



Selection Software and Catalogue



User Manual
Versión 4.0.0 Enero-January 2019

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User Manual

1. Description of the Application

The Optifan selection software, allows you to select the most suitable product for the whole range of Tecnifan manufactures, entering the necessary data for their correct selection through a simple, intuitive and practical tool.

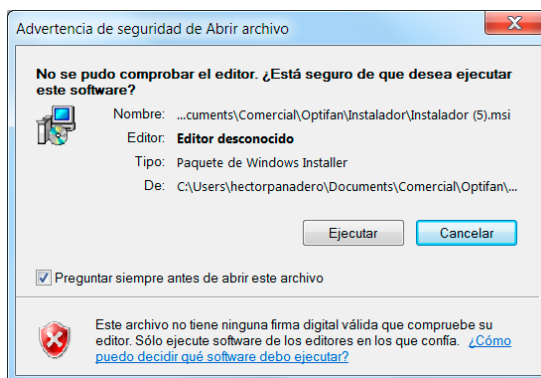
At the same time, it allows the following functions:

- See complete, technical and commercial information of all Tecnifan products through the tab “catalogue”.
- Calculate different product range and series of products at the same time.
- Print the selected report with all the technical data included.
- Save the report in PDF format.
- Create, manage and save calculated projects.
- Download news, technical information, certifications and all the necessary information of our products through the tab “downloads”.

2. Installation Guide

Below we will detail the necessary steps for the complete installation of the Optifan software:

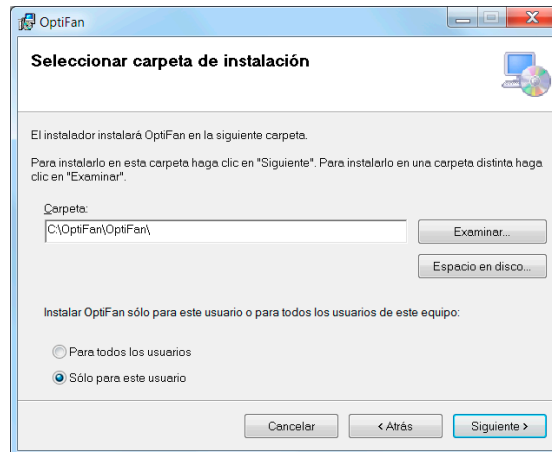
1. Execute the file **SetupOptifan.msi** and you will see the following screen:



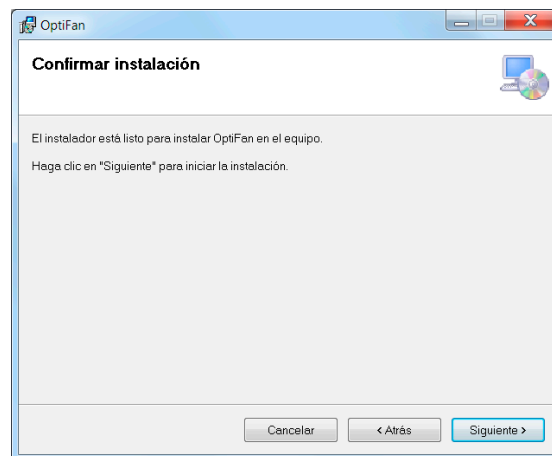
2. Click the button **ejecutar** (run), it continues with the following screen:



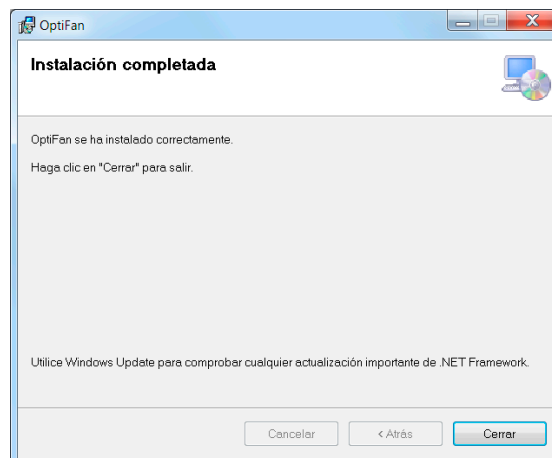
- Then by clicking on the button **siguiente** (next), you will see the screen requesting the path name of the directory where to install the application.



- Once you have selected the path name, click **siguiente** and you will see the screen previous to the installation.




- In order to start the installation, click **siguiente** and the installation will begin.



- To complete the installation, click the button **cerrar** (close) and the program will be installed properly on your computer.

3. Optifan user manual

Once the application is installed, run the program by double clicking on the program icon Optifan which can be found on the Windows desktop . Thus the initial screen will appear with the menu of the options in the left part of the top of the screen:



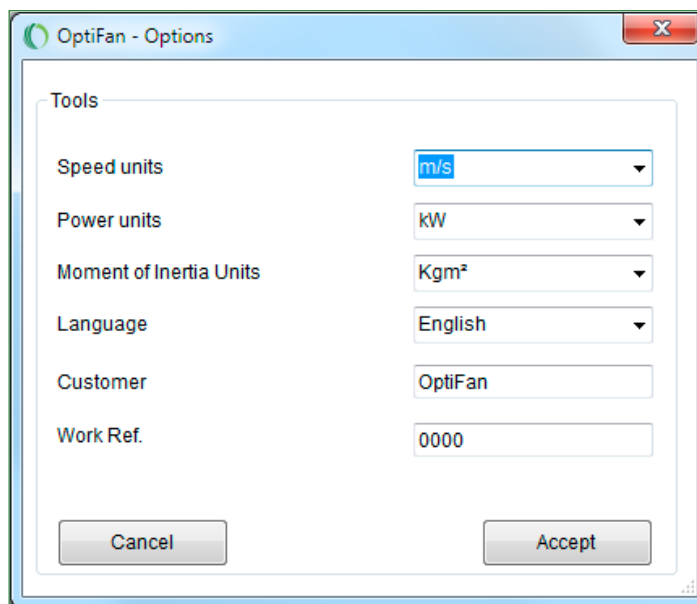
This menu is composed of:

Catalogue **Selection** **Project** **Options** **Downloads** **Help**

- **Catalogue:** Complete descriptive and visual guide of products and accessories.
- **Selection:** Complete tool for the selection of products through the introduction of parameters (input data).
- **Project:** List of saved projects for the selections realised.
- **Options:** Settings for the language selection and default units.
- **Downloads:** Complete list of downloadable files such as technical documentation or catalogues of the Tecnifan products. Direct access to browse through the website and perform queries on the products to obtain further information.
- **Help:** Installed version of the software.

3.1 Options.

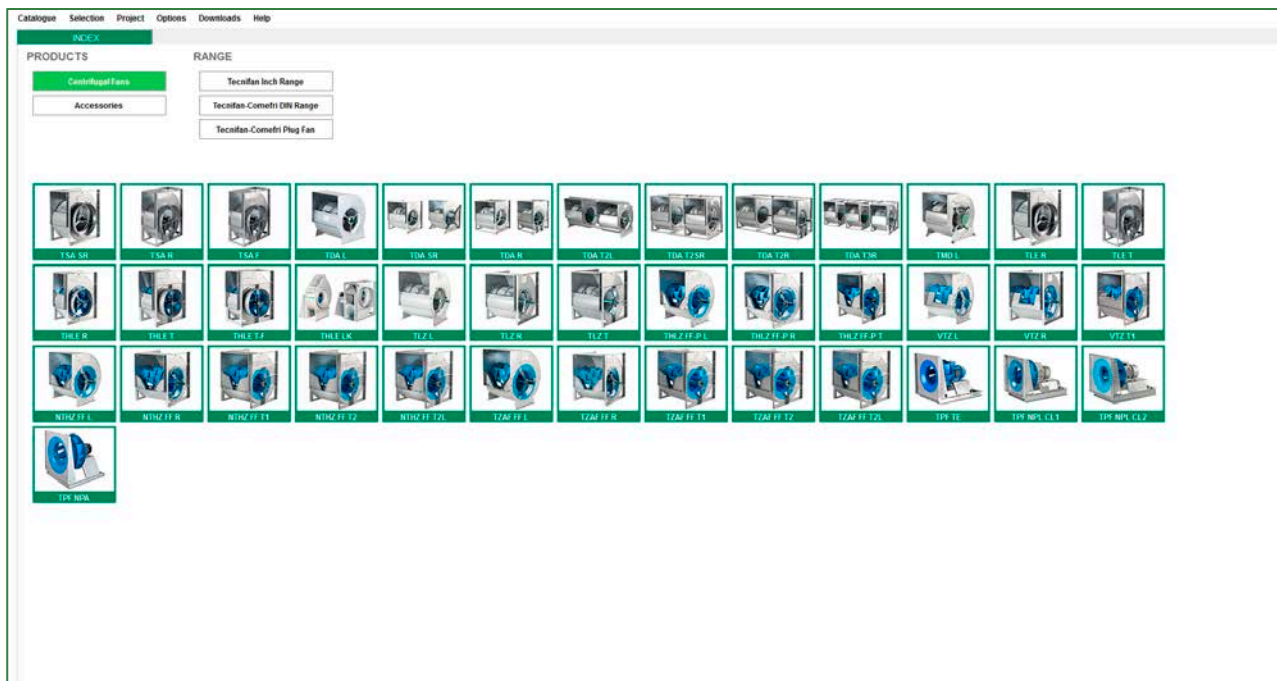
The “**Options**” menu, allows you to configure the default units of speed, power and moment of inertia, the preferred language (**English, Spanish and French**), as well as to introduce the customer and the work reference to study.



Once updated, click the button **Accept** to apply the configuration of the software.

3.2 Catalogue.

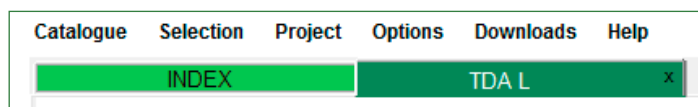
The menu **Catalogue** allows you to view the basic properties of a product by clicking on its image, or realise a more detailed **search** through the menu and buttons at the top "**Products**", "**Range**", "**Type**" and "**Impeller**". Also, the available "**Accessories**".



Once you have selected the desired product, click on the image and a new screen will open with the description, features, amplified photograph and main technical data of the selected product.



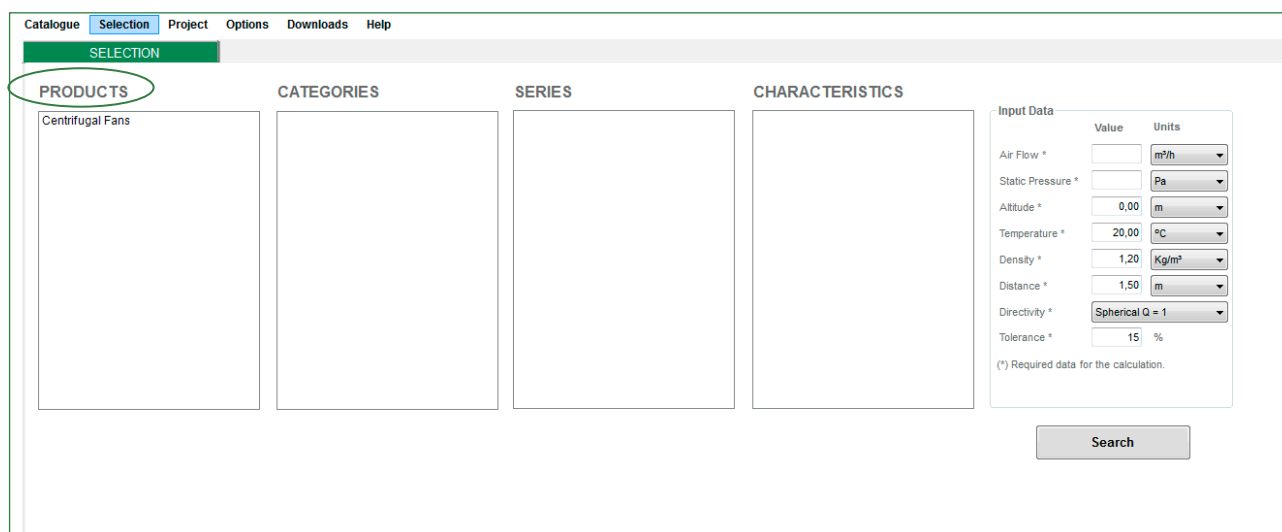
Through the upper tabs you can return at any time to the previous selected screens or close them.



3.3 Selection. Graph and Technical Report.

Through the menu **Selection**, by entering the required data for the operating point, allows you to select the most suitable product for your application. To do this, perform the following steps:

1. In the column **“Products”**, mark the product you want to calculate/select.



2. In the column **“Categories”**, mark the category or categories you want to calculate/select.

Catalogue Selection Project Options Downloads Help

SELECTION

PRODUCTS	CATEGORIES	SERIES	CHARACTERISTICS
Centrifugal Fans	TSA TDA TMD TLE THLE TLZ THLZ FF-P VTZ NTHZ FF TZAF FF TPF	L - Light SR - Semi-reinforced R - Reinforced F - Certified 400°C/2h TE - Polyamide impeller NPL CL1 - Metal Class 1 impeller NPL CL2 - Metal Class 2 impeller NPA - Metal Airfoil impeller	

Input Data

Value	Units
Air Flow *	m³/h
Static Pressure *	Pa
Altitude *	0,00 m
Temperature *	20,00 °C
Density *	1,20 Kg/m³
Distance *	1,50 m
Directivity *	Spherical Q = 1
Tolerance *	15 %

(*) Required data for the calculation.

Search

3. In the column “Series”, mark the series you want to calculate/select.

Catalogue Selection Project Options Downloads Help

SELECTION

PRODUCTS	CATEGORIES	SERIES	CHARACTERISTICS
Centrifugal Fans	TSA TDA TMD TLE THLE TLZ THLZ FF-P VTZ NTHZ FF TZAF FF TPF	L - Light SR - Semi-reinforced R - Reinforced F - Certified 400°C/2h TE - Polyamide impeller NPL CL1 - Metal Class 1 impeller NPL CL2 - Metal Class 2 impeller NPA - Metal Airfoil impeller	FREQUENCY (Hz) <input checked="" type="checkbox"/> 50 <input type="checkbox"/> 60 MOTO-FAN EFFICIENCY <input type="checkbox"/> EIP2015 MOTOR EFFICIENCY CLASS (IEC) <input type="checkbox"/> IE1 <input type="checkbox"/> IE2 <input type="checkbox"/> IE3 MOTOR POLES <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 2 SINGLE-PHASE/THREE-PHASE (V) <input type="checkbox"/> 230 <input type="checkbox"/> 230/400 <input type="checkbox"/> 400/690

Input Data

Value	Units
Air Flow *	m³/h
Static Pressure *	Pa
Altitude *	0,00 m
Temperature *	20,00 °C
Density *	1,20 Kg/m³
Distance *	1,50 m
Directivity *	Spherical Q = 1
Tolerance *	15 %

(*) Required data for the calculation.

Search

4. In the column “Characteristics”, mark the required characteristics. These will execute a data filtering to refine your calculation result search.

Catalogue Selection Project Options Downloads Help

SELECTION

PRODUCTS	CATEGORIES	SERIES	CHARACTERISTICS
Centrifugal Fans	TSA TDA TMD TLE THLE TLZ THLZ FF-P VTZ NTHZ FF TZAF FF TPF	L - Light SR - Semi-reinforced R - Reinforced F - Certified 400°C/2h TE - Polyamide impeller NPL CL1 - Metal Class 1 impeller NPL CL2 - Metal Class 2 impeller NPA - Metal Airfoil impeller	FREQUENCY (Hz) <input checked="" type="checkbox"/> 50 <input type="checkbox"/> 60 MOTO-FAN EFFICIENCY <input type="checkbox"/> EIP2015 MOTOR EFFICIENCY CLASS (IEC) <input type="checkbox"/> IE1 <input type="checkbox"/> IE2 <input type="checkbox"/> IE3 MOTOR POLES <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 2 SINGLE-PHASE/THREE-PHASE (V) <input type="checkbox"/> 230 <input type="checkbox"/> 230/400 <input type="checkbox"/> 400/690

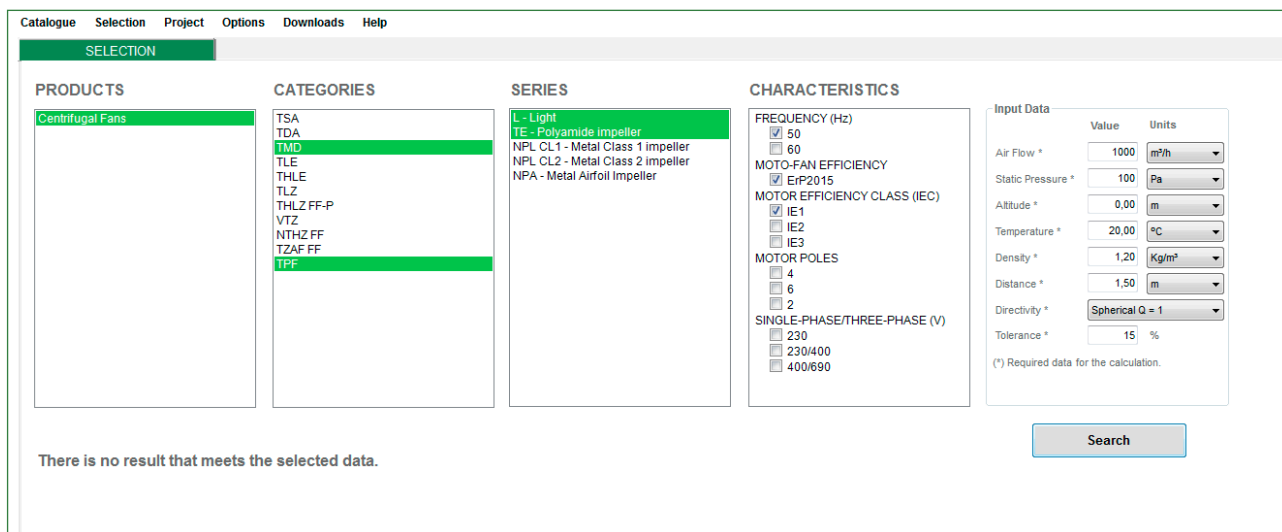
Input Data

Value	Units
Air Flow *	m³/h
Static Pressure *	Pa
Altitude *	0,00 m
Temperature *	20,00 °C
Density *	1,20 Kg/m³
Distance *	1,50 m
Directivity *	Spherical Q = 1
Tolerance *	15 %

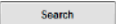
(*) Required data for the calculation.

Search

If you select two or more categories with exclusive features, the software will not show any results.



Whenever you need, you can access any of the top menus (Catalogue, Selection and Project) without risk of losing the information you are viewing.

- Once you have selected the desired product type, enter the flow rates, the static pressure, the altitude, the temperature, the density, the distance, the directivity and the tolerance, being able to choose by using the drop-down menus between different units of measure. The more you limit the selection, the faster the display will show the calculation results. Then click on the button , the software will display the results of the calculation of all the options marked previously.

Input data:

- Air Flow required.
- Static Pressure required for the working point.
- Altitude above sea level where the facility is placed.
- Temperature for the inlet air.
- The default Density value is 1,2 Kg/m³. The program also calculates the density value automatically when changing the altitude and temperature values. If the gas moved is different to air, the density value can be introduced manually. In this case, Optifan will not use the altitude and temperature values introduced.
- Distance to the acoustic source where the Sound Pressure Level LpA wants to be determined.
- The Directivity factor of the acoustic source in relation to its space situation and the sound wave reflection for the sound pressure level calculation LpA.
- Tolerance percentage deviation allowed by excess or default on the required air flow. For those products in which the required air flow is achieved accurately by regulating the rotational speed, the tolerance value has no effect.

Catalogue Selection Project Options Downloads Help

SELECTION

PRODUCTS

- Centrifugal Fans
- Ventilation Boxes

CATEGORIES

- TSA
- TDA
- TMD
- TLE
- THLE
- TLZ
- THLZ FF-P
- VTZ
- NTHZ FF
- TZAF FF
- TPP
- NTFF

SERIES

- L - Light
- SR - Semi-reinforced
- R - Reinforced
- F - Certified 400°C/2h
- TE - Polyamide impeller
- NPL CL1 - Metal Class 1 impeller
- NPL CL2 - Metal Class 2 impeller
- NPA - Metal Airfoil Impeller

CHARACTERISTICS

FREQUENCY (Hz)

- ☒ 50
- ☐ 60

MOTO-FAN EFFICIENCY

- ☐ ErP2015

MOTOR EFFICIENCY CLASS (IEC)

- ☐ IE1
- ☐ IE2
- ☐ IE3

MOTOR POLES

- ☐ 4
- ☐ 6
- ☐ 2

SINGLE-PHASE/THREE-PHASE (V)

- ☐ 230
- ☐ 230/400
- ☐ 400/690

SPEEDS NUMBER (1V/3V)

- ☒ 1V

Input Data

Value	Units
Air Flow *	3000 m³/h
Static Pressure *	300 Pa
Altitude *	0.00 m
Temperature *	20.00 °C
Density *	1.20 Kg/m³
Distance *	1.50 m
Directivity *	Spherical Q = 1
Tolerance *	15 %

(*) Required data for the calculation.

Calculation Results

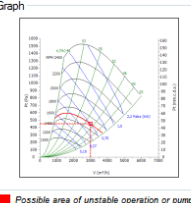
Type	Size	Air flow (m³/h)	Static pressure (Pa)	Flow speed (m/s)	Efficiency (%)	Speed (min⁻¹)	Absorbed power (K)
TSA 10/5 F	10/5	3000	300	15.8	49	1500	0.76
TSA 12/6 F	12/6	3000	300	11.6	56	1043	0.57
TSA 15/7 F	15/7	3000	300	7.7	61	773	0.46
TSA 18/9 F	18/9	3000	300	5.8	63	628	0.42
TMD 9/7 0.55 kW (3/4 CV)-4P-M-1V	9/7	3090	317	13	N/A	N/A	N/A
TMD 9/9 0.55 kW (3/4 CV)-4P-M-1V	9/9	3195	340	11.2	N/A	N/A	N/A
TMD 10/8 0.25 kW (1/3 CV)-6P-M-1V	10/8	2590	223	9.1	N/A	N/A	N/A
TMD 10/8 0.37 kW (1/2 CV)-6P-M-1V	10/8	2660	234	9.3	N/A	N/A	N/A
TMD 10/10 0.25 kW (1/3 CV)-6P-M-1V	10/10	2570	218	7.6	N/A	N/A	N/A
TMD 10/10 0.37 kW (1/2 CV)-6P-M-1V	10/10	2720	245	8	N/A	N/A	N/A
TMD 10/10 0.55 kW (3/4 CV)-6P-M-1V	10/10	2760	253	8.1	N/A	N/A	N/A
TMD 10/10 0.75 kW (1 CV)-6P-T-1V	10/10	2790	258	8.2	N/A	N/A	N/A
TMD 12/9 0.55 kW (3/4 CV)-6P-M-1V	12/9	3120	324	8.2	N/A	N/A	N/A
TMD 12/9 0.75 kW (1 CV)-6P-M-1V	12/9	3150	329	8.3	N/A	N/A	N/A
TMD 12/9 0.75 kW (1 CV)-6P-T-1V	12/9	3200	341	8.4	N/A	N/A	N/A
TMD 12/9 1.1 kW (1.5 CV)-6P-M-1V	12/9	3270	355	8.6	N/A	N/A	N/A
TMD 12/9 1.1 kW (1.5 CV)-6P-T-1V	12/9	3280	358	8.6	N/A	N/A	N/A
TMD 12/12 0.55 kW (3/4 CV)-6P-M-1V	12/12	2995	297	6.3	N/A	N/A	N/A
TMD 12/12 0.75 kW (1 CV)-6P-M-1V	12/12	2930	285	6.2	N/A	N/A	N/A
TMD 12/12 0.75 kW (1 CV)-6P-T-1V	12/12	3100	319	6.5	N/A	N/A	N/A
TMD 12/12 1.1 kW (1.5 CV)-6P-M-1V	12/12	3130	325	6.6	N/A	N/A	N/A
TMD 12/12 1.1 kW (1.5 CV)-6P-T-1V	12/12	3185	337	6.7	N/A	N/A	N/A

Search Select Project

Motor and transmission selection

Sound Level All

Graph



Possible area of unstable operation or pumping

As you will realize, in some cases the software will display products with a red stripe, this means that the operating point is located in **an area of unstable operation or pumping**, thus its selection is not recommended.

The drop-down menu **"Sound Level"** located at the right of the selection display, allows you to filter by sound level depending on the application to which the product is going to be assigned.

- Silent from 9 m/s to 10 m/s.
- Standard from 10 m/s to 13 m/s.
- Industrial greater than 13 m/s.

Sound Level

All

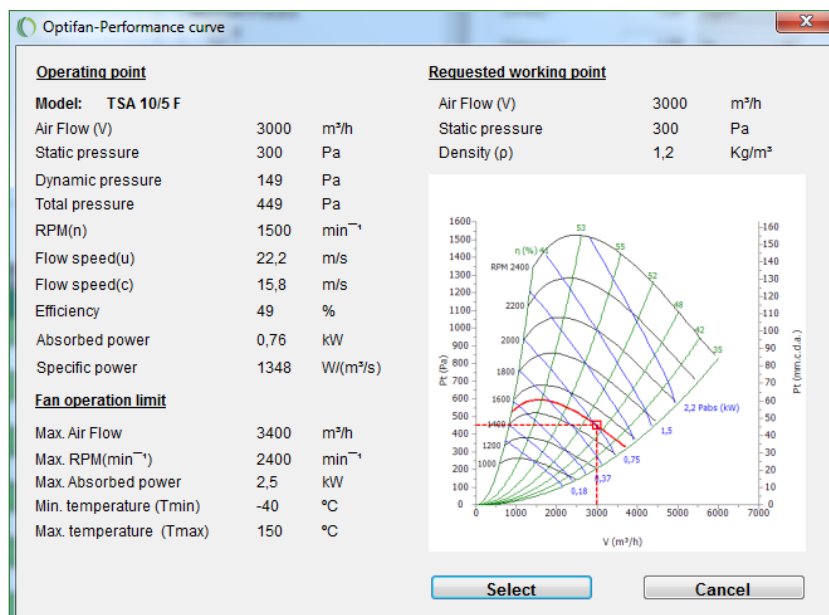
Silent

Standard

Industrial

On the right of the selection, a preview of the graph corresponding to the fan marked with a click will appear. Click on the image and a modal window will open with the corresponding large graph and a summary of data of the required work point, operating point and limits of use of the fan.

The user will see in this window if the fan is valid, if the working point is well situated and if it is close to the limits of use of the fan. It is not necessary to open several fan reports to assess its validity.



Click on **select** to get the report of the selected fan.

Click on **cancel** to return to the Selection menu.

To add one or more products to a project, select the items you want to save and click on the button

Project

SELECTION

PRODUCTS

- Centrifugal Fans

CATEGORIES

- TSA
- TDA
- TMD
- TLE
- THLE
- TLZ
- THLZ FF-P
- VTZ
- NTHZ FF
- TZAF FF
- TPF

SERIES

- L - Light
- SR - Semi-reinforced
- R - Reinforced
- F - Certified 400°C/2h
- TE - Polyamide impeller
- NPL CL1 - Metal Class 1 impeller
- NPL CL2 - Metal Class 2 impeller
- NPA - Metal Airfoil Impeller

CHARACTERISTICS

FREQUENCY (Hz)

- ☒ 50
- ☐ 60

MOTO-FAN EFFICIENCY

- ☐ ErP2015

MOTOR EFFICIENCY CLASS (IEC)

- ☐ IE1
- ☐ IE2
- ☐ IE3

MOTOR POLES

- ☐ 4
- ☐ 6
- ☐ 2

SINGLE-PHASE/THREE-PHASE (V)

Input Data

Value	Units
Air Flow *	3000 m³/h
Static Pressure *	300 Pa
Altitude *	0,00 m
Temperature *	20,00 °C
Density *	1,20 Kg/m³
Distance *	1,50 m
Directivity *	Spherical Q = 1

Calculation Results

Type	Size	Air flow (m³/h)	Static pressure (Pa)	Flow speed (m/s)	Efficiency (%)
TSA 15/7 F	15/7	3000	300	7,7	61
TSA 18/9 F	18/9	3000	300	5,8	63
TMD 9/7 0,55 kW (3/4 CV)-4P-M	9/7	3090	317	13	N/A
TMD 9/9 0,55 kW (3/4 CV)-4P-M	9/9	3195	340	11,2	N/A
TMD 10/8 0,25 kW (1/3 CV)-6P-M	10/8	2590	223	9,1	N/A
TMD 10/8 0,37 kW (1/2 CV)-6P-M	10/8	2660	234	9,3	N/A
TMD 10/10 0,25 kW (1/3 CV)-6P-M	10/10	2570	218	7,6	N/A
TMD 10/10 0,37 kW (1/2 CV)-6P-M	10/10	2720	245	8	N/A
TMD 10/10 0,55 kW (3/4 CV)-6P-M	10/10	2780	253	8,1	N/A
TMD 10/10 0,75 kW (1 CV)-6P-T	10/10	2790	258	8,2	N/A
TMD 12/9 0,55 kW (3/4 CV)-6P-M	12/9	3120	324	8,2	N/A
TMD 12/9 0,75 kW (1 CV)-6P-M	12/9	3150	329	8,3	N/A
TMD 12/9 0,75 kW (1 CV)-6P-T	12/9	3200	341	8,4	N/A
TMD 12/9 1,1 kW (1,5 CV)-6P-M	12/9	3270	355	8,6	N/A
TMD 12/9 1,1 kW (1,5 CV)-6P-T	12/9	3280	358	8,6	N/A
TMD 12/12 0,55 kW (3/4 CV)-6P-M	12/12	2995	287	6,3	N/A
TMD 12/12 0,75 kW (1 CV)-6P-M	12/12	2930	285	6,2	N/A
TMD 12/12 0,75 kW (1 CV)-6P-T	12/12	3100	319	6,5	N/A
TMD 12/12 1,1 kW (1,5 CV)-6P-M	12/12	3130	325	6,6	N/A
TMD 12/12 1,1 kW (1,5 CV)-6P-T	12/12	3185	337	6,7	N/A
TPF 315 NPL CL1 0,75 kW-2P IE2	315	3000	300	N/A	55
TPF 315 NPL CL1 0,75 kW-2P IE3	315	3000	300	N/A	55
TPF 315 NPL CL1 1,1 kW-2P IE2	315	3000	300	N/A	55
TPF 315 NPL CL1 1,1 kW-2P IE3	315	3000	300	N/A	55

Optifan - Proyecto

Assign a project

Project




Add


Id	Description	Creation Date	Update Date
1	Tecnifan 01	10/02/2016 11:16	19/02/2016 10:08
2	Tecnifan 02	23/02/2016 17:40	23/02/2016 17:40

Cancel

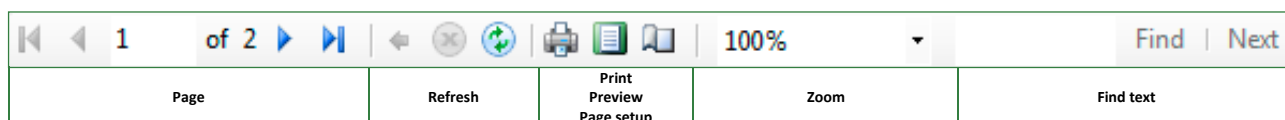
Assign

Possible area of unstable operation or pumping.

Then, a new window will appear, where in the field "Project" you have to specify the name of the desired project, once completed, click on the button  and the project will be included in the list of the projects. Finally click on the button  in order to save the project. From the button  you can view and manage all the stored projects.

- To make your selection, once you have selected the desired product or products, click on the button  and the program will show you the report for the introduced operating point.

At the top of the report you can find the report menu which is presented as follows:




In the upper right corner by clicking on the button  you can save the report in .pdf format on your PC or on any external storage unit.

Catalogue Selection Project Options Downloads Help


SELECTION

TSA 15/7 F



Tecnifan Optifan Technical Report
23/02/2016

TSA 15/7 F



Requested working point

Air Flow (V)	3000 m³/h
Static pressure (P _s)	300 Pa
Temperature (t)	20 °C
Altitude (h)	0 m
Density (ρ)	1,2 Kg/m³


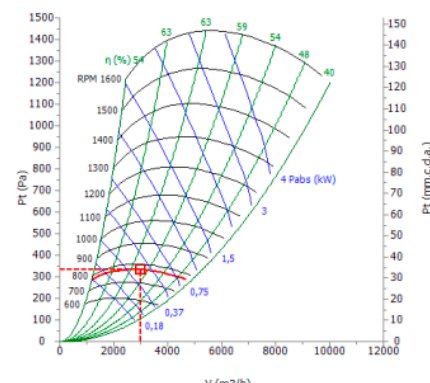
Operating Point


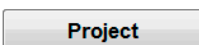
Selected type		TSA 15/7 F
Air Flow (V)	3000 m³/h	
Static pressure (P _s)	300 Pa	
Dynamic pressure (P _d)	35 Pa	
Total pressure (P _t)	335 Pa	
RPM (n)	773 min ⁻¹	
Tip speed (u)	16 m/s	
Flow speed (c)	7,7 m/s	
Efficiency (η)	61 %	
Absorbed power (P _{abs})	0,46 kW	
Minimum motor power (P _{motor})	0,55 kW	
Specific power (SFP)	970 W/(m³/s)	
Recommended motor	kW	CV
Motor power (P _{mot})	0,55	3/4

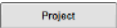
Technical Features

Fan		Motor	
Max. Air Flow (V _{max})	7000 m³/h	Power	N/A
Max. RPM (n _{max})	1600 min ⁻¹	Voltage	N/A
Max. Absorbed power (P _{abs,max})	4 kW	Frequency	N/A
Min. temperature (t _{min})	-40 °C	Phases	N/A

Single inlet centrifugal fans manufactured in galvanized steel, quality Z-275, and prepared for belt driven transmission. Certified to work at 400°C during 2 hours according to regulation UNE-EN 12101.3. Includes high temperature bearings with a cast iron support, bridge type. The cubic reinforced frame allows the assembly in four possible orientations by hand, providing a great rigidity. The impeller is manufactured with inserted blades.

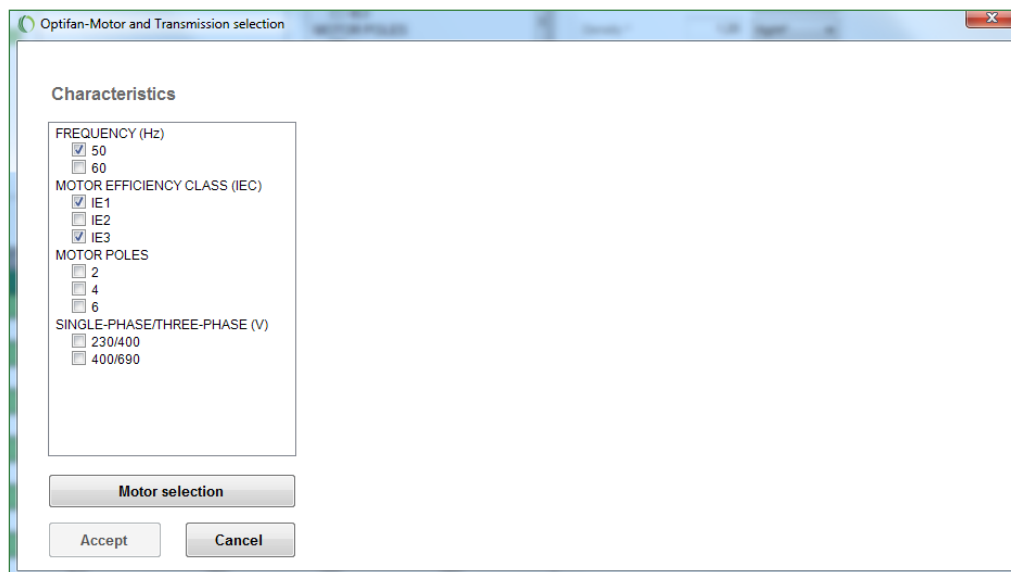



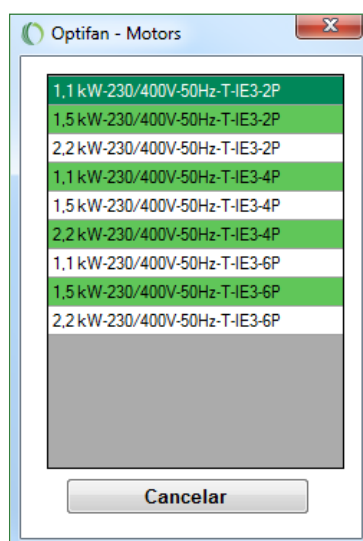
Clicking on the button  , you can also save the selected products to a project.

Through the upper tabs you can view all the calculated reports at any time, as well as making new product selections.

7. In the case of free shaft fans of both TECNIFAN and COMEFRI, in order to select a different motor than the recommended one and a transmission, once you have marked with a click the chosen fan, click on **motor and transmission selection** and a new modal window for motor and transmission will open.



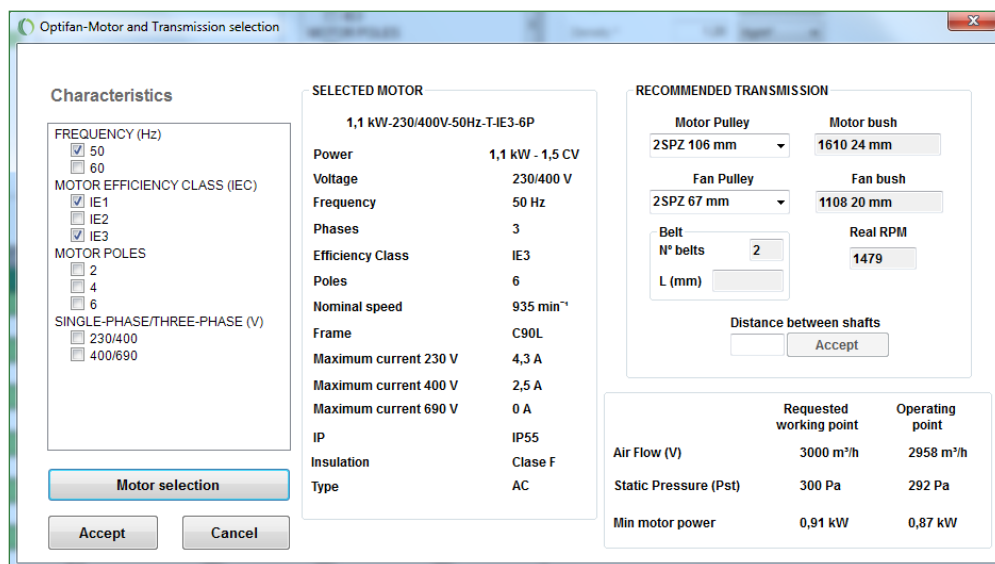
To select the motor, once you have selected the desired characteristics, click on **selection motor** and a drop-down will appear with a table of various motors to choose with the power like the recommended one and the two motors with the power just above the recommended one, with the same motor characteristics that have been selected.



Click on **cancel** to return to the modal window of motor and transmission.

Double-click on one of the motors to select it, and the drop-down will close and both the motor data selected and those of the recommended transmission for that motor will be loaded in **motor and transmission** modal window.

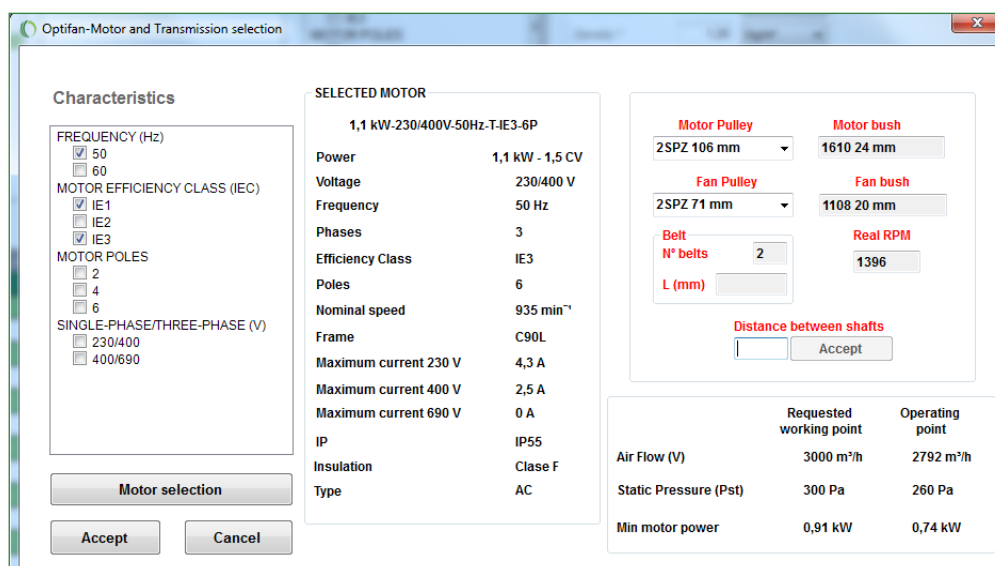
In the lower right part of this window, the values of airflow, static pressure and minimum motor power of the operating point for the selected transmission will also be automatically calculated, together with airflow values, static pressure and minimum motor power of the required point.



	Requested working point	Operating point
Air Flow (V)	3000 m³/h	2958 m³/h
Static Pressure (Pst)	300 Pa	292 Pa
Min motor power	0,91 kW	0,87 kW

If you have the corresponding value, enter it in the “**distance between shafts**” box from which the value of the nominal length of the belts will be calculated by clicking on **Accept**. If this value is not entered, the nominal length of the belts will appear in white.

The recommended transmission may be modified by the user to adapt it to their needs. You can modify the smaller diameter pulley in the corresponding drop-down and the larger diameter pulley will automatically recalculate maintaining the already calculated transmission ratio. Modify the larger diameter pulley in the corresponding drop-down and the smaller diameter pulley and it will not be recalculated automatically, thus allowing the user to modify the transmission ratio and both pulleys. Only the diameter of the pulleys can be modified, not profile or number of grooves.



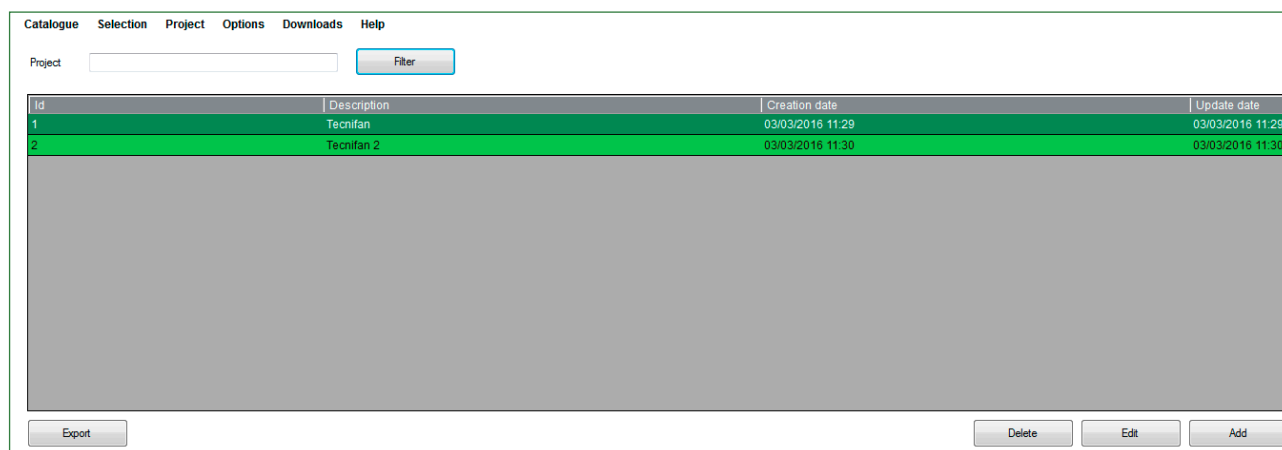
	Requested working point	Operating point
Air Flow (V)	3000 m³/h	2792 m³/h
Static Pressure (Pst)	300 Pa	260 Pa
Min motor power	0,91 kW	0,74 kW

Click on **Accept** to get the selected fan report where the selected motor and transmission data will be included.

Click on **cancel** to return to the **Selection** menu.

3.4 Project.

In the menu **Project** you can manage very easily all the projects previously saved, even create directly a new work.



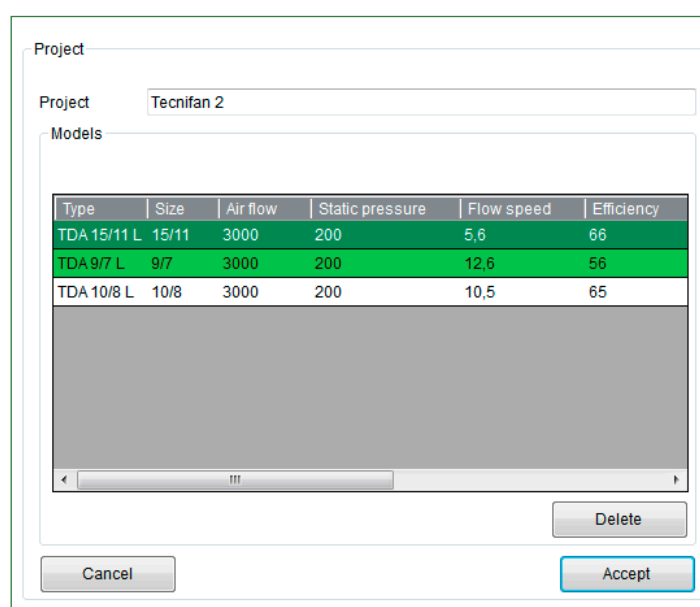
Id	Description	Creation date	Update date
1	Tecnifan	03/03/2016 11:29	03/03/2016 11:29
2	Tecnifan 2	03/03/2016 11:30	03/03/2016 11:30

Inside the “project” display and by entering the name of the desired work, you can search among the list of projects just by clicking on the button **Filter**.


By clicking on the button **Export** you can save the project and products selected in your PC or removable storage unit.



By clicking on the button **Delete** you will permanently remove the selected project.

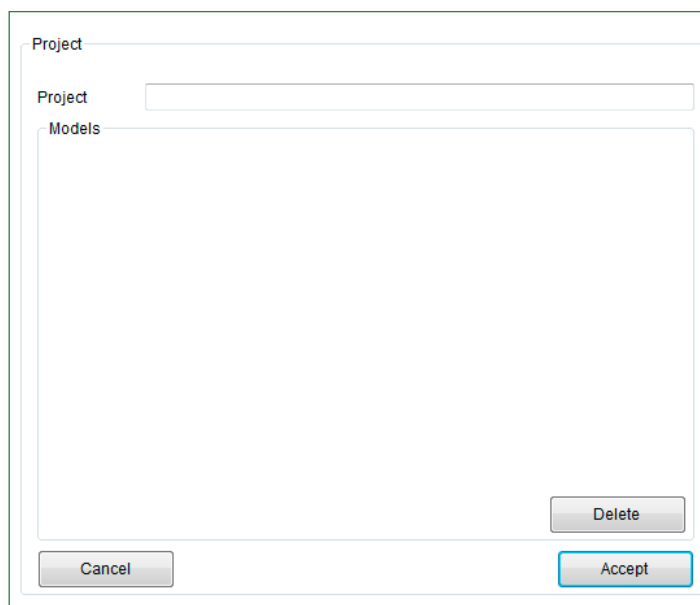
By clicking on the button **Edit** or double-clicking on a project, a new screen opens where you can view the stored products in the project.



Type	Size	Air flow	Static pressure	Flow speed	Efficiency
TDA 15/11 L	15/11	3000	200	5,6	66
TDA 9/7 L	9/7	3000	200	12,6	56
TDA 10/8 L	10/8	3000	200	10,5	65

In the new screen, you can delete a product from the list by selecting it and clicking on the button  .


Finally, if you want to add a new project to include products in the future, click on the  button. A new screen will open where, only by typing the name of the desired project in the field "**project**" and clicking on the button  the project will be included correctly to the list.


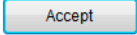


Project

Project

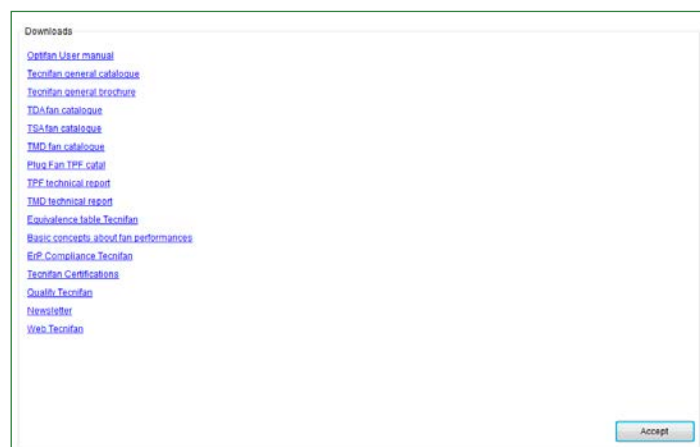
Models




3.5 Downloads.

Through the menu **Downloads** you can download news, technical information, catalogues, certificates, as well as a direct access to all the necessary information of all the products in the catalogue. Also, it allows to open and browse directly to the Tecnifan website.



Downloads

- [Optifan User manual](#)
- [Tecnifan general catalogue](#)
- [Tecnifan general brochure](#)
- [TDA fan catalogue](#)
- [TSD fan catalogue](#)
- [TMD fan catalogue](#)
- [Phyg Fan TPF catalog](#)
- [TPE technical report](#)
- [TMD technical report](#)
- [Equivalence table Tecnifan](#)
- [Basis concepts about fan performance](#)
- [ERP Compliance Tecnifan](#)
- [Tecnifan Certifications](#)
- [Quality Tecnifan](#)
- [Newsletter](#)
- [Web Tecnifan](#)



3.6 Help.

In the menu **Help** you can see the version of the software.

For any incidents, please contact us directly to the mail tecnifan@tecnifan.es

3.7 Abbreviations used.

- **N/A:** Not applicable
- **P:** Poles
- **M:** Monophasic
- **T:** Triphasic

Frequency Converter Operating Data:

- **Frequency (Hz):** Regulation frequency in Hertz for the operating point.
- **RPM (min^{-1}):** Motor speed to the frequency converter regulation.
- **DRF (%):** Effective percentage motor power loss due to the presence of the frequency converter.
- **Electric power (kW):** Motor power consumption in kW, including losses due to the frequency converter.
- **P mot DRF (kW):** Maximum effective power available in the motor at the regulation frequency, due to the DRF.
- **Frequency max. (Hz):** Maximum frequency available in Hertz with the selected motor.
- **RPM max. (min^{-1}):** Maximum motor speed available to the maximum frequency.