

## TEDH F400 / TEDV F400

Roof Fan F400-120 (400°C 120 min)  
Backward impeller



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# 1. GENERAL

## 1.1 Disclaimers

This product has been manufactured according to rigorous technical rules of safety in conformity with EC standards. The EC declaration may be downloaded from the Internet site (address given on the last page). Before installing and using this product, carefully read these instructions, which contain important indications for your safety and the user's safety during the installation, commissioning and maintenance of this product. Once the installation is terminated, keep this manual handy nearby the machine for future consultation.

This product must be installed (installation, connections, commissioning, maintenance) and all other interventions performed by a professional applying recognized good practice procedures, and respecting the standards and safety regulations in force. The installation must be made in accordance with the prescriptions indicated in the Electromagnetic Compatibility (EMC) and Low Voltage (LV) Directives.

We advise all people exposed to risks to scrupulously respect the accident prevention standards. The manufacturer may not be held liable for any human injury and/or material damage resulting from the non-respect of the safety instructions or from a change made on the product.

The TEDH F400 and TEDV F400 centrifugal backward roof fans are intended for smoke extraction and ventilation applications in residential buildings, tertiary buildings, industrial buildings and professional kitchens:

- Outdoor installation
- Environmental temperature range: -20°C / +50°C
- Max temperature of extracted air in permanent operation: 120°C
- Relative humidity: max 95% non-condensing
- Atmosphere not potentially explosive
- Low salinity atmosphere, with no corrosive chemical agents

## 1.2 Safety instructions

- Wear suitable PPE (Personal Protective Equipment) before any intervention.
- Before installing the roof fan and its accessories, make sure that the support and the location are sufficiently resistant to withstand the unit's weight and the accessories, if any.
- Do not remove mesh grilles to access the impeller before cutting off the electric power supply with the disconnect switch present on the unit safety.
- If the work is to be done inside the device, cut off the electric power supply with the main circuit breaker and make sure that nobody can accidentally switch it back on.
- Make sure that moving parts are stopped.
- Make sure that the impeller is not accessible from connection tapings (connection duct or mesh protection).

Before starting, check the following points:

- Make sure that the device does not contain any foreign body.
- Make sure that all the components are attached to their original locations.
- Check manually that the impeller does not rub or is not blocked.
- Make sure that the mesh protection are in place.
- Make sure that the ground connection is connected.

## 1.3 Acceptance – Storage

In case of missing items or delivery of non conforming, partially or totally damaged products, the Buyer shall make, in accordance with article 133-3 of the French Commercial Code, reservations in writing on the transporter receipt and confirm them within seventy-two (72) hours by registered letter along with a copy addressed to the seller. Should the Buyer fail to make reservations when he receives the equipment, he will not be allowed to make any future claim against us.

The product must be stored protected from the weather, shocks and dirt due to splashings or splatterings of any kind during transport from the supplier to the end customer, and onto the worksite before installation.

## 1.4 Warranty

The equipment is warranted for twelve (12) months – Parts only – from date of manufacture.

VIM agrees to replace parts or the equipment whose operation is recognised defective by our departments, excluding all damages or penalties, such as operating losses, commercial prejudice, or other intangible or indirect losses.

Our warranty does not cover: (1) defects resulting from an abnormal use or an use not conforming to the recommendations indicated in our manuals; (2) defects observed following normal wear; (3) incidents caused by negligence, lack of monitoring or maintenance; (4) defects due to the inappropriate installation of the devices or unsuitable pre-installation storage conditions.

In any case, VIM may not be held liable for transformed or repaired equipment even partially.

## 2. PRODUCT PRESENTATION

EC Certificate F400-120 No. 1812-CPR-1085, according to European Standard NF EN 12101-3  
Approved F400 120 (400°C 120min)

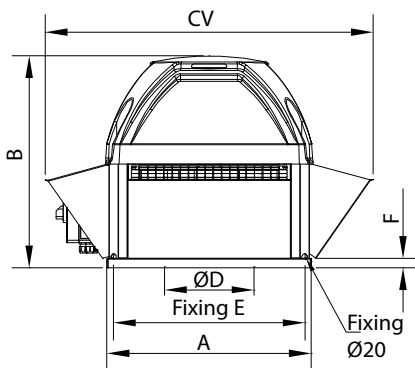
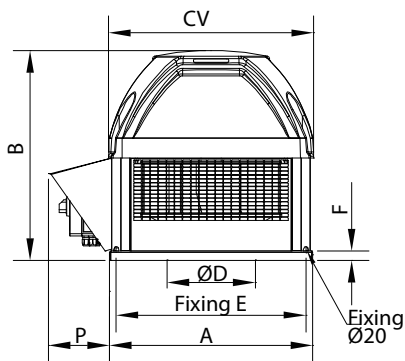
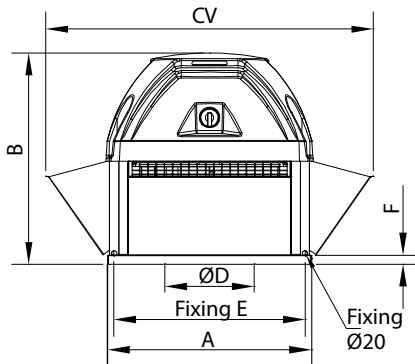
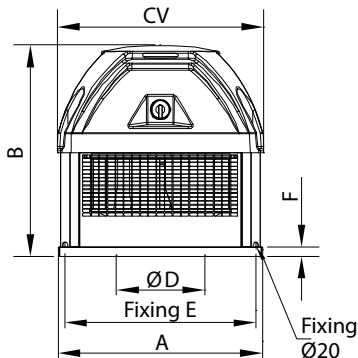
- **TEDH F400 : horizontal discharge.**
- **TEDV F400 : vertical discharge.**
- 15 sizes : 250/315/355/400/450/500/560/630/695/710/760/800B/800H/810/900.
- Flowrates from 200 to 34 000 m<sup>3</sup>/h according to model

### Construction :

- High-performance impeller with backward inclined blades made of galvanised steel
- Convergent/divergent inlet cones
- Plate, arm and electric motor support made of galvanised steel.
- 2 to 4 lift legs according to size.
- Mesh protection made of galvanised steel sheet metal, pre-lacquered grey RAL 7024. Meshes conform to NF EN ISO 12499.
- Arm caps and mesh protection made of sheet metal, pre-lacquered grey RAL 7024.
- Cover cap made of ABS PMMA, pre-lacquered grey RAL 7024.
- Vertical discharge version : addition of 4 deflectors made of sheet metal, pre-lacquered grey RAL 7024, delivered factory mounted (TEDV F400 model) or available as a kit for mounting on the worksite (KRVT).
- Standard electric motor with B5 flange, class F, three-phase version:
  - 1 speed: 2, 4, 6 or 8 poles, 230/400V, 50Hz, IP55, IE1, IE2 or IE3, according to power rating (accepts speed variation by frequency variation).
  - 2 speeds: 4/6, 4/8, 6/8 and 6/12 poles, 400V, 50Hz, IP55.
- Standard electric motor with B14 flange, class F, single-phase version (accepts speed variation by voltage variation):
  - 1 speed, 2, 4 or 6 poles, 230V, 50Hz, IP55.
- 60Hz power supply: F400 120 approved, with the VFTM option factory-mounted and wired: variator 60Hz power supply from the power network and variator output for the 50Hz power supply of the centrifugal backward fan unit's electric motor.

### 3. INSTALLATION

#### 3.1 Dimensions and weight



Model	A*	B*	HC*	VC*	D*	E*	F*	P*	H weight (kg)	V weight (kg)
250	430	446	436	635	214,0	344	30	105	23	24
315	430	483	436	680	256,6	344	30	125	27	29
355	540	570	553	832	289,1	450	30	146	34	37
400	540	609	553	878	325,8	450	30	169	39	43
450	660	684	669	1038	366,5	570	30	190	54	65
500	660	698	669	1055	407,3	570	30	198	69	74
560	800	762	817	1219	455,2	668	30	209	87	95
630	800	805	817	1268	513,1	668	30	234	99	108
695	946	918	957	1291	541,0	830	30	173	128	142
710	946	1096	957	1492	577,9	830	40	273	172	188
760	946	940	957	1319	596,0	830	30	187	152	162
800B	946	1114	957	1512	650,9	830	40	284	264	275
800H	946	1172	957	1580	650,9	830	40	317	273	286
810	946	983	957	1352	646,0	830	40	204	212	220
900	1250	1253	1262	1874,8	732,3	1100	62	315	356	374

\* Dimensions in mm

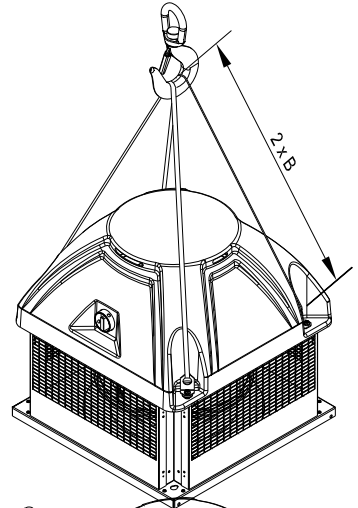
### 3.2 Handling

To avoid injuring people or damaging the equipment, use handling devices in conformity and in good condition.

For the sizes 250 and 315, the roof fan must be lifted with 2 lifting lugs.

For other sizes, the roof fan must be lifted with 4 lifting lugs.

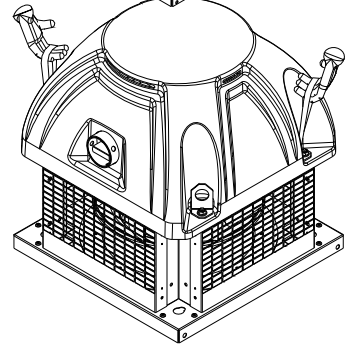
Use slings with lengths greater than or equal to twice roof fan height. The caps must be removed before slinging (see § "Removing the caps"). Make sure that the slings do not rub against the dome. If in doubt, remove the dome to avoid damaging it.



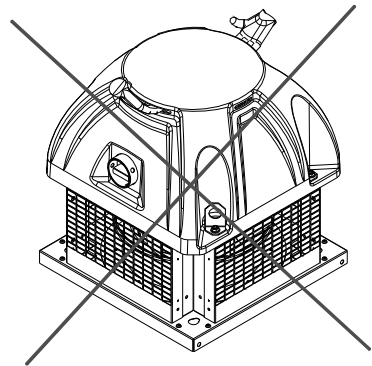
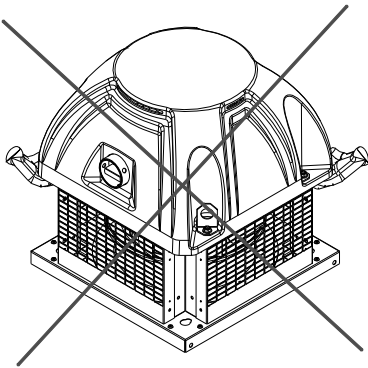
Standardised 400mm long slings are supplied with the products to easily handle the roof fan units.

**WARNING: Do not leave the slings on the product once it is installed.**

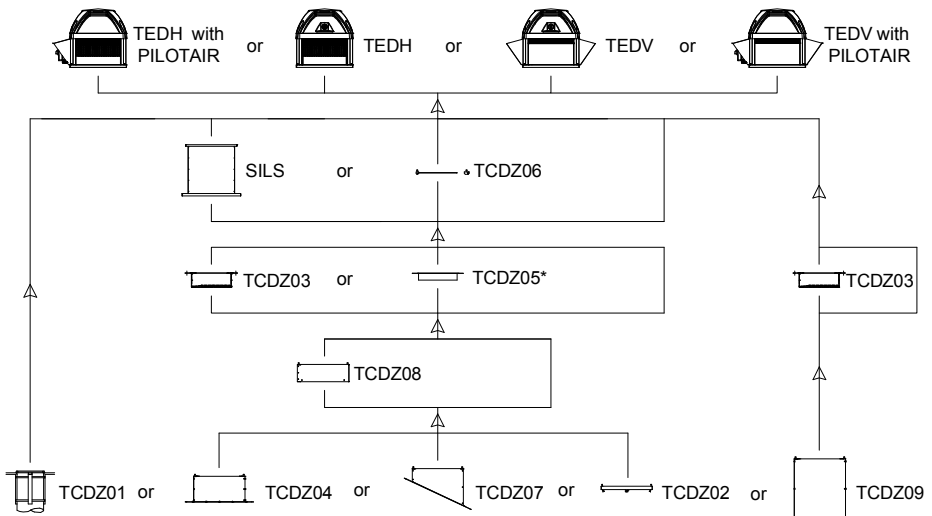
VIM shall be relieved of any responsibility in case these slings are not properly used.



**WARNING: Do not lift the product by holding it by the plastic cover cap.**



### 3.3 Mounting roof fan accessories



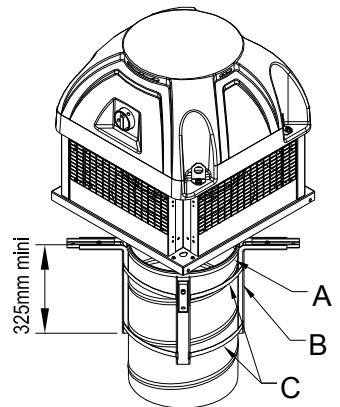
\* Some adaptation plate diameters are not compatible with the following accessories: TCDZ 02, 04, 07 and 08 (see § "Adaptation plate").

#### 3.3.1 Standard support: TCDZ 01

This assembly does not allow using an energy save flap or an adaptation plate. Make sure that the duct can withstand the roof fan weight.

- Install the 4 angle irons B and the 2 collars C on the duct.
- Install the seal A on the duct's free edge.
- Put the roof fan on the duct by centring it correctly.
- Adjust and fix the angle irons B on the assembly.
- Tighten the 2 collars C.

CBF Unit	Min duct dia. (mm)	Max duct dia. (mm)	Weight (kg)
250	200	315	3
315	250	315	3
355	315	355	3
400	355	355	3

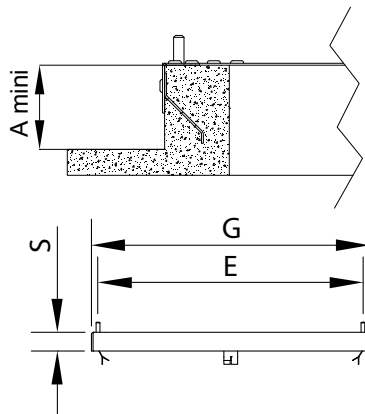


### 3.3.2 Embedding frame: TCDZ 02

Seal the frame in the concrete support and make sure that the sealing pads are embedded in the concrete.

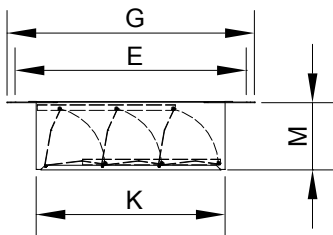
Tower size	Accessory size	A*	E*	G*	S*	Weight (kg)
250/315	1	70	344	368	30	2
355/400	2	70	450	478	30	2,5
450/500	3	70	570	598	40	4
560/630	4	70	668	698	40	4,5
695/810	5	70	830	866	40	6
900	7	100	1100	1150	65	12

\* Dimensions in mm



### 3.3.3 Energy saver flap : TCDZ 03

Mount the energy saver flap inside the inserts under the roof fan. This is incompatible with the use of adaptation plates TCDZ 05 and the standard support TCDZ 01. Before mounting the roof fan, make sure the flaps swing freely. Take into account 50Pa pressure drop.

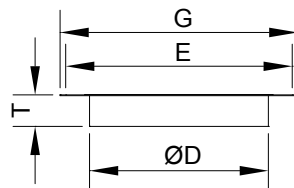


CBF unit size	Accessory size	E*	G*	M*	K*	Weight (kg)
250/315	1	344	368	145	300	3,5
355/400	2	450	478	145	400	5
450/500	3	570	598	170	490	6
560/630	4	668	698	170	605	8
695/810	5	830	866	190	730	11
900	7	1100	1150	190	970	24

\* Dimensions in mm

### 3.3.4 Adaptation plate: TCDZ 05

The adaptation plate allows connecting roof fan to a circular duct. Since it is designed to make the air connection, it is not supposed to withstand roof fan weight. This is incompatible with the use of the energy saver flap TCDZ 03 and the roof adapter with sound attenuator TCDZ 09.



Model	Accessory size	Dimensions *				Weight (kg)
		G	E	T	ØD	
250/315	Size 1	368	344	50	250	1
250/315	Size 1	368	344	50	315**	0,7
250/315	Size 1	368	344	65	355**	0,4
355/400	Size 2	478	450	50	315	1,8
355/400	Size 2	478	450	65	355	1,5
355/400	Size 2	478	450	80	400	1,2
355/400	Size 2	478	450	80	450**	0,8
450/500	Size 3	598	570	80	400	3,6
450/500	Size 3	598	570	80	450	3,1
450/500	Size 3	598	570	80	500	2,5

\* Dimensions in mm

Model	Accessory size	Dimensions *				Weight (kg)
		G	E	T	ØD	
450/500	Size 3	598	570	80	560**	1,7
560/630	Size 4	698	668	80	450	5,1
560/630	Size 4	698	668	80	500	4,5
560/630	Size 4	698	668	80	560	3,7
560/630	Size 4	698	668	90	630	2,7
695/810	Size 5	866	830	80	560	11,8
695/810	Size 5	866	830	90	630	10,3
695/810	Size 5	866	830	120	710	8,3
900	Size 7	1150	1100	120	710	21,8

\* These adaptation plates cannot be mounted in the following accessories: TCDZ02, 04, 07 and 08.



### 3.3.5 Tipping-up kit: TCDZ 06

This kit allows safely swinging the roof fan for cleaning operations. It is placed on the embedding frames TCDZ 02, roof adapters TCDZ 04, TCDZ 07 or TCDZ 09 and can be placed on top of the adaptation plates TCDZ 05 or the energy saver flap TCDZ 03.

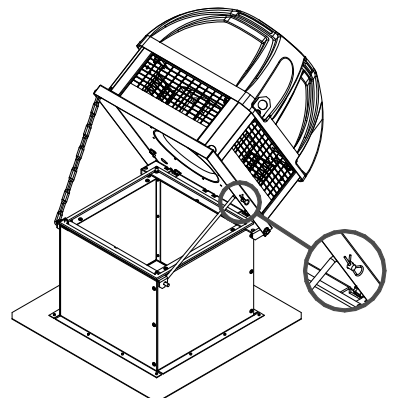
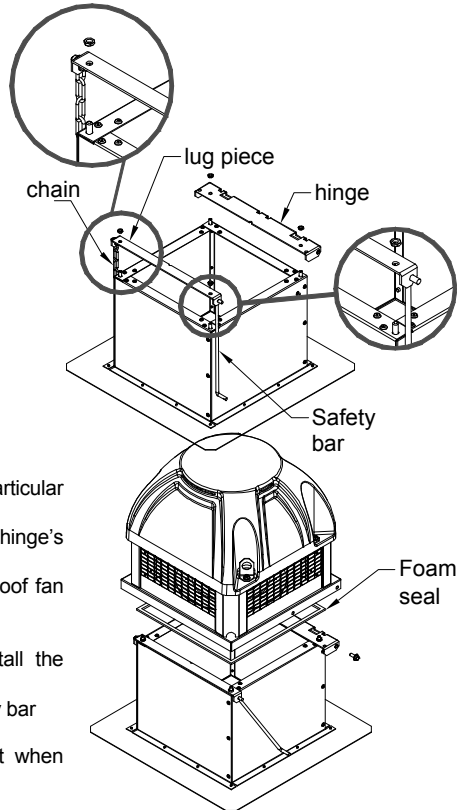
Notes:

- Make sure that there is a sufficient height between the floor and the roof fan plate so that the roof fan does not touch the floor/ground when it swings.
- Make sure that the power cables lengths are sufficiently long to allow swinging the machine without stressing them.

Make sure that the support is correctly attached to the floor and can withstand the shearing stress due to the swinging of the roof fan.

- Position the hinge and fasten it with the 2 flat nuts supplied
- Tie up a chain extremity to the lug piece with the HM18x16 bolt provided
- Position the undrilled side of the safety bar in the lug piece and fit the assembly on the support
- Fasten the lug piece with the 2 flat nuts supplied
- Glue the foam seal on the support
- Position the roof fan on the kit (pay particular attention to the plate's direction)
- Screw the 2 HM8x20 screws in the hinge's crimped nuts
- Tie up the free chain extremity to the roof fan plate with an HM8x16 bolt supplied
- Lift the roof fan and immediately install the safety bar and lock it with the safety pin
- Glue the instruction label near the safety bar

The roof fan must be attached to its support when commissioned.

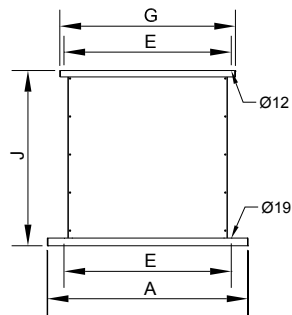


### 3.3.6 Sound attenuators : SILS

Provide for an 80 Pa pressure drop.

CBF unit size	Accessory size	A*	J*	E*	G*	Weight (kg)
250/315	1	430	630	344	368	15
355/400	2	540	630	450	478	23
450/500	3	660	700	570	598	37
560/630	4	800	700	668	698	45
695/810	5	930	700	830	866	65
900	7	1250	800	1100	1150	111

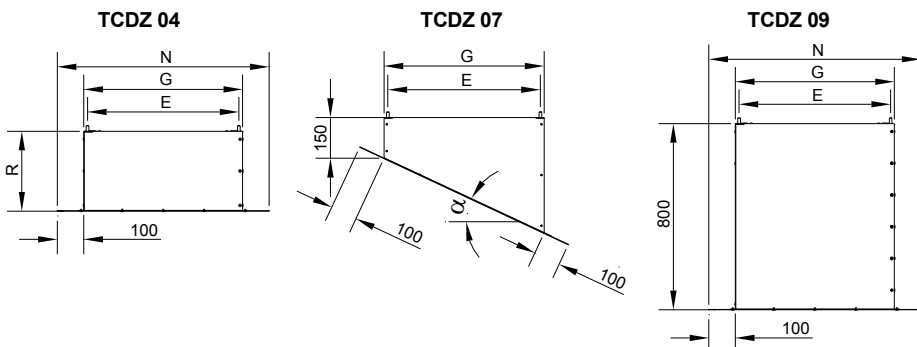
\* Dimensions in mm



### 3.3.7 Horizontal and inclined roof adapters: TCDZ 04, TCDZ 07 or TCDZ 09

It is possible to associate an energy save flap TCDZ 03 or an adaptation plate TCDZ 05 (except for TCDZ 09) placed inside the insert.

For roof fan with acoustic straight insert (TCDZ 09), take into account a 80Pa pressure drop



CBF unit size	Accessory size	E*	G*	N*	R*	Weight (kg) TCDZ 04	Weight (kg) TCDZ 07 30° angle	Weight (kg) TCDZ 09
250/315	1	344	368	568	300/500/700	8,5/12/15,5	8,2	23,5
355/400	2	450	478	678	300/500/700	11/15,5/20	11,2	34
450/500	3	570	598	798	300/500/700	13,5/19/25	14,8	51
560/630	4	668	698	898	300/500/700	20,5/29,5/38	24,2	65,5
695/810	5	830	866	1066	300/500/700	25,5/37/48	32,4	90,5
900	7	1100	1150	1350	300/500/700	53/76/98	77,2	164

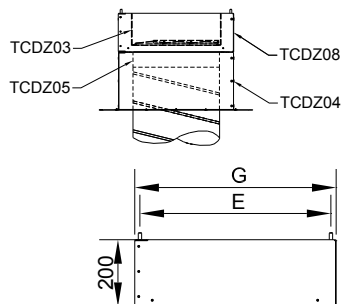
\* Dimensions in mm

### 3.3.8 Roof adapter heightener: TCDZ 08

Allows to rise the roof fan by 200mm, allows to insert an adaptation plate TCDZ 05 between roof fan and the energy saver flap TCDZ 03, or to mount an energy saver flap TCDZ 03 on an embedding frame TCDZ 02.

CBF unit size	Accessory size	E*	G*	Weight (kg)
250/315	1	344	368	4,8
355/400	2	450	478	6,2
450/500	3	570	598	10,5
560/630	4	668	698	12,2
695/810	5	830	866	15
900	7	1100	1150	31,4

\* Dimensions in mm

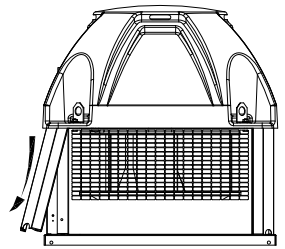


### 3.4 Removing the caps

To remove the caps :

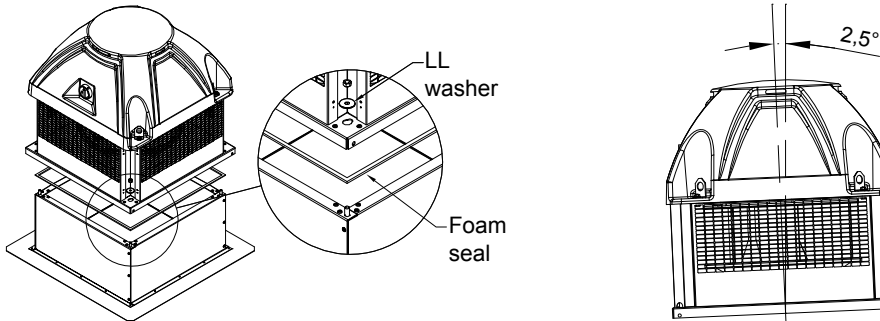
- Raise the cap slightly upward.
- Pull the cap outward.

The plastic top cap does not have to be removed.



### 3.5 Mounting the roof fan

The support surface, which will support the roof fan base, must also be as flat as possible (embedding frame or roof adapter supplied on request). A foam seal, or equivalent (not supplied), is recommended between the support surface and the roof fan base. A maximum tilting of 2.5° between the motor axis and the vertical is tolerated (see figure below).



The roof fan base must completely cover the support to ensure a good tightness.

Make sure that the support is adapted to withstand the combined weight of the machine and its various accessories. Fasten roof fan using the 20mm dia. holes provided for this purpose. It is recommended to use the LL washers. If the fastening screws are not correctly tightened, it can lead to disturbing noises and vibrations. Once the machine is correctly attached, make sure that the impeller rotates freely without rubbing or noise.

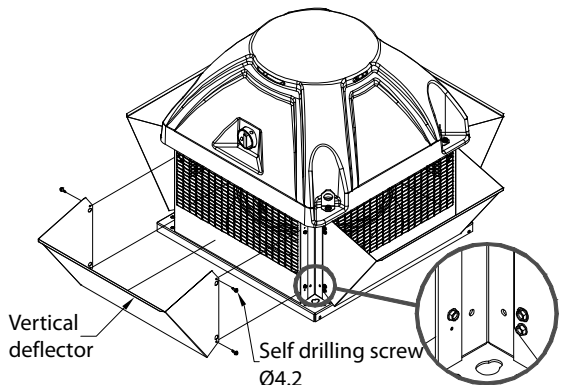
### 3.6 Mounting the roof fan deflectors

#### 3.6.1 Vertical discharge kit KRVT

Allows transforming a horizontal roof fan TEDH F400 into a vertical roof fan TEDV F400. It is recommended to wear protective gloves to handle the various elements.

##### Sizes 250 to 500:

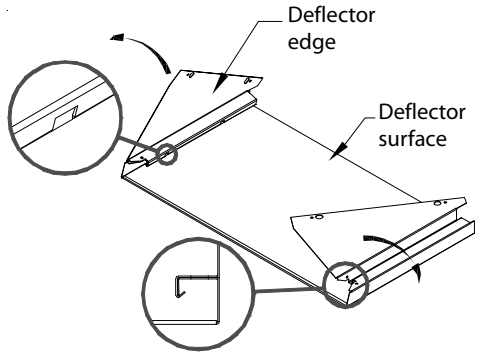
- Remove the caps
- Clip the deflector on the fastening screw heads of the mesh protection
- Fix the deflector with the 4.2mm dia. self-drilling screws supplied (wrench size: 8)



### Sizes 560 to 900 :

Lay the deflector surface on the floor

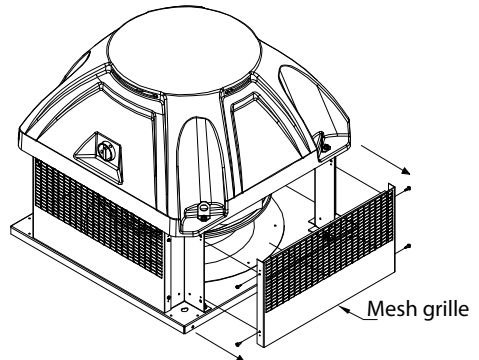
- Insert the edge in the fold by aligning the tenon of the surface with the opening of the edge
- Raise the edge
- Do the same with the other edge
- Remove the caps (see figure, sizes 250-500)
- Clip the deflector to the fastening screw heads of the mesh protection
- Attach the deflector with the 4.2 mm dia. self-drilling screws supplied (wrench size. 8)



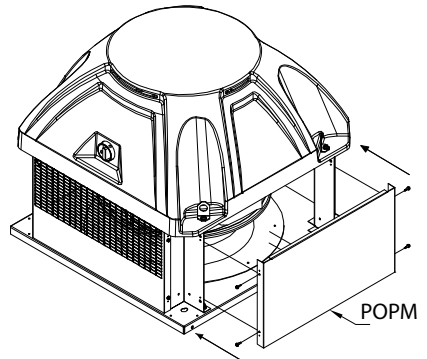
### 3.6.2 A discharge surface blocking plate kit POPM

On TEDH and TEDV F400, allows to prevent the discharge of air and direct splashing on the wall. It can be installed on any surface of the machine without downgrading the performances (limited to one per machine).

- Remove the mesh grille by unscrewing the 4.2mm dia. self-drilling screws (wrench size.8)



- Install the POPM instead



## 4. ELECTRICAL CONNECTION

### 4.1 Preliminary precautions

Electrical connections must be made by a qualified personnel. The mains connection will be made according to the NF C15-100 standard indicating that the electric motor must be protected by a unipolar device having an opening distance of 3mm per contact.

**Do not forget to connect it to ground.**

If used for smoke removal, refer to the NF S 61-932 standard for the installation and connection. Use the high temperature cable type CR1-C1. The cable must be protected against UV radiation. Remind that electrical cables and accessories must be sized according to article 471-1-2 of the NF C 15-100 standard : "the channeling conductors' cross section is determined by an allowable current equal to 1.5 times the electric motor's nominal current". No heat protection device is allowed on the smoke removal circuit.

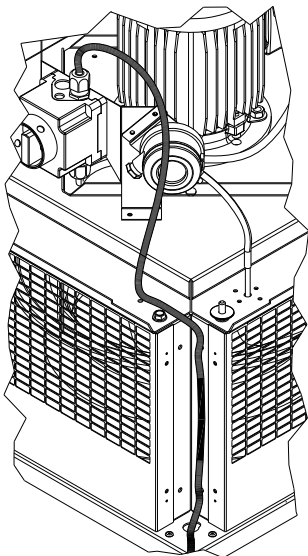
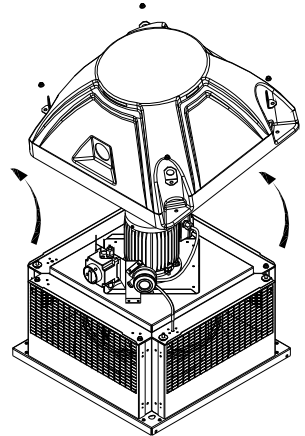
In addition, the cables routing must be protected from mechanical aggressions when the connection is made to the motor's terminal box or to the unit's safety switch.

If used for comfort application, the electric motor must be protected by a suitable magnetothermal protection device.

**WARNING: before performing any operations, make sure that there is no power.**

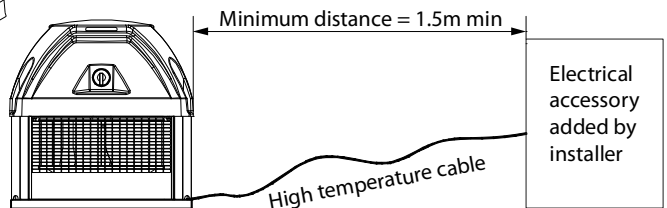
First:

- Remove the top cap by unscrewing the 4 holding screws and lifting slightly the top cap side opposite the switch to let it slip out.
- Remove the caps.



Routing of the roof fan's power cable for versions without proximity switch INTZ or with INTZ:

- Pass the cable along the machine's foot so that it is concealed by the roof fan's cap. The cable tray must be protected from mechanical attacks.
- Leave a loop at the bottom of the foot to pass the cable through the cap's hole.
- **WARNING:** if mounting with a tipping up kit TCDZ06, leave an additional loop to avoid exerting stresses on the cable when the machine is swung.



H or V unit

## 4.2 Technical data

Model	Nom. P. (kW)	Nom. I. (A) 230V	Id/In	INTZ* Comfort 230V	INTZ* Smoke Extract 230V
<b>1 speed single-phase 2-pole motor</b>					
250	0,37	3,00	2,7	INTZ 1V15	
<b>1 speed single-phase 4-pole motor</b>					
250	0,25	2,50	2,0	INTZ 1V15	
315	0,25	2,50	2,0	INTZ 1V15	
355	0,25	2,50	2,0	INTZ 1V15	
400	0,55	3,90	3,20	INTZ 1V15	
<b>1 speed single-phase 6-pole motor</b>					
315	0,18	1,60	1,8	INTZ 1V15	
355	0,18	1,60	1,8	INTZ 1V15	
400	0,25	2,30	2,0	INTZ 1V15	
450	0,25	2,30	2,0	INTZ 1V15	
500	0,37	3,00	2,0	INTZ 1V15	

Model	Efficiency class	Nom. P. (kW)	Nom. I. (A) 230V	I. Nom (A) 400V	Id/In	INTZ* Comfort 230V	INTZ* Smoke Extract 230V	INTZ* Comfort 400V	INTZ* Smoke Extract 400V
<b>1 speed three-phase 2-pole motor</b>									
250	IE1	0,37	1,62	0,929	4,3	INTZ 1V15		INTZ 1V15	
250	IE2	0,37	1,52	0,875	5,6	INTZ 1V15		INTZ 1V15	
<b>1 speed three-phase 4-pole motor</b>									
250	IE1	0,25	1,4	0,81	3,5	INTZ 1V15		INTZ 1V15	
250	IE2	0,25	1,25	0,72	4,0	INTZ 1V15		INTZ 1V15	
315	IE1	0,25	1,4	0,81	3,5	INTZ 1V15		INTZ 1V15	
315	IE2	0,25	1,25	0,72	4,0	INTZ 1V15		INTZ 1V15	
355	IE1	0,25	1,4	0,81	3,5	INTZ 1V15		INTZ 1V15	
355	IE2	0,25	1,25	0,72	4,0	INTZ 1V15		INTZ 1V15	
400	IE1	0,55	2,48	1,42	4,7	INTZ 1V15		INTZ 1V15	
400	IE2	0,55	2,21	1,27	5,8	INTZ 1V15		INTZ 1V15	
450	IE2	1,1	4,17	2,40	6,5	INTZ 1V15		INTZ 1V15	
500	IE2	1,5	5,67	3,26	6,3	INTZ 1V15		INTZ 1V15	
560	IE2	2,2	8,07	4,64	6,6	INTZ 1V15		INTZ 1V15	
<b>1 speed three-phase 6-pole motor</b>									
315	IE1	0,18	1,28	0,74	3,3	INTZ 1V15		INTZ 1V15	
315	IE2	0,18	1,26	0,72	3,2	INTZ 1V15		INTZ 1V15	
355	IE1	0,18	1,28	0,74	3,3	INTZ 1V15		INTZ 1V15	
355	IE2	0,18	1,26	0,72	3,2	INTZ 1V15		INTZ 1V15	
400	IE1	0,37	1,97	1,13	3,6	INTZ 1V15		INTZ 1V15	
400	IE2	0,37	1,83	1,05	3,9	INTZ 1V15		INTZ 1V15	
450	IE1	0,37	1,97	1,13	3,6	INTZ 1V15		INTZ 1V15	
450	IE2	0,37	1,83	1,05	3,9	INTZ 1V15		INTZ 1V15	
500	IE1	0,55	2,82	1,62	4,5	INTZ 1V15		INTZ 1V15	
500	IE2	0,55	2,59	1,49	4,1	INTZ 1V15		INTZ 1V15	
560	IE2	0,75	3,39	1,95	4,5	INTZ 1V15		INTZ 1V15	
630	IE2	1,1	4,83	2,78	4,7	INTZ 1V15		INTZ 1V15	
695	IE2	2,2	9,22	5,30	5,0	INTZ 1V15		INTZ 1V15	
710	IE2	3	12,70	7,30	5,7	INTZ 1V15	INTZ 1V22	INTZ 1V15	
760	IE2	3	12,70	7,30	5,7	INTZ 1V15	INTZ 1V22	INTZ 1V15	
810	IE2	5,5	22,30	12,80	6,4	INTZ 1V29	INTZ 1V43	INTZ 1V15	INTZ 1V22
800B	IE2	4	16,50	9,46	6,0	INTZ 1V22	INTZ 1V29	INTZ 1V15	
800H	IE2	5,5	22,30	12,80	6,4	INTZ 1V29	INTZ 1V43	INTZ 1V15	INTZ 1V22
900	IE2	7,5	26,10	15,00	5,8	INTZ 1V29	INTZ 1V43	INTZ 1V22	INTZ 1V29

\*INTZ : Safety switch. As standard, the roof fans are equipped with INTZ for smoke extraction 400V.

Model	Efficiency class	Nom. P. (kW)	Nom. I. (A) 230V	Nom. I. (A) 400V	Id/In	INTZ* Comfort 230V	INTZ* Smoke Extract 230V	INTZ* Comfort 400V	INTZ* Smoke Extract 400V
<b>1 speed three-phase 8-pole motor</b>									
450	IE1	0,18	1,50	0,86	2,8	INTZ 1V15		INTZ 1V15	
450	IE2	0,18	1,26	0,73	3,1	INTZ 1V15		INTZ 1V15	
500	IE1	0,18	1,50	0,86	2,8	INTZ 1V15		INTZ 1V15	
500	IE2	0,18	1,26	0,73	3,1	INTZ 1V15		INTZ 1V15	
560	IE1	0,37	2,53	1,45	3,0	INTZ 1V15		INTZ 1V15	
560	IE2	0,37	2,42	1,39	3,5	INTZ 1V15		INTZ 1V15	
630	IE1	0,55	3,49	2,01	3,3	INTZ 1V15		INTZ 1V15	
630	IE2	0,55	3,27	1,88	3,5	INTZ 1V15		INTZ 1V15	
695	IE1	1,1	5,88	3,38	3,4	INTZ 1V15		INTZ 1V15	
695	IE2	1,1	5,93	3,41	4,6	INTZ 1V15		INTZ 1V15	
710	IE1	2,2	9,30	5,35	6,1	INTZ 1V15		INTZ 1V15	
710	IE2	2,2	9,46	5,44	5,5	INTZ 1V15		INTZ 1V15	
760	IE1	1,5	7,32	4,21	4,2	INTZ 1V15		INTZ 1V15	
760	IE2	1,5	7,11	4,09	4,7	INTZ 1V15		INTZ 1V15	
810	IE1	3	12,50	7,21	6,1	INTZ 1V15	INTZ 1V22	INTZ 1V15	
810	IE2	3	12,60	7,23	5,5	INTZ 1V15	INTZ 1V22	INTZ 1V15	
800B	IE1	2,2	9,30	5,35	6,1	INTZ 1V15		INTZ 1V15	
800B	IE2	2,2	9,46	5,44	5,5	INTZ 1V15		INTZ 1V15	
800H	IE1	2,2	9,30	5,35	6,1	INTZ 1V15		INTZ 1V15	
800H	IE2	2,2	9,46	5,44	5,5	INTZ 1V15		INTZ 1V15	
900	IE1	4	17,10	9,84	4,7	INTZ 1V22	INTZ 1V29	INTZ 1V15	
900	IE2	4	16,40	9,43	4,7	INTZ 1V22	INTZ 1V29	INTZ 1V15	

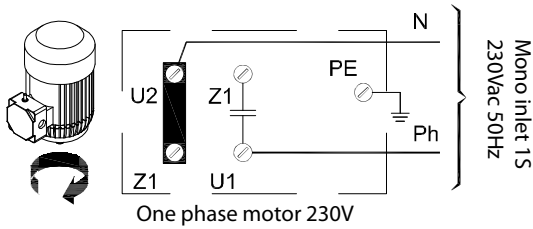
\* INTZ : Safety switch. As standard, the roof fans are equipped with INTZ for smoke extraction 400V.

Model	Nom. P. (kW)	Nom. I. (A) 400V GV	Nom. I. (A) 400V PV	Id/In	INTZ* Comfort 400V	INTZ* Smoke Extract 400V
<b>2 speed three-phase 4/8-pole motor - Dahlander winding</b>						
355	0,60/0,15	1,82	0,81	5,5/3,1	INTZ 2V15	
400	0,60/0,15	1,82	0,81	5,5/3,1	INTZ 2V15	
450	1,20/0,30	2,92	1,29	5,5/3,1	INTZ 2V15	
500	1,60/0,40	3,80	1,72	5,7/3,2	INTZ 2V15	
560	2,20/0,55	4,84	2,00	6,9/3,5	INTZ 2V15	
<b>2 speed three-phase 6/12-pole motor - Dahlander winding</b>						
630	1,10/0,22	4,39	1,50	5,5/2,6	INTZ 2V15	
695	4,00/1,00	12,60	5,13	6,0/2,5	INTZ 2V15	INTZ 2V22
710	4,00/1,00	12,60	5,13	6,0/2,5	INTZ 2V15	INTZ 2V22
760	4,00/1,00	12,60	5,13	6,0/2,5	INTZ 2V15	INTZ 2V22
810	5,50/1,10	14,00	6,00	8,0/3,4	INTZ 2V15	INTZ 2V22
800B	4,00/1,00	12,60	5,13	6,0/2,5	INTZ 2V15	INTZ 2V22
800H	5,50/1,10	14,00	6,00	8,0/3,4	INTZ 2V15	INTZ 2V22
900	7,50/2,00	18,70	8,31	7,7/3,1	INTZ 2V22	INTZ 2V29
<b>2 speed three-phase 4/6-pole motor - Dahlander winding</b>						
355	0,30/0,10	0,99	0,72	5,0/3,5	INTZ 2V15	
400	0,55/0,20	1,75	1,05	5,0/3,7	INTZ 2V15	
450	1,10/0,30	2,92	1,51	5,4/5,1	INTZ 2V15	
500	1,50/0,37	3,65	1,62	5,5/4,5	INTZ 2V15	
560	2,20/0,70	4,91	2,48	6,0/5,5	INTZ 2V15	
<b>2 speed three-phase 6/8-pole motor - Dahlander winding</b>						
450	0,37/0,20	1,51	1,06	3,4/2,7	INTZ 2V15	
500	0,55/0,14	2,08	1,15	4,2/2,9	INTZ 2V15	
560	0,75/0,37	2,68	1,67	4,0/2,8	INTZ 2V15	
630	1,10/0,55	3,59	2,52	5,1/4,0	INTZ 2V15	
695	3,00/0,75	7,96	3,75	7,4/4	INTZ 2V15	
710	3,00/0,75	7,96	3,75	7,4/4	INTZ 2V15	
760	4,00/1,10	11,30	4,84	6,6/4,6	INTZ 2V15	INTZ 2V22
810	5,50/2,75	12,20	8,60	5,8/5,0	INTZ 2V15	INTZ 2V22
800B	4,00/1,10	11,30	4,84	6,6/4,6	INTZ 2V15	INTZ 2V22
800H	5,50/2,75	12,20	8,60	5,8/5,0	INTZ 2V15	INTZ 2V22

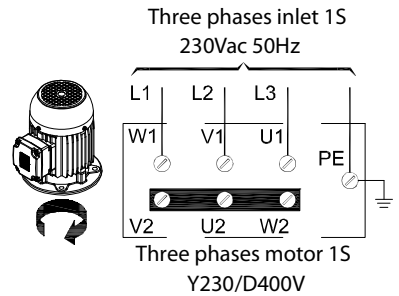
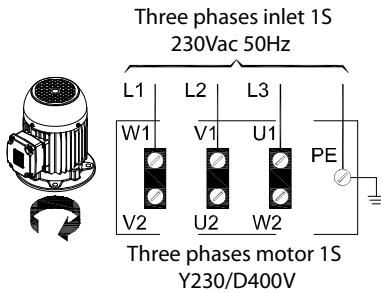
\*INTZ : Safety switch. As standard, the roof fans are equipped with INTZ for smoke extraction 400V.

### 4.3 Wiring of version without INTZ safety isolation switch

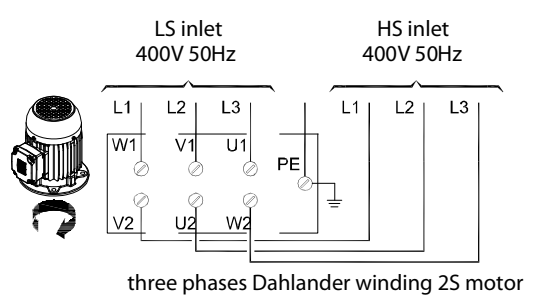
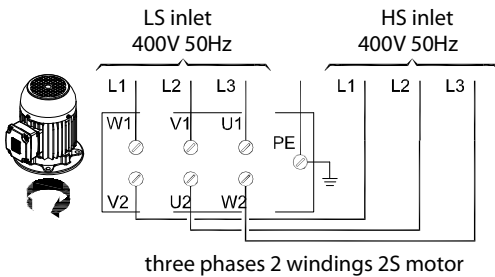
#### 4.3.1 Single-phase motors



#### 4.3.2 1 speed three-phases motors



#### 4.3.3 2 speed three-phases motors



Note : Please respect the state of the art for Dahlander motor connection to avoid motor destruction

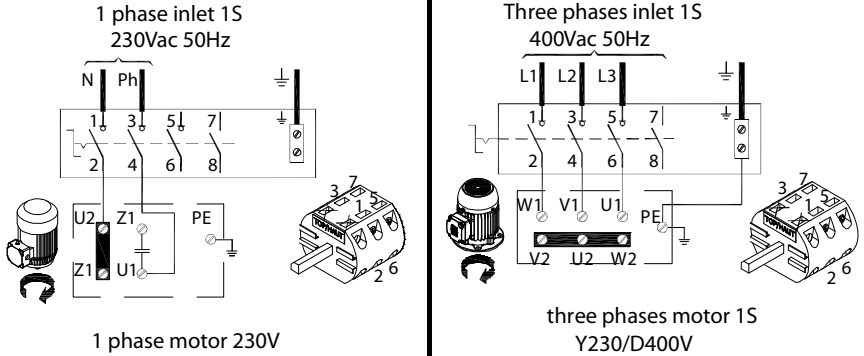


## 4.4 Wiring of version with INTZ safety isolation switch

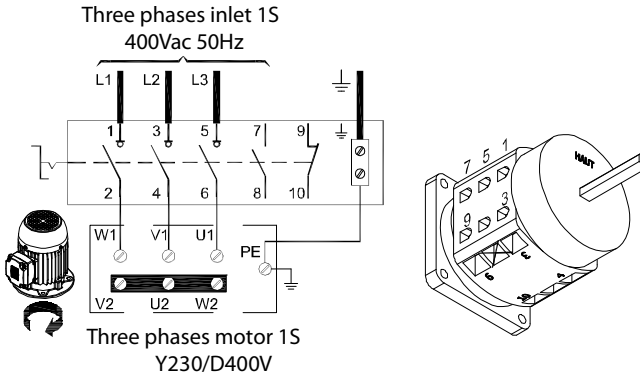
### Unit with safety switch delivered factory wired and mounted

Note: the safety switch is sized to be used in smoke removal for a 400V three-phase or 230V single-phase network connection.

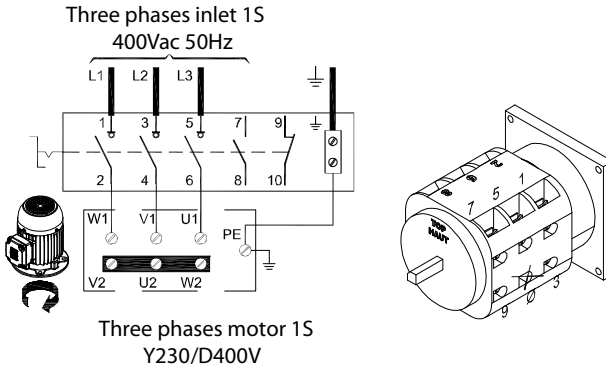
#### 4.4.1 Wiring of TEDH/TEDV F400 – 1 speed with 1V15



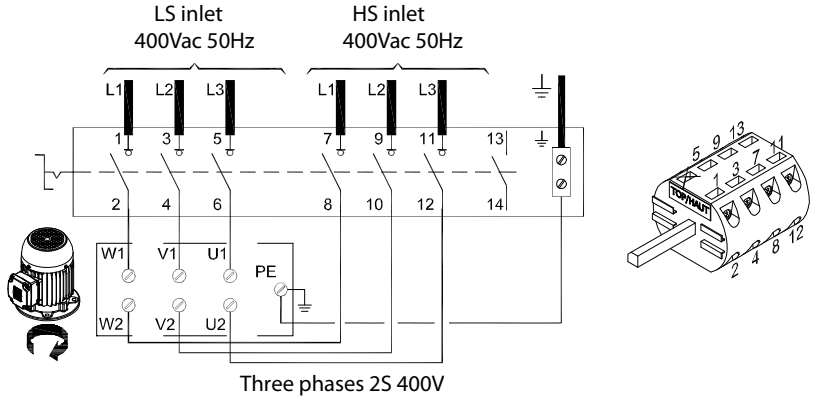
#### 4.4.2 Wiring of TEDH/TEDV F400 – 1 speed with 1V22 or 1V29



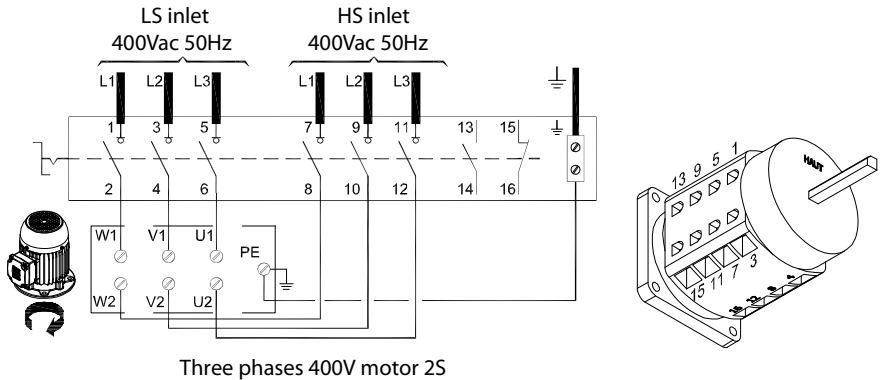
#### 4.4.3 Wiring of TEDH/TEDV F400 – 1 speed with 1V43



#### 4.4.4 Wiring of TEDH/TEDV F400 – 2 speeds with 2V15



#### 4.4.5 Wiring of TEDH/TEDV F400 – 2 speeds with 2V22 or 2V29



#### 4.5 Wiring of the PILOTAIR® control panel (used in France)

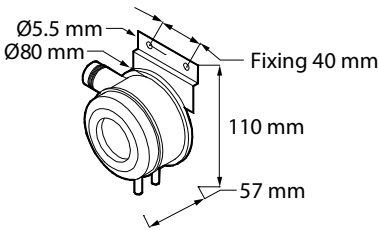
Refer to the PILOTAIR® relaying box's manual delivered with the roof fan.

#### 4.6 Wiring of the frequency inverter

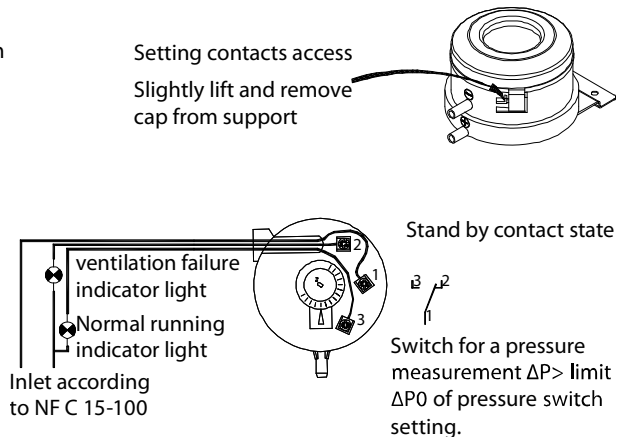
Refer to the frequency variator's manual delivered with the roof fan.

## 4.7 Electrical connection of the pressure switch

A pressure switch can be supplied as an option with the roof fan or delivered mounted and air connected (version INTZ+BDEZ). In this case, it is placed under the plastic top cap. Set a high enough pressure value to avoid any accidental triggering of the pressure relief switch. A timer (TDGZ) is available as an option to timeout the ventilation defect.



An application example



Cut off power	Ohmic load (cos j=1)		Inductive load (cos j=0.6)		Mechanical service life	Cable gland	Degree of protection	Pressure fitting	Weight
	Under 250V <sub>ac</sub>	Under 30V <sub>dc</sub>	Under 250V <sub>ac</sub>	Under 30V <sub>dc</sub>					
	5A	4A	0.8A	0.7A					
>10 million cycles	1x Pg 11	IP54 w/ cover	6.2 mm dia.	Approx. 100g					

## 5. COMMISSIONING

Before starting fan, make sure that the electric motor and impeller assembly rotate freely and that there is no object likely to be ejected by the turbine. The protection housings must be fastened to roof fan to prevent any accidental contact with rotating parts.

The machine should be attached to its support before power is applied.

**Switch on just an instant to check the turbine's rotating direction.**

**WARNING: The impeller rotating direction must correspond to each speed in the direction indicated by the arrow on the product. A centrifugal backward fan unit with an impeller that does not rotate in the right direction still creates a flowrate and a low pressure in the duct. An incorrect rotating direction can lead to an abnormal overheating of the motor, resulting in its destruction and cancelling our manufacturer's warranty.**

If the rotating direction is incorrect, **cut off the electrical power supply**, make sure no power is present, and then reverse the two power supply phases at the level of the motor's terminal box for the three-phase motors, or make sure that the mains network connection conforms to the schematic diagram of §4.2.1 for the single-phase motors.

While running, make sure that the motor's absorbed current is not more than 10% above the name plate indicated current .

Once the roof fan is installed and the tests successfully completed, present the main points of the operation and maintenance manual to the user, and explain:

- How to start up and shut down.
- How to change the operating modes.

Then hand over to the user the technical manual of the roof fan and the mounted accessories (control panel, etc.) so that he can keep it handy to consult it at any time.

## 6. MAINTENANCE

Maintenance periodicity depends on the operating conditions. If the air is dirty (poor quality), the interval between two inspections should be more frequent.

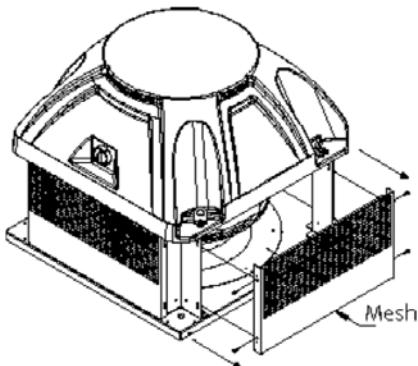
**WARNING: Before any maintenance operation, cut off the electrical power supply upstream from roof fan and make sure that it cannot be switched on during the intervention (consignment by locking).**

The electric motors used do not require any special maintenance. They are equipped with sealed and greased-for-life bearings.

### 6.1 Maintenance periodicity

Unit/Item	At commissioning	Every 6 months minimum
<b>Turbine</b>	Check the rotating direction ; make sure that the moving and fixed parts do not rub together	Clean, if necessary ; make sure that the moving and fixed parts do not rub together
<b>Electric motor</b>	Check the connections, in particular, the ground connection	Retighten the lugs, if necessary ; check the nominal current
<b>Power switch</b>	Check the connections, in particular, the ground connection	Retighten the lugs, if necessary
<b>Pressure relief switch</b>	Check the electrical/aeraulic connections	Check the operation
<b>Control panel</b>	Make sure that there are no defects ; check the connections, in particular, the ground connection	Make sure that there are no defects ; retighten the lugs, if necessary
<b>Plastic dome</b>	Make sure that the cooling holes are not obstructed	Check the general condition ; make sure that the cooling holes are not obstructed
<b>Protection gratings</b>	Make sure that they are present	Clean, if necessary
<b>Duct networks</b>	Make sure that there are no leaks	Clean, if necessary
<b>Attachment</b>	Check the mechanical tightness	Retighten the screws, if necessary

### 6.2 Removing the mesh grille to access the impeller



Remove the mesh grille by unscrewing the 4.2 mm dia. self-drilling screws (wrench no. 8).

## **7. WASTE MANAGEMENT**

### **7.1 Treatment of Packagings and non dangerous wastes**

The packagings (unconsigned pallets, cartons, films, wooden boxes) and other non dangerous wastes must be made reusable by an approved service provider. It is strictly prohibited to burn, bury or dump them in nature.

### **7.2 Treatment of a Professional WEEE**

This product must not be dumped or treated with household refuse, but must be deposited in an appropriate collection point for waste electrical and electronic equipment (WEEE).

## 8. APPENDICES

### Spare parts list

Model	VIM code	Designation
TEDH/V F400 250 2PM	0000506157	Capacitor 12µF/400V for single-phase electric motor
TEDH/V F400 250 4PM	0000506154	Capacitor 30µF/400V for single-phase electric motor
TEDH/V F400 315 4PM	0000506154	Capacitor 30µF/400V for single-phase electric motor
TEDH/V F400 315 6PM	0000506153	Capacitor 20µF/400V for single-phase electric motor
TEDH/V F400 355 4PM	0000506154	Capacitor 30µF/400V for single-phase electric motor
TEDH/V F400 355 6PM	0000506153	Capacitor 20µF/400V for single-phase electric motor
TEDH/V F400 400 4PM	0000506153	Capacitor 20µF/400V for single-phase electric motor
TEDH/V F400 400 6PM	0000506154	Capacitor 30µF/400V for single-phase electric motor
TEDH-V F400 250 & 315	071311	Top cap TED 250-315 RAL 7024 ABS-PMMA
TEDH/V F400 355 & 400	071312	Top cap TED 355-400 RAL 7024 ABS-PMMA
TEDH-V F400 450 & 500	071313	Top cap TED 450-500 RAL 7024 ABS-PMMA
TEDH/V F400 560 & 630	071314	Top cap TED 560-630 RAL 7024 ABS-PMMA
TEDH/V F400 695 à 810	071315	Top cap TED 695-810 RAL 7024 ABS-PMMA
TEDH/V F400 900	071316	Top cap TED 900 RAL 7024 ABS-PMMA
TEDH/V F400 250	741500	KRVT 250 vertical discharge kit
TEDH/V F400 315	741501	KRVT 315 vertical discharge kit
TEDH/V F400 355	741502	KRVT 355 vertical discharge kit
TEDH/V F400 400	741503	KRVT 400 vertical discharge kit
TEDH/V F400 450	741504	KRVT 450 vertical discharge kit
TEDH/V F400 500	741505	KRVT 500 vertical discharge kit
TEDH/V F400 560	741506	KRVT 560 vertical discharge kit
TEDH/V F400 630	741507	KRVT 630 vertical discharge kit
TEDH/V F400 695	741508	KRVT 695 vertical discharge kit
TEDH/V F400 710	741509	KRVT 710 vertical discharge kit
TEDH/V F400 760	741510	KRVT 760 vertical discharge kit
TEDH/V F400 800B	741511	KRVT 800B vertical discharge kit
TEDH/V F400 800H	741512	KRVT 800H vertical discharge kit
TEDH/V F400 810	741513	KRVT 810 vertical discharge kit
TEDH/V F400 900	741514	KRVT 900 vertical discharge kit
TEDH-V 250 2PM	690009	MTTE TEDH-V 250 2PM 0.37kW Motor + Impeller
TEDH-V 250 4PM	690019	MTTE TEDH-V 250 4PM 0.25kW Motor + Impeller
TEDH-V 250 2PT	690129	MTTE TEDH-V 250 2PT 0.37kW IE1 Motor + Impeller
TEDH-V 250 4PT	690139	MTTE TEDH-V 250 4PT 0.25kW IE1 Motor + Impeller
TEDH-V 250 2PT	690339	MTTE TEDH-V 250 2PT 0.37kW IE2 Motor + Impeller
TEDH-V 250 4PT	690349	MTTE TEDH-V 250 4PT 0.25kW IE2 Motor + Impeller
TEDH-V 315 4PM	690029	MTTE TEDH-V 315 4PM 0.25kW Motor + Impeller
TEDH-V 315 6PM	690079	MTTE TEDH-V 315 6PM 0.18kW Motor + Impeller
TEDH-V 315 4PT	690149	MTTE TEDH-V 315 4PT 0.25kW IE1 Motor + Impeller
TEDH-V 315 6PT	690179	MTTE TEDH-V 315 6PT 0.18kW IE1 Motor + Impeller
TEDH-V 315 4PT	690359	MTTE TEDH-V 315 4PT 0.25kW IE2 Motor + Impeller
TEDH-V 315 6PT	690419	MTTE TEDH-V 315 6PT 0.18kW IE2 Motor + Impeller
TEDH-V 355 4PM	690039	MTTE TEDH-V 355 4PM 0.25kW Motor + Impeller
TEDH-V 355 6PM	690089	MTTE TEDH-V 355 6PM 0.18kW Motor + Impeller
TEDH-V 355 4PT	690159	MTTE TEDH-V 355 4PT 0.25kW IE1 Motor + Impeller
TEDH-V 355 6PT	690189	MTTE TEDH-V 355 6PT 0.18kW IE1 Motor + Impeller
TEDH-V 355 4PT	690369	MTTE TEDH-V 355 4PT 0.25kW IE2 Motor + Impeller
TEDH-V 355 6PT	690429	MTTE TEDH-V 355 6PT 0.18kW IE2 Motor + Impeller
TEDH-V 355 4/6PT	690669	MTTE TEDH-V 355 4/6PT 0.30/0.10kW Motor + Impeller
TEDH-V 355 4/8PT	690719	MTTE TEDH-V 355 4/8PT 0.60/0.15kW Motor + Impeller
TEDH-V 400 4PM	690049	MTTE TEDH-V 400 4PM 0.55kW Motor + Impeller
TEDH-V 400 6PM	690099	MTTE TEDH-V 400 6PM 0.25kW Motor + Impeller
TEDH-V 400 4PT	690169	MTTE TEDH-V 400 4PT 0.55kW IE1 Motor + Impeller
TEDH-V 400 6PT	690199	MTTE TEDH-V 400 6PT 0.37kW IE1 Motor + Impeller
TEDH-V 400 4PT	690379	MTTE TEDH-V 400 4PT 0.55kW IE2 Motor + Impeller
TEDH-V 400 6PT	690439	MTTE TEDH-V 400 6PT 0.37kW IE2 Motor + Impeller
TEDH-V 400 4/6PT	690679	MTTE TEDH-V 400 4/6PT 0.55/0.20kW Motor + Impeller

Model	VIM code	Designation
TEDH-V 450 4PM	690059	MTTE TEDH-V 450 4PM 1.1kW Motor + Impeller
TEDH-V 450 6PM	690109	MTTE TEDH-V 450 6PM 0.25kW Motor + Impeller
TEDH-V 450 6PT	690209	MTTE TEDH-V 450 6PT 0.37kW IE1 Motor + Impeller
TEDH-V 450 8PT	690229	MTTE TEDH-V 450 8PT 0.18kW IE1 Motor + Impeller
TEDH-V 450 4PT	690389	MTTE TEDH-V 450 4PT 1.1kW IE2 Motor + Impeller
TEDH-V 450 6PT	690449	MTTE TEDH-V 450 6PT 0.37kW IE2 Motor + Impeller
TEDH-V 450 8PT	690559	MTTE TEDH-V 450 8PT 0.18kW IE2 Motor + Impeller
TEDH-V 450 4/6PT	690689	MTTE TEDH-V 450 4/6PT 1.1/0.30kW Motor + Impeller
TEDH-V 450 4/8PT	690739	MTTE TEDH-V 450 4/8PT 1.2/0.30kW Motor + Impeller
TEDH-V 450 6/8PT	690769	MTTE TEDH-V 450 6/8PT 0.37/0.20kW Motor + Impeller
TEDH-V 500 4PM	690069	MTTE TEDH-V 500 4PM 1.5kW Motor + Impeller
TEDH-V 500 6PM	690119	MTTE TEDH-V 500 6PM 0.37kW Motor + Impeller
TEDH-V 500 6PT	690219	MTTE TEDH-V 500 6PT 0.55kW IE1 Motor + Impeller
TEDH-V 500 8PT	690239	MTTE TEDH-V 500 8PT 0.18kW IE1 Motor + Impeller
TEDH-V 500 4PT	690399	MTTE TEDH-V 500 4PT 1.5kW IE2 Motor + Impeller
TEDH-V 500 6PT	690459	MTTE TEDH-V 500 6PT 0.55kW IE2 Motor + Impeller
TEDH-V 500 8PT	690569	MTTE TEDH-V 500 8PT 0.18kW IE2 Motor + Impeller
TEDH-V 500 4/6PT	690699	MTTE TEDH-V 500 4/6PT 1.5/0.37kW Motor + Impeller
TEDH-V 500 4/8PT	690749	MTTE TEDH-V 500 4/8PT 1.6/0.40kW Motor + Impeller
TEDH-V 500 6/8PT	690779	MTTE TEDH-V 500 6/8PT 0.55/0.14kW Motor + Impeller
TEDH-V 560 8PT	690249	MTTE TEDH-V 560 8PT 0.37kW IE1 Motor + Impeller
TEDH-V 560 4PT	690409	MTTE TEDH-V 560 4PT 2.2kW IE2 Motor + Impeller
TEDH-V 560 6PT	690469	MTTE TEDH-V 560 6PT 0.75kW IE2 Motor + Impeller
TEDH-V 560 8PT	690579	MTTE TEDH-V 560 8PT 0.37kW IE2 Motor + Impeller
TEDH-V 560 4/6PT	690709	MTTE TEDH-V 560 4/6PT 2.2/0.70kW Motor + Impeller
TEDH-V 560 4/8PT	690759	MTTE TEDH-V 560 4/8PT 2.2/0.55kW Motor + Impeller
TEDH-V 560 6/8PT	690789	MTTE TEDH-V 560 6/8PT 0.75/0.37kW Motor + Impeller
TEDH-V 630 8PT	690259	MTTE TEDH-V 630 8PT 0.55kW IE1 Motor + Impeller
TEDH-V 630 6PT	690479	MTTE TEDH-V 630 6PT 1.1kW IE2 Motor + Impeller
TEDH-V 630 8PT	690589	MTTE TEDH-V 630 8PT 0.55kW IE2 Motor + Impeller
TEDH-V 630 6/8PT	690799	MTTE TEDH-V 630 6/8PT 1.1/0.55kW Motor + Impeller
TEDH-V 630 6/12PT	690879	MTTE TEDH-V 630 6/12PT 1.1/0.22kW Motor + Impeller
TEDH-V 695 8PT	690269	MTTE TEDH-V 695 8PT 1.1kW IE1 Motor + Impeller
TEDH-V 695 6PT	690489	MTTE TEDH-V 695 6PT 2.2kW IE2 Motor + Impeller
TEDH-V 695 8PT	690599	MTTE TEDH-V 695 8PT 1.1kW IE2 Motor + Impeller
TEDH-V 695 6/8PT	690809	MTTE TEDH-V 695 6/8PT 3/0.75kW Motor + Impeller
TEDH-V 695 6/12PT	690889	MTTE TEDH-V 695 6/12PT 4/1kW Motor + Impeller
TEDH-V 710 8PT	690279	MTTE TEDH-V 710 8PT 2.2kW IE1 Motor + Impeller
TEDH-V 710 6PT	690499	MTTE TEDH-V 710 6PT 3kW IE2 Motor + Impeller
TEDH-V 710 8PT	690609	MTTE TEDH-V 710 8PT 2.2kW IE2 Motor + Impeller
TEDH-V 710 6/8PT	690819	MTTE TEDH-V 710 6/8PT 3/0.75kW Motor + Impeller
TEDH-V 710 6/12PT	690899	MTTE TEDH-V 710 6/12PT 4/1kW Motor + Impeller
TEDH-V 760 8PT	690289	MTTE TEDH-V 760 8PT 1.5kW IE1 Motor + Impeller
TEDH-V 760 6PT	690509	MTTE TEDH-V 760 6PT 3kW IE2 Motor + Impeller
TEDH-V 760 8PT	690619	MTTE TEDH-V 760 8PT 1.5kW IE2 Motor + Impeller
TEDH-V 760 6/8PT	690829	MTTE TEDH-V 760 6/8PT 4/1.1kW Motor + Impeller
TEDH-V 760 6/12PT	690909	MTTE TEDH-V 760 6/12PT 4/1kW Motor + Impeller

Model	VIM code	Designation
TEDH-V 800B 8P	690309	MITTE TEDH-V 800B 8PT 2.2kW IE1 Motor + Impeller
TEDH-V 800B 6P	690529	MITTE TEDH-V 800B 6PT 4kW IE2 Motor + Impeller
TEDH-V 800B 8P	690639	MITTE TEDH-V 800B 8PT 2.2kW IE2 Motor + Impeller
TEDH-V 800B 6/8PT	690849	MITTE TEDH-V 800B 6/8PT 4/1.1kW Motor + Impeller
TEDH-V 800B 6/12PT	690929	MITTE TEDH-V 800B 6/12PT 4/1kW Motor + Impeller
TEDH-V 800H 8P	690319	MITTE TEDH-V 800H 8PT 2.2kW IE1 Motor + Impeller
TEDH-V 800H 6P	690539	MITTE TEDH-V 800H 6PT 5.5kW IE2 Motor + Impeller
TEDH-V 800H 8P	690649	MITTE TEDH-V 800H 8PT 2.2kW IE2 Motor + Impeller
TEDH-V 800H 6/8PT	690859	MITTE TEDH-V 800H 6/8PT 5.5/2.75kW Motor + Impeller
TEDH-V 800H 6/12PT	690939	MITTE TEDH-V 800H 6/12PT 5.5/1.1kW Motor + Impeller
TEDH-V 810 8PT	690299	MITTE TEDH-V 810 8PT 3kW IE1 Motor + Impeller
TEDH-V 810 6PT	690519	MITTE TEDH-V 810 6PT 5.5kW IE2 Motor + Impeller
TEDH-V 810 8PT	690629	MITTE TEDH-V 810 8PT 3kW IE2 Motor + Impeller
TEDH-V 810 6/8PT	690839	MITTE TEDH-V 810 6/8PT 5.5/2.75kW Motor + Impeller
TEDH-V 810 6/12PT	690919	MITTE TEDH-V 810 6/12PT 5.5/1.1kW Motor + Impeller
TEDH-V 900 8PT	690329	MITTE TEDH-V 900 8PT 4kW IE1 Motor + Impeller
TEDH-V 900 6PT	690549	MITTE TEDH-V 900 6PT 7.5kW IE2 Motor + Impeller
TEDH-V 900 8PT	690659	MITTE TEDH-V 900 8PT 4kW IE2 Motor + Impeller
TEDH-V 900 6/12PT	690949	MITTE TEDH-V 900 6/12PT 7.5/2kW Motor + Impeller

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