



Combining a motorized hatched enclosure and a mechanical extract fan, the THGT-HATCH is a roof-mounted unit designed for vertical smoke extract in fire conditions.

F300/F200-120 and F400-120 certification for dual purpose as per EN 12101-3 (0370-CPR-6216 and 0370-CPR-6213 respectively).

Check EasyVent to select the most suitable configurations for the installation, and obtain the corresponding datasheets.

Fan

THGT series fan, bearer of the AMCA Seal for Air Performance.

Long casing configuration and Form A, for easy impeller access for maintenance.

Casings formed from rolled sheet steel with a corrosion resistant hot dip galvanised finish to EN 1461. Corrosion category C4.

Variable pitch angle impeller, dynamically balanced to ISO 14694: G6.3, made from high grade aluminum. Hubs made from aluminium or pressed sheet steel, depending on diameter and temperature requirements.

2 Poles F400-120 model with aluminium impeller-hub formed from a one piece casting.

Hatch

Designed and built for ease of installation and commissioning, energy savings and to withstand severe weather conditions.

Standard design base for flat surface mounting, in Magnelis finish. Corrosion category C5.

Mounting through roof on beams or purlins possible with JBS-HATCH accessory. Corrosion category C4.

Air tightness < 3 m³/h/m² @ 50Pa.

Insulation value U = 0,42W/(m²K) thanks to thermal bridge break.

Snow Load SL 1000 @ T(-25).

Wind Load WL 1500 (sizes 1, 2 & 3) & 1000 (size 4).

Outside ambient temperature -25°C to +40°C.

Opening mechanism for 20,000 cycles.

Includes contacts for open/closed HATCH position monitoring.

Connections for motor and powered actuators via independent IP65 external terminal boxes.

Motors & actuators

Single speed in 2 and 4 poles.

Two speed in 4/8 poles.

IE3 efficiency category from 0,75kW onwards, IE2 minimum for lower kW motors.

Not applicable to 8 pole or two speed motors.

F300-120 & F400-120 motors are IP55, class H insulation.

Electrical supplies:

Three phase 230/400V-50/60Hz up to 3 kW.

Three phase 380/415V-50Hz, for higher power motors and two speed motors.

Motors suitable for inverter control.

In emergency operation, no need for DOL or de-rating, as long as the VFTM range of VSDs is used, and/or requirements defined in EN 12101-3 are followed.

Actuators: 220-240V 50Hz IP65.

Other data

Standard air direction Motor-Impeller (Form A).

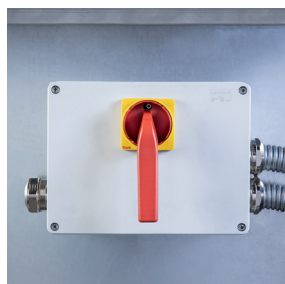
On request

Single speed motors in 6 poles.

Two speed motors in 2/4, 4/6 and 6/12 poles.

Paint finish to RAL colour.

Motors with PTC thermistor or heating resistors.



Fan motor IP65 terminal box with isolator



Hatch actuators IP65 terminal box



Specific applications



Officially approved to EN12101-3 standard (certificate number 0370-CPR-6216)



Officially approved to EN12101-3 standard (certificate number 0370-CPR-6213)



Car parks



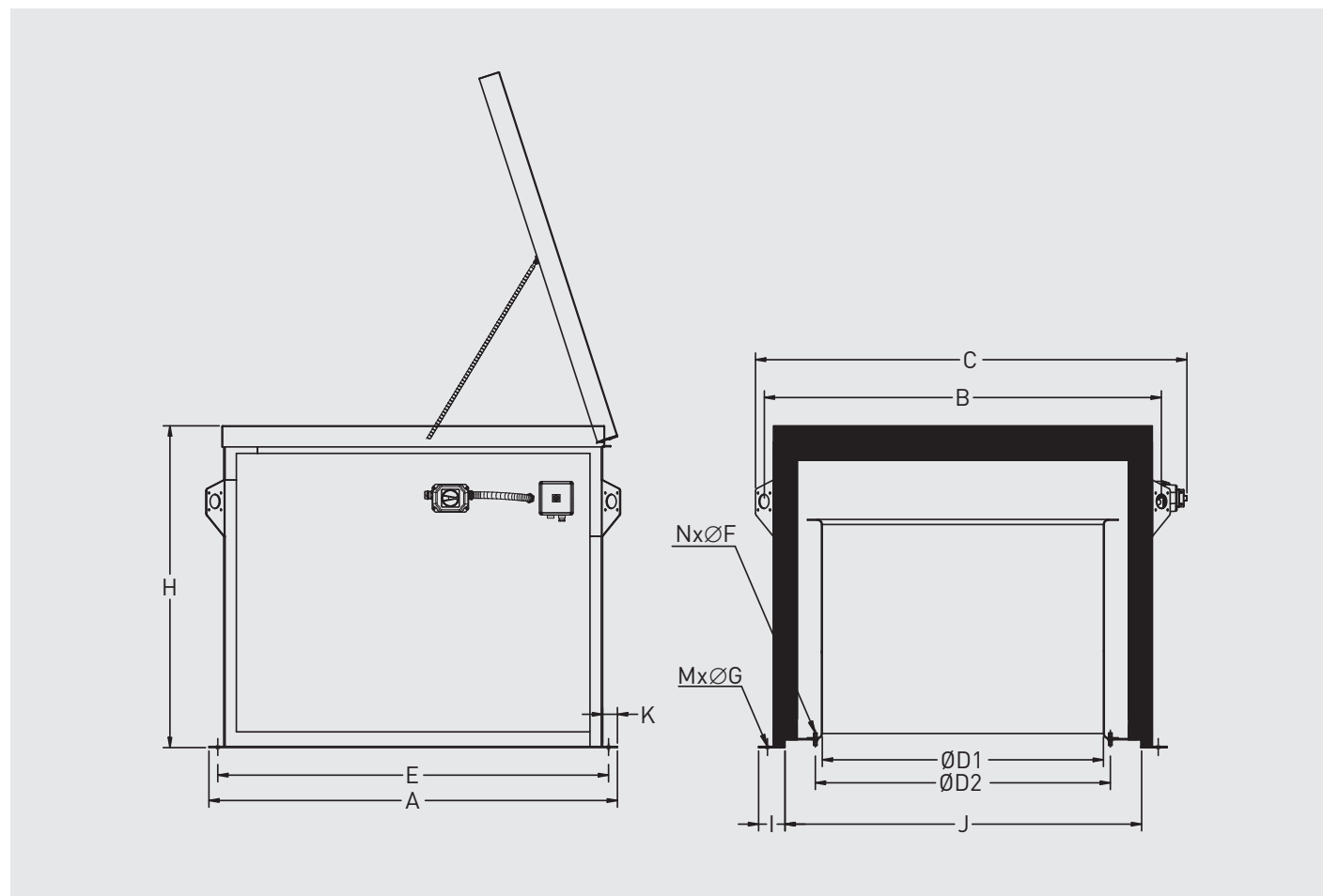
Warehouses

REFERENCE

T	H	G	T	-	H	A	T	C	H	/	4	-	8	0	0	-	6	/	1	6	-	A	-	5,5 KW	F400
1										2	3				4	5		6	7	8					

- 1 - Product range.
- 2 - Number of poles.
- 3 - Diameter.
- 4 - Number of blades.
- 5 - Blade pitch angle.
- 6 - Airflow direction: A (Motor-Impeller).
- 7 - Motor power.
- 8 - Temperature certification (one time only).

DIMENSIONS (mm)



Size	Model	Dimensions (mm)													
		A	H	B	C	E	I	K	J	ØD1	ØD2	N	F	M	G
1	500	1073	1037	1032	1123	1010	101	53	872	500	560	12	12	4	16
	560									560	620				
	630									630	690				
2	710	1252	1035	1212	1303	1190			1051	710	770	16	12		
	800									800	860				
3	900	1453	1140	1410	1530	1390			1252	900	970	16	15		
	1000									1000	1070				
4	1120	1704	1357	1662	1797	1640			1503	1120	1190	20	15		
	1250									1250	1320				

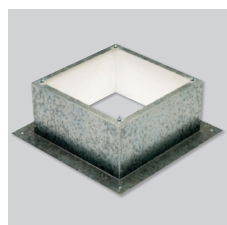
PERFORMANCE RANGE QUICK GUIDE

THGT-HATCH reference performance quick guide, considering free inlet & free discharge conditions, for each HATCH size's range.

Size	Range	Airflow (m³/h)	Motor Power (kW)	FLC 400V (A)	Weight (kg)
1	THGT-HATCH/2-500-6	9.700	1,5	3,09	201
	THGT-HATCH/2-630-6	30.500	11	20	332
	THGT-HATCH/4-500-6	3.400	0,55	1,38	188
	THGT-HATCH/4-630-6	23.500	3	6,15	255
2	THGT-HATCH/4-710-5	10.100	1,1	2,35	236
	THGT-HATCH/4-800-9	39.600	7,5	13,9	311
3	THGT-HATCH/4-900-3	22.200	2,2	4,56	274
	THGT-HATCH/4-1000-9	77.000	22	41	460
4	THGT-HATCH/4-1120-3	45.000	4	8,03	326
	THGT-HATCH/4-1250-9	130.000	45	80,9	751

MOUNTING ACCESSORIES

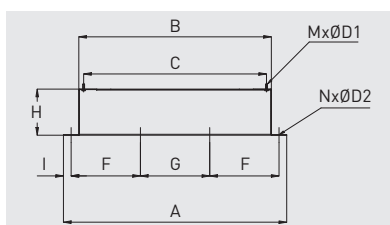
The general range of accessories is the same as for the THGT series that comes in-built, with the addition of the flat roof upstand, JBS-HATCH. They are defined below, see "Mounting Accessories" section for specific information on each of them.



JBS-HATCH

Flat roof up stand

- For mounting a fan on a flat roof without up stands.
- For use on horizontal roofs.
- Internal insulation.
- Supplied with screws and gasket for a complete weather seal.



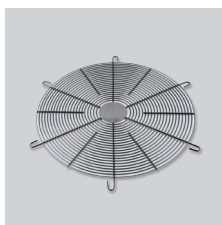
Model	A	B	C	ØD1	ØD2	M	N	F	G	H	I
JBS-HATCH 630	1273	1073	1010	12	18	4	12	391	391	300	50
JBS-HATCH 800	1453	1253	1190	12	18	4	12	451	451	300	50
JBS-HATCH 1000	1653	1453	1390	12	18	4	12	518	517	400	50
JBS-HATCH 1250	1903	1703	1640	16	18	4	12	601	601	500	50

Model	Matching flange	Bellmouth with guard	Flexible connector	Inlet guard	Silencers	Silencers with pod
500	ARO BRIDA TGT/THGT-500 N	EMB-500T	ACOPEL F400-500/180 N	DEF.ASP.TGT/THGT-500	SIL CZ 500	SIL CZO 500
560	ARO BRIDA TGT/THGT-560 N	EMB-560T	ACOPEL F400-560/180 N	DEF.ASP.TGT/THGT-560	SIL CZ 560	SIL CZO 560
630	ARO BRIDA TGT/THGT-630 N	EMB-630T	ACOPEL F400-630/180 N	DEF.ASP.TGT/THGT-630	SIL CZ 630	SIL CZ 630
710	ARO BRIDA TGT/THGT-710 N	EMB-710T	ACOPEL F400-710/180 N	DEF.ASP.TGT/THGT-710	SIL CZ 710	SIL CZO 710
800	ARO BRIDA TGT/THGT-800 N	EMB-800T	ACOPEL F400-800/180 N	DEF.ASP.TGT/THGT-800	SIL CZ 800	SIL CZO 800
900	ARO BRIDA TGT/THGT-900 N	EMB-900T	ACOPEL F400-900/180 N	DEF.ASP.TGT/THGT-900	SIL CZ 900	SIL CZO 900
1000	ARO BRIDA TGT/THGT-1000 N	EMB-1000T	ACOPEL F400-1000/180 N	DEF.ASP.TGT/THGT-1000	SIL CZ 1000	SIL CZO 1000
1120	ARO BRIDA TGT/THGT-1120 N	EMB-1120T	ACOPEL F400-1120/180 N	DEF.ASP.TGT/THGT-1120	SIL CZ 1120	SIL CZO 1120
1250	ARO BRIDA TGT/THGT-1250 N	EMB-1250T	ACOPEL F400-1250/180 N	DEF.ASP.TGT/THGT-1250	SIL CZ 1250	SIL CZO 1250



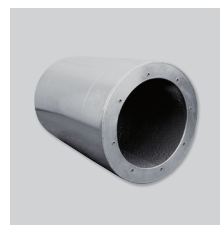
ARO BRIDA

TGT/THGT N
Matching flange.



DEF.ASP.TGT/THGT

Inlet guard.



SIL CZ

Circular silencer.



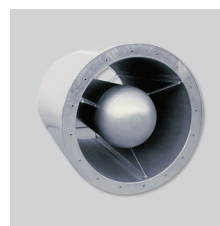
ACOPEL F400 N

Circular flexible
connector.
Certified F400-120.



EMB

Bellmouth with
guard.



SIL CZO

Circular silencer
with pod.

For more information see Mounting accessories.