.25	5180	57	32	2015
WALL/AXIAL-45-4T	1370	2.02	1.17	0.37	7280	62	36	2020
WALL/AXIAL-50-4T	1380	2.92	1.69	0.55	10190	65	44	2015
WALL/AXIAL-56-4T IE3	1455	4.07	2.34	1.10	12980	68	55	2015
WALL/AXIAL-56-6T	900	2.24	1.30	0.37	8290	57	46	2015
WALL/AXIAL-63-4T IE3	1455	4.07	2.34	1.10	16460	72	80	2020
WALL/AXIAL-63-6T	900	2.24	1.30	0.37	12340	62	71	2015
WALL/AXIAL-71-4T IE3	1440	5.41	3.11	1.50	22170	76	92	2020
WALL/AXIAL-71-6T IE3	940	3.36	1.93	0.75	17320	64	88	2015

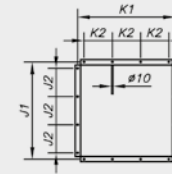
Sound pressure level in dB(A) at a distance of 3 m and at maximum flow rate.

* In accordance with the ErP 2020 draft

WALL/AXIAL



*Wall-mounting flange



WALL/AXIAL 40
WALL/AXIAL 45
WALL/AXIAL 50
WALL/AXIAL 56
WALL/AXIAL 63
WALL/AXIAL 71

Model	A	B	C	D	E	F	G	J1	J2	K1	K2
WALL-AXIAL-40	640	590	650	600	82	430	400	700	200	700	200
WALL-AXIAL-45	640	590	650	600	82	430	405	700	200	730	200
WALL-AXIAL-50	690	690	700	700	82	560	455	790	220	790	220
WALL-AXIAL-56	690	690	700	700	82	560	485	840	220	840	220
WALL-AXIAL-63	990	990	1000	1000	82	760	480	1050	300	1050	300
WALL-AXIAL-71	990	990	1000	1000	82	760	480	1050	300	1050	300

(C x D) Nominal size of the wall opening.

THT/HATCH



400°C/2h and 300°C/2h rated dynamic discharge system with motorised opening function, fitted with roof mounted extractor, for smoke exhaust in the event of fire

Dynamic discharge systems with roof-mounted extract fans and motorised opening function. Specially designed for the fast, effective exhaust of harmful smoke and gases in the event of fire. Suitable for installation in industrial or commercial buildings. Approved in accordance with standard EN 12101-3, with F400 and F300 certificate. The rapid smoke extract permits the efficient intervention of fire fighters, fast evacuation of people and prevents new sources of fire and greater structural damage to the building. Can also be used for ambient ventilation in the buildings in which it is installed.

Fan:

- An extremely robust structure that is able to withstand severe weather changes.
- Equipment structure made of anti-corrosive galvanised sheet steel.
- Designed to ensure watertightness.
- 100 mm thick thermal insulation for the hatch and 60 mm for the sides.
- Adaptable skirting for correct, easy installation on the roof.
- Maintenance switches for actuator and fan disconnection with auxiliary contacts.
- Roof mounted extract fans with F400 certificate no. 0370-CPR-1827 and F300 certificate no. 0370-CPR-0973.
- Tubular casing in sheet steel with polyester resin anti-corrosive treatment.
- Adjustable cast aluminum impeller.

Opening system:

- Motorised opening arm, with encapsulated IP65 mechanism.
- Supply voltage at 230 V AC 50/60 Hz.
- System reinforced and guaranteed with more than 11,000 cycles.
- Snow load SL 1000.
- Automatic opening by external signal from the control system (fire control panel, smoke detector ...). Control systems not included in the supply.
- Limit switches in both positions (open and closed).

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings and IP55 protection.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 -25 °C +40 °C continuous service, also suitable for warm climates with temperatures up to 50 °C. S2 operation, 300 °C/2h, 400 °C/2h.

Finish:

- Anti-corrosive in galvanized steel sheet.

On request:

- Polyester resin anti-corrosive paint finish.
- Motorised opening arms with supply voltage of 24 V DC.

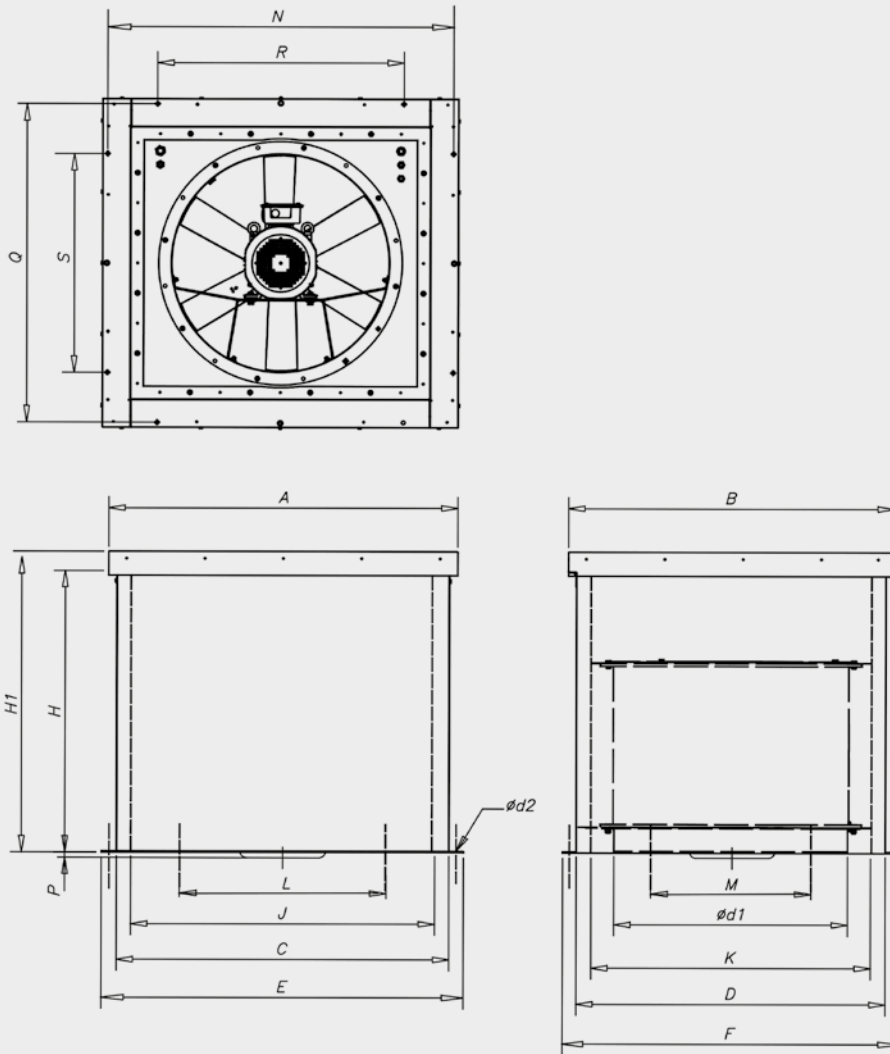
Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	Accor-ding ErP*
		230V	400V	690V						
THT/HATCH-40-2T-1 IE3	2850	2.76	1.59		0.75	16	6100	69	184	2020
THT/HATCH-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7030	68	188	2020
THT/HATCH-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9390	68	193	2020
THT/HATCH-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11320	68	194	2020
THT/HATCH-50-2T-4 IE3	2880	9.61	5.52		3.00	16	13860	74	206	2020
THT/HATCH-56-2T-5.5 IE3	2870		7.20	4.17	4.00	16	18810	75	226	2020
THT/HATCH-56-2T-7.5 IE3	2910		10.10	5.80	5.50	22	22510	75	237	2020
THT/HATCH-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	65	262	2020
THT/HATCH-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	66	271	2020
THT/HATCH-63-6T-1 IE3	940	3.36	1.93		0.75	38	15890	55	252	2020
THT/HATCH-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	72	280	2020
THT/HATCH-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	71	289	2020
THT/HATCH-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	70	295	2020
THT/HATCH-80-4T-7.5 IE3	1460		10.40	6.04	5.50	26	39640	70	311	2020
THT/HATCH-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	60	279	2020

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	According ErP*
		230V	400V	690V						
THT/HATCH-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	61	288	2020
THT/HATCH-90-4T-7.5 IE3	1460		10.40	6.04	5.50	18	46140	74	392	2020
THT/HATCH-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	73	403	2020
THT/HATCH-90-4T-15 IE3	1460		20.70	11.99	11.00	30	59390	75	456	2020
THT/HATCH-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	63	365	2020
THT/HATCH-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	66	391	2020
THT/HATCH-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	76	413	2020
THT/HATCH-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	76	466	2020
THT/HATCH-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	77	481	2020
THT/HATCH-100-4T/9-25 IE3	1475		35.40	20.39	18.50	26	70620	77	535	2020
THT/HATCH-100-4T/9-30 IE3	1475		42.20	24.44	22.00	30	74840	79	552	2020
THT/HATCH-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	67	413	2020
THT/HATCH-100-6T-7.5 IE3	970		12.30	7.07	5.50	32	53520	69	420	2020
THT/HATCH-125-4T/6-25 IE3	1465		35.40	20.39	18.50	14	92550	83	746	2020
THT/HATCH-125-4T/6-30 IE3	1470		42.20	24.44	22.00	16	98830	82	760	2020

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Ap-prox. weight (Kg)	According ErP*
		230V	400V	690V						
THT/HATCH-125-4T/6-40 IE3	1475		53.30	31.02	30.00	22	117450	82	841	2020
THT/HATCH-125-4T/6-50 IE3	1480		66.80	38.70	37.00	26	131050	82	889	2020
THT/HATCH-125-4T/9-25 IE3	1465		35.40	20.39	18.50	10	79650	84	755	2020
THT/HATCH-125-4T/9-30 IE3	1470		42.20	24.44	22.00	12	88290	83	769	2020
THT/HATCH-125-4T/9-40 IE3	1475		53.30	31.02	30.00	16	104040	82	850	2020
THT/HATCH-125-4T/9-50 IE3	1480		66.80	38.70	37.00	20	118400	82	898	2020
THT/HATCH-125-6T/6-5.5 IE3	970		8.37	4.82	4.00	10	51500	74	611	2020
THT/HATCH-125-6T/6-7.5 IE3	970		12.30	7.07	5.50	14	60630	72	618	2020
THT/HATCH-125-6T/6-10 IE3	960		15.20	8.83	7.50	20	72650	71	643	2020
THT/HATCH-125-6T/6-15 IE3	955		22.50	13.07	11.00	26	85850	71	673	2020
THT/HATCH-125-6T/6-20 IE3	950		29.00	16.78	15.00	30	92850	73	746	2020
THT/HATCH-125-6T/9-10 IE3	960		15.20	8.83	7.50	14	63490	74	652	2020
THT/HATCH-125-6T/9-15 IE3	955		22.50	13.07	11.00	20	77550	72	682	2020
THT/HATCH-125-6T/9-20 IE3	950		29.00	16.78	15.00	26	92950	72	755	2020

¹ Irradiated sound pressure level in dB(A) at a distance of 3 m.
* In accordance with the ErP 2020 draft

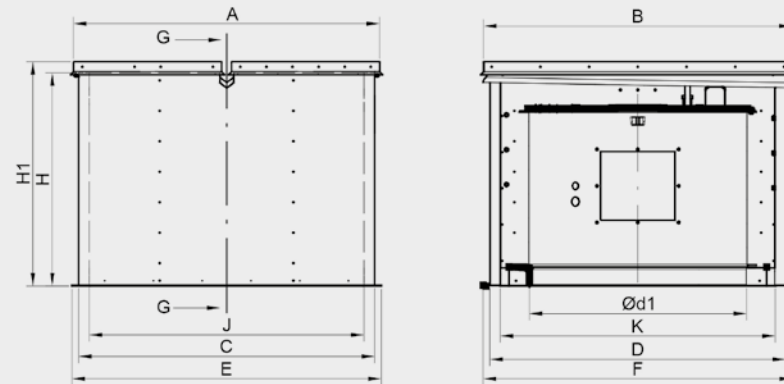
THT/HATCH
40 ... 100



Model	A	B	C	D	ød1	E	F	H	H1	J
THT/HATCH-40	1100	1000	1020	920	400	1100	1000	900	1000	900
THT/HATCH-45	1100	1000	1020	920	450	1100	1000	900	1000	900
THT/HATCH-50	1100	1000	1020	920	500	1100	1000	900	1000	900
THT/HATCH-56	1100	1000	1020	920	560	1100	1000	900	1000	900
THT/HATCH-63	1300	1200	1220	1120	630	1300	1200	900	1000	1100
THT/HATCH-80	1300	1200	1220	1120	800	1300	1200	900	1000	1100
THT/HATCH-90	1500	1400	1420	1320	900	1500	1400	900	1000	1300
THT/HATCH-90-4T-15	1500	1400	1420	1320	900	1500	1400	900	1000	1300
THT/HATCH-100	1500	1400	1420	1320	1000	1500	1400	900	1000	1300
THT/HATCH-100 (4T-15;4T-20)	1500	1400	1420	1320	1000	1500	1400	900	1000	1300
THT/HATCH-100 (4T/9-25;4T/9-30)	1500	1400	1420	1320	1000	1500	1400	900	1000	1300

Model	K	L	M	N	P	Q	R	S	ød2
THT/HATCH-40	800	700	600	1065	-	965	700	600	13
THT/HATCH-45	800	700	600	1065	-	965	700	600	13
THT/HATCH-50	800	700	600	1065	-	965	700	600	13
THT/HATCH-56	800	700	600	1065	-	965	700	600	13
THT/HATCH-63	1000	900	800	1265	-	1165	900	800	13
THT/HATCH-80	1000	900	800	1265	-	1165	900	800	13
THT/HATCH-90	1200	1100	1000	1465	-	1365	1100	1000	13
THT/HATCH-90-4T-15	1200	1100	1000	1465	38	1365	1100	1000	13
THT/HATCH-100	1200	1100	1000	1465	-	1365	1100	1000	13
THT/HATCH-100 (4T-15;4T-20)	1200	1100	1000	1465	80	1365	1100	1000	13
THT/HATCH-100 (4T/9-25;4T/9-30)	1200	1100	1000	1465	125	1365	1100	1000	13

THT/HATCH-125



Model	A	B	C	D	Ød1	E	F	H	H1	J	K
THT/HATCH-125	1750	1775	1700	1700	1245	1780	1780	1230	1330	1580	1580

HCT/HATCH



Dynamic discharge systems with motorised opening function fitted with roof-mount extract fan

Dynamic discharge systems with roof-mounted extract fans and motorised opening function. Suitable for installation in industrial or commercial buildings. Can be used for ambient ventilation in the buildings in which it is installed.

Fan:

- An extremely robust structure that is able to withstand severe weather changes.
- Equipment structure made of anti-corrosive galvanised sheet steel.
- Designed to ensure watertightness.
- 100 mm thick thermal insulation for the hatch and 60 mm for the sides.
- Adaptable skirting for correct, easy installation on the roof.
- Maintenance switches for actuator and fan disconnection with auxiliary contacts.
- Tubular casing in sheet steel with polyester resin anti-corrosive treatment.
- Cast aluminium impellers.
- Models 125 with 6 or 9 blade cast aluminum impellers, with adjustable angle of inclination.

Opening system:

- Motorised opening arm, with encapsulated IP65 mechanism.
- Supply voltage at 230 V AC 50/60 Hz.

- System reinforced and guaranteed with more than 11,000 cycles.
- Snow load SL 1000.
- Automatic opening by external signal from the control system (fire control panel, smoke detector ...). Control systems not included in the supply.
- Limit switches in both positions (open and closed).

Motor:

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings, IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 °C +50 °C.

Finish:

- Anti-corrosive in galvanized steel sheet.

On request:

- Polyester resin anti-corrosive paint finish.
- Motorised opening arms with supply voltage of 24 V DC.

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Approx. weight (Kg)	According ErP*
		230V	400V	690V						
HCT/HATCH-40-2T-1.5 IE3	2830	4.03	2.34		1.10	20	7030	68	188	2015
HCT/HATCH-45-2T-2 IE3	2875	5.34	3.07		1.50	16	9390	68	193	2015
HCT/HATCH-45-2T-3 IE3	2910	7.32	4.21		2.20	22	11330	68	194	2015
HCT/HATCH-45-4T-0.5	1370	2.02	1.17		0.37	36	7100	56	189	2015
HCT/HATCH-50-4T-0.75	1380	2.92	1.69		0.55	28	9730	57	194	2015
HCT/HATCH-56-4T-1 IE3	1420	2.82	1.62		0.75	22	11270	60	202	2020
HCT/HATCH-56-4T-1.5 IE3	1455	4.07	2.34		1.10	30	13610	60	201	2020
HCT/HATCH-56-4T-2 IE3	1440	5.41	3.11		1.50	36	15020	61	205	2015
HCT/HATCH-56-6T-0.75	900	2.99	1.73		0.55	38	10000	52	201	2020
HCT/HATCH-63-4T-1 IE3	1420	2.82	1.62		0.75	14	15180	64	206	2020
HCT/HATCH-63-4T-1.5 IE3	1455	4.07	2.34		1.10	20	17800	63	208	2020
HCT/HATCH-63-4T-2 IE3	1440	5.41	3.11		1.50	24	19280	63	212	2020
HCT/HATCH-63-4T-3 IE3	1435	7.93	4.56		2.20	32	22170	65	221	2020
HCT/HATCH-63-4T-4 IE3	1440	10.70	6.15		3.00	38	24240	66	230	2020
HCT/HATCH-63-6T-0.75	900	2.99	1.73		0.55	28	13590	54	249	2015
HCT/HATCH-71-4T-2 IE3	1440	5.41	3.11		1.50	14	20920	67	260	2020
HCT/HATCH-71-4T-3 IE3	1435	7.93	4.56		2.20	22	25110	67	269	2020
HCT/HATCH-71-4T-4 IE3	1440	10.70	6.15		3.00	28	27480	67	278	2015

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Approx. weight (Kg)	According to ErP*
		230V	400V	690V						
HCT/HATCH-71-6T-1 IE3	940	3.36	1.93		0.75	26	17300	57	260	2015
HCT/HATCH-71-6T-1.5 IE3	945	4.68	2.69		1.10	34	19930	58	268	2015
HCT/HATCH-80-4T-3 IE3	1435	7.93	4.56		2.20	12	25450	72	280	2020
HCT/HATCH-80-4T-4 IE3	1440	10.70	6.15		3.00	16	30270	71	289	2020
HCT/HATCH-80-4T-5.5 IE3	1450	13.90	8.00		4.00	18	32770	70	295	2020
HCT/HATCH-80-6T-1.5 IE3	945	4.68	2.69		1.10	18	21470	60	279	2020
HCT/HATCH-80-6T-2 IE3	950	6.43	3.70		1.50	26	25970	61	288	2020
HCT/HATCH-90-4T-5.5 IE3	1450	13.90	8.00		4.00	12	38880	75	318	2020
HCT/HATCH-90-4T-7.5 IE3	1465		10.30	5.97	5.50	18	46130	74	344	2020
HCT/HATCH-90-4T-10 IE3	1465		13.90	8.06	7.50	22	50140	73	293	2020
HCT/HATCH-90-6T-2 IE3	950	6.43	3.70		1.50	16	28780	63	311	2020
HCT/HATCH-90-6T-3 IE3	950	9.08	5.22		2.20	24	33990	63	365	2020
HCT/HATCH-90-6T-4 IE3	970	12.00	6.91		3.00	30	38910	66	391	2015
HCT/HATCH-100-4T-7.5 IE3	1465		10.30	5.97	5.50	10	46860	79	400	2020
HCT/HATCH-100-4T-10 IE3	1465		13.90	8.06	7.50	16	57410	76	411	2020
HCT/HATCH-100-4T-15 IE3	1470		20.90	12.10	11.00	22	66300	76	466	2020
HCT/HATCH-100-4T-20 IE3	1465		27.90	16.20	15.00	28	76150	77	481	2020
HCT/HATCH-100-6T-3 IE3	950	9.08	5.22		2.20	16	37620	67	375	2020

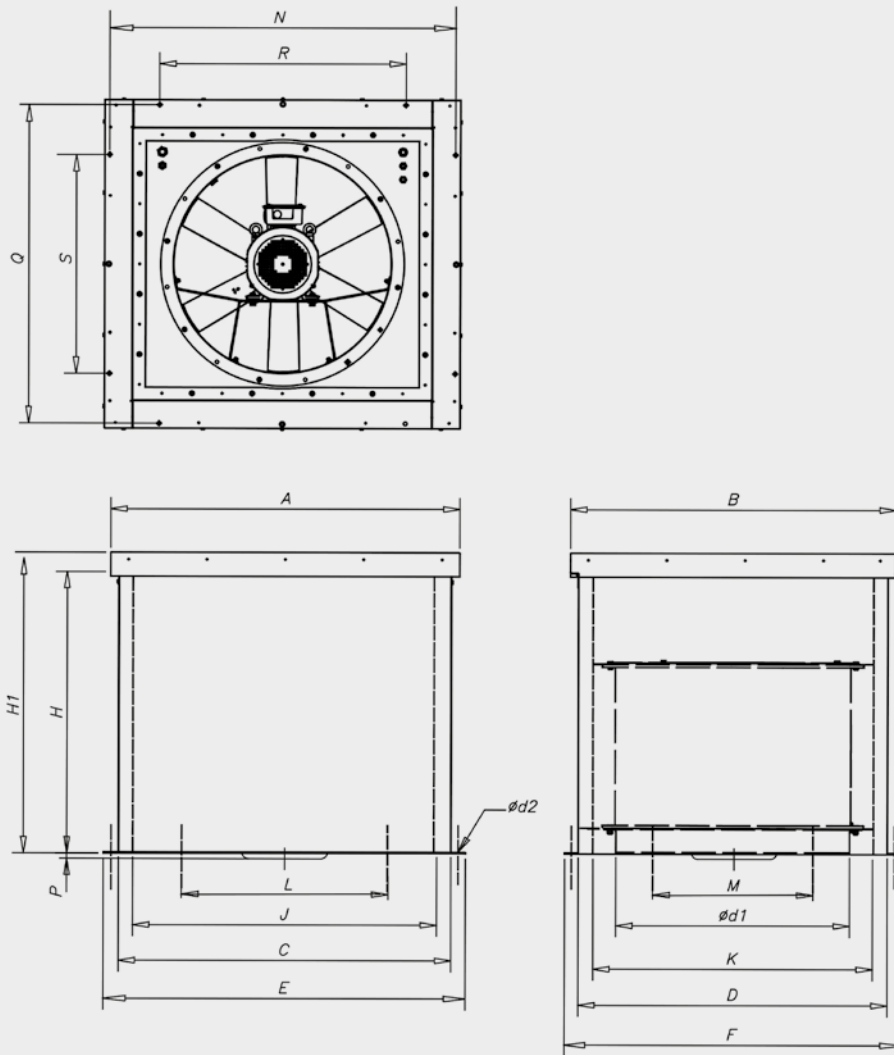
Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)	Approx. weight (Kg)	According to ErP*
		230V	400V	690V						
HCT/HATCH-100-6T-4 IE3	970	12.00	6.91		3.00	20	41170	66	401	2015
HCT/HATCH-100-6T-5.5 IE3	960	15.60	8.99		4.00	26	47780	67	413	2015
HCT/HATCH-125-4T/6-25 IE3	1470		35.10	20.30	18.50	14	92550	83	746	2020
HCT/HATCH-125-4T/6-30 IE3	1470		41.00	23.80	22.00	16	98830	82	760	2020
HCT/HATCH-125-4T/6-40 IE3	1480		57.10	33.10	30.00	22	117460	82	841	2020
HCT/HATCH-125-4T/6-50 IE3	1480		66.80	38.70	37.00	26	131060	82	889	2020
HCT/HATCH-125-4T/9-25 IE3	1470		35.10	20.30	18.50	10	79670	84	755	2020
HCT/HATCH-125-4T/9-30 IE3	1470		41.00	23.80	22.00	12	88280	83	769	2020
HCT/HATCH-125-4T/9-40 IE3	1480		57.10	33.10	30.00	16	104040	82	850	2020
HCT/HATCH-125-4T/9-50 IE3	1480		66.80	38.70	37.00	20	118400	82	898	2020
HCT/HATCH-125-6T/6-5.5 IE3	960	15.60	8.99		4.00	10	51500	74	611	2020
HCT/HATCH-125-6T/6-7.5 IE3	970		11.20	6.49	5.50	14	60630	72	618	2020
HCT/HATCH-125-6T/6-10 IE3	975		14.80	8.58	7.50	20	72650	71	643	2020
HCT/HATCH-125-6T/6-15 IE3	975		21.90	12.70	11.00	26	85870	71	673	2020
HCT/HATCH-125-6T/6-20 IE3	975		28.20	16.30	15.00	30	92850	73	746	2020
HCT/HATCH-125-6T/9-10 IE3	975		14.80	8.58	7.50	14	63490	74	652	2020
HCT/HATCH-125-6T/9-15 IE3	975		21.90	12.70	11.00	20	77570	72	682	2020
HCT/HATCH-125-6T/9-20 IE3	975		28.20	16.30	15.00	26	92970	72	755	2020

¹ Irradiated sound pressure level in dB(A) at a distance of 3 m.

* In accordance with the ErP 2020 draft



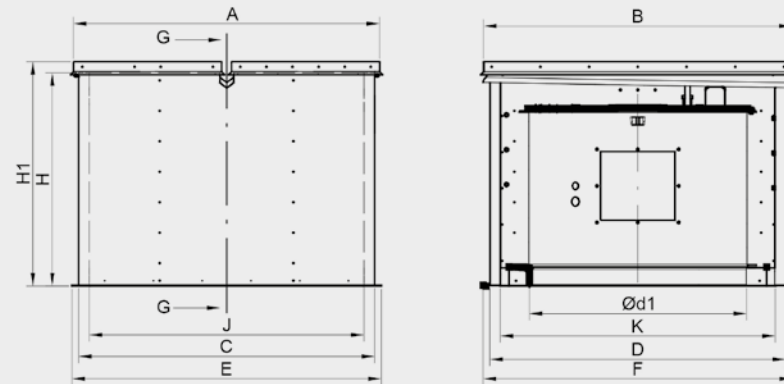
HCT/HATCH
40 ... 100



Model	A	B	C	D	ød1	E	F	H	H1	J
HCT/HATCH-40	1100	1000	1020	920	400	1100	1000	900	1000	900
HCT/HATCH-45	1100	1000	1020	920	450	1100	1000	900	1000	900
HCT/HATCH-50	1100	1000	1020	920	500	1100	1000	900	1000	900
HCT/HATCH-56	1100	1000	1020	920	560	1100	1000	900	1000	900
HCT/HATCH-63	1300	1200	1220	1120	630	1300	1200	900	1000	1100
HCT/HATCH-71	1300	1200	1220	1120	710	1300	1200	900	1000	1100
HCT/HATCH-80	1300	1200	1220	1120	800	1300	1200	900	1000	1100
HCT/HATCH-90	1500	1400	1420	1320	900	1500	1400	900	1000	1300
HCT/HATCH-100	1500	1400	1420	1320	1000	1500	1400	900	1000	1300
HCT/ HATCH-100-4T-15	1500	1400	1420	1320	1000	1500	1400	900	1000	1300
HCT/ HATCH-100-4T-20	1500	1400	1420	1320	1000	1500	1400	900	1000	1300

Model	K	L	M	N	P	Q	R	S	ød2
HCT/HATCH-40	800	700	600	1065	-	965	700	600	13
HCT/HATCH-45	800	700	600	1065	-	965	700	600	13
HCT/HATCH-50	800	700	600	1065	-	965	700	600	13
HCT/HATCH-56	800	700	600	1065	-	965	700	600	13
HCT/HATCH-63	1000	900	800	1265	-	1165	900	800	13
HCT/HATCH-71	1000	900	800	1265	-	1165	900	800	13
HCT/HATCH-80	1000	900	800	1265	-	1165	900	800	13
HCT/HATCH-90	1200	1100	1000	1465	-	1365	1100	1000	13
HCT/HATCH-100	1200	1100	1000	1465	-	1365	1100	1000	13
HCT/ HATCH-100-4T-15	1200	1100	1000	1465	80	1365	1100	1000	13
HCT/ HATCH-100-4T-20	1200	1100	1000	1465	80	1365	1100	1000	13

HCT/HATCH-125



Model	A	B	C	D	Ød1	E	F	H	H1	J	K
HCT/HATCH-125	1750	1775	1700	1700	1245	1780	1780	1230	1330	1580	1580

WALL/FLAP



Aluminum gate with motorized opening

Suitable for installation in industrial buildings or commercial facilities. It can be used for room ventilation.

Characteristics:

- Very robust aluminum structure able to withstand extreme weather conditions.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Limit switches in both positions (open and closed).

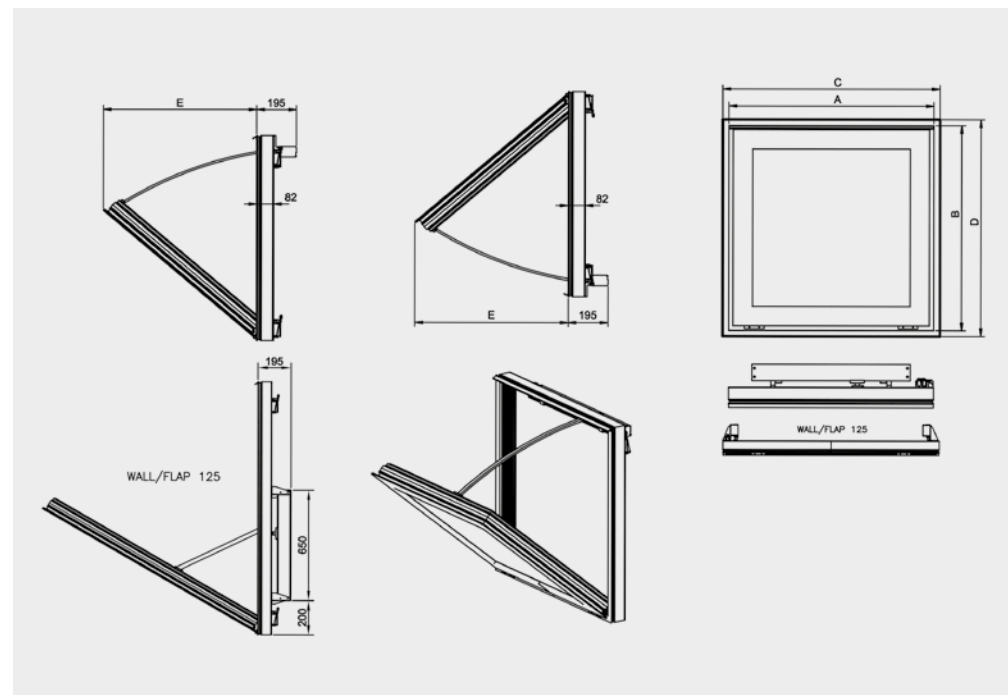
- Possibility of mounting in upper and lower opening. Size 125 only top opening.
- Manual opening system (Utility model ES 1 259 375 U).

Finish:

- Anti-corrosive in extruded aluminum.
- RAL 7016 supplied as standard. Any other RAL can be supplied on demand.

Actuator:

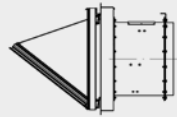
- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.



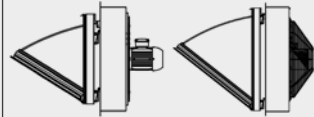
Model	A	B	C	D	E	Approx. weight (Kg)	Applicable to
WALL/FLAP-40-45	640	590	650	600	430	12	Diameters 40 and 45
WALL/FLAP-50-56	690	690	700	700	560	14	Diameters 50 and 56
WALL/FLAP-63-71-80	990	990	1000	1000	760	22	Diameters 63, 71 and 80
WALL/FLAP-90-100	1190	1190	1200	1200	790	27	Diameters 90 and 100
WALL/FLAP-125	1490	1490	1500	1500	1240	42	Diameters 125

(C x D) Nominal size of the wall opening.

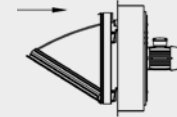
VERSIONS AVAILABLE



For connection to an extract duct.










For connection to an extract duct.



AA version impeller to motor air direction.



F-300 and F-400 certification.

	For connection to an extract duct.	For connection to an extract duct.	AA version impeller to motor air direction.	F-300 and F-400 certification.
 THT/WALL	✓	-	-	✓
 THT/WALL-F	-	✓	-	✓
 WALL/DUCT	✓	-	✓	-
 WALL/AXIAL	-	✓	✓	-
 WALL/FREE	-	✓	✓	-
 THT/HATCH	✓	✓	-	✓
 HCT/HATCH	✓	✓	✓	-



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