

## ***AHU 8 - Archive management***

## Sommario

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## AHU Software Purpose

AHU is our software for HVAC companies who build Air Handling Units. It lets you rate standard units or design customised units in the shortest time.

Simplify the ordinary work: AHU is a flexible selection software, that allows to make the work of your Sales Dept. easier, reducing the waiting times from the quotation to the development of the job order. Several types of printout models are available, depending of the details required by Sales Dept.

AHU is the result of twenty-five – years old experience, gained in HVAC field. UNILAB offers this qualified tool for AHU's suppliers.

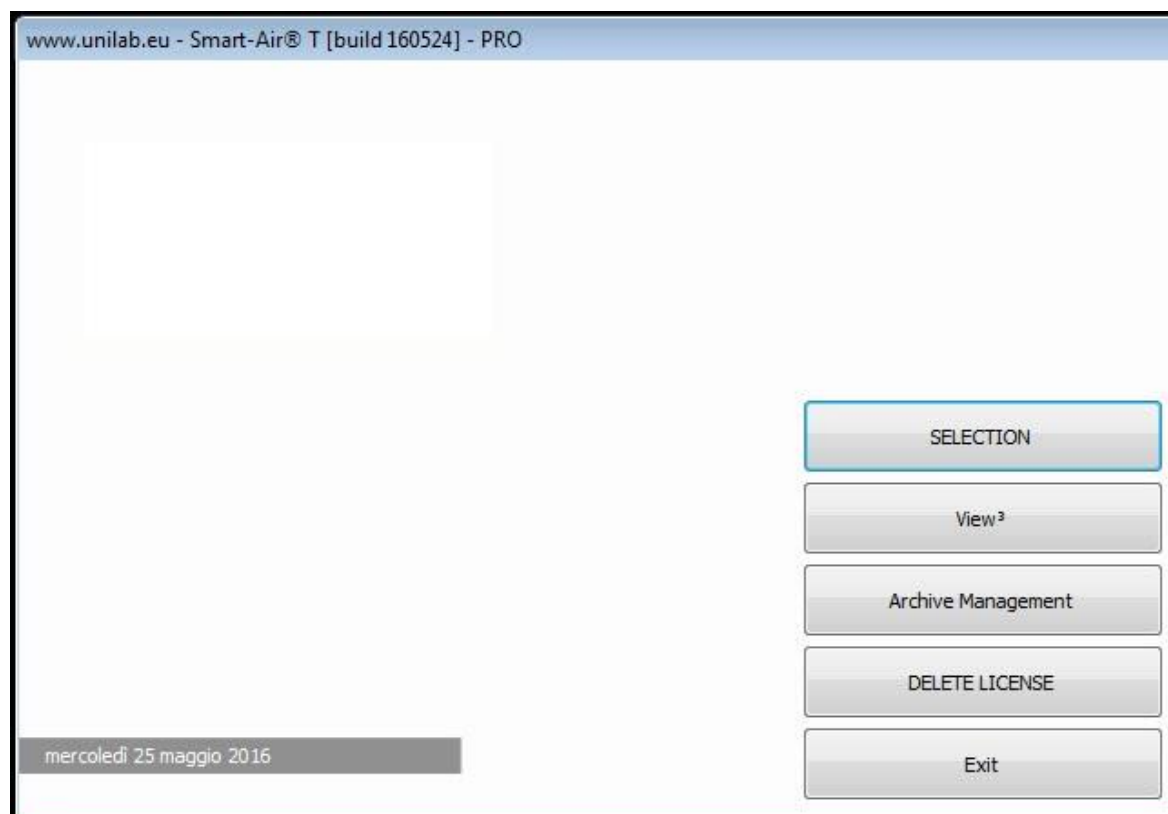
Its main purpose is to be very useful utility for your Sales Dept. in the fact that quickly you can build your unit in a visual environment with a drag and drop technique and then easily you can calculate the Air Handling Unit and get to the printout at various details.

The main purpose of this manual is to show you through several example how to design and select various type of Air Handling Units.

We will start with a quick overview of the GUI of our software AHU, then we will continue explaining the main points of the four menus of the software, and at last, we will show through five standard units how to do the complete process from building a unit to printing its results.

## I. AHU Software Overview

In this section we will have an overview of the software AHU.  
When we run AHU this is what we get.



This is the first window you meet.

You have four options you can choose:

**Selection:** this button allows to access directly to selection software part. You can select a machine which characteristics you want, and do offers;

**View3:** this button allows to access directly to VIEW3 software part. You can see the machine you've selected in the "Selection" in 3D view. You can, also select a machine in this section and do offers;

ARCHIVE MANAGEMENT

: this button allows to access directly to "Archive Management" which is common called WIZARD. In this software part you can manage everything related to sections that make up a AHU. From the profiles and panels, to fans and coils;

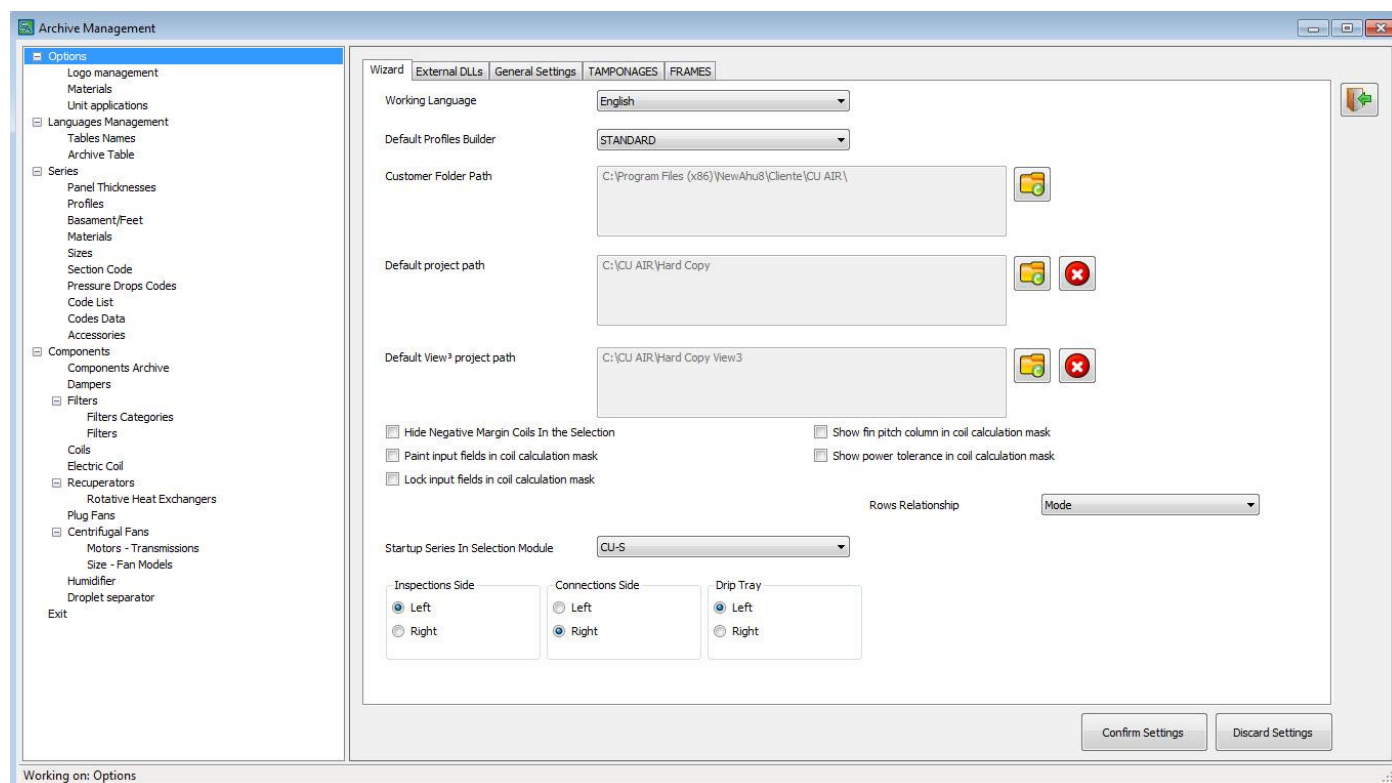
EXIT

: this button allows to exit from the software.

We choose "Archive management" to introduce data into the software.

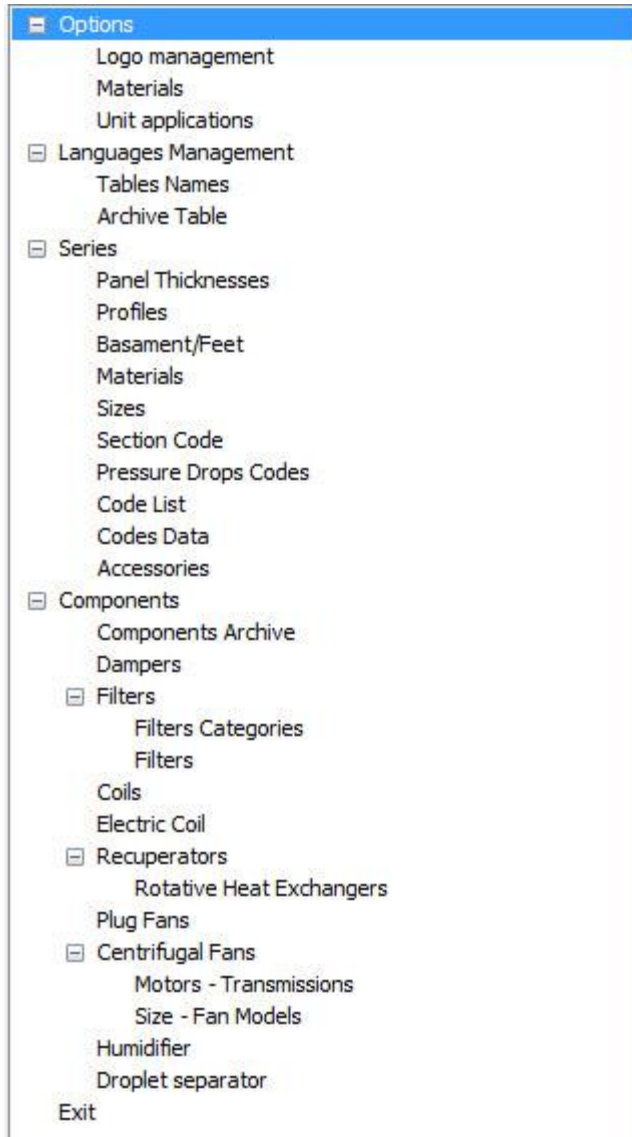
## II. Options

Clicking on " Archive Management", when the window opens, you can choose working options, as you can see:



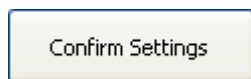
Let's start to explore this window.

On the left side you can see the several step of WIZARD.

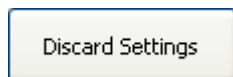


Now we are at "Options" and in this section you can choose has software works.

At bottom of window you have to buttons:

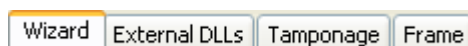


to click when you've done the modifies you need.

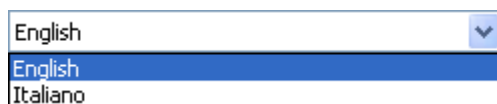


to click when you want to quit without saving.

At the top of the window you have several tabs:



Now you're in the TAB "Wizard" where you can choose the default features of Wizard, as:



Default Working Languages

PRO-LAM

STANDARD

AROSIO

PRO-LAM

Default Profiles Builder



Customer folder Path.

Now you pass in the TAB "External DLLs" where you can choose the default features of working software:  
(Please pay attention that only UNILAB S.r.l. technicians can introduce DLLs into the software)

Wizard

External DLLs

Tamponage

Frame

Calculation module	Username	Password
Recuperator		
Zhiel-Abegg PlugFan		

Section Type

Fan Section

Subsection Type

Ventilatori plug-fan h3

Available DLLs

DLL	Used
Zhiel-Abegg PlugFan	<input checked="" type="checkbox"/>

Confirm Settings

Discard Settings

In the bottom of the window you can see the list of enabled DLLs:

Calculation module	Username	Password
Recuperator		
Zhiel-Abegg PlugFan		

Fan Section

Fan Section

Plate Heat Exchanger Section

Rotative Heat Exchanger Section

Then for each kind of section (as you can see on the left image) you can use or less the other DLLs which are inside the software, but not yet enabled.

Ventilatori plug-fan h3

Ventilatori plug-fan h3

Ventilatori plug-fan sospeso

This drop down menu is visible only if you select before "Fan section". So you can select for each type of fan, the DLL to use.

DLL	Used
Recuperator	<input checked="" type="checkbox"/>
Heatex	<input type="checkbox"/>
Klingenburg	<input type="checkbox"/>

Finally, you choose which DLL use for calculation.

You can enable more than one DLL.

Now you pass in the TAB "Tampon age" where you can choose the kind of tamponage to use in the selection software:

You can see that tamponages are divided for type of section.

Wizard

External DLLs

Tamponage

Frame

Properties

Value

General

Feet

Basement

Tank

Filter Section

Cell Filter Section

Hard Bag Filter Section

Cell + Hard Bag Filter Section

Roll Filter Section

HEPA Filter Section

Activated Carbon Filter Section

Electrostatic rotative filter section

Soft Bag Filter Section

Coil Section

Cooling Coil Section

Fan Section

Centrifugal Fan Section

Plug Fan Section

Droplet Separator Section

Droplet Separator Section

Umidifier Section

Double Nozzle Humidifier Section

Double Pack Humidifier Section

Single Nozzle Humidifier Section

Single Pack Humidifier Section

Steam Humidifier Section

Water Compressor Humidifier Section

Plate Heat Exchanger Section

Vertical Plate Heat Exchanger Section

Horizontal Plate Heat Exchanger Section

Rotary Heat Exchanger Section

Rotary Heat Exchanger Section

Silencer Section

Silencer Section

DAMPER

DAMPER

Type 1

Type 1

Type 1

Type 2

Type 1

Type 1

Type 1

Type 1

Type 1

Type 1

Type 1

Type 7

Type 2

Type 2

Type 1

Type 1

Type 1

Type 1

Type 2

Type 1

Type 1

Type 1

Type 2

Type 1

Type 1

Confirm Settings

Discard Settings

If you click on one of them, you can choose which kind of tamponage to use.  
In fact, you, already can see that for each sections, there are values 1, 2, 3... etc.

In fact, for example, if you click on "Tank" you may have 5 type of tank to choose from:

Wizard

External DLLs

Tamponage

Frame

Properties

Value

General

Feet

Basement

Tank

Filter Section

Cell Filter Section

Hard Bag Filter Section

Cell + Hard Bag Filter Section

Roll Filter Section

HEPA Filter Section

Activated Carbon Filter Section

Electrostatic rotative filter section

Soft Bag Filter Section

Coil Section

Cooling Coil Section

Fan Section

Centrifugal Fan Section

Plug Fan Section

Droplet Separator Section

Droplet Separator Section

Umidifier Section

Double Nozzle Humidifier Section

Double Pack Humidifier Section

Single Nozzle Humidifier Section

Single Pack Humidifier Section

Steam Humidifier Section

Water Compressor Humidifier Section

Plate Heat Exchanger Section

Vertical Plate Heat Exchanger Section

Horizontal Plate Heat Exchanger Section

Rotary Heat Exchanger Section

Rotary Heat Exchanger Section

Silencer Section

Silencer Section

DAMPER

DAMPER

Type 1

Type 1

Type 1

Tank 2

Type 2

Type 1

Type 1

Type 1

Type 1

Type 1

Type 1

Type 7

Type 2

Type 2

Type 1

Type 1

Type 1

Type 1

Type 2

Type 1

Type 1

Type 1

Type 2

Type 1

Type 1

Tank 1

Tank 2

Tank 3

Tank 5

Tank 6

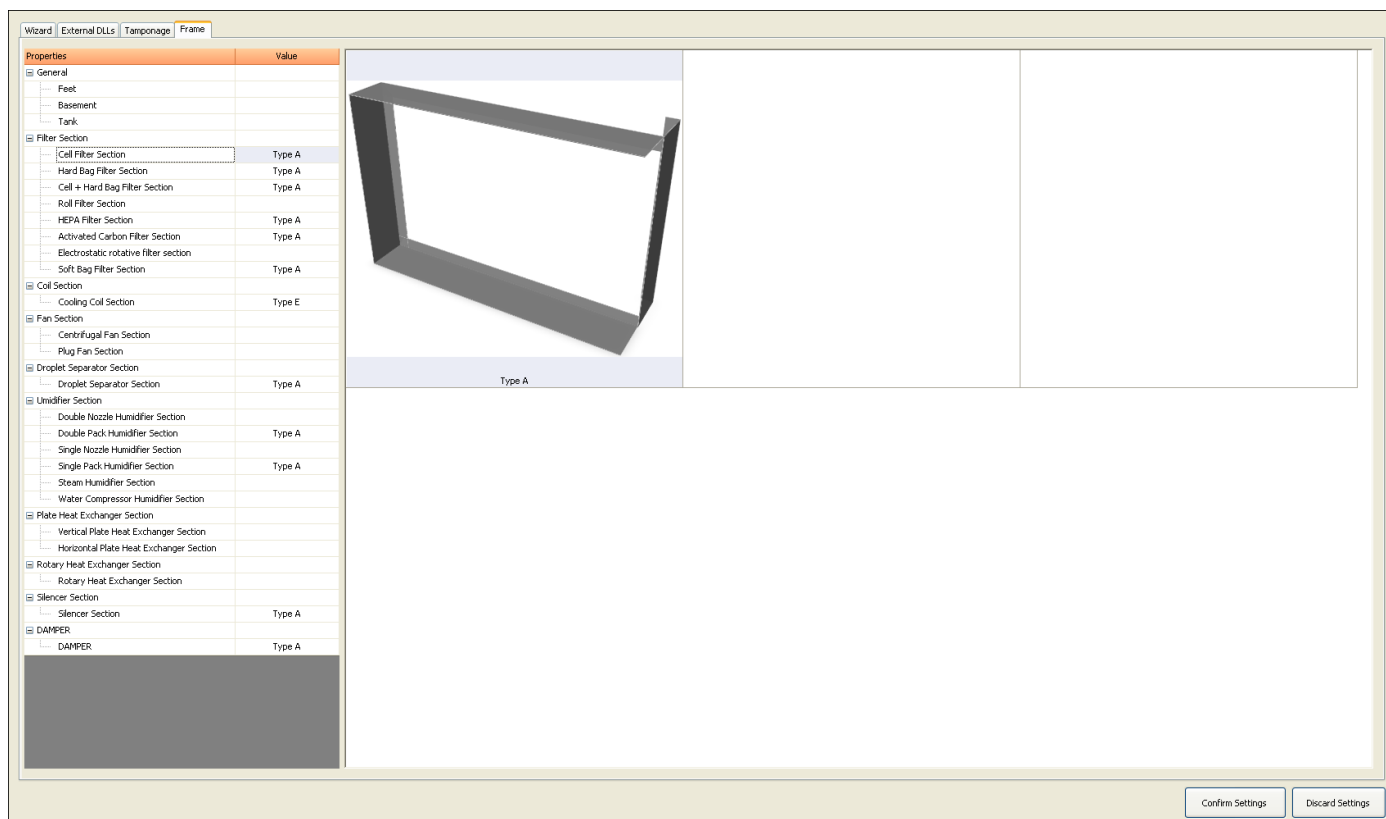
Tank 7

Confirm Settings

Discard Settings

Now you pass in the TAB "Frame" where you can choose the kind of frames to use in the selection software:

You can see that frames are divided for type of section. And you have several type of frames to choose from.




## II. 1 Logo management

In this section you can change Company data (always), Company Logo (once a time) and the background splash.

Company Name  
 Address  
 Phone / Fax  
 Web Site / Email

UNILAB S.r.l.  
 Via Nino Bixio 6,  
 049 8763311  
 www.unilab.eu production@unilab.eu

Logo  
 Background

Logo  
  
 INGEGNERIA DELLO SCAMBIO TERMICO

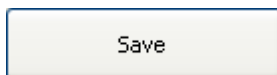
Change Logo  
☒ Temporary Logo  
☐ Definitive Logo

Save

At the top right of window, you can quit from management

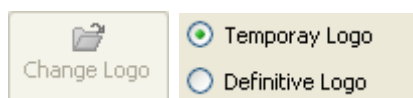


And on the bottom you can see the button



**Please remember always to save your work before leave the management.**

About logo:



If it's checked "Temporary Logo" you can change logo every time you want, but when you'll open the selection software it'll appear a message: "Temporary logo".

Instead if you click on "Definitive Logo" you can't no more change logo, but if you want to do it you've to contact UNILAB S.r.l.

About, instead, background:

Company Name

UNILAB S.r.l.

Address

Via Nino Bixio 6,

Phone / Fax

049 8763311


Web Site / Email

www.unilab.eu production@unilab.eu

Logo

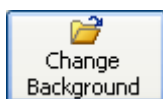
Background

Logo



Change Background

Save



you can change it every time you want.

## II. 2 Materials

In this section you can manage the materials used in the selection software.

Material Name	Enabled for Surface	Thickness [mm]	kg per m <sup>2</sup> [kg/m <sup>2</sup> ]	Price per m <sup>2</sup> [€/m <sup>2</sup> ]	Thermal Conductivity [W/(m·K)]
Stainless steel AISI 304 2B sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.71	13	
Stainless steel AISI 304 2B sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.28	13	
Stainless steel AISI 304 2B sp. 1.2/10	<input checked="" type="checkbox"/>	1	7.85		
Stainless steel AISI 304 2B sp. 1.2/10	<input checked="" type="checkbox"/>	1.2	9.42	13	
Stainless steel AISI 316 2B sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.71	13	
Stainless steel AISI 316 2B sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.28	13	
Stainless steel AISI 316 2B sp. 1.2/10	<input checked="" type="checkbox"/>	1	7.85	13	
Stainless steel AISI 316 2B sp. 1.2/10	<input checked="" type="checkbox"/>	1.2	9.42	13	
Stainless steel prep. plate sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.71	13	
Stainless steel prep. plate sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.28	13	
Galvanized steel sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.71	0	
Galvanized steel sp. 0.10	<input checked="" type="checkbox"/>	0.8	4.28	0	
Galvanized steel sp. 1.2/10	<input checked="" type="checkbox"/>	1.2	9.42	0	
Galvanized steel sp. 1.2/10	<input checked="" type="checkbox"/>	1.2	11.8	0	
Aluminum sp. 0.10	<input checked="" type="checkbox"/>	0.8	2.18	0	
Polyurethane sp. 25	<input checked="" type="checkbox"/>	25	1.2	0	
Polyurethane sp. 50	<input checked="" type="checkbox"/>	50	2.18	0	
Polyurethane sp. 63	<input checked="" type="checkbox"/>	63	2.58	0	
Rock wool sp. 25	<input checked="" type="checkbox"/>	25	0.5	0	
Rock wool sp. 40	<input checked="" type="checkbox"/>	40	4	0	
Rock wool sp. 50	<input checked="" type="checkbox"/>	50	5	0	
Rock wool sp. 63	<input checked="" type="checkbox"/>	63	6.5	0	
Polyurethane sp. 40	<input checked="" type="checkbox"/>	40	1.89	0	
Galvanized steel sp. 30/10	<input checked="" type="checkbox"/>	3	24	0	
Stainless Steel AISI 304 perforated sp. 10/10 20 KIP 30%	<input checked="" type="checkbox"/>	1	5	0	
Galvanized steel perforated sp. 10/10 20 KIP 30%	<input checked="" type="checkbox"/>	1	5	0	
Galvanized steel perforated sp. 10/10 20 KIP 40%	<input checked="" type="checkbox"/>	1	5	0	
Galvanized steel perforated sp. 10/10 20 KIP 40%	<input checked="" type="checkbox"/>	1	5	0	
Galvanized steel mesh coated sp. 10/10 20	<input checked="" type="checkbox"/>	1	5.3	0	
DOIMAC P2 sp. 25 mm. galvanized 0.5mm. PUA. galvanized 0.5mm. Density PUW-04g/mc	<input checked="" type="checkbox"/>	25	9.18	0	
DOIMAC P2 sp. 40.5 mm. galvanized 0.5mm. PUA. galvanized 0.5mm. Density PUW-04g/mc	<input checked="" type="checkbox"/>	40.5	10.05	0	
DOIMAC P2 sp. 25 mm. prepared AL. 0.5mm. PUA. galvanized AL. 0.5mm. Density PUW-04g/mc	<input checked="" type="checkbox"/>	25	9.18	0	
DOIMAC P2 sp. 40.5 mm. prepared AL. 0.5mm. PUA. galvanized AL. 0.5mm. Density PUW-04g/mc	<input checked="" type="checkbox"/>	40.5	10.05	0	
DOIMAC P2 sp. 25 mm. galvanized 0.5mm. PUA. galvanized 0.5mm. Density PUW-04g/mc	<input checked="" type="checkbox"/>	25	9.18	0	
DOIMAC P2 sp. 40.5 mm. galvanized 0.5mm. PUA. galvanized 0.5mm. Density PUW-04g/mc	<input checked="" type="checkbox"/>	40.5	10.05	0	

\* Please note: prices and costs have been deleted from the images for privacy reasons.

At the bottom of the window you find:

UNILAB S.r.l. – Via N. Bixio 6 – 35131 – Padova (PD) – Tel.: 049 8763311 – Fax: 049 8750196

www.unilab.eu – info@unilab.eu



with this button you can add a new material.



with this button you can delete an inserted material.



with this button you can save modifies.

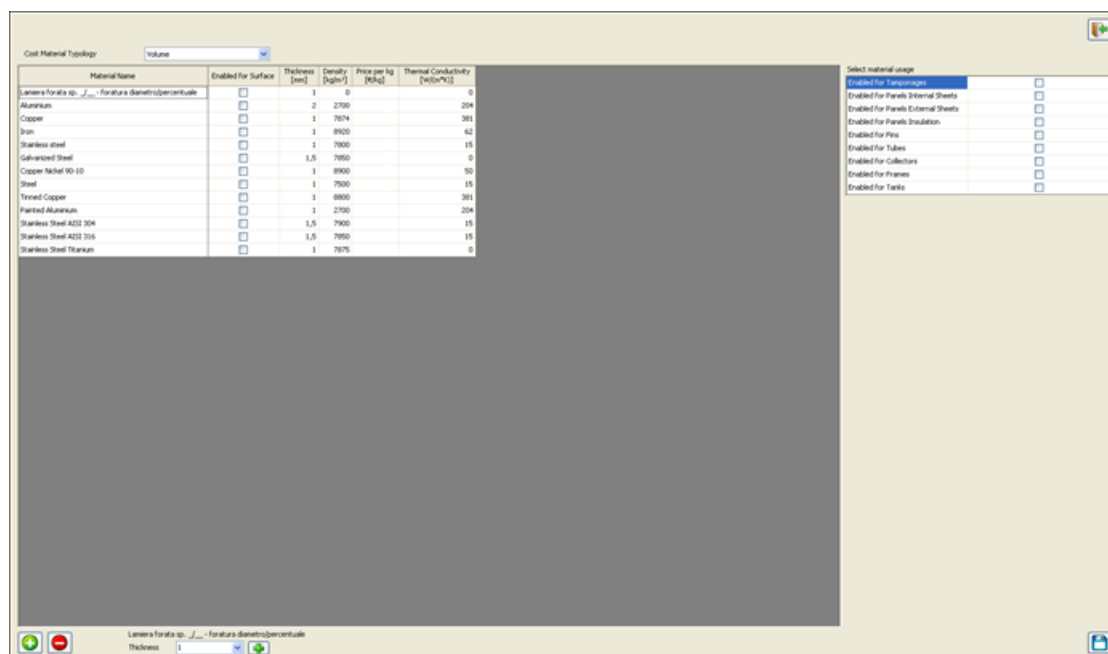
**Please remember always to save your work before leave the management.**

Surface

Surface

Volume

On the top of window, you can select if you want to calculate cost for surface or Volume. If you select "Volume" it will change the window. As you can see below:



**\* Please note: prices and costs have been deleted from the images for privacy reasons.**

Considering "Cost Material Typology": Surface these are the values to introduce:

Material Name	Enabled for Surface	Thickness [mm]	kg per m <sup>2</sup> [kg/m <sup>2</sup> ]	Price per m <sup>2</sup> [€/m <sup>2</sup> ]	Thermal Conductivity [W/(m*K)]
---------------	---------------------	----------------	--	--	--------------------------------

Material Name

It's a description of material.

Enabled for Surface

If you check this option, it means that you use this material with calculation with Surface.

Thickness [mm]

Material thickness in [mm].

kg per m<sup>2</sup> [kg/m<sup>2</sup>]

Since you're using a Surface calculation you've to introduce the weight on Surface.

Price per m<sup>2</sup>  
[€/m<sup>2</sup>]

Since you're using Surface calculation, you've to introduce the material price for Surface.

Thermal Conductivity  
[W/(m\*K)]

Thermal material conductivity in [W/mK].

Considering "Cost Material Typology": Volume, these are the values to introduce:

Material Name	Enabled for Surface	Thickness [mm]	Density [kg/m <sup>3</sup> ]	Price per kg [€/kg]	Thermal Conductivity [W/(m*K)]
---------------	---------------------	-------------------	---------------------------------	------------------------	-----------------------------------

Material Name

It's a description of material.

Thickness  
[mm]

Material thickness in [mm].

Density  
[kg/m<sup>3</sup>]

Since you're using a Volume calculation you've to introduce the material density.

Price per kg  
[€/kg]

Since you're using Volume calculation, you've to introduce the material price for weight.

Thermal Conductivity  
[W/(m\*K)]

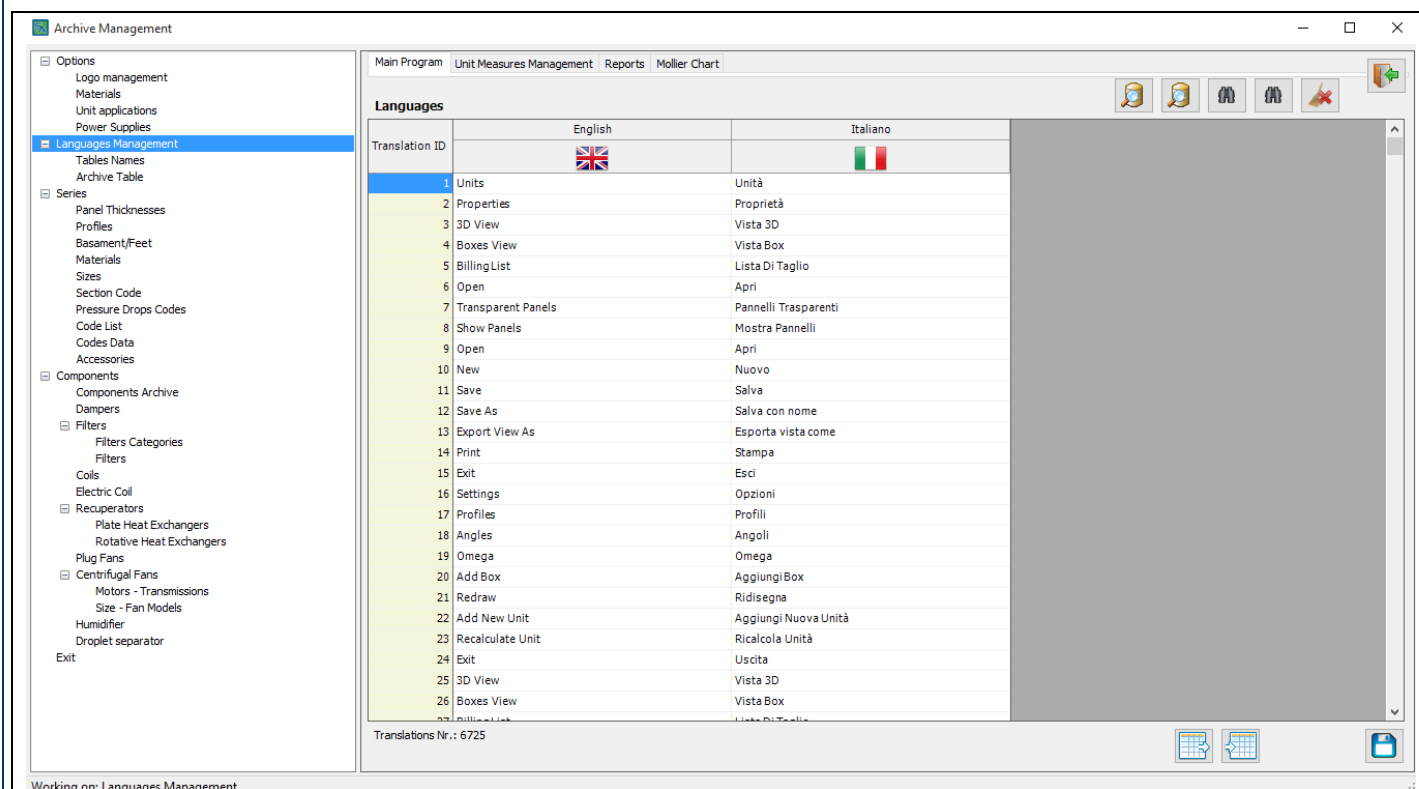
Thermal material conductivity in [W/mK].

Finally, on the right of the window you've to check the use of selected material.

Select material usage	
Enabled for Tamponages	<input type="checkbox"/>
Enabled for Panels Internal Sheets	<input checked="" type="checkbox"/>
Enabled for Panels External Sheets	<input checked="" type="checkbox"/>
Enabled for Panels Insulation	<input type="checkbox"/>
Enabled for Fins	<input type="checkbox"/>
Enabled for Tubes	<input type="checkbox"/>
Enabled for Collectors	<input type="checkbox"/>
Enabled for Frames	<input type="checkbox"/>
Enabled for Tanks	<input type="checkbox"/>

### III. Language Management

In this part, you can manage the words of the software.



with this button, you can search with the ID word



with this button, you can search text



with this button, you can clear research

At the bottom of the window you find:



this button let you to import an excel file;



this button let you to export an excel file;



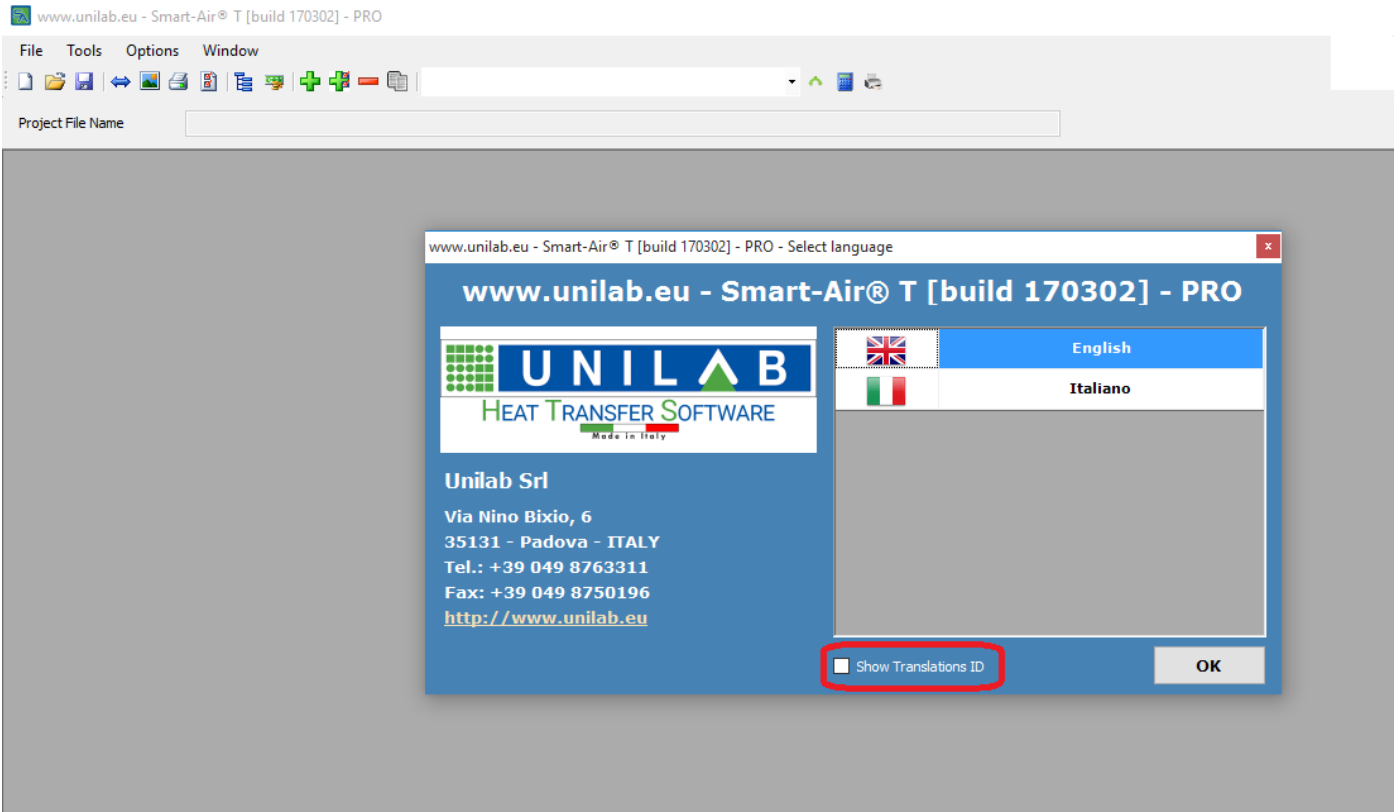
with this button, you can save modifies.



At the top right of window, you can quit from management

## III.1 ID language management

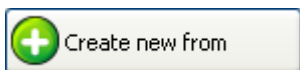
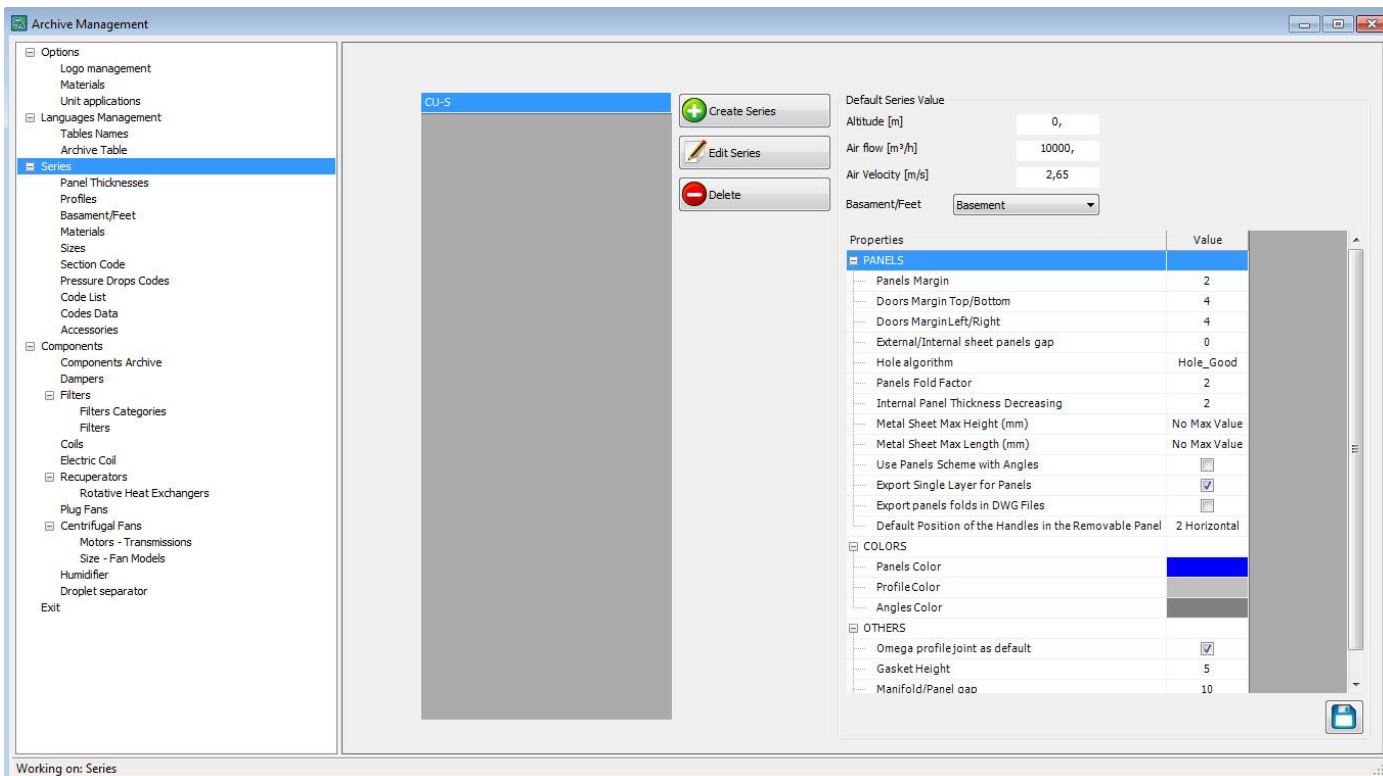
In order to find inside the software the ID for words, you need to enter in the menu "Change Language" and check "Show translation ID"



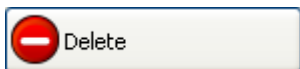
## IV. Series

Clicking on "Series" you can finally create your own machine series.

To help you in this work, there is always a default series in the Management, so you can see what kind of values are necessary.

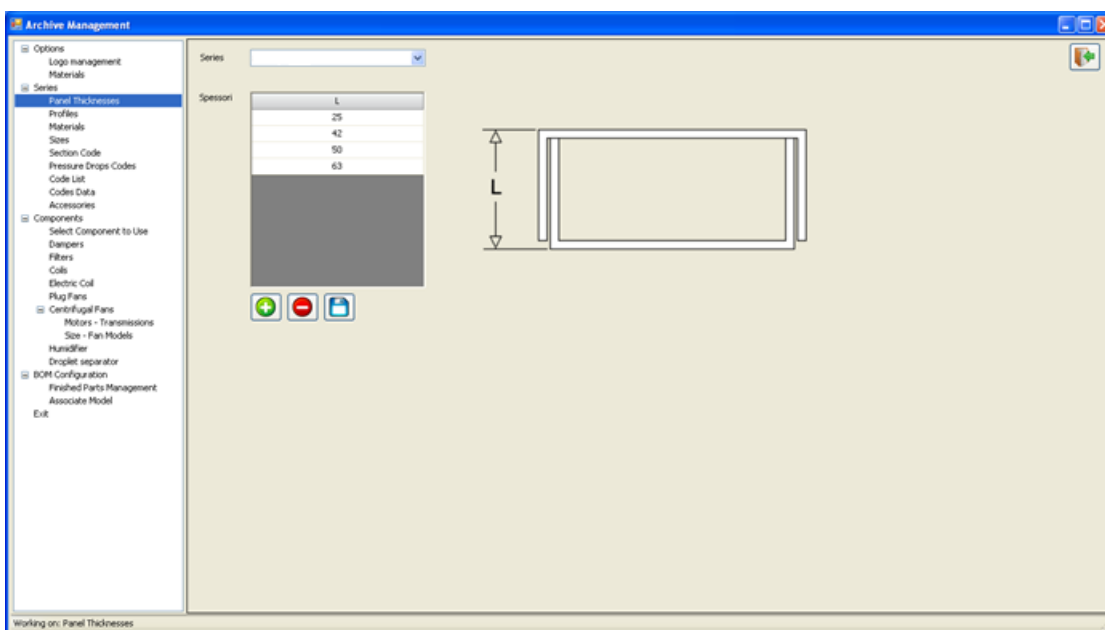


When you click on this button, software will duplicate the existing series.



If you click on this button, you'll delete the selected series.

## IV. 1 Panel Thickness



At the top right of window, you can quit from management



At the bottom of the window you find:



with this button you can add a new thickness.



with this button you can delete an inserted thickness.

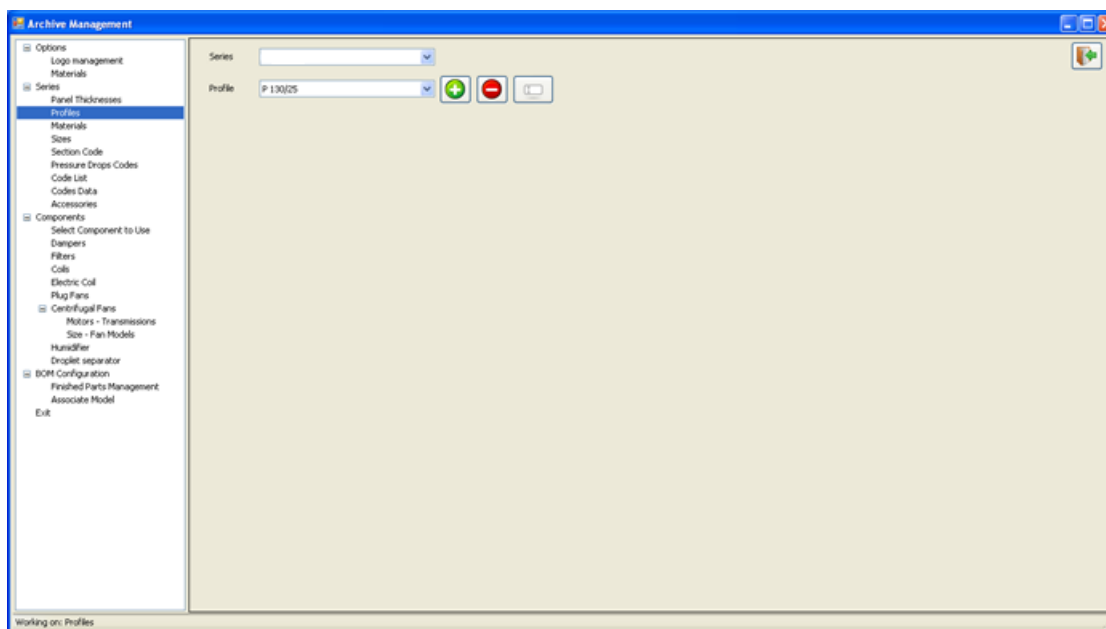


with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Besides, always in the middle of window you can see an illustrative image.

## IV. 2 Profiles



At the top right of window, you can quit from management

Series

here you can choose the serie to which add/delete/modify profiles.

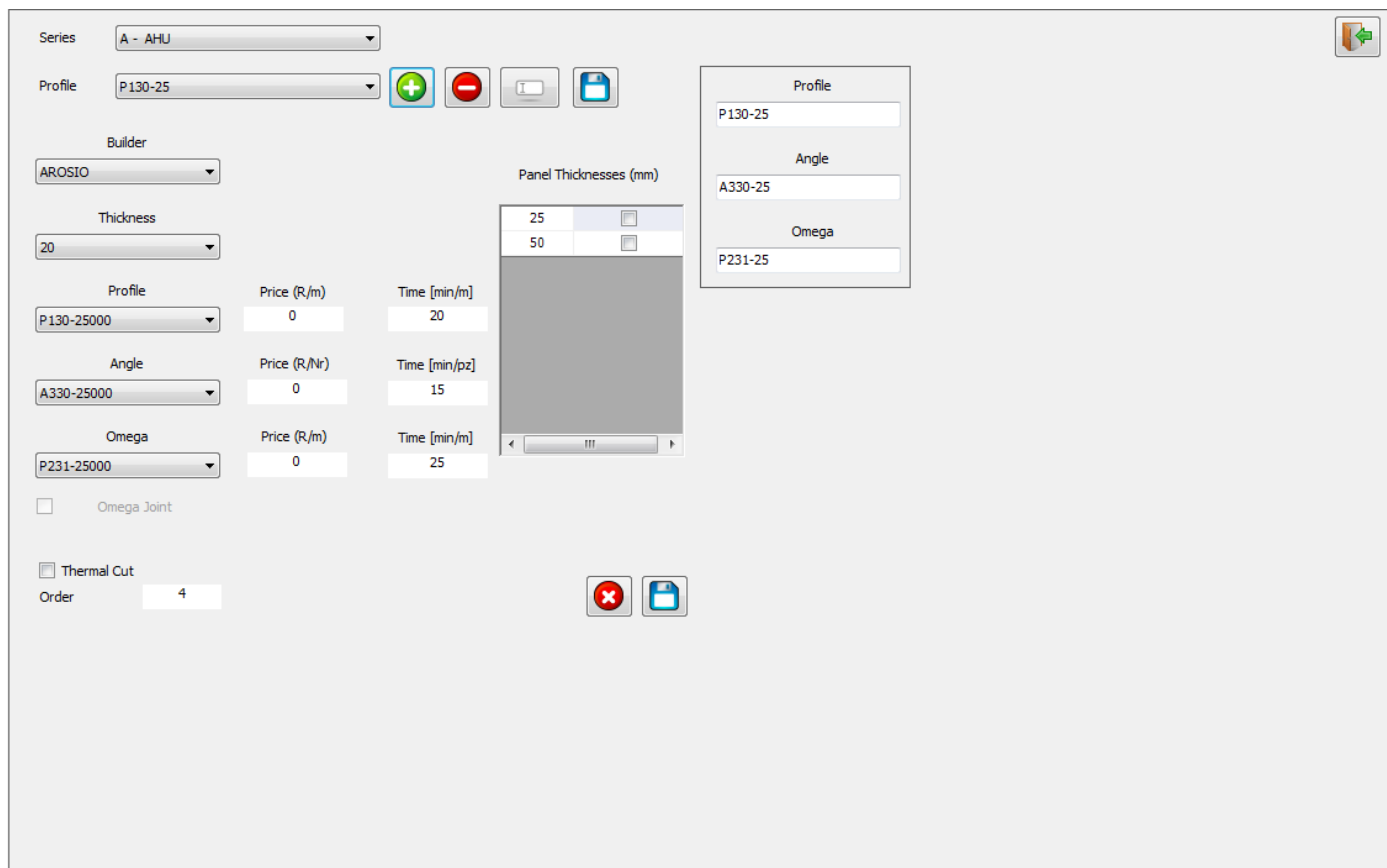
Profile

- P 130/25
- P 140/25
- S 1400/25-10 TB IR
- P 150/25
- P 160/45 IR TB

In this list you can see the possible profile, for the selected serie, you can choose to select the unit.



with this button you can add a new profile. If you click on it:



### Builder

PRO-LAM  
 STANDARD  
 AROSIO  
**PRO-LAM**

In this drop down menu you can choose the profile builder (Builders are uploaded into database by UNILAB S.r.l.)

### Thickness

40  
 20  
 30  
**40**  
 50  
 70

In this drop down menu you can choose the profile thickness (Thickness are uploaded into database by UNILAB S.r.l. and they are related to Builders)

### Profile

P140-20  
**P140-20**  
 S1400-25  
 P140-25-X316

In this drop down menu you can choose the profiles (Profiles are uploaded into database by UNILAB S.r.l. and they are related to Builders)

### Price (€/m)

0,

Next to the "Profile" you can find the related price. You can insert the price you want related to profile.

Angle

In this drop down menu you can choose the angle. (Angles are uploaded into database by UNILAB S.r.l. and they are related to Builders and profile thickness)

Price (€/Nr)

0,

Next to the "Angle" you can find the related price. You can insert the price you want related to angle.

Omega

In this drop down menu you can choose the Omega (Omega are uploaded into database by UNILAB S.r.l. and they are related to Builders)

Price (€/m)

0,

Next to the "Omega" you can find the related price. You can insert the price you want related to profile

Panel Thicknesses (mm)

25	<input type="checkbox"/>
42	<input type="checkbox"/>
50	<input type="checkbox"/>
63	<input type="checkbox"/>



After you've created the new profile, you've to associate it to Panel Thickness. You can check more than one Panel Thickness.

☐ Thermal Cut

If you check this option, the profile you've created will have Thermal cut.

Order

1,

: This option let you to choose the position on Profile into the Profile drop down menu.

Once you've finished you can:



delete the created profile.



or save created profile.

**Please remember always to save your work before leave the management.**



with this button you can delete an inserted profile from Profile drop down menu.



With this button you can edit information profiles. In fact if you click on this button:

Profile

P 130/25

Angle

N 30/25 T

Omega

P 231/25

it will appear this window where you can edit descriptions of profile characteristics.



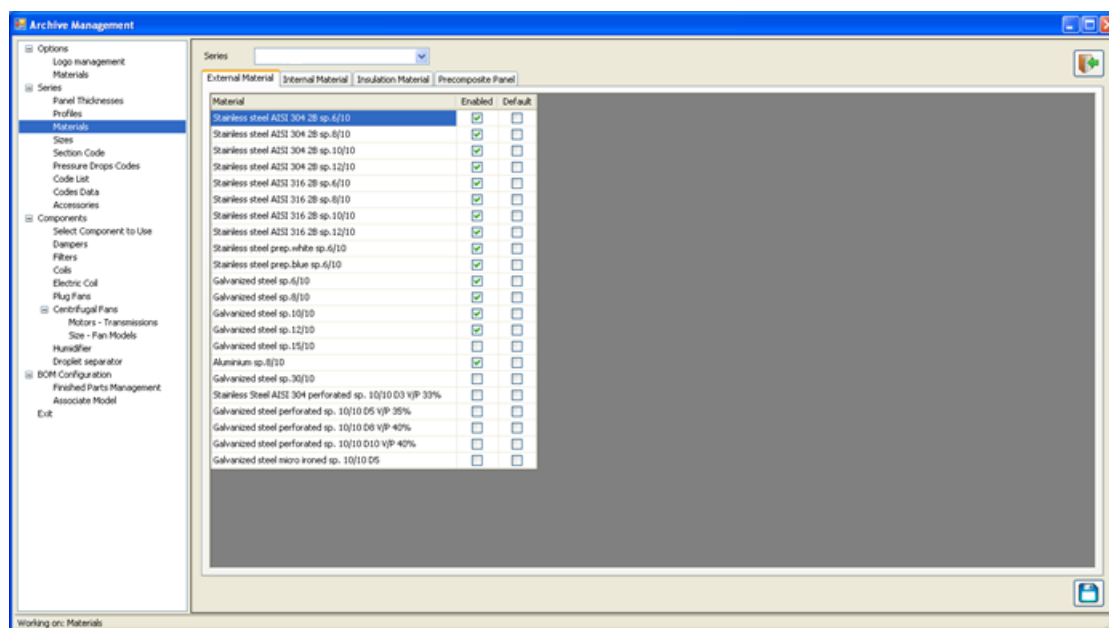
Finally, once you've modified, created profiles, please, remember always to:

### IV. 3 Materials

Do you remember that in the section Option -> Materials you've inserted all materials you want to use into the software? And do you remember that you've associated each material to a use?

Well here you can find all material you've associated to External, Internal, Insulation Panel Material and Precomposite Panel.

External Material Internal Material Insulation Material Precomposite Panel



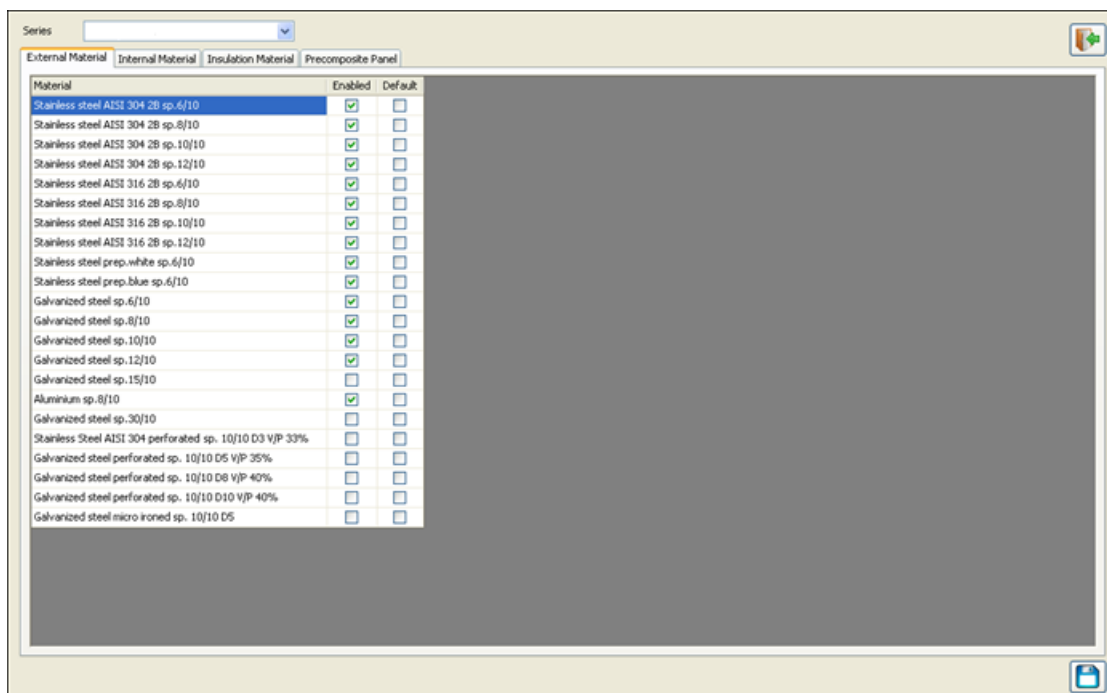
At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the serie.

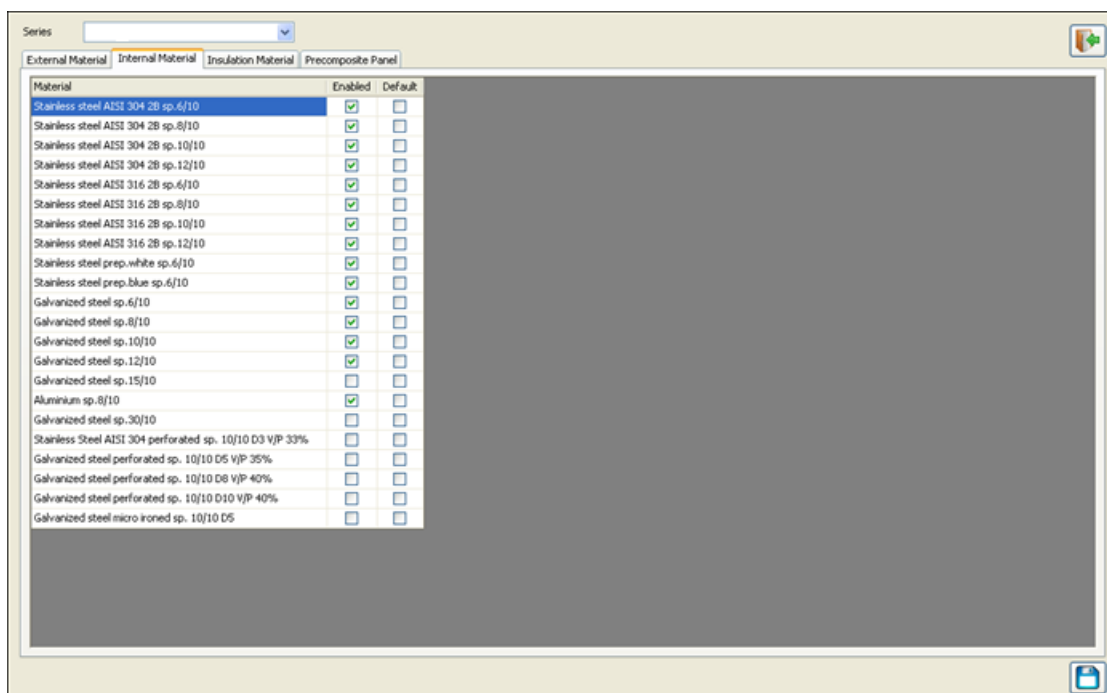


Material	Enabled	Default
Stainless steel AISI 304 2B sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 304 2B sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 304 2B sp.10/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 304 2B sp.12/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.10/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.12/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel prep.white sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel prep.blue sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.10/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.12/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.15/10	<input type="checkbox"/>	<input type="checkbox"/>
Aluminium sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.30/10	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel AISI 304 perforated sp. 10/10 D3 V/P 33%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel perforated sp. 10/10 D5 V/P 35%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel perforated sp. 10/10 D6 V/P 40%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel perforated sp. 10/10 D10 V/P 40%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel micro ironed sp. 10/10 D5	<input type="checkbox"/>	<input type="checkbox"/>

Here you can choose the External material.

**Enabled** If you check this option, it means that you find this material in the list of possible material used by Selection Software.

**Default** If you check this option, it means that this material is the Default material with which starts Selection Software. Obvious you can check only one material as Default.



Material	Enabled	Default
Stainless steel AISI 304 2B sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 304 2B sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 304 2B sp.10/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 304 2B sp.12/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.10/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel AISI 316 2B sp.12/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel prep.white sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel prep.blue sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.6/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.10/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.12/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.15/10	<input type="checkbox"/>	<input type="checkbox"/>
Aluminium sp.8/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Galvanized steel sp.30/10	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel AISI 304 perforated sp. 10/10 D3 V/P 33%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel perforated sp. 10/10 D5 V/P 35%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel perforated sp. 10/10 D6 V/P 40%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel perforated sp. 10/10 D10 V/P 40%	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel micro ironed sp. 10/10 D5	<input type="checkbox"/>	<input type="checkbox"/>

Here you can choose the Internal material.

**Enabled** If you check this option, it means that you find this material in the list of possible material used by Selection Software.

**Default** If you check this option, it means that this material is the Default material with which starts Selection Software. Obvious you can check only one material as Default.

External Material	Internal Material	Insulation Material	Precomposite Panel
Panel Thicknesses (mm)			
Material	TempoMQ	TempoML	25 [mm] 25 [mm] Default 42 [mm] 42 [mm] Default 50 [mm] 50 [mm] Default 63 [mm] 63 [mm] Default
Polyurethane sp.25	18	4,3	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Polyurethane sp.50	18	4,3	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Polyurethane sp.63	18	4,3	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Rock wool sp.25	18	6,6	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Rock wool sp.40	18	6,6	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Rock wool sp.50	18	6,6	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Rock wool sp.63	18	6,6	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Polyurethane sp.42			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOMAC P3 sp.25 mm: galvanized 0,5mm -PUR -galvanized 0,5mm. Density PUR=48kg/mc			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOMAC P3 sp.45,5 mm: galvanized 0,5mm -PUR -galvanized 0,5mm. Density PUR=42kg/mc			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOMAC P3 sp.25 mm: pre-painted Al. 0,5mm -PUR -pre-painted Al. 0,5mm. Density PUR=48kg/mc			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOMAC P3 sp.44,5 mm: pre-painted Al. 0,5mm -PUR -pre-painted Al. 0,5mm. Density PUR=42kg/mc			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOMAC P3 sp.25 mm: galvanized 0,5mm -PUR -pre-painted steel 0,5mm. Density PUR=47kg/mc			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOMAC P3 sp.45,5 mm: galvanized 0,5mm -PUR -pre-painted steel 0,5mm. Density PUR=44kg/mc			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Here you can check Insulation Material related to Panel Thickness.

25  
42  
50  
63

Choosing one or another panel thickness you can view only the columns with the chosen Panel Thicknesses

**Material** Here you can view the list of possible insulation material

**TempoMQ** Here you can input how many times take the material manufacturing per square meter.

**TempoML** Here you can input how many times take the material manufacturing per linear meter.

**25 [mm]** If you check this kind of option, you can create a panel with the possible insulation material checked. You can make more than one check in the columns.

**25 [mm] Default** . If you check this kind of option you can create a Default panel, with this insulation material, to view at starting of Selection software. You can make only one check in the columns.

External Material Internal Material Insulation Material Precomposite Panel

Panel Thicknesses (mm)

Material	25 [mm]	42 [mm]	50 [mm]	63 [mm]
Polyurethane sp.25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyurethane sp.50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyurethane sp.63	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rock wool sp.25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rock wool sp.40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rock wool sp.50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rock wool sp.63	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyurethane sp.42	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISOMAC P3 sp.25 mm: galvanized 0,5mm -PUR -galvanized 0,5mm. Density PUR=48kg/mc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISOMAC P3 sp.45,5 mm: galvanized 0,5mm -PUR -galvanized 0,5mm. Density PUR=42kg/mc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ISOMAC P3 sp.25 mm: prepainted Al. 0,5mm -PUR -prepainted Al. 0,5mm. Density PUR=48kg/mc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISOMAC P3 sp.44,5 mm: prepainted Al. 0,5mm -PUR -prepainted Al. 0,5mm. Density PUR=42kg/mc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ISOMAC P3 sp.25 mm: galvanized 0,5mm -PUR -prepainted steel 0,5mm. Density PUR=47kg/mc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISOMAC P3 sp.45,5 mm: galvanized 0,5mm -PUR -prepainted steel 0,5mm. Density PUR=44kg/mc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Here you can select the precomposite panels at changing of Panel thickness.

25  
42  
50  
63

Choosing one or another panel thickness you can view only the columns with the chosen Panel Thicknesses.

### IV.3.1 How to make sure that software calculates outside noise machine

Leads through the fan DLL we can calculate the internal noise of the machine, but to make sure you get the external one, we have to insert the sound absorption panels.

At the step Wizard Series - >> Materials -> Panel Noise Adsorption

External Material

Internal Material

Insulation Material

Precomposite Panel

Panel Noise Adsorption

Tamponages Material

Frame Material

Tanks Material

Basements / Feets Materials

Extra Parameters

Composite Panel

Precomposite Panel

External Material

Internal Material

Insulation Material

Aluminium sp. 10/10

Aluminium sp. 10/10

Polyurethane sp.50

Noise Adsorption

dB

63 Hz

125 Hz

250 Hz

500 Hz

1000 Hz

2000 Hz

4000 Hz

8000 Hz

3,

12,

20,

30,

27,

21,

23,

29,

Copy conf.

Paste conf.

If the panels used are manufactured within its own Company, then for each combination of material used for the panels must insert the sound absorption.  
Otherwise, if you use precomposed panels, the absorption should be inserted for each of them.

## IV. 4 Sizes

In this section, you can add for the selected Series sizes.

Options

Logo management

Materials

Unit applications

Languages Management

Series

Panel Thicknesses

Profiles

Basement/Feet

Materials

Sizes

Section Code

Pressure Drops Codes

Code List

Codes Data

Accessories

Components

Components Archive

Dampers

Filters

Filters Categories

Coils

Electric Coil

Recuperators

Rotative Heat Exchangers

Plug Fans

Centrifugal Fans

Motors - Transmissions

Size - Fan Models

Humidifier

Droplet separator

BOM Configuration

Finished Parts Management

Associate Model

Exit

Series

A - AHU

Sizes Data

Sizes Dimensions

Size / Panel material

Size / Basement

Swap All Profiles Ticks

Swap Ticks Selected Column

Swap Profiles Ticks Selected Row

Units inserted: 18

Size	Coil Width (mm)	Coil Height (mm)	Coils Nr.	Dampers Nr.	Feet	Profiles
						P130-25 P150-50
A-AHU 35	548	638	1	1	✓	✓
A-AHU 50	809	638	1	1	✓	✓
A-AHU 70	920	750	1	1	✓	✓
A-AHU 85	1160	750	1	1	✓	✓
A-AHU 100	1387	750	1	1	✓	✓
A-AHU 140	1150	1200	1	1	✓	✓
A-AHU 175	1440	1200	1	1	✓	✓
A-AHU 210	1733	1200	1	1	✓	✓
A-AHU 240	2016	1200	1	1	✓	✓
A-AHU 280	2329	1200	1	1	✓	✓
A-AHU 310	1804	825	2	1	✓	✓
A-AHU 350	2106	825	2	2	✓	✓
A-AHU 410	2407	825	2	2	✓	✓
A-AHU 470	2709	825	2	2	✓	✓
A-AHU 520	3010	825	2	2	✓	✓
A-AHU 550	2465	1125	2	2	✓	✓
A-AHU 630	2770	1125	2	2	✓	✓
A-AHU 700	3075	1125	2	2	✓	✓



At the top right of window, you can quit from management

At the bottom of the window you find:



with this button you can add a new size.



with this button you can delete an inserted size.



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series

here you can choose the serie.



If you click on this button, you can change the series name.

Swap All Profiles Ticks

This button let you to uncheck all profiles.

Swap Ticks Selected Column

This button let you to uncheck all profiles from the selected column.

Swap Profiles Ticks Selected Row

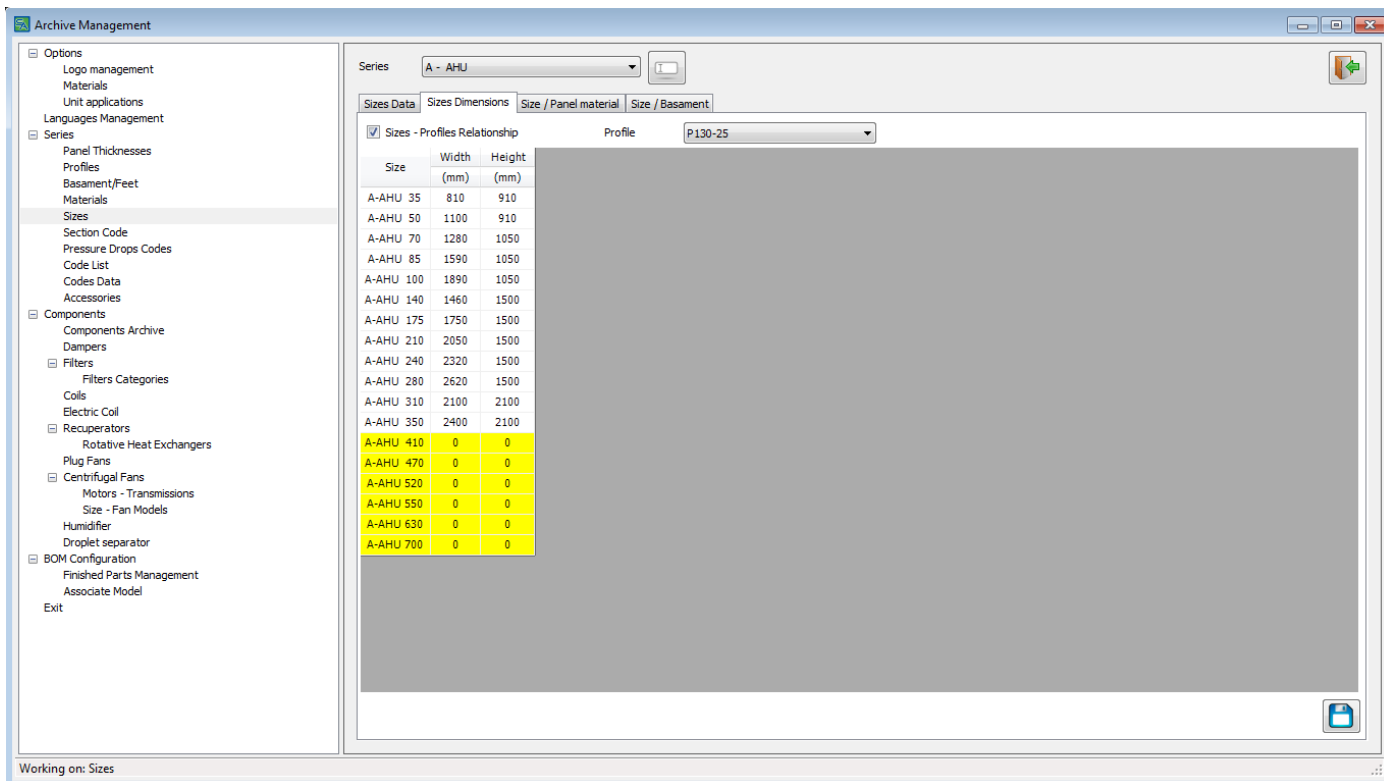
This button let you to uncheck all profiles from the selected row.



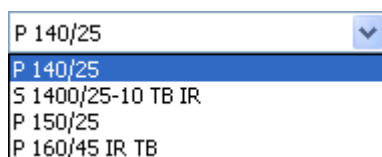
This button let you to move up the selected size.



This button let you to move down the selected size.



In the section "Sizes Dimensions" you've to input the external dimensions for each size, related to the chosen profile.



Possible profiles.

In Size/Panel material if you want to associate for each size different panel material, you can do it there. The difference in Series -> Materials is that in this section the material is always the same for each size.

Series
A - AHU

Sizes Data

Sizes Dimensions

Size / Panel material

Size / Basement

Size List

A-AHU 35  
A-AHU 50  
A-AHU 70  
A-AHU 85  
A-AHU 100  
A-AHU 140  
A-AHU 175  
A-AHU 210  
A-AHU 240  
A-AHU 280  
A-AHU 310  
A-AHU 350  
A-AHU 410  
A-AHU 470  
A-AHU 520  
A-AHU 550  
A-AHU 630  
A-AHU 700

External Material

Material	Enabled	Default
galvanized sheet sp15/10	<input type="checkbox"/>	<input type="checkbox"/>
galvanized sheet sp20/10	<input type="checkbox"/>	<input type="checkbox"/>
stainless steel sheet AISI 304 sp.15/10	<input type="checkbox"/>	<input type="checkbox"/>
stainless steel sheet AISI 304 sp.20/10	<input type="checkbox"/>	<input type="checkbox"/>

Internal Material

Material	Enabled	Default
galvanized sheet sp.6/10	<input type="checkbox"/>	<input type="checkbox"/>
galvanized sheet sp.10/10	<input type="checkbox"/>	<input type="checkbox"/>
stainless steel sheet AISI 304 sp.10/10	<input type="checkbox"/>	<input type="checkbox"/>

In Size/Basement you associate to different sizes or Feet or Base steel.

The difference with the section Series -> Basement/Feet is that there you associate to all unit size or basement or feet.

## IV. 5 Section Code

Options

Log management

Materials

Series

Panel Thicknesses

Materials

Series

Section Code

Pressure Drop Codes

Code List

Code Data

Accessories

Components

Select Component to Use

Components

Filters

Cells

Electric Cell

Plug/Fans

Centrifugal Fans

Rotors - Transmissions

San - Heat Exchangers

Humidifier

Drum separator

Boiler Configuration

Pressure/Temp Management

Accessories Model

Exit

Series

Section Code

Description

Code

Camera di miscela

39

Valvola

39

Antenna

39

Verduttore

39

Unidificatore

39

Separatore di gas

39

Sezione matita

39

Recupero a Flusso Invertito

39

Recupero a Flusso Invertito

39

Cella

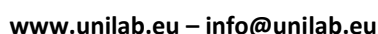
39

Lampada gemella

39

Profilo

39



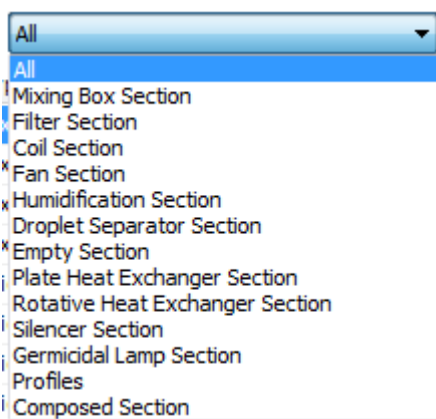
**Section** It's a description of the Section type.

**Enabled** If you check this option, you'll have the section in the software selection.

**Description** It's a description of the Section type and it's editable.

**Height Not Standard** If you check this option it means that if you have a Unit with two floors, the second floor has not the same height of the first one.

**Master Code** It's the code to identify the single image of each kind of section.



If you select one of this filter, you can view only the selected kind of section.

## IV. 6 Pressure Drops Codes

Archive Management

Options  
Logo management  
Materials  
Series  
Panel Thicknesses  
Profiles  
Base/Feet  
Materials  
Sizes  
Section Code  
**Pressure Drops Codes**  
Code List  
Codes Data  
Accessories  
Components  
Components Archive  
Dampers  
Filters  
Coils  
Electric Heater Bank  
Plug Fans  
Centrifugal Fans  
Motors - Transmissions  
Size - Fan Models  
Humidifier  
Droplet separator  
BOM Configuration  
Finished Parts Management  
Associate Model  
Exit

Series: A - AHU  
Pressure Drops Type: Project

Code	Description	PD 1 (Pa)	PD 2 (Pa)	PD 3 (Pa)	PD 4 (Pa)	PD 5 (Pa)	PD 6 (Pa)	Vel. 1 (m/s)	Vel. 2 (m/s)	Vel. 3 (m/s)	Vel. 4 (m/s)	Vel. 5 (m/s)	Vel. 6 (m/s)
PDCHE	Electric Heater Bank	3	3	4	4	5	5	1.5	2	2.5	3	3.5	4
PDCSER	Damper	2	4	8	16	32	64	1.5	2	2.5	3	3.5	4
PDCSP	Droplet Separator	28.62	49.39	76.94	111.27	152.39	200.29	1.5	2	2.5	3	3.5	4
PDCUGELLI	Nozzle Humidifier	3	3	5	6	6	7	1.5	2	2.5	3	3.5	4
PDCUMP100	Pack Humidifier - 100 mm	17	30	48	82	117.91	164.62	1.5	2	2.5	3	3.5	4
PDCUMP150	Pack Humidifier - 150 mm	25	43	72	120	174.6	243.92	1.5	2	2.5	3	3.5	4
PDCUMP200	Pack Humidifier - 200 mm	35	58	100	165	242.19	338.83	1.5	2	2.5	3	3.5	4

Working on: Pressure Drops Codes



At the top right of window, you can quit from management

At the bottom of the window you find:



with this button you can add a new pressure drops.



with this button you can delete an inserted pressure drops.



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series

here you can choose the series.

Project

Project

Clean

Dirty

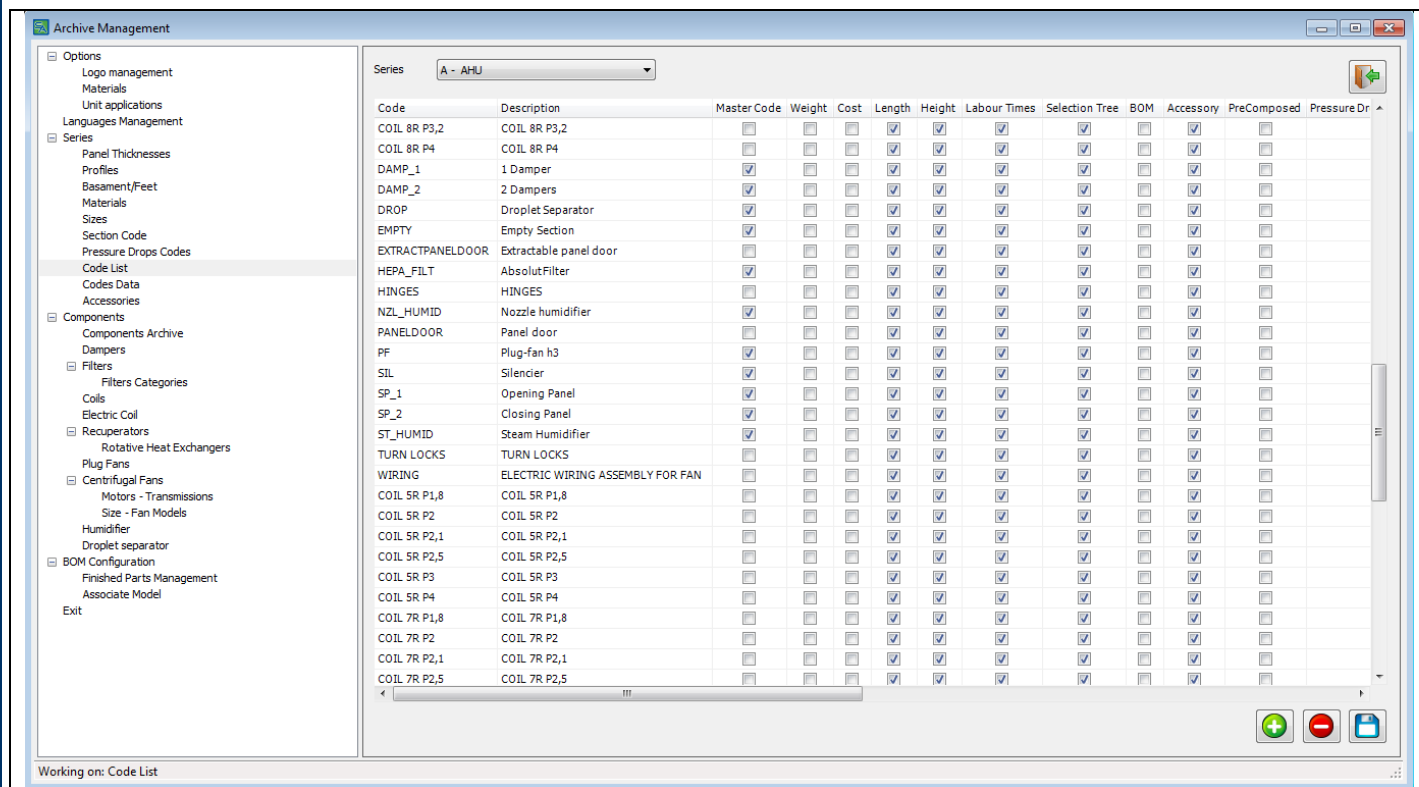
Here you can select the type of pressure drops you want to input.

**Code** : if you inset a new pressure drops, you have to input how you want to call this pressure drops.

**Description** : the description of the pressure drops.

PD 1 (Pa) PD 2 (Pa) PD 3 (Pa) PD 4 (Pa) PD 5 (Pa) PD 6 (Pa) you have to insert a pressure drops for each fluid velocity, which can you insert in this fields: Vel. 1 (m/s) Vel. 2 (m/s) Vel. 3 (m/s) Vel. 4 (m/s) Vel. 5 (m/s) Vel. 6 (m/s)

## IV. 7 Code List



At the top right of window, you can quit from management



At the bottom of the window you find:



with this button you can add a new pressure drops.



with this button you can delete an inserted pressure drops.



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.

**Code** You've the list of code for sections (see at "Section Code" -> Sections) and everything else you want to become a code (as for example filter - down, doors, etc.)

**Description** Code description

**Master Code** You've to check this option if you want that the code becomes a Master Code; Master Code are the section images of Selection software.

**Weight** You've to check this option if you want that in the table Weight (Codes Data -> Weight) you want to input the weight for this section.

**Cost** You've to check this option if you want that in the table Prices (Codes Data -> Prices) you want to input the cost for this section.

**Length** You've to check this option if you want that in the table Length (Codes Data -> Lengths) you want to input the Length for this section.

**Height** You've to check this option if you want that in the table Height (Codes Data -> Heights) you want to input the height for this section.

**Labour Times** You've to check this option if you want that in the table Labour Time (Codes Data -> Labour Time) you want to input the Labour Time for this section.

**Selection Tree** You've to check this option if you want that this section is visible in the table of Tree Creation.

**BOM** You've to check this option if you want that in the table BOM (BOM Configuration -> Associate Model) you want to obtain the BOM for this code.

**Accessory** You've to check this option if you want that in the table Accessories (Series -> Accessories) you want to become an accessory.

**Pressure Drops Code** you can associate to this code a pressure drops, created in the section Series - Pressure Drops Codes

**Price per m<sup>2</sup>** if you check this, then in the section Series -> Codes Data -> Prices you can insert the section price per m2 instead of the total price.

**Code for Panel Door** you need to check it only for code PANELDOOR

**Code for Extractable Panel** you need to check it only for code EXTRACTPANELDOOR

**Unitary Data** if you check this option you need to insert only one data (length or price or weight, etc., according to the other checks) for this component. It means that you don't have to insert as many data as the number of units.

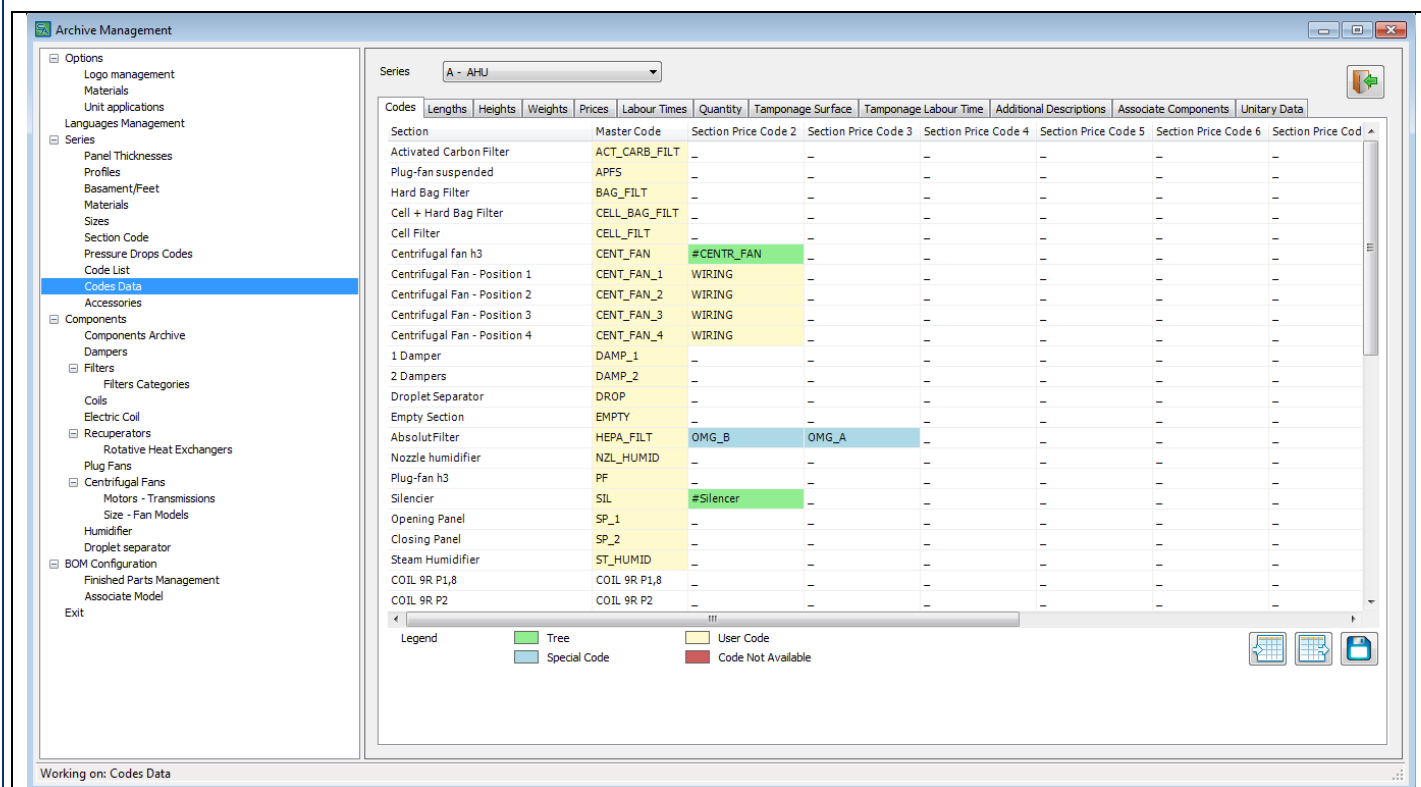
**Global Accessory** if you check this one, you need to check also "Accessory".  
In any case if you check it, the accessory will be added to the management mask of each section. SO you will have the possibility to check or not it for each section.

**Unit Accessory** if you check this one, you need to check also "Accessory".  
If you check it, you will be able to add this accessory to the Unit and not to one section. Beside you can choose it when you want to print the offer.

**Code for Tank** you need to check it only for code "TANK"

**Not consider filterframe** if you check it any data related to the filter frame (price, weight, etc.) will not be considered in the filter section.

## IV. 8 Codes Data



Working on: Codes Data

At the bottom of the window you find:



this button let you to import an excel file;



this button let you to export an excel file;



with this button you can save modifies.

Legend

Tree

User Code

Special Code

Code Not Available

A legend to understand better the file.



At the top right of window, you can quit from management

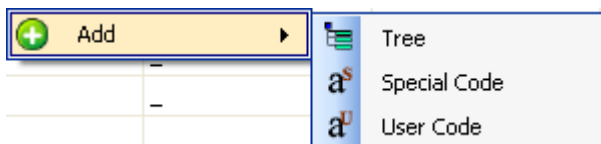
Series

here you can choose the series.

## IV. 8.1 Codes

In this section you've the MASTER CODE that you've selected in the Code List, and several options with different colours.

To obtain this option you've to do right - click on a cell and:



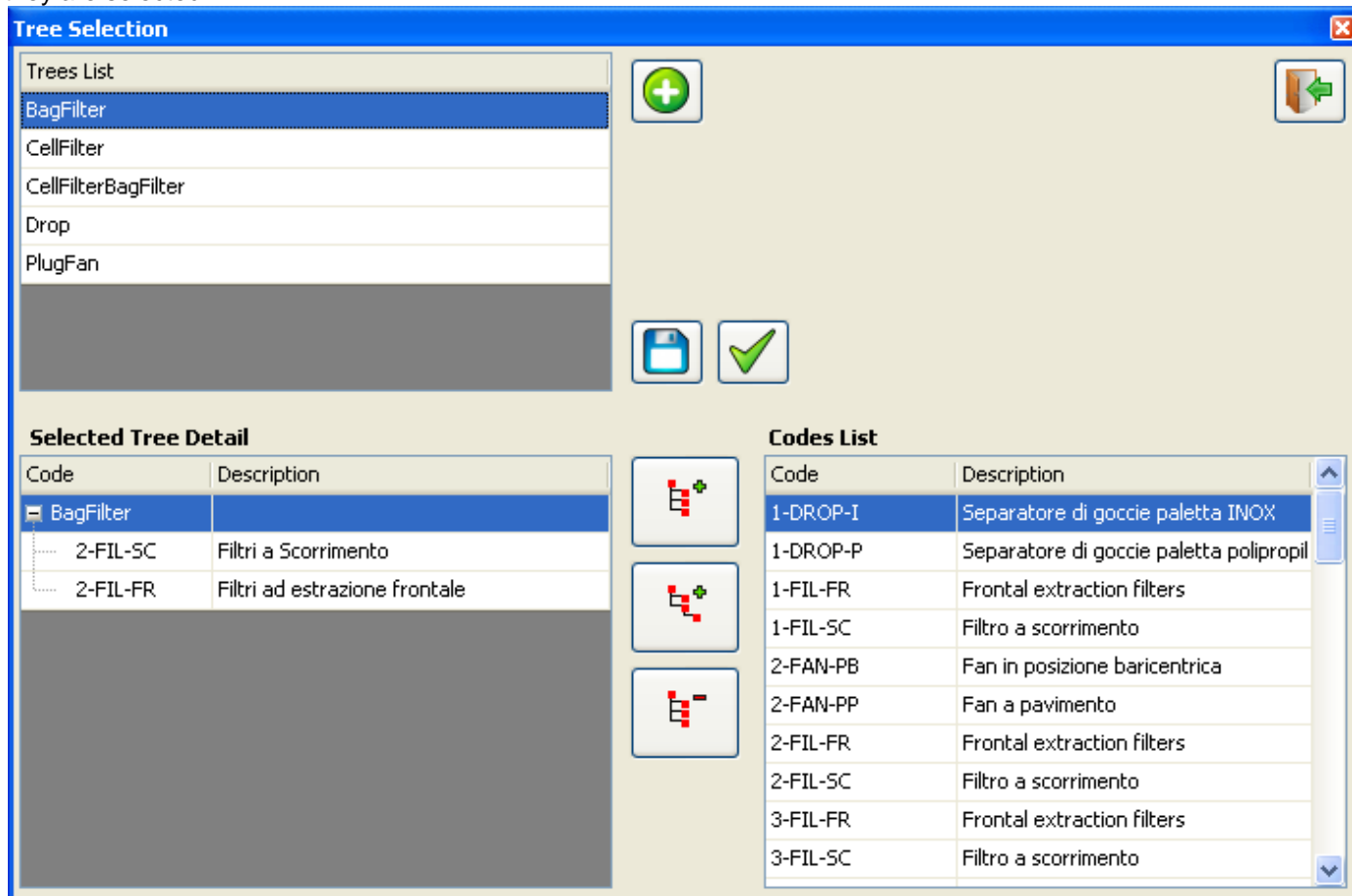
So you've 3 possibilities:

- 1) Create a Tree;
- 2) Insert a Special Code;
- 3) Insert a User Code;

Special Code and User Code are codes of same nature.

### Let's start from TREE CREATION:

Tree creation means that when you use a section (image) you can see the option which are in the tree branches, if they are selected.



**Trees List**

BagFilter
CellFilter
CellFilterBagFilter
Drop
PlugFan

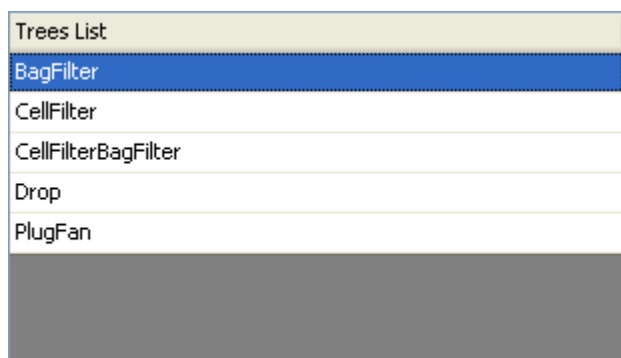
**Selected Tree Detail**

Code	Description
BagFilter	
2-FIL-SC	Filtri a Scorrimento
2-FIL-FR	Filtri ad estrazione frontale

**Codes List**

Code	Description
1-DROP-I	Separatore di gocce paletta INOX
1-DROP-P	Separatore di gocce paletta polipropil
1-FIL-FR	Frontal extraction filters
1-FIL-SC	Filtro a scorrimento
2-FAN-PB	Fan in posizione baricentrica
2-FAN-PP	Fan a pavimento
2-FIL-FR	Frontal extraction filters
2-FIL-SC	Filtro a scorrimento
3-FIL-FR	Frontal extraction filters
3-FIL-SC	Filtro a scorrimento

This is the main page of tree list.



**Trees List**

BagFilter
CellFilter
CellFilterBagFilter
Drop
PlugFan

This is the possible trees list to whom add branches.



with this button you can add a new tree.



with this button you can save modifies.



with this button you can quit from the window, saving modifies.



At the top right of window, you can quit from management

Selected Tree Detail	
Code	Description
BagFilter	
2-FIL-SC	Filtri a Scorrimento
2-FIL-FR	Filtri ad estrazione frontale

Here you can add branches to the tree or delete them.



Here you can add branches;



With this button you can add branches to branches;

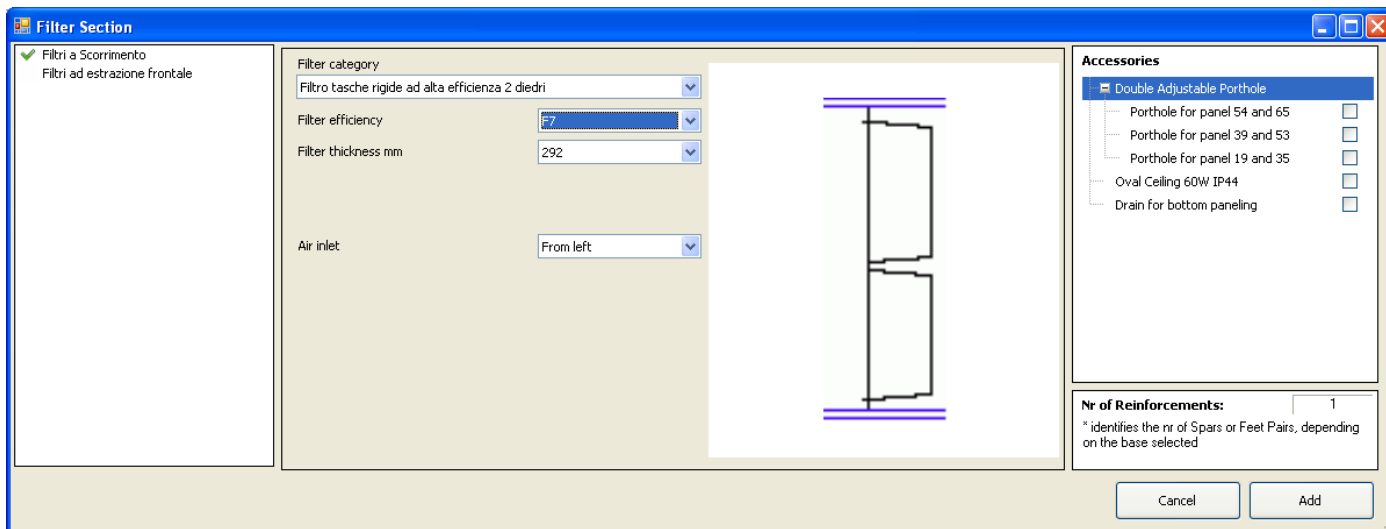


With this button you can delete branches.

Codes List	
Code	Description
1-DROP-I	Separatore di gocce paletta INOX
1-DROP-P	Separatore di gocce paletta polipropil
1-FIL-FR	Frontal extraction filters
1-FIL-SC	Filtro a scorrimento
2-FAN-PB	Fan in posizione baricentrica
2-FAN-PP	Fan a pavimento
2-FIL-FR	Frontal extraction filters
2-FIL-SC	Filtro a scorrimento
3-FIL-FR	Frontal extraction filters
3-FIL-SC	Filtro a scorrimento

Here you can see the list of possible branches you can add. You can notice that are the same code of Series -> Code List BUT they are not Master Code.

To see the result of a Bag Filter tree, in the selection software, is the follow:



**Filter Section**

☒ Filtri a Scorrimento  
☐ Filtri ad estrazione frontale

Filter category: Filtro tasche rigide ad alta efficienza 2 diedri  
 Filter efficiency: F7  
 Filter thickness mm: 292  
 Air inlet: From left

**Accessories**

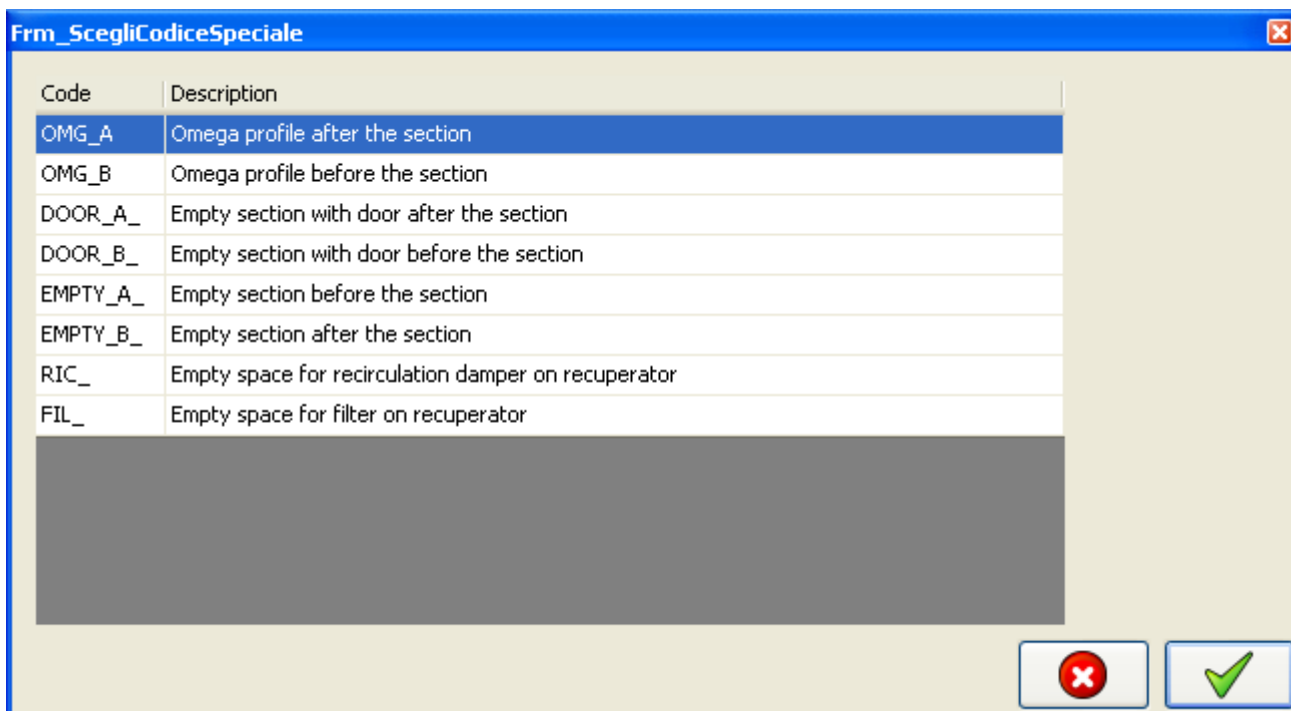
☒ Double Adjustable Porthole  
☐ Porthole for panel 54 and 65  
☐ Porthole for panel 39 and 53  
☐ Porthole for panel 19 and 35  
☐ Oval Ceiling 60W IP44  
☐ Drain for bottom paneling

**Nr of Reinforcements:** 1  
\* identifies the nr of Spars or Feet Pairs, depending on the base selected

On the left you can see the two options (branches) of the Bag Filter (tree)

### INSERT A SPECIAL CODE

Clicking on Special Code, it appear this window:



**Frm\_ScegliCodiceSpeciale**

Code	Description
OMG_A	Omega profile after the section
OMG_B	Omega profile before the section
DOOR_A_	Empty section with door after the section
DOOR_B_	Empty section with door before the section
EMPTY_A_	Empty section before the section
EMPTY_B_	Empty section after the section
RIC_	Empty space for recirculation damper on recuperator
FIL_	Empty space for filter on recuperator



with this button you can quit without saving.

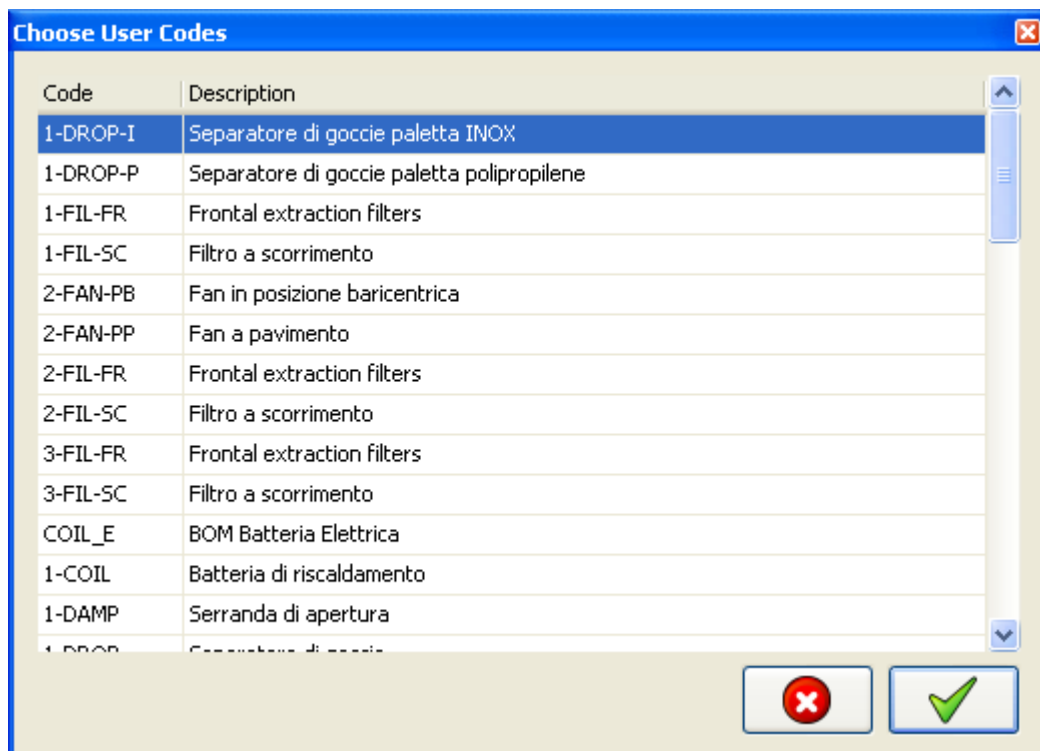


with this button you can quit from the window, saving modifies.

This codes have been inserted by UNILAB S.r.l. into the database.

### INSERT AN USER CODE

Clicking on User Code, it appear this window:



with this button you can quit without saving.



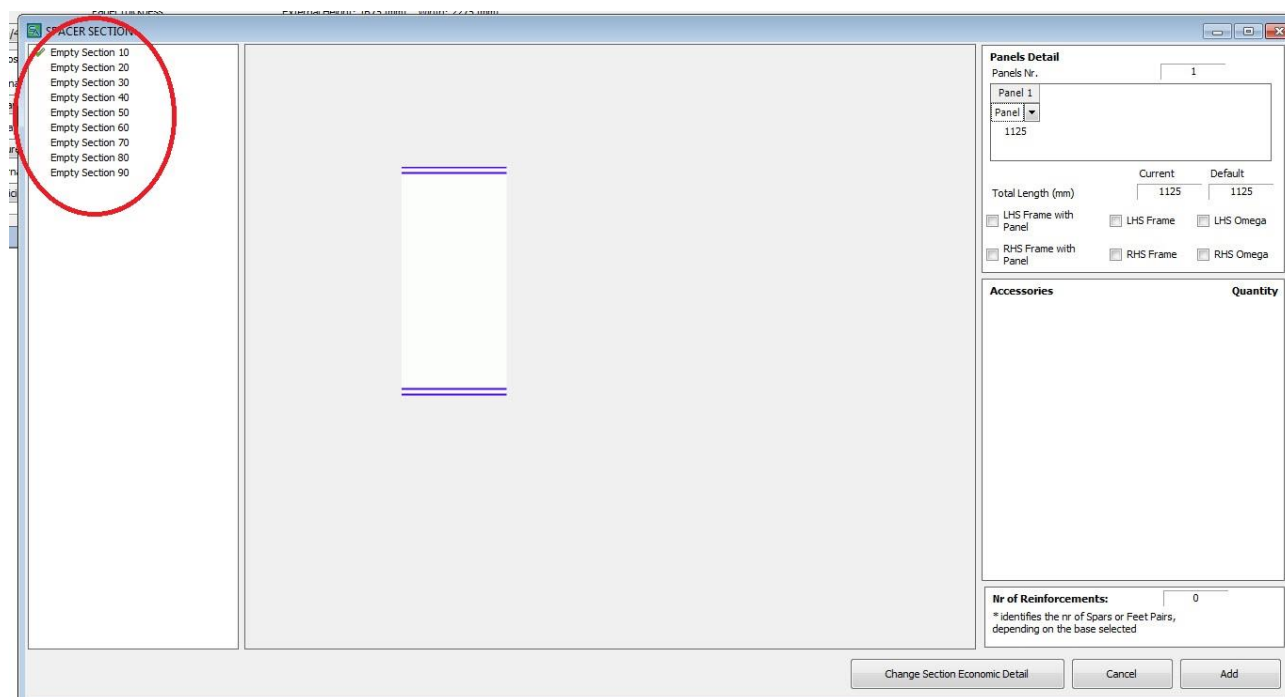
with this button you can quit from the window, saving modifies.

You've inserted these codes into Code List and they are not Master Codes.

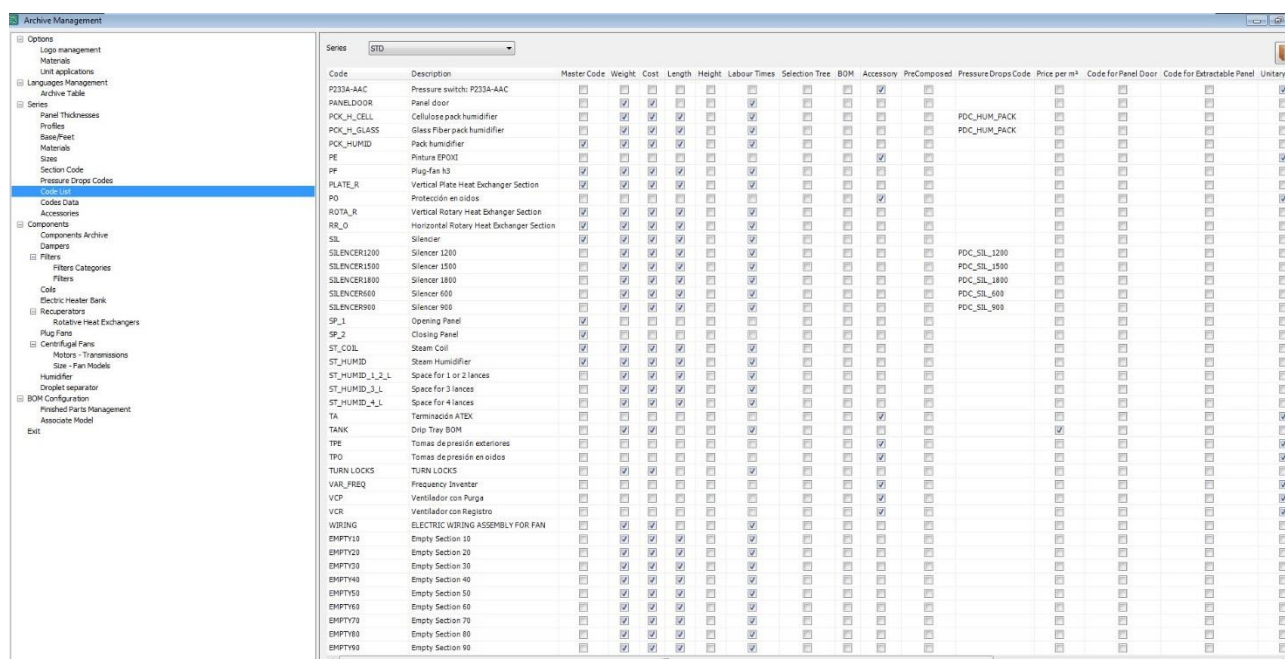
#### IV. 8.1.1 Trick: How to create a tree inside the selection masks

Practical Sample: we have a number of blank section prefatte, that have different lengths. And we want to choose one over the 'other when we introduce the image of the blank section.

We want to select this section blank from a tree and that, therefore, the mask is configured as in 'image below.



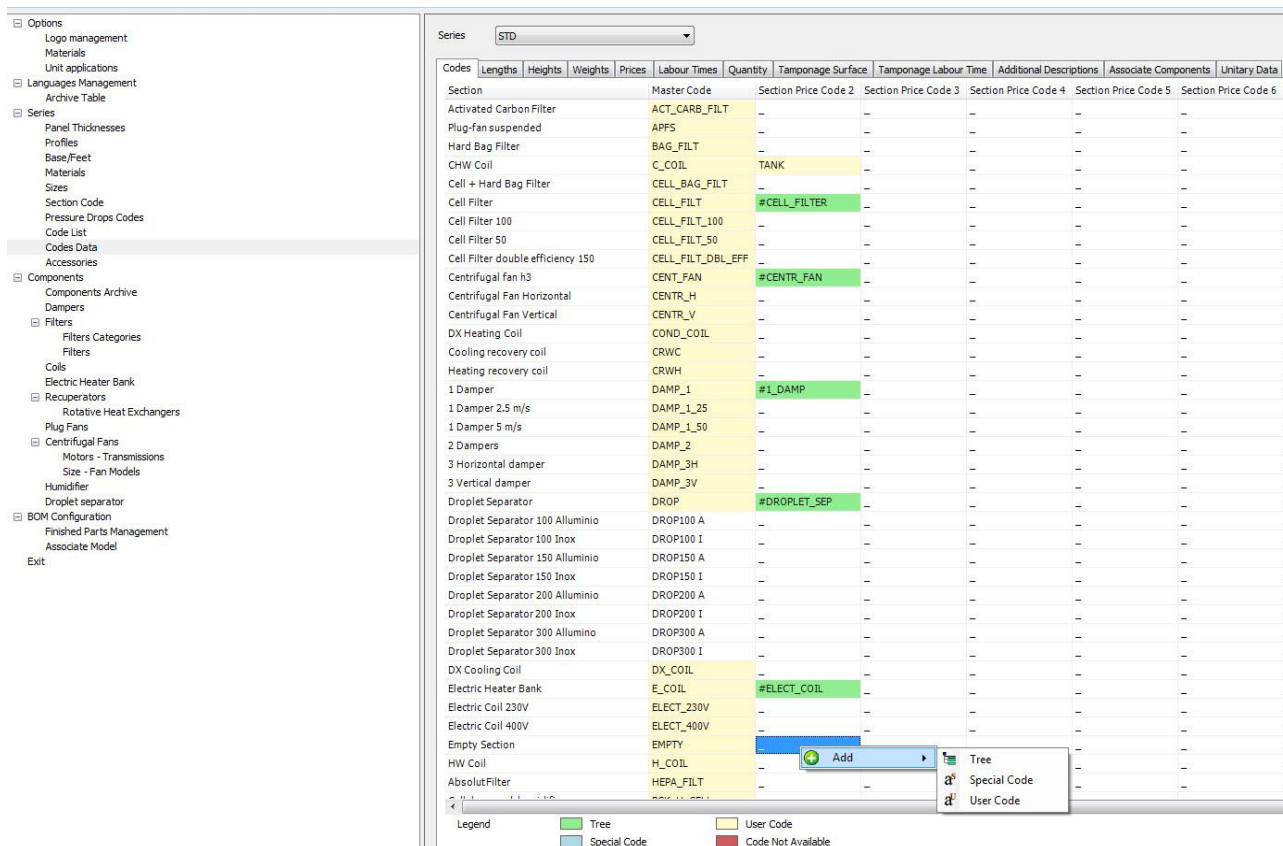
It must, first, introduce a code corresponding to each length, in the following form:



Code	Description	Master Code	Weight	Cost	Length	Height	Labour Times	Selection Tree	BOM	Accessory	PreComposed	Pressure Drops Code	Price per m²	Code for Panel Door	Code for Extractable Panel	Unitary
P233A-AAAC	Pressure switch: P233A-AAAC															
PANELDOOR	Panel door															
POK_H_CELL	Cellulose pack humidifier											PDC_HUM_PACK				
POK_H_GLASS	Glass Fiber pack humidifier											PDC_HUM_PACK				
POK_HUMID	Pack humidifier															
PE	Picture EPOXY															
PF	Plug-fan IS															
PLATE_R	Vertical Plate Heat Exchanger Section															
PO	Protección en oxid.															
ROTA_R	Vertical Rotary Heat Exchanger Section															
RR_O	Horizontal Rotary Heat Exchanger Section															
SL	Silencer															
SILENCER1200	Silencer 1200											PDC_SL_1200				
SILENCER1500	Silencer 1500											PDC_SL_1500				
SILENCER1800	Silencer 1800											PDC_SL_1800				
SILENCER600	Silencer 600											PDC_SL_600				
SILENCER900	Silencer 900											PDC_SL_900				
SP_1	Opening Panel															
SP_2	Closing Panel															
ST_COIL	Steam Coil															
ST_HUMID	Steam Humidifier															
ST_HUMID_1_2_L	Space for 1 or 2 lanes															
ST_HUMID_3_L	Space for 3 lanes															
ST_HUMID_4_L	Space for 4 lanes															
TA	Terminación ATEX															
TANK	Drip Tray BOM															
TPE	Tomas depresión exteriores															
TPO	Tomas de presión en oídos															
TURN LOCKS	TURN LOCKS															
VAR_FREQ	Frequency Inverter															
VCP	Ventilador con Purga															
VCR	Ventilador con Registro															
WIRING	ELECTRIC WIRING ASSEMBLY FOR FAN															
EMPTY10	Empty Section 10															
EMPTY20	Empty Section 20															
EMPTY30	Empty Section 30															
EMPTY40	Empty Section 40															
EMPTY50	Empty Section 50															
EMPTY60	Empty Section 60															
EMPTY70	Empty Section 70															
EMPTY80	Empty Section 80															
EMPTY90	Empty Section 90															

It should NOT be a MASTER type, and you have to select which data you want to introduce (lengths, weights, prices, etc.)

Once this step is complete you need to go in the following form:

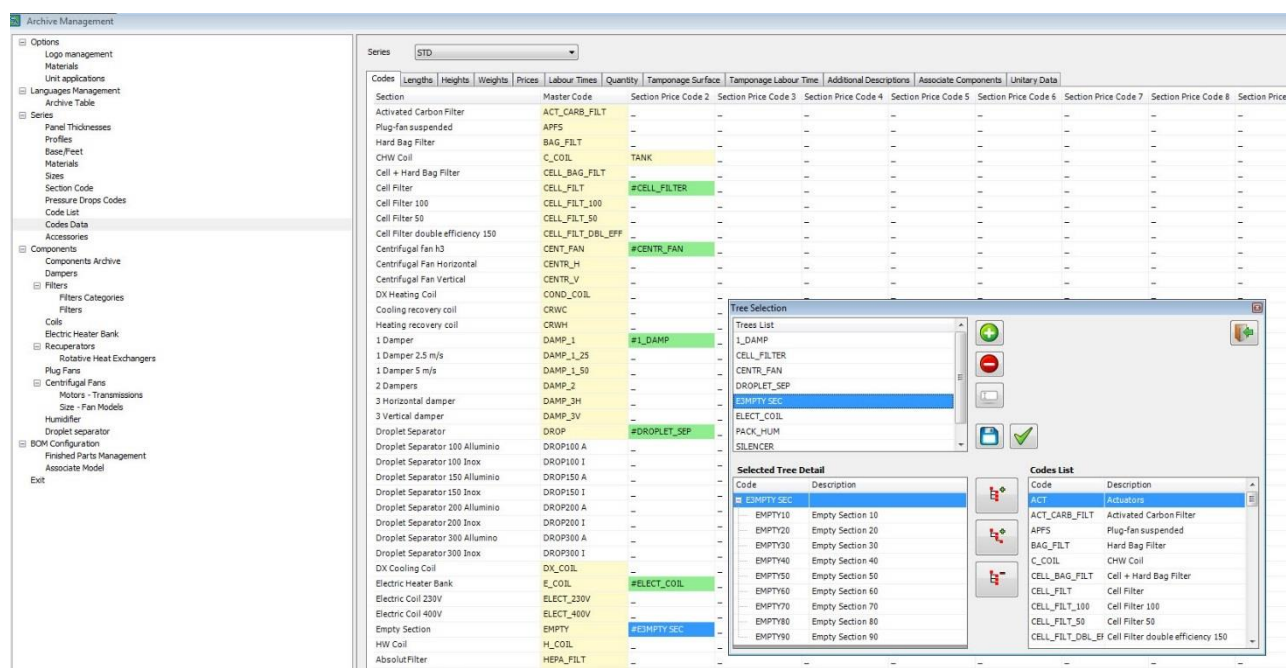


The screenshot shows the 'Archive Management' window with a list of components. A context menu is open over the 'Add' button, showing options: 'Tree', 'Special Code', and 'User Code'. The 'Tree' option is selected.

Codes	Lengths	Heights	Weights	Prices	Labour Times	Quantity	Tamponage Surface	Tamponage Labour Time	Additional Descriptions	Associate Components	Unitary Data
Activated Carbon Filter					ACT_CARB_FILT						
Plug-fan suspended					APFS						
Hard Bag Filter					BAG_FILT						
CHW Coil					C_COIL	TANK					
Cell + Hard Bag Filter					CELL_BAG_FILT						
Cell Filter					CELL_FILT						
Cell Filter 100					CELL_FILT_100						
Cell Filter 50					CELL_FILT_50						
Cell Filter double efficiency 150					CELL_FILT_DBL_EFF						
Centrifugal fan h3					CENT_FAN						
Centrifugal Fan Horizontal					CENTR_H						
Centrifugal Fan Vertical					CENTR_V						
DX Heating Coil					COND_COIL						
Cooling recovery coil					CRWC						
Heating recovery coil					CRWH						
1 Damper					DAMP_1						
1 Damper 2.5 m/s					DAMP_1_25						
1 Damper 5 m/s					DAMP_1_50						
2 Dampers					DAMP_2						
3 Horizontal damper					DAMP_3H						
3 Vertical damper					DAMP_3V						
Droplet Separator					DROP						
Droplet Separator 100 Alluminio					DROP100 A						
Droplet Separator 100 Inox					DROP100 I						
Droplet Separator 150 Alluminio					DROP150 A						
Droplet Separator 150 Inox					DROP150 I						
Droplet Separator 200 Alluminio					DROP200 A						
Droplet Separator 200 Inox					DROP200 I						
Droplet Separator 300 Alluminio					DROP300 A						
Droplet Separator 300 Inox					DROP300 I						
DX Cooling Coil					DX_COIL						
Electric Heater Bank					E_COIL						
Electric Coil 230V					ELECT_230V						
Electric Coil 400V					ELECT_400V						
Empty Section					EMPTY						
HW Coil					H_COIL						
AbsolutFilter					HEPA_FILT						

Position itself in the first empty cell next to the empty section (the section to which you want to associate the tree), right key and select "Tree"

And in the following window you have to create the code tree and associating the codes that we just introduced




The screenshot shows the 'Archive Management' window with a list of components. A 'Tree Selection' dialog box is open, showing a list of codes and their descriptions. The 'Tree Selection' dialog box has a 'Trees List' on the left and a 'Codes List' on the right. The 'Tree Selection' dialog box is used to create a code tree and associate codes that were just introduced.

Code	Description
EMPTY10	Empty Section 10
EMPTY20	Empty Section 20
EMPTY30	Empty Section 30
EMPTY40	Empty Section 40
EMPTY50	Empty Section 50
EMPTY60	Empty Section 60
EMPTY70	Empty Section 70
EMPTY80	Empty Section 80
EMPTY90	Empty Section 90


Save and then compile the next tab, which is in units of length, weight, price, etc.

You can create trees for different lengths of section or different materials:


**DROPLET SEPARATOR SECTION**

- ✓ Droplet Separator 100 Inox
- Droplet Separator 150 Inox
- Droplet Separator 200 Inox
- Droplet Separator 300 Inox
- Droplet Separator 100 Alluminio
- Droplet Separator 150 Alluminio
- Droplet Separator 200 Alluminio
- Droplet Separator 300 Alluminio

Air inlet 
  
Bends number [N°]



## IV. 8.2 Lengths

The lengths introduced into this section are the section lengths without profiles or omega.

Clicking on lengths it appears this window:

Clicking on lengths it appears this window.

Series

Size - Profiles Relationship

Codes

147076

Height

Weight

Price

Labour Time

Temperature Surface

Description	Code	TS 1	TS 2	TS 3	TS 4	TS 5	TS 6	TS 7	TS 8	TS 9	TS 10	TS 11	TS 12	TS 13	TS 14	TS 15	TS 16	TS 17	TS 18	TS 19	TS 20	TS 21	TS 22	TS 23	TS 24	TS 25	TS 26	TS 27	TS 28	TS 29	TS 30	
Riscaldamento radiativo verticale	4-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Serranda di apertura	1-CAPP	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	
2-Serranda	3-CAPP	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
3-Serranda orizzontale	6-CAPP	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	
3-Serranda verticale	7-CAPP	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
Battenti di riscaldamento	1-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Battenti di raffreddamento	2-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ventilatori plug fan 12	2-FAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unificatore a vanga di ugelli	7-ULM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unificatore a pacco	3-ULM	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	
Separatore di gocce	1-DRIP	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	
Sezione vuota	1-EMPTY	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
Riscaldamento a flussi incrociati verticale	2-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Silenzioso	1-SOUND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portina	4-SPECIAL	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
Pannello estraibile	5-SPECIAL	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
Ventilatori plug fan scappo	3-FAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro a tasche e profilo	3-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro a tasche	1-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro a tasche	2-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro assoluto	5-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro a carboni attivi	6-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Battenti di condensaione	4-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Battenti ad espansione diretta	6-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Battenti a vapore	6-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Battenti elettrica	5-COL	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
Antiduranti	ANT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Giunti	12-ANTI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Print

Print

Print

At the top right of window, you can quit from management





this button let you to import an excel file;



this button let you to export an excel file;



with this button you can save modifies.

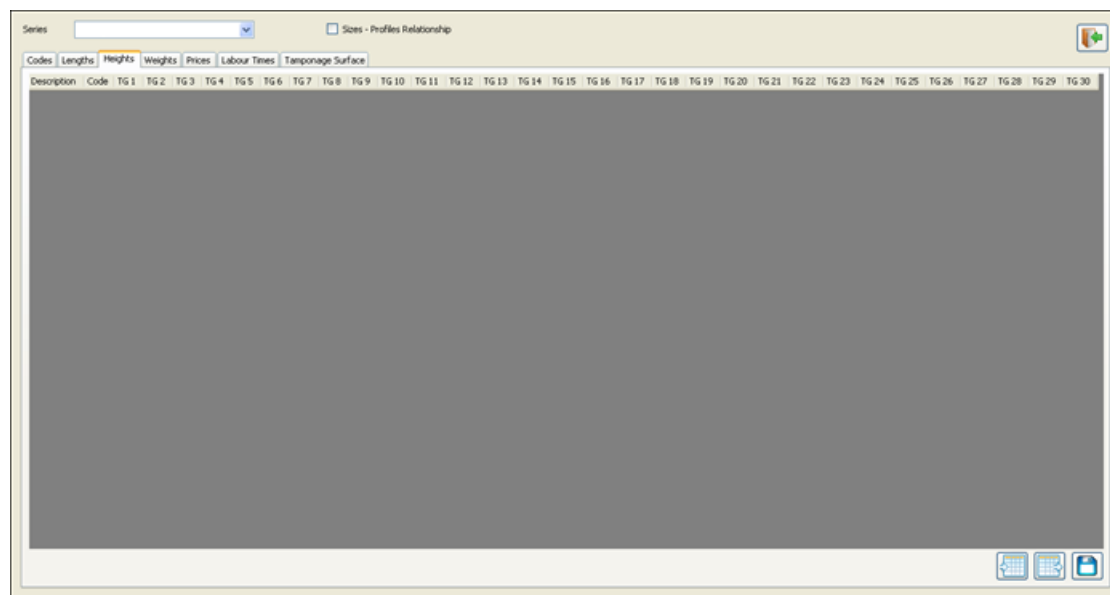
In this window you'll see all sections you've selected in Series -> Code List -> Length  
You've insert in [mm] the length of each section.

Checking this option ☒ Sizes - Profiles Relationship Profile P 130/25 you'll associate each machine to each profile, and for that association insert a length.

### IV. 8.3 Heights

The heights introduced into this section are the section lengths without profiles or omega.  
In this section you need to introduce only those section heights which are not standard.

Clicking on Heights it appears this window:



At the top right of window, you can quit from management



this button let you to import an excel file;



this button let you to export an excel file;



with this button you can save modifies.



**www.unilab.eu – info@unilab.eu**

Series	Code	TG 1	TG 2	TG 3	TG 4	TG 5	TG 6	TG 7	TG 8	TG 9	TG 10	TG 11	TG 12	TG 13	TG 14	TG 15	TG 16	TG 17	TG 18	TG 19	TG 20	TG 21	TG 22	TG 23	TG 24	TG 25	TG 26	TG 27	TG 28	TG 29	TG 30	
Recuperatore rotativo verticale	4-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Recuperatore rotativo orizzontale	3-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Servizio di apertura	1-GAPP	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
2 Servizi	2-GAPP	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
3 Servizi orizzontali	3-GAPP	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
3 Servizi verticali	3-GAPP	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	
Batteria di riscaldamento	1-COL	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
Batteria di raffreddamento	2-COL	187	187	187	187	187	187	259	259	259	259	259	259	259	259	259	259	259	259	259	259	275	275	275	275	462	462	462	462	462	462	
Ventilatori plug fan h3	2-FAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unificatore a rimpiazzo di ugelli	7-ULM	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	
Unificatore a spacco	3-ULM	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	
Separatore di gocce	1-GROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sezione mista	1-ENRIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Recuperatori a flussi incrociati verticali	2-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Recuperatori a flussi incrociati orizzontali	1-REC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Serviziatore	1-SERV	121	121	121	121	121	121	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	
Portina	4-SPECCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Paranella estraibile	5-SPECCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ventilatori plug fan sospeso	3-FAN	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	37,4	
Separatore di gocce palette DICI	1-GROP-1	112	116	119	124	131	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	
Separatore di gocce palette polipropilene	1-GROP-P	99	91	93	96	101	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	
Fan in posizione basculante	2-FAN-18	200	200	200	200	200	200	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
Fan a pannello	2-FAN-19	77	77	77	77	77	77	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	145	145	145	254	254	254	254	254
Filtro a tasche a profilo	3-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro piano	1-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro a tasche	2-FIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Filtro assoluto	3-FIL	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Filtro a carboni attivi	4-FIL	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Frontal extraction filters	1-FIL-4R	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
Filtro a correntone	1-FIL-5C	132	132	132	132	132	132	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	
Frontal extraction filters	2-FIL-4R	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
Filtro a correntone	2-FIL-5C	132	132	132	132	132	132	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	
Frontal extraction filters	3-FIL-4R	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
Filtro a correntone	3-FIL-5C	132	132	132	132	132	132	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	
Batteria di condensazione	4-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Batteria ad espansione diretta	6-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Batteria a vapore	6-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Batteria elettrica	5-COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Labour Time (h)		1.																														



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with this button you can save modifies.

In this window you'll see all sections you've selected in Series -> Code List -> Labour Time  
You've insert in [h] the Labour time of each section.

Labour Time (€/h)

1,

Beside you can insert also this value.

## IV. 8.6 Tamponage Surfaces

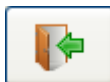
In this section you need to introduce the Tamponage surface if it is present into the section.  
Clicking on Tamponage Surface it appears this window:

Series

Code | Length | Height | Weight | Price | Labour Time | Temperature Surface

Code	Description	PM10	PM10.2	PM10.4	PM10.6	PM10.8	PM11	PM12	PM13	PM14	PM15	PM16	PM17	PM18	PM19	PM20	PM21	PM22	PM23	PM24	PM25	PM26	PM27	PM28	PM29	PM30						
1-CROP-1	Separatore di gocce palette 240x1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
1-CROP-2	Separatore di gocce palette polipropilene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
1-FIL-FR	Frontal extraction filters	0,349	0,45	0,45	0,564	0,684	0,819	0,819	0,777	0,92	0,962	1,323	1,367	1,046	1,216	1,187	1,084	1,097	1,302	1,366	1,566	1,510	1,564	1,834	2,073	1,196	1,674	1,932	2,095	2,421		
1-FIL-SC	Filtro a scontramento	0,58	0,686	0,686	0,803	0,93	0,93	1,066	1,066	1,087	1,203	1,263	1,428	1,493	1,465	1,636	1,69	1,627	1,684	1,93	1,99	2,197	2,196	2,257	2,549	2,861	2,138	2,593	2,851	3,136	4,14	
2-FAN-VR	Fan a posizione verticale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-FAN-VR	Fan a pannello	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-FIL-FR	Frontal extraction filters	0,471	1,095	1,145	1,312	1,368	1,246	1,422	1,419	1,282	1,327	1,569	0,582	1,618	1,83	1,795	1,848	2,135	3,263	1,52	2,016	2,279	2,468	0,582	2,813	0,704	0,835	0,835	0,977	0,977	0,943	
2-FIL-SC	Filtro a scontramento	0,783	1,669	1,746	1,868	1,86	1,694	1,851	1,847	1,744	1,735	2,06	0,743	2,07	2,563	2,415	2,609	3,274	3,658	2,219	2,937	3,187	3,57	0,84	3,91	0,972	1,472	1,293	1,442	1,449	1,613	
3-FIL-FR	Frontal extraction filters	0,471	0,582	0,582	0,704	0,835	0,835	0,977	0,977	0,943	1,095	1,145	1,312	1,368	1,246	1,422	1,419	1,282	1,327	1,569	1,618	1,83	1,795	1,848	2,135	2,383	1,52	2,016	2,279	2,468	2,813	
3-FIL-SC	Filtro a scontramento	0,783	0,887	0,887	1,002	1,135	1,135	1,272	1,272	1,283	1,432	1,503	1,673	1,75	1,745	1,913	2,003	1,966	1,5	2,291	2,267	2,567	2,567	2,867	2,967	2,269	2,679	1,123	1,363	1,619	4,91	
4-COL	Batteria di riscaldamento	0,813	0,891	0,872	0,94	1,02	0,994	1,068	1,028	1,099	1,175	1,243	1,312	1,393	1,346	1,386	1,582	1,494	1,2	1,747	1,77	1,79	2,081	2,004	2,181	2,136	2,308	2,474	2,375	2,734	2,859	
1-CROP	Separatore di gocce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-DRIFT	Sezione vuota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-FIL	Filtro pieno	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-REC	Recuperatore a flussi incrociati orizzontale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-SOUND	Silenziatore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-COL	Batteria di raffreddamento	0,813	0,891	0,872	0,94	1,02	0,994	1,068	1,028	1,099	1,175	1,243	1,312	1,393	1,346	1,386	1,582	1,494	1,2	1,747	1,77	1,79	2,081	2,004	2,181	2,136	2,308	2,474	2,375	2,734	2,859	
2-FAN	Ventilatore plug fan h3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-FIL	Filtro a tasche	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-REC	Recuperatore a flussi incrociati verticale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-SOUND	2 Seconde	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-FAN	Ventilatore plug fan sospeso	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-FIL	Filtro a tasche a profilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-HEM	Umidificatore a pacco	0,573	0,685	0,614	0,683	0,749	0,717	0,775	0,71	0,782	0,842	0,909	0,962	1,027	0,972	0,973	1,178	1,041	1,087	1,284	1,284	1,281	1,48	1,458	1,619	1,531	1,649	1,619	1,672	2,022	2,11	
3-REC	Recuperatore relativo orizzontale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-COL	Batteria di condensaione	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-REC	Recuperatore relativo verticale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-SPECIAL	Purifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-COL	Batteria elettrica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-FIL	Filtro assoluto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-SPECIAL	Pannello estraibile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-COL	Batteria a vapore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-DRIFT	3 Seconde orizzontale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-FIL	Filtro a carboni attivi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-DRIFT	3 Seconde verticale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-HEM	Umidificatore a vapore di ugelli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-COL	Batteria ad espansione diretta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HCR	Batteria di recupero riscaldamento	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-COL	Batteria di recupero raffreddamento	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-FAN	Ventilatore centrifugo h3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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## IV. 8.7 Tamponage Labour Time

In this section you need to introduce the labor time of tamponage

Series: A - AHU

Codes	Lengths	Heights	Weights	Prices	Labour Times	Quantity	Tamponage Surface	Tamponage Labour Time	Additional Descriptions	Associate Components	Unitary Data
Code	Description	A-AHU 35	A-AHU 50	A-AHU 70	A-AHU 85	A-AHU 100	A-AHU 140	A-AHU 175	A-AHU 210	A-AHU 240	A-AHU 280
ACT_CARB_FILT	Activated Carbon Filter	0	0	0	0	0	0	0	0	0	0
APFS	Plug-fan suspended	0	0	0	0	0	0	0	0	0	0
BAG_FILT	Hard Bag Filter	0	0	0	0	0	0	0	0	0	0
CELL_BAG_FILT	Cell + Hard Bag Filter	120	120	120	120	120	120	120	120	120	120
CELL_FILT	Cell Filter	0	0	0	0	0	0	0	0	0	0
CENT_FAN	Centrifugal fan h3	0	0	0	0	0	0	0	0	0	0
CENT_FAN_1	Centrifugal Fan - Position 1	120	120	120	120	120	120	120	120	120	120
CENT_FAN_2	Centrifugal Fan - Position 2	120	120	120	120	120	120	120	120	120	120
CENT_FAN_3	Centrifugal Fan - Position 3	120	120	120	120	120	120	120	120	120	120
CENT_FAN_4	Centrifugal Fan - Position 4	120	120	120	120	120	120	120	120	120	120
DAMP_1	1 Damper	0	0	0	0	0	0	0	0	0	0
DAMP_2	2 Dampers	0	0	0	0	0	0	0	0	0	0
DROP	Droplet Separator	0	0	0	0	0	0	0	0	0	0
EMPTY	Empty Section	0	0	0	0	0	0	0	0	0	0
HEPA_FILT	AbsolutFilter	0	0	0	0	0	0	0	0	0	0
NZL_HUMID	Nozzle humidifier	0	0	0	0	0	0	0	0	0	0
PF	Plug-fan h3	0	0	0	0	0	0	0	0	0	0
SIL	Silencier	0	0	0	0	0	0	0	0	0	0
SP_1	Opening Panel	0	0	0	0	0	0	0	0	0	0
SP_2	Closing Panel	0	0	0	0	0	0	0	0	0	0
ST_HUMID	Steam Humidifier	0	0	0	0	0	0	0	0	0	0
NS750	Silencer L=750mm	0	0	0	0	0	0	0	0	0	0
NS1000	Silencer L=1000mm	0	0	0	0	0	0	0	0	0	0



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## IV. 8.8 Additional Descriptions

Series
A - AHU

Codes Lengths Heights Weights Prices Labour Times Quantity Tamponage Surface Tamponage Labour Time Additional Descriptions Associate Components Unitary Data

Description	Code	Additional Description
Activated Carbon Filter	ACT_CARB_FILT	
Plug-fan suspended	APFS	
Hard Bag Filter	BAG_FILT	
Cell + Hard Bag Filter	CELL_BAG_FILT	
Cell Filter	CELL_FILT	
Centrifugal fan h3	CENT_FAN	
Centrifugal Fan - Position 1	CENT_FAN_1	
Centrifugal Fan - Position 2	CENT_FAN_2	
Centrifugal Fan - Position 3	CENT_FAN_3	
Centrifugal Fan - Position 4	CENT_FAN_4	
1 Damper	DAMP_1	
2 Dampers	DAMP_2	
Droplet Separator	DROP	
Empty Section	EMPTY	
AbsolutFilter	HEPA_FILT	
Nozzle humidifier	NZL_HUMID	
Plug-fan h3	PF	
Silencier	SIL	
Opening Panel	SP_1	
Closing Panel	SP_2	
Steam Humidifier	ST_HUMID	
Silencer L=750mm	NS750	
Silencer L=1000mm	NS1000	
Silencer L=1500mm	NS1500	

If you insert a description here, you will see it into the printout.



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## IV. 8.9 Associate Components

Series
A - AHU

Codes Lengths Heights Weights Prices Labour Times Quantity Tamponage Surface Tamponage Labour Time Additional Descriptions Associate Components Unitary Data

Codes List

Code	Description
ACT_CARB_FILT	Activated Carbon Filter
APFS	Plug-fan suspended
BAG_FILT	Hard Bag Filter
CELL_BAG_FILT	Cell + Hard Bag Filter
CELL_FILT	Cell Filter
CENT_FAN	Centrifugal fan h3
CENT_FAN_1	Centrifugal Fan - Position 1
CENT_FAN_2	Centrifugal Fan - Position 2
CENT_FAN_3	Centrifugal Fan - Position 3
CENT_FAN_4	Centrifugal Fan - Position 4
COIL	Coil BOM
COIL 1R P1,8	COIL 1R P1,8
COIL 1R P2	COIL 1R P2
COIL 1R P2,1	COIL 1R P2,1
COIL 1R P2,5	COIL 1R P2,5

Absolute Filter

Manufacturer	Series
YEKTA	AbsoluteFilter

Supplier	Series	Subseries	Model
<input checked="" type="checkbox"/>	YEKTA	AbsoluteFilter	ABSF 290x595
<input type="checkbox"/>	YEKTA	AbsoluteFilter	ABSF 595x595

Associate Components Quantity

Supplier	Series	Subseries	Model	A-AHU 35	A-AHU 50	A-AHU 70	A-AHU 85	A-AHU 100	A-AHU 140	A

In this section you can associate components to a section for each unit size. Example: you want to associate elements like hinges and handles to the door, you can do it here, because they are elements associated to other elements, but not accessories.



At the top right of window, you can quit from management



this button let you to import an excel file;



this button let you to export an excel file;






with this button you can save modifies.

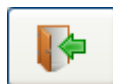
## IV. 8.10 Unitary Data

Series
A - AHU

Codes Lengths Heights Weights Prices Labour Times Quantity Tamponage Surface Tamponage Labour Time Additional Descriptions Associate Components Unitary Data

Code	Description	Price [€ (EUR)]	Weight [kg]	Labour Times [min]
------	-------------	-----------------	-------------	--------------------



At the top right of window, you can quit from management



this button let you to import an excel file;

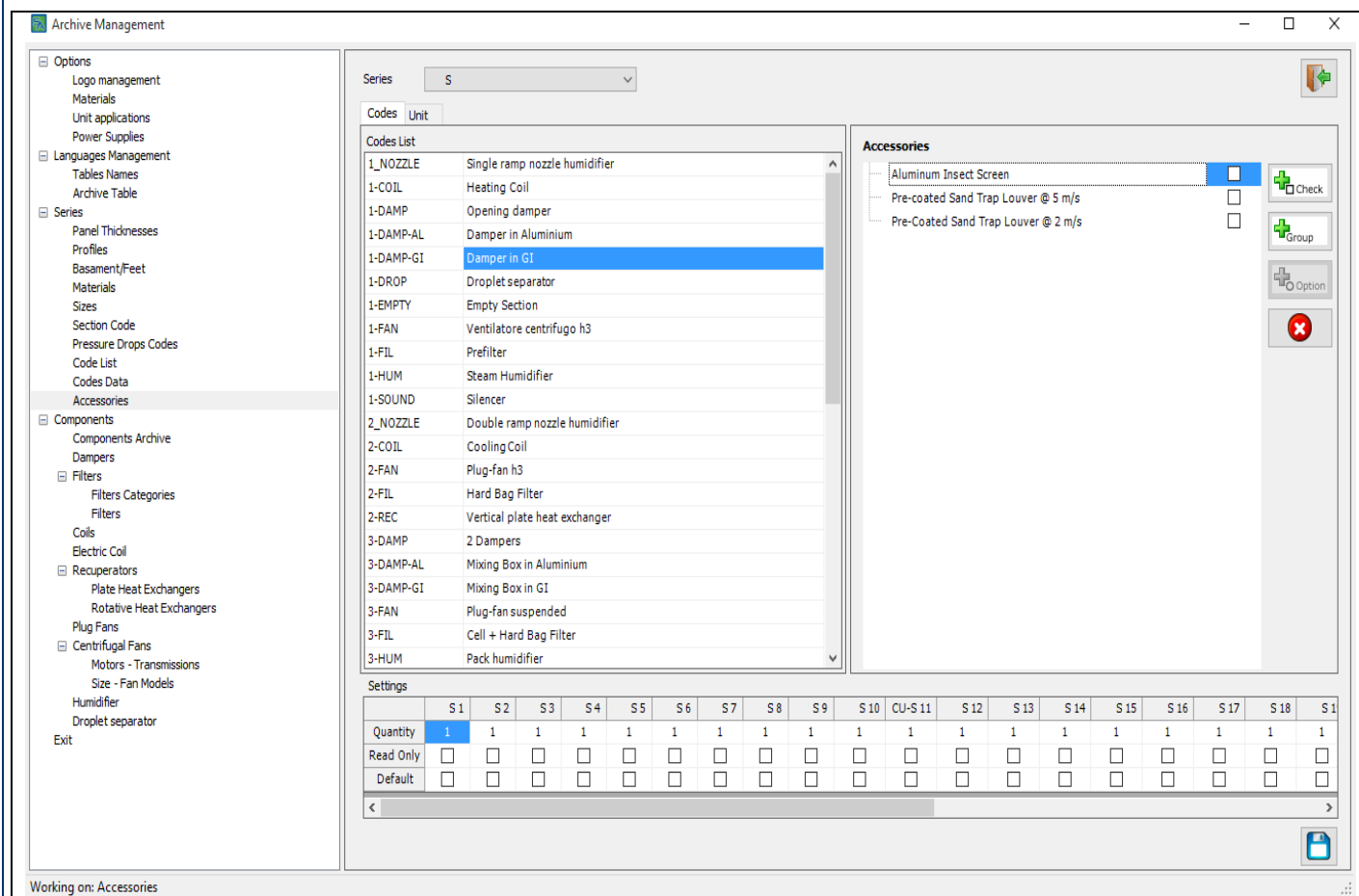


this button let you to export an excel file;



with this button you can save modifies.

## IV. 9 Accessories



Working on: Accessories

At the top right of window, you can quit from management



delete the created accessory.

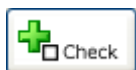


or save accessories association.

Series  here you can choose the series.

In this section you've the list of Master Code (images in Selection Software).  
To each Master Code you can associate Accessories.

As you can see, as default, there are already associations.



With this option, you can add an accessory with possibility of check. I mean that if you check, in the selection software, the accessory, you'll have the accessory in your printout.



With this button, you can add an accessory without possibility of check. I mean that it is always checked.



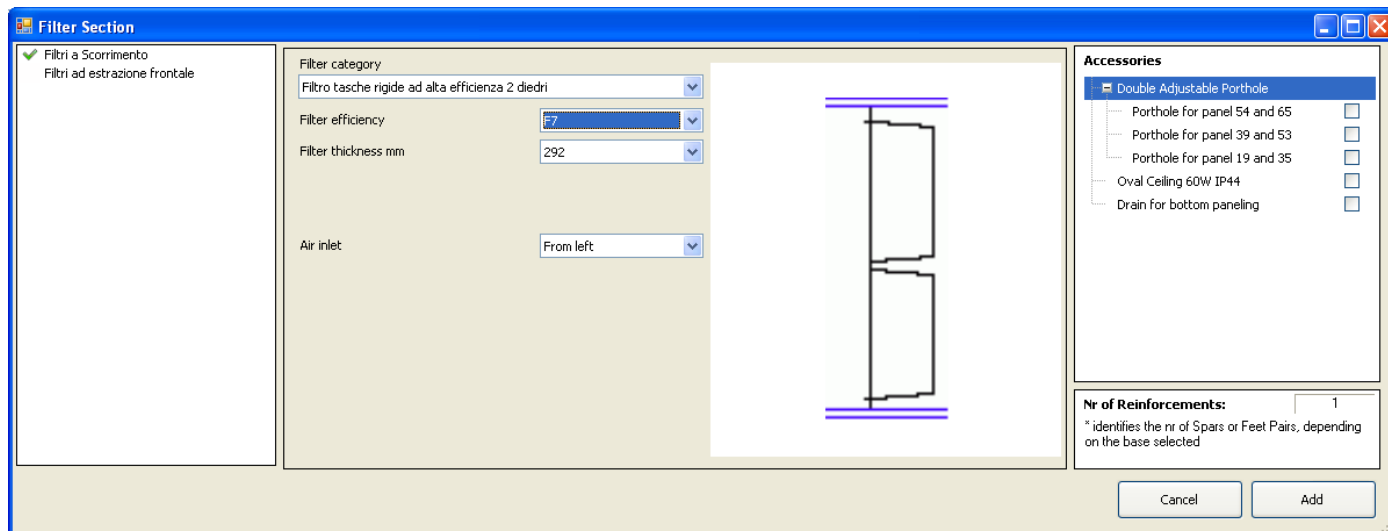
With this option, you can add a benchless to the tree of accessory.

Pay attention to insert the quantity in the section:

Settings																			
	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	CU-S 11	S 12	S 13	S 14	S 15	S 16	S 17	S 18	S 1
Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Read Only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Default	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Otherwise you will not see any accessory in the selection Part.

An example of what you see in selection software for accessories is the follow:

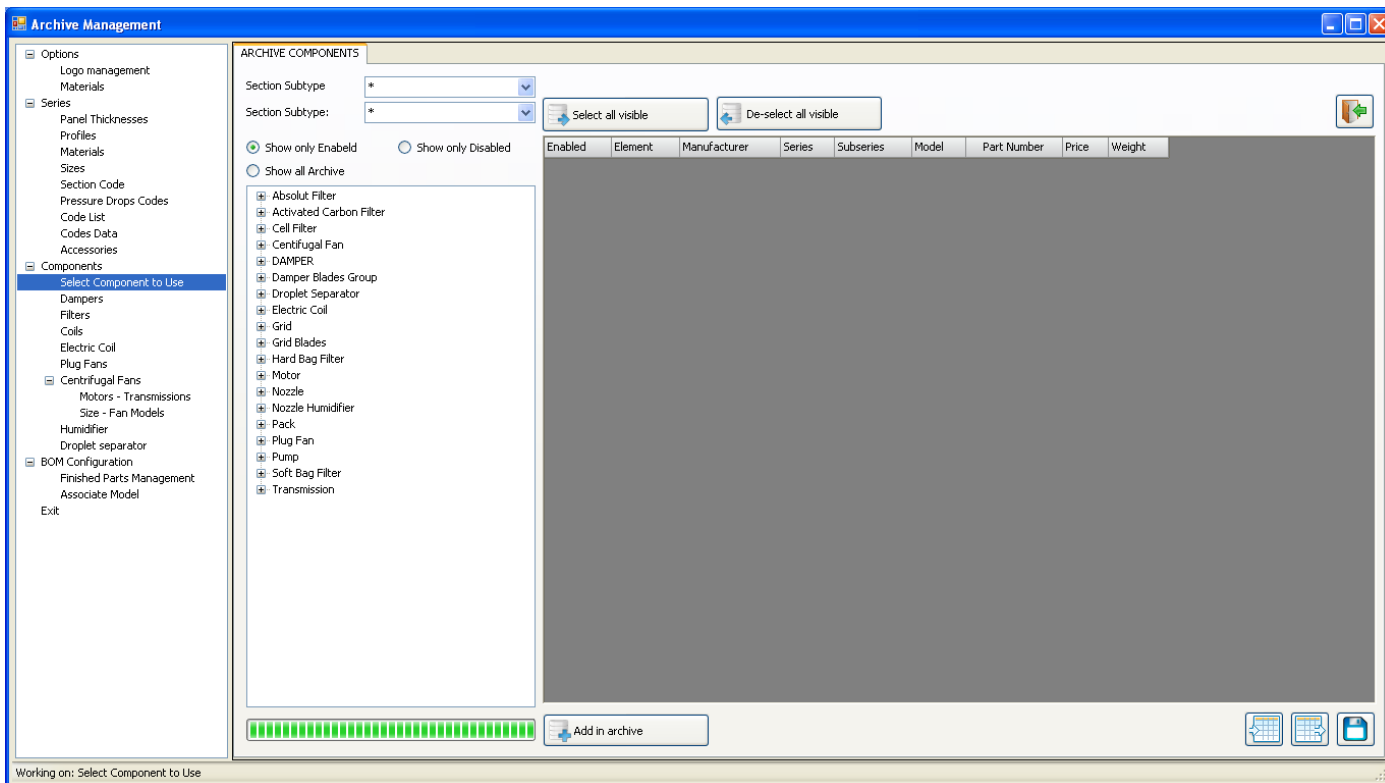


This is a bag filter and on the right side you can see the possible accessories.

## V. Components

When you click on "Components" Wizard starts soon with "Select components to Use"

### V. 1 Select Components to Use



In this section, you can select which components of which builders use, and which are not, and they just keep on file.



At the top right of window, you can quit from management



this button let you to import an excel file;



this button let you to export an excel file;

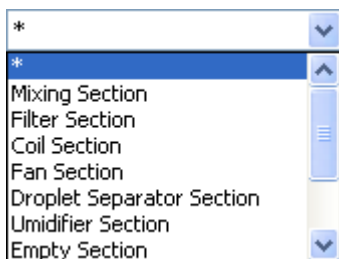


with this button you can save modifies.

Section Subtype

In this drop down menu, you can select all possible sections of Units, as you can see in the follow window. If you leave " \* " all sections will be visible in the below list.

Section default types are:



If you select one of this section, in the follow drop down menu you will have the subtype of selected section.

Section Subtype:

Subtype of selected section.

☒ **Show only Enabled** If you check this option, you'll see in the table only enabled sections. I mean these kind of element will be used by VIEW3 and BOM.

☐ **Show only Disabled** If you check this option, you'll see in the table only disabled sections. I mean these kind of element won't be used by VIEW3 and BOM they should be set in warehouse stocks until you'll want to use them.

☐ **Show all Archive** If you check this option you'll see all possible sections, enabled and disabled ones.

- ☒ Absolut Filter
- ☒ Activated Carbon Filter
- ☒ Cell Filter
- ☒ Centifugal Fan
- ☒ DAMPER
- ☒ Damper Blades Group
- ☒ Droplet Separator
- ☒ Electric Coil
- ☒ Grid
- ☒ Grid Blades
- ☒ Hard Bag Filter
- ☒ Motor
- ☒ Nozzle
- ☒ Nozzle Humidifier
- ☒ Pack
- ☒ Plug Fan
- ☒ Pump
- ☒ Soft Bag Filter
- ☒ Transmission

This is the section list you can see if you've checked "Show only enabled".

Next to this list you have a box with several columns.  
Each column has a title:

**Enabled** You can see if this specific component is enabled or not;

**Element** What kind of component you've selected;

**Manufacturer** The component manufacturer;

**Series** The series component.

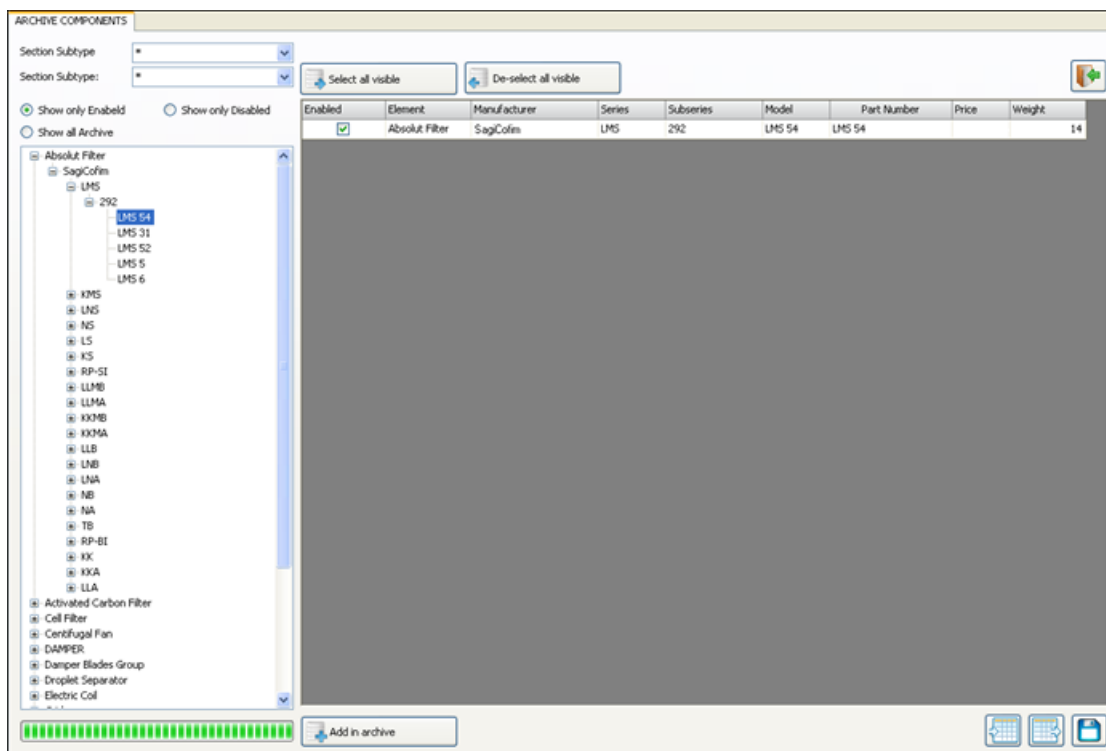
**Subseries** The subseries component.

**Model** The model component.

**Part Number** The part number component. This data is used into the BOM.

**Price** Component price.

**Weight** Component weight.

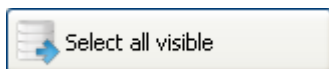


The screenshot shows the 'ARCHIVE COMPONENTS' window. On the left is a tree view with a search bar and radio buttons for 'Show only Enabled', 'Show only Disabled', and 'Show all Archive'. The tree is expanded to show 'Absolute Filter' > 'SagCofim' > 'LMS' > '292' > 'LMS 54'. On the right is a table with columns: Enabled, Element, Manufacturer, Series, Subseries, Model, Part Number, Price, and Weight. The first row is checked and contains: Absolute Filter, SagCofim, LMS, 292, LMS 54, LMS 54, and 14. Above the table are buttons for 'Select all visible' and 'De-select all visible'. Below the table is an 'Add in archive' button and a progress bar.

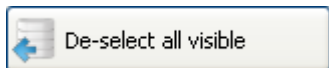
Enabled	Element	Manufacturer	Series	Subseries	Model	Part Number	Price	Weight
<input checked="" type="checkbox"/>	Absolute Filter	SagCofim	LMS	292	LMS 54	LMS 54		14

**\* Please note: prices and costs have been deleted from the images for privacy reasons.**

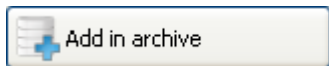
If you open the "plus" you can arrive to the model. For example, as you can see in the up image: Absolute Filter -> Manufacturer -> Series -> Subseries -> Model. And in the table you can see more details.



If you click on this option, you can enable all components you can see in the table.

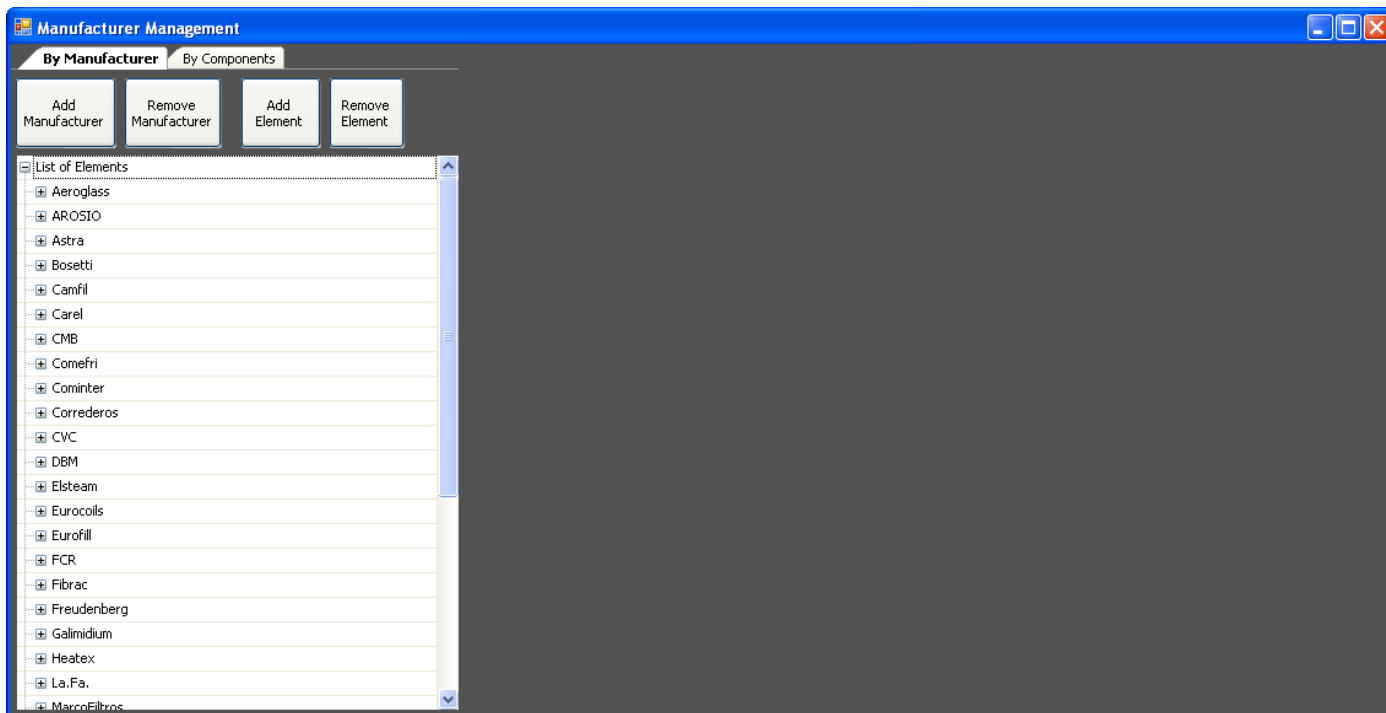


If you click on this option, you can disable all components you can see in the table.



If you click on this option, you can add components to the archive.

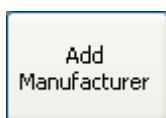
If you click on it the follow window will open:



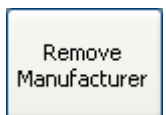
On this page you can add by skimming manufacturer or components.

Now you are in the section "By Manufacturer" as you can see on the tab.

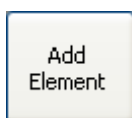
In this section you have the option of adding a new manufacturer and hence the element that it produces, or you can add an item directly to an existing manufacturer.



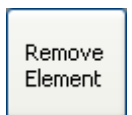
If you click on this button, you can add a manufacturer to the list.



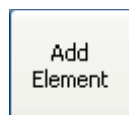
If you click on this button, you remove the selected manufacturer from the list.



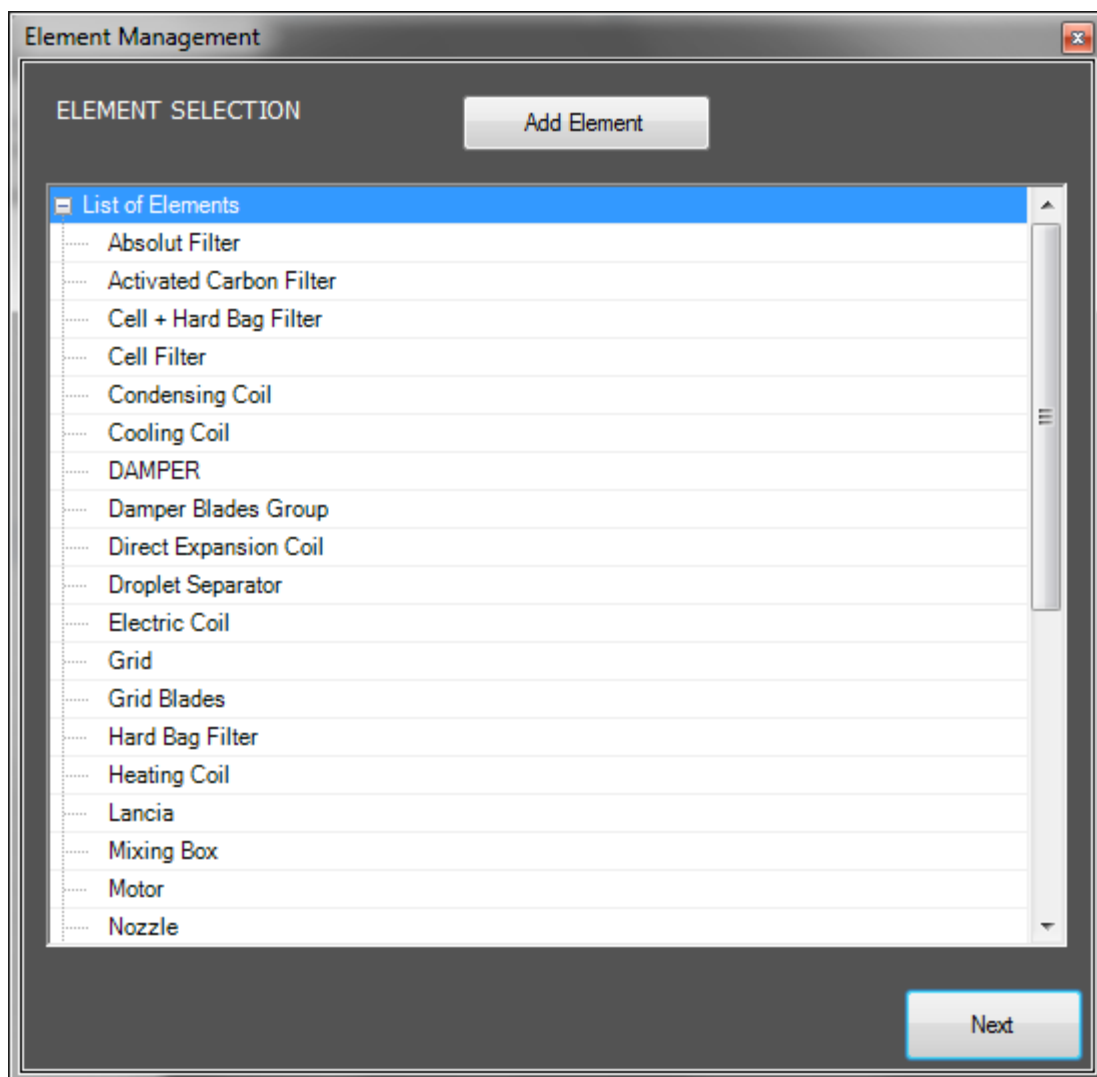
If you click on this button, you can add an element to the selected manufacturer.



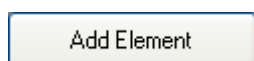
If you click on this button, you can delete an element from the selected manufacturer.



If you select a Manufacturer (for example AROSIO) and then on  it will appear the follow window:

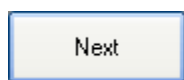


With this procedure you can add an item to a manufacturer.

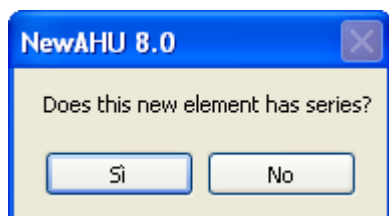


if you click on this button you'll add an element to the list;

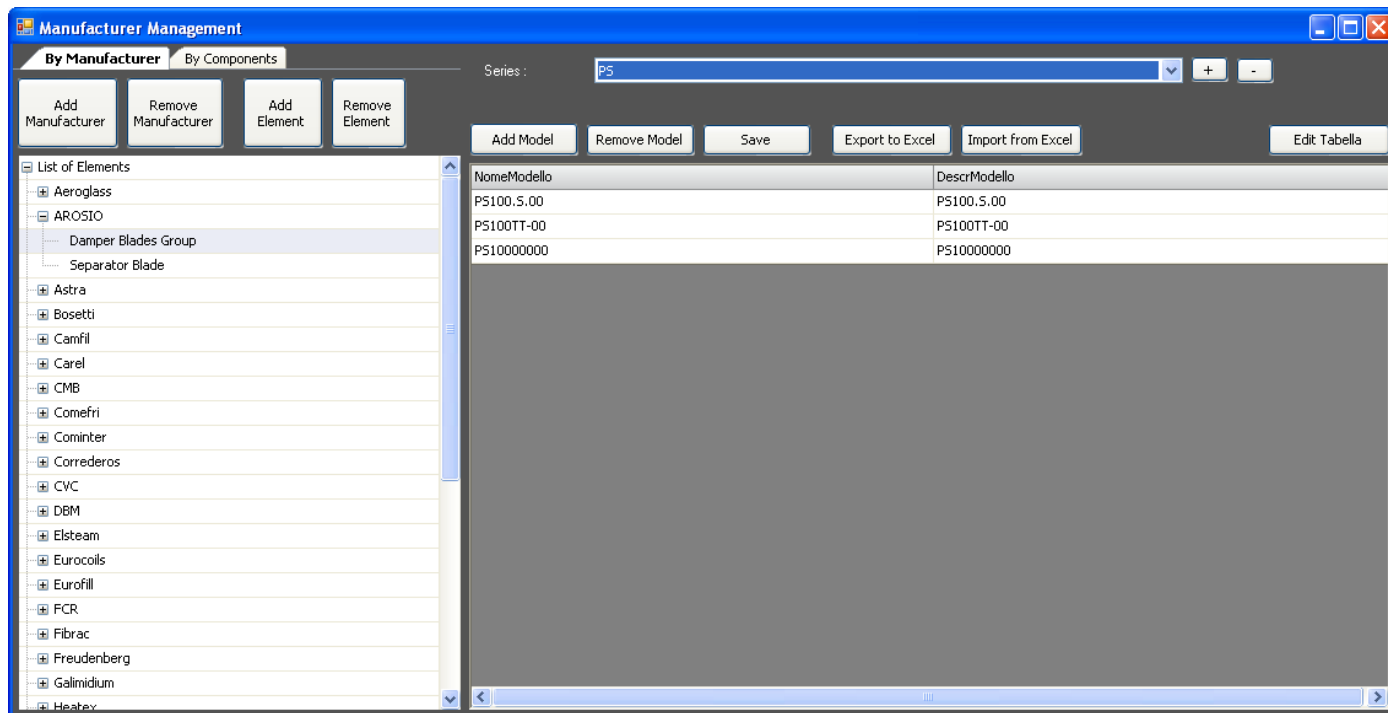
For example, if we want to add the element: Damper Blades Group:



Clicking on this button, it will appear the follow window, relative to the selected element:





if you click on " Yes" you'll obtain the follow image.




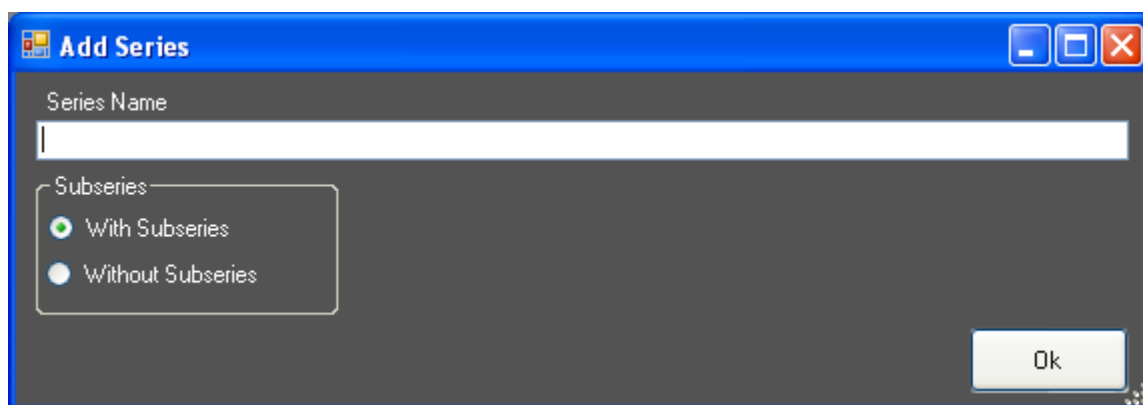
At the top of the window you can see a drop down menu with series list:



 with this button you can add a series to the list;

 with this button you can remove a series from the list.

If you click on  you obtain the follow window:



Where you can add series and then its Subseries (pay attention that it's checked as Default "With Subseries").

Instead if you check "Without subseries" it will appear the follow window:

Table
Archive_ElectricHeater
Archive_ElectricHeater
Archive_Nozzle
Archive_NozzleHumidifier
Archive_Pump
Tbl_ArchiviFans_Comefri
Tbl_ArchiviFans_Nicotra
Tbl_ArchiviFans_Qtam
Tbl_ArchiviFans_Standard

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Apply

If you click on this button, you'll apply modifies to the table.

Ok

If you click on this button, you'll quit from the window and you'll come back to the main page.

If you edit a new table or add a row to an existing one you've to write a Field Name and choose a Field Type:

▼

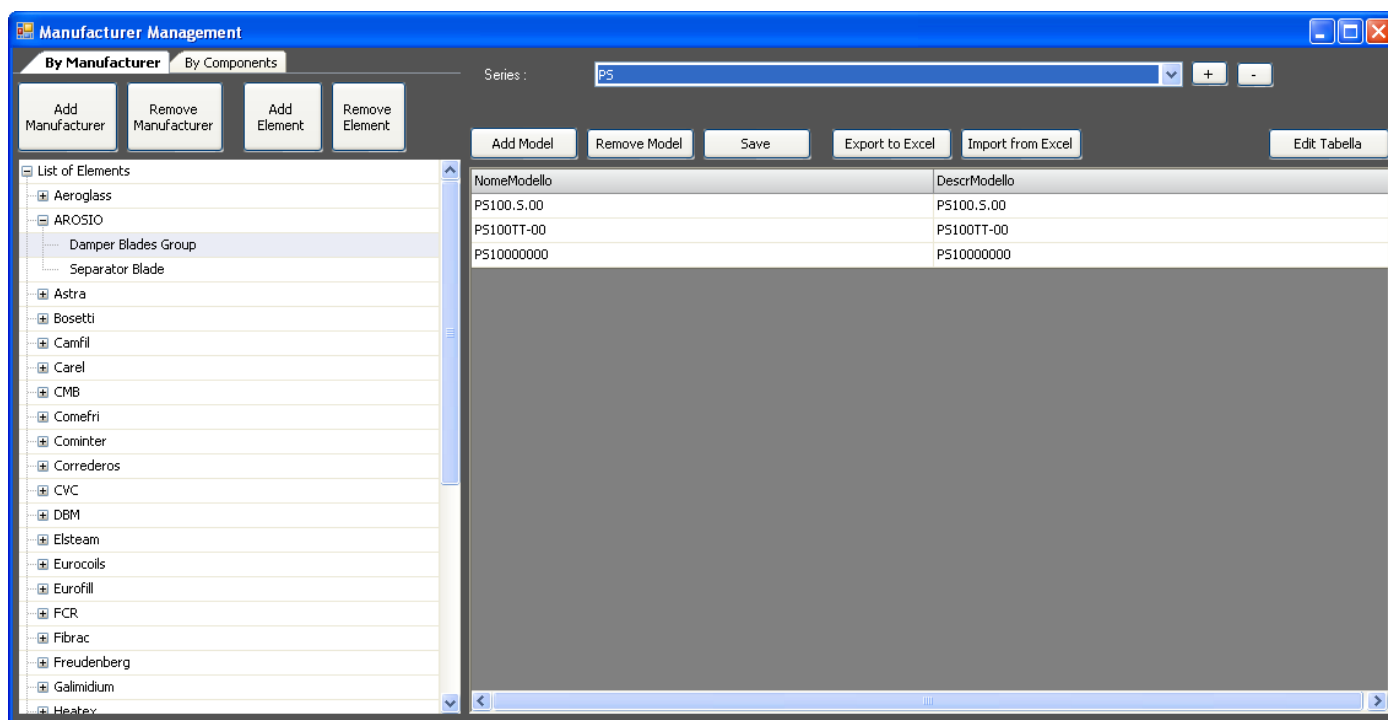
Text  
TrueFalse  
NumericInt  
NumericDbI

There are 4 possibilities for field type:

- Text: if you choose this type you can write text in the field;
- True False: if you choose this type it will appear a check in the table;
- NumericInt: if you choose this type you can write integers;
- NumericDbI: if you choose this type you can write decimal numbers.

Once you've edit the table for the series, you can click on "apply" and on "Ok".

And you'll come back to the main window:



Now that you've selected a series you can:

Add Model

Add a model to the series;

Remove Model

Delete a model from the series;

Save

Save modifies.

Export to Excel

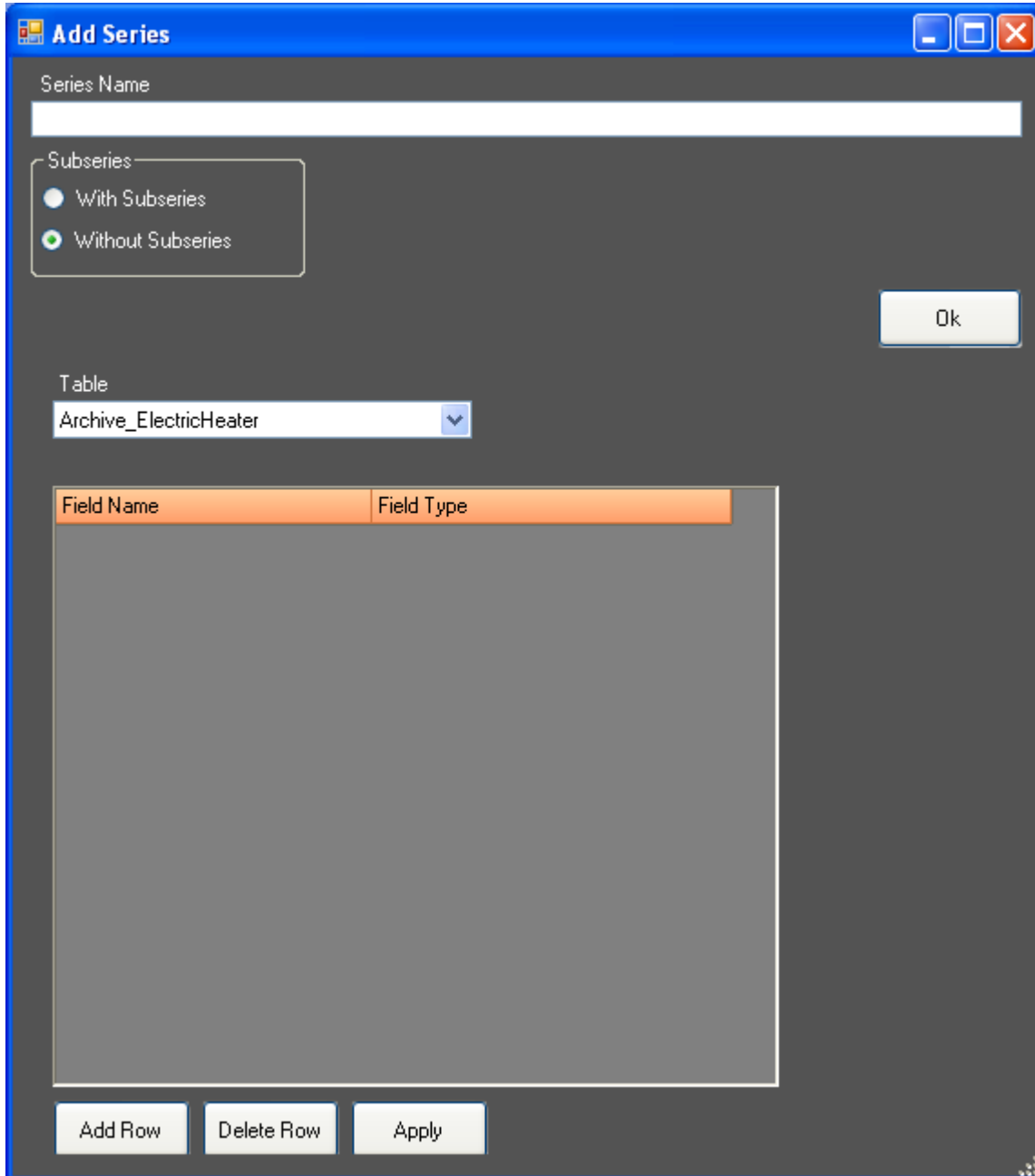
Export the table to an excel file;

Import from Excel

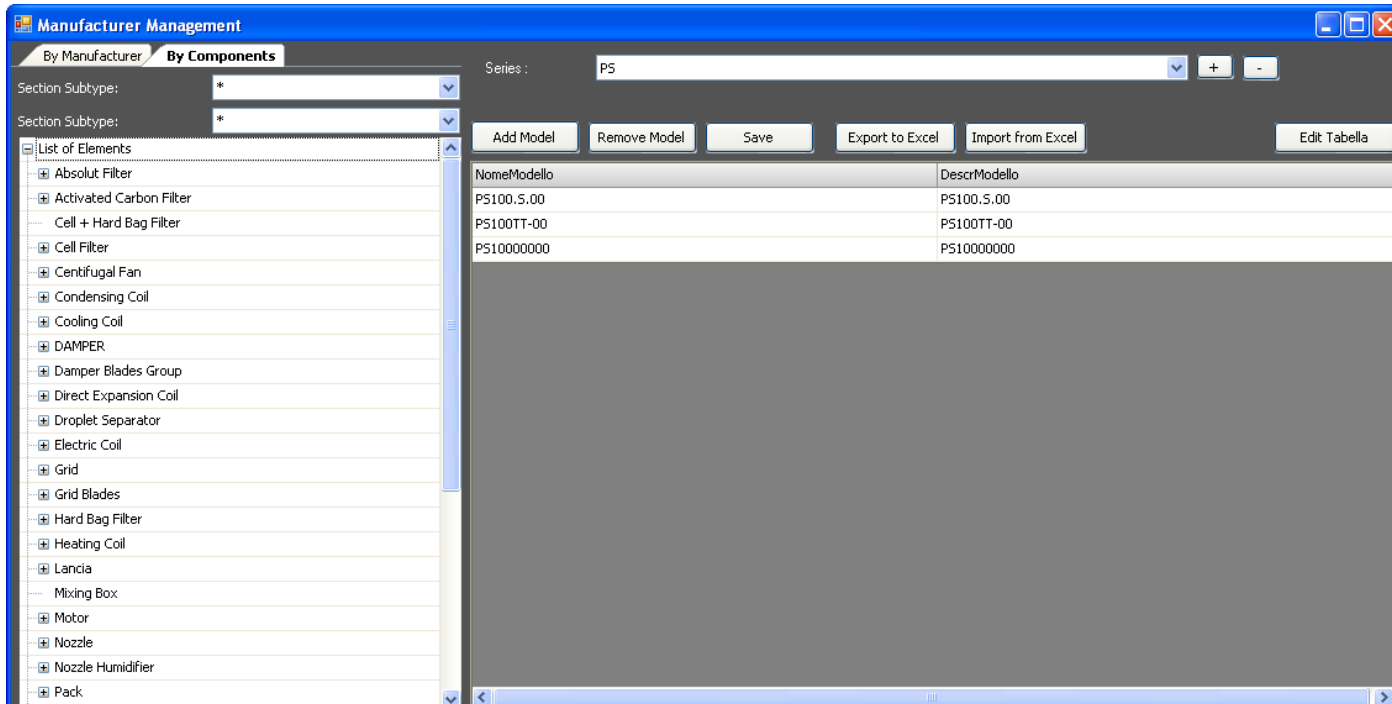
Import a table from an excel file;

Edit Tabella

Edit the table. I mean you can edit the table as in the follow image:




Clicking, instead, on the tab "By Components" you'll obtain the follow image:





If you click, for example on Active Carbon Filter -> Cell + Hard Bag Filter you can see in the table the list of model for that group.

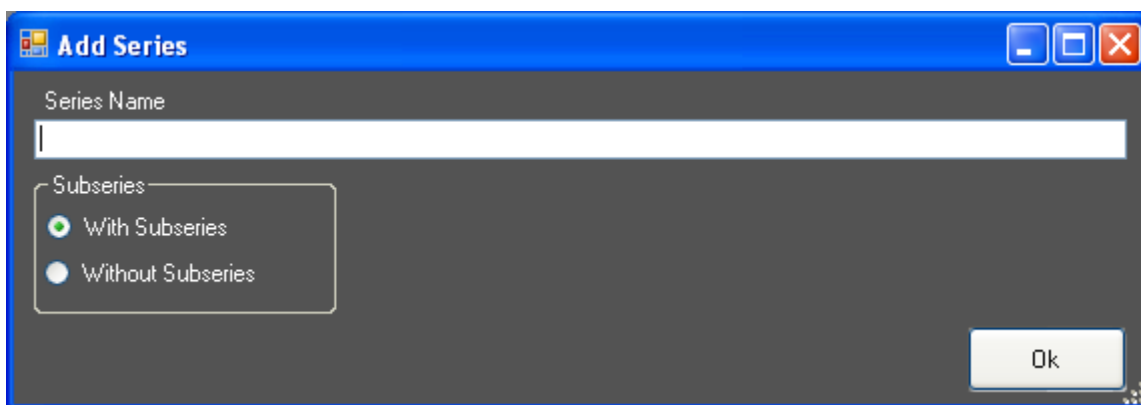
At the top of the window you can see a drop down menu with series list:



 with this button you can add a series to the list;

 with this button you can remove a series from the list.

If you click on  you obtain the follow window:



Where you can add series and then its Subseries (pay attention that it's checked as Default "With Subseries").

Instead if you check "Without subseries" it will appear the follow window:

Table
Archive_ElectricHeater
Archive_ElectricHeater
Archive_Nozzle
Archive_NozzleHumidifier
Archive_Pump
Tbl_ArchiviFans_Comefri
Tbl_ArchiviFans_Nicotra
Tbl_ArchiviFans_Qtam
Tbl_ArchiviFans_Standard

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Apply

If you click on this button, you'll apply modifies to the table.

Ok

If you click on this button, you'll quit from the window and you'll come back to the main page.

If you edit a new table or add a row to an existing one you've to write a Field Name and choose a Field Type:

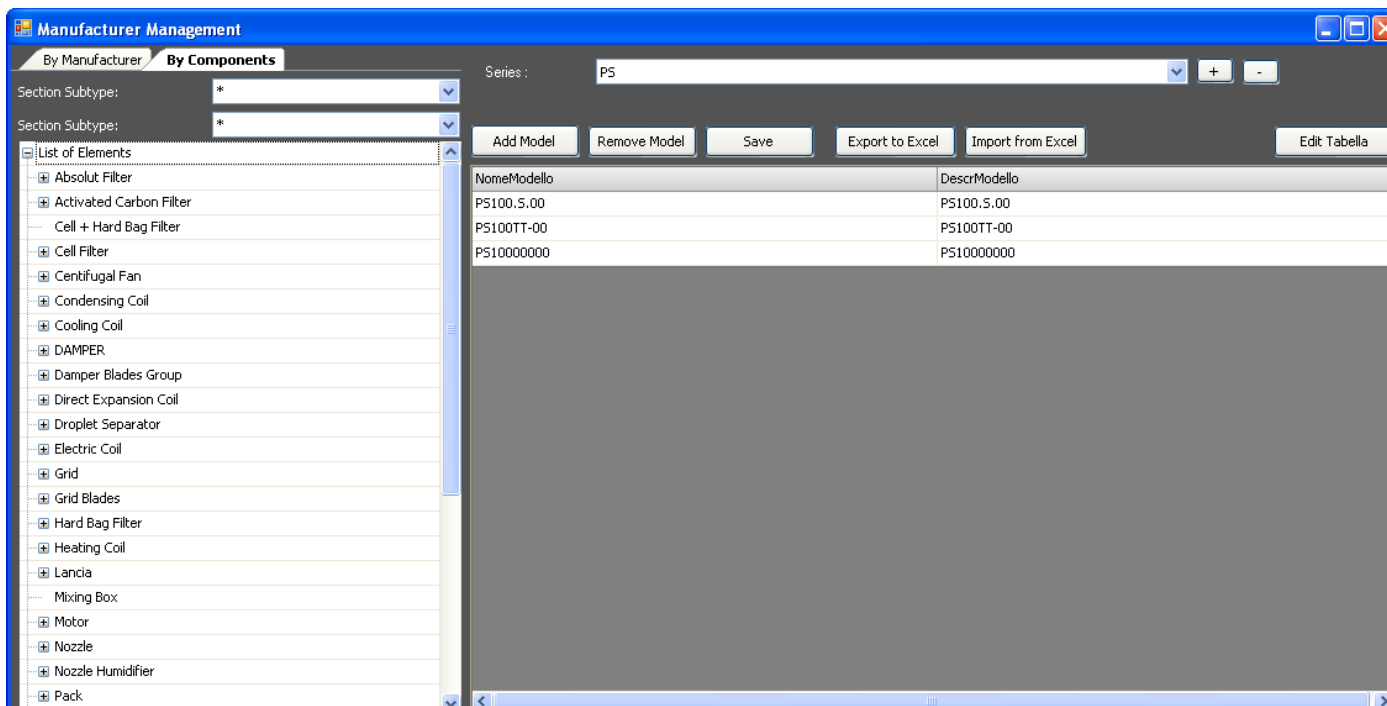
▼

Text  
TrueFalse  
NumericInt  
NumericDbf

There are 4 possibilities for field type:

- Text: if you choose this type you can write text in the field;
- True False: if you choose this type it will appear a check in the table;
- NumericInt: if you choose this type you can write integers;
- NumericDbf: if you choose this type you can write decimal numbers.

Once you've edit the table for the series, you can click on "apply" and on "Ok".



Now that you've selected a series you can:

Add Model

Add a model to the series;

Remove Model

Delete a model from the series;

Save

Save modifies.

Export to Excel

Export the table to an excel file;

Import from Excel

Import a table from an excel file;

Edit Tabella

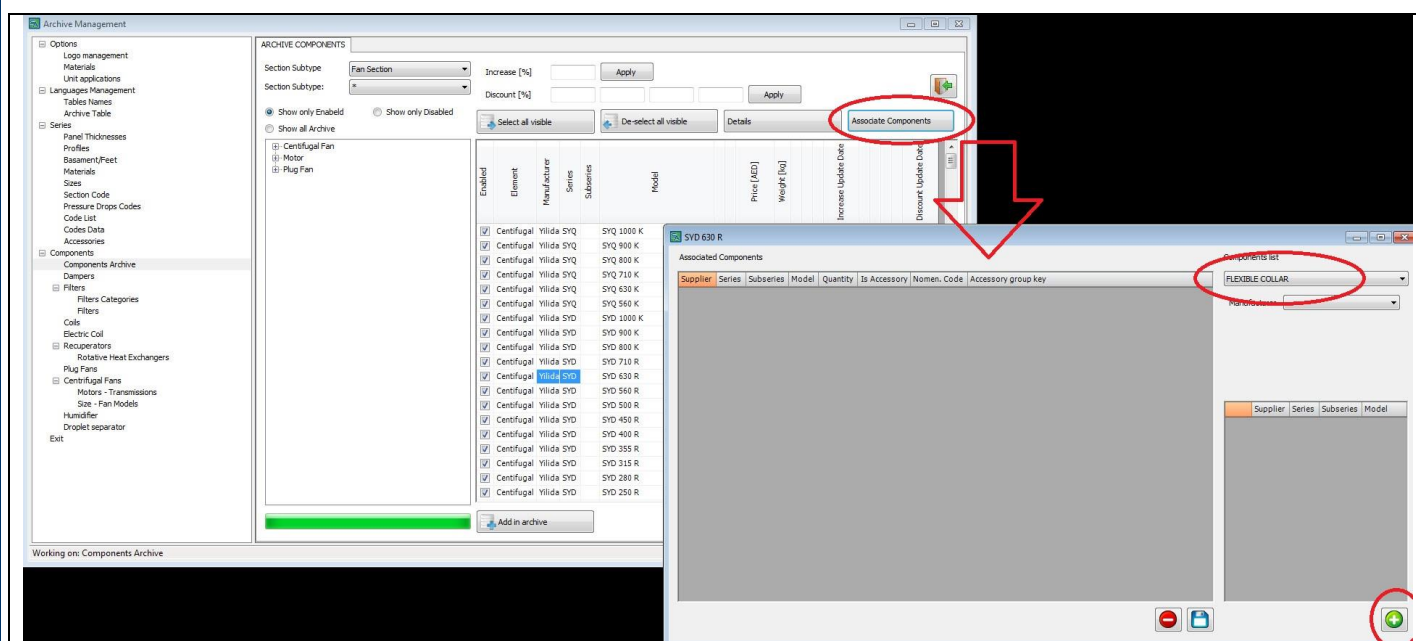
Edit the table.

## V. 1. 1. How to associate a component to another component.

For example, if you need to associate a Flexible collar to a Centrifugal fan.

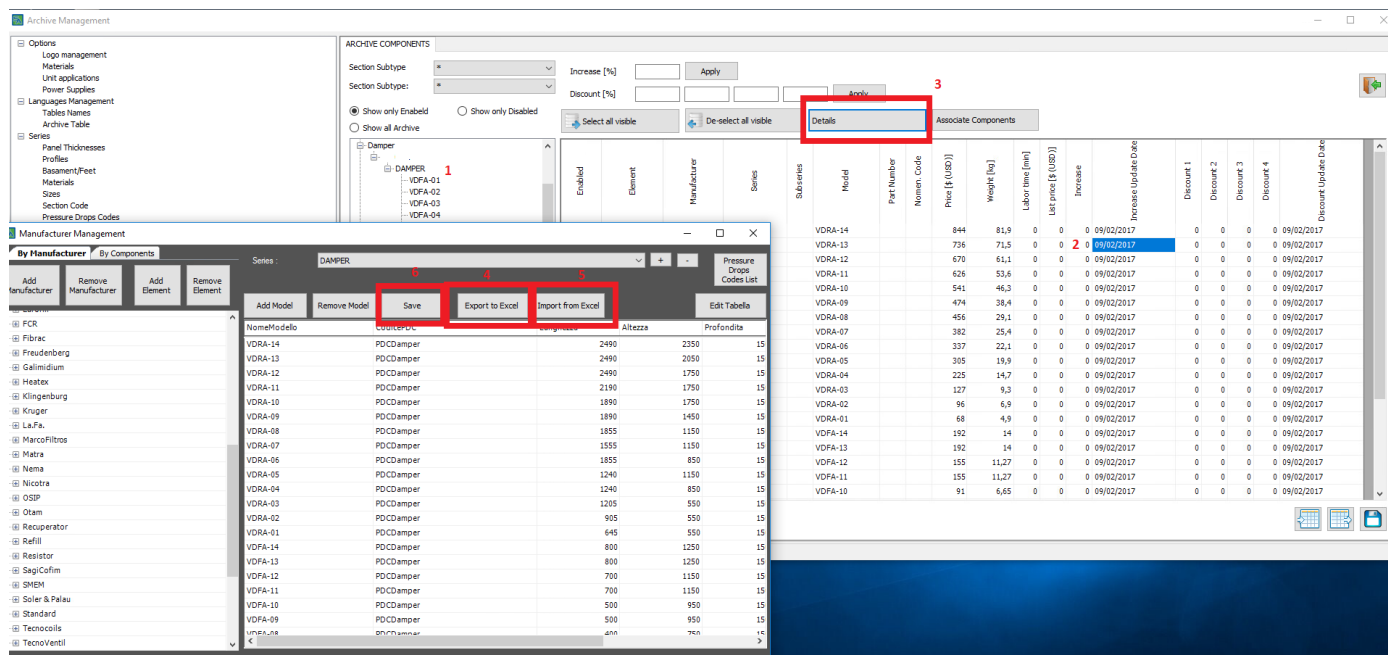
First step: Introduce or enable both components into the Components archive.

Second step: Click on Associate Components and then in following mask choose the flexible collar to associate and save the association.



## V. 1. 2. How to add new models in the Components Archive

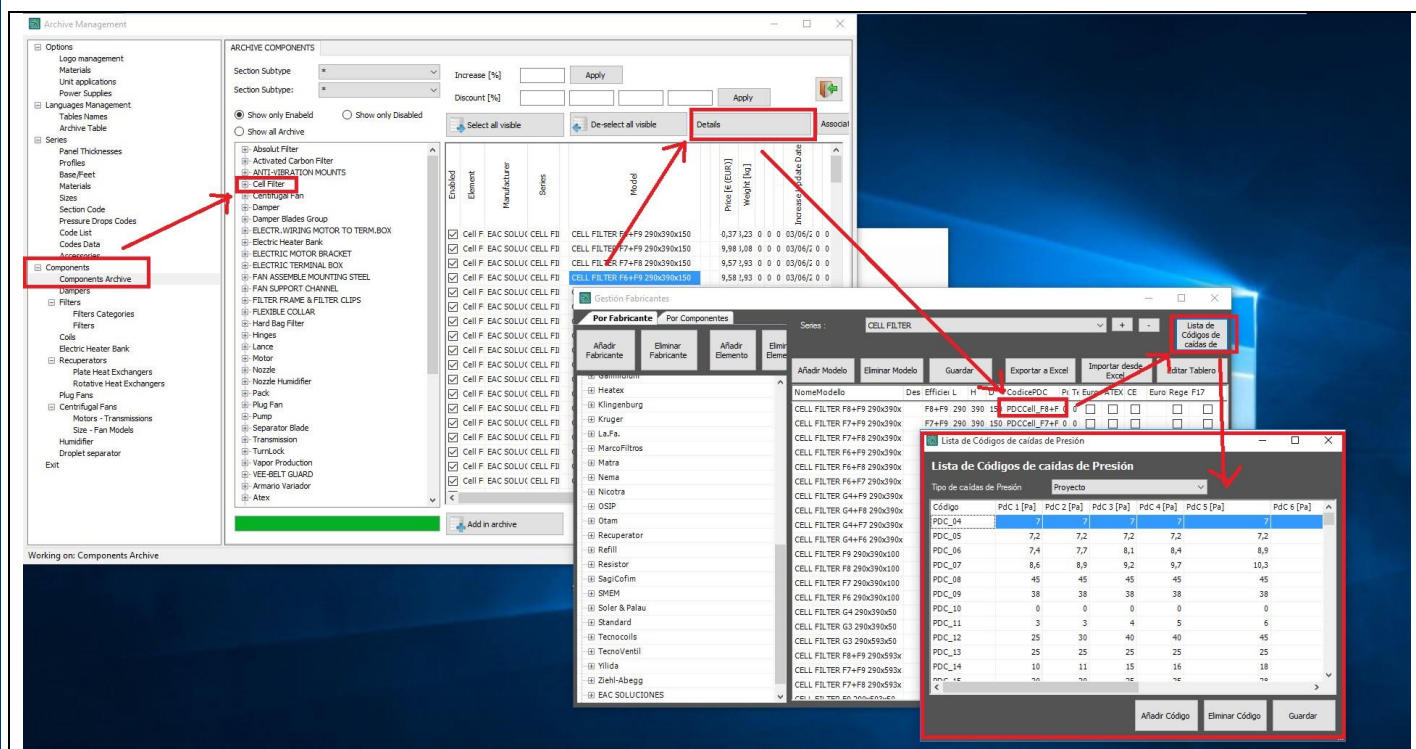
If you need to add new models to an existing Series, follow the step below.



1. Select the Component to which you want to add new elements, for instance DAMPERS.
2. Select one element in the table
3. Click on Details so that it will open the table: Manufacturer Management.
4. Export the list on an excel file by clicking on Export to Excel.
- 4.1. In the Excel file you can only ADD new elements.  
YOU CANNOT:
  - a. Delete lines
  - b. Delete Columns
  - c. Change the order of lines or columns.
 Once that you have added the elements, you can save and
5. Import from Excel by clicking on the button Import from Excel.
6. Save the Excel.

### V. 1. 3. How to associate a pressure drops curve to a component.

If you need to associate a pressure drops curve to a new component inserted in the Archive or you want to check which is the pressure drops associated to the component you need follow the red arrows.



So, once selected the component or once inserted the new component, inside the mask of DETAILS you need to insert the “CodicePDC” (Pressure Drops Code). You can find this code inside List of pressure drops code. If you cannot find the pressure drops curves, you can insert it and then associate it to the component. Pay attention that you need to insert a curve for each Pressure drops type (Clean, Dirty and Design).

### V. 1. 4 How to enable an element just added

When you insert a new element into the Archive, it is automatically set as DISABLE.

So, you have to enable it.

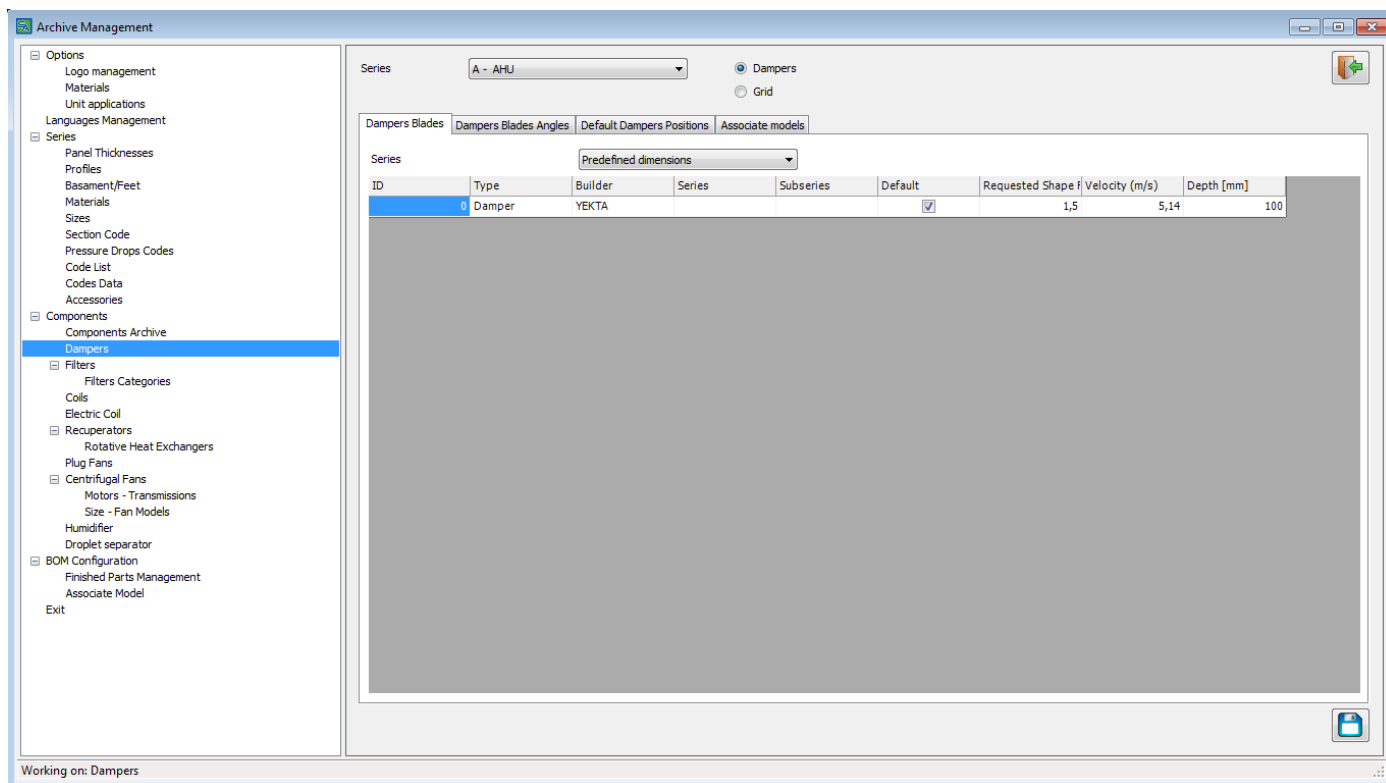
Click on Show Only Disabled, and then look for the elements added.

Select them as visible and Save them.

In this phase you can insert their prices and weights.

Once that you have saved, click on yes, on the message “Do you want to reload the data”? and once that the software has reloaded the data, click on Components on the tree menu on the left and check that all elements you have just added be enabled.

## V. 2 Dampers



In this section you can see in the table the Dampers, damper blades and grid Serie you've enabled in the Section "Select Component to Use".



At the top right of window, you can quit from management



with this button you can save modifies.

Series  here you can choose the Unit series.

☒ Dampers If you check this option, you are in the section "Dampers".

☐ Grid If you check this option, you can go to section "Grid"

## V. 2.1 Dampers blades

Dampers Blades Dampers Blades Angles

Calculation Mode

Predefined dimensions

ID	Type	Builder	Series	Subseries	Default	Requested Shape Format Ratio	Velocity (m/s)
0	Damper	TecnoVentil	STZA C1		<input checked="" type="checkbox"/>	1,5	3,5
1	Damper	TecnoVentil	STA C1		<input type="checkbox"/>	1,5	3,5
2	Damper	TecnoVentil	STZ C1		<input type="checkbox"/>	1,5	3,5
3	Damper	TecnoVentil	STX C1		<input type="checkbox"/>	1,5	3,5

Predefined dimensions

Automatic  
L/H dimensions

Predefined dimensions

Here you can choose the Calculation Mode for dimensions.

In the table, instead, you can choose only Default, Requested Shape Format Ratio and Velocity. The other fields are filled by the software according to previous chooses.

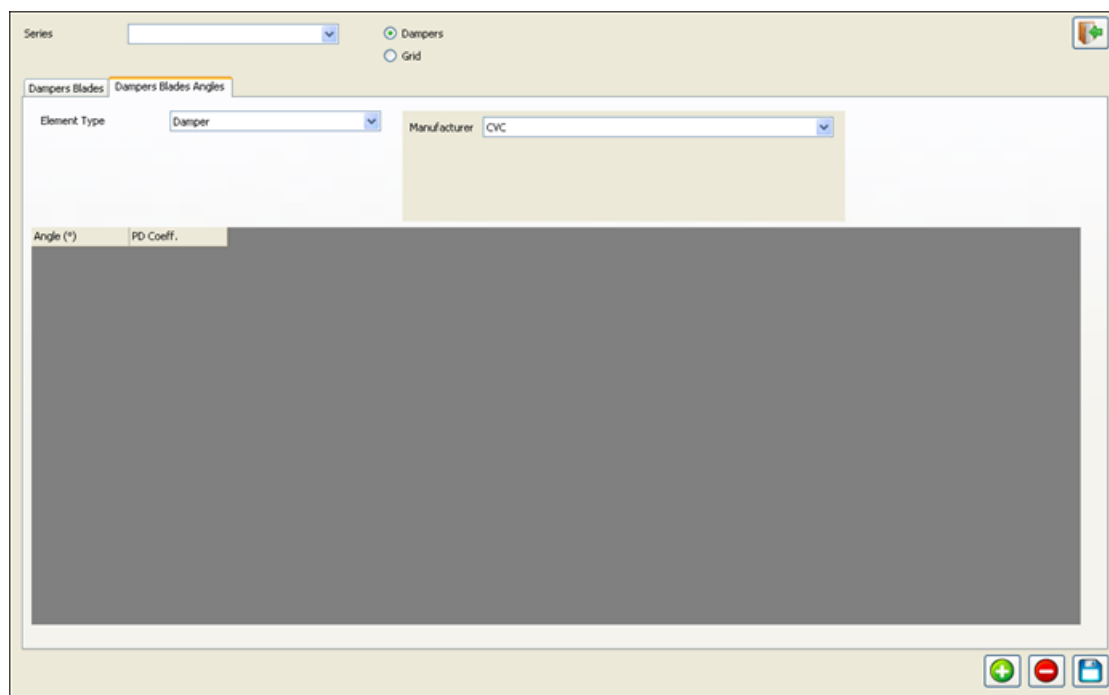
Please, rememeber always to enable the damper and to fullfill the fields:

- Request Shape Format Ratio
- Velocity
- Depth
- 

If you have inserted a list of damper inside the Components Archive, we suggest to use “PREDEFINED DIMENSNIIONS” and passing to tab ASSOCIATE MODELS.

## V. 2.2 Dampers Blades Angles

If you click on the tab "Damper Blades Angle" you'll obtain the follow window:



In this window, for each manufacturer, you can insert the possible angle Damper and its Pressure Drops Coefficient.

At the top right of window, you can quit from management



At the bottom of the window you find:



with this button you can add a new damper.



with this button you can delete an inserted damper.



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Element Type Damper ▼  
Damper  
Damper blade

you can choose if you want to add Angles and Pressure Drops to Dampers or a damper Blades.

Manufacturer CVC ▼  
CVC  
TecnoVentil

You can choose the manufacturer.

In the table, instead, you've to add:

Angle (°)      Angle blades

PD Coeff.      Pressure drop coefficient.

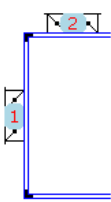
## V. 2.3 Default Dampers Positions

Series
A - AHU
☒ Dampers
☐ Grid

Dampers Blades
Dampers Blades Angles
Default Dampers Positions
Associate models

Damper 1 Default Location
Center

Damper 2 Default Location
Center



In this section, you can decide where set dampers position in a mixing chamber.

## V. 2.4 Associate models

Series
A - AHU

☒ Dampers  
☐ Grid

Dampers Blades
Dampers Blades Angles
Default Dampers Positions
Associate models

Size List

A-AHU 35  
A-AHU 50  
A-AHU 70  
A-AHU 85  
A-AHU 100  
A-AHU 140  
A-AHU 175  
A-AHU 210  
A-AHU 240  
A-AHU 280  
A-AHU 310  
A-AHU 350  
A-AHU 410  
A-AHU 470  
A-AHU 520  
A-AHU 550  
A-AHU 630  
A-AHU 700

Remove Damper

MODEL

DAMPER POSITION

SECTION CODES

DAMPERS NR.

Copy conf.

Paste conf.

Legend:

Selected Models

Manufacturer
YEKTA

MODEL	ADD
D 410H 550L	<input type="checkbox"/>
D 410H 800L	<input type="checkbox"/>
D 410H 1000L	<input type="checkbox"/>
D 410H 1300L	<input type="checkbox"/>
D 410H 1500L	<input type="checkbox"/>
D 410H 1800L	<input type="checkbox"/>
D 510H 1600L	<input type="checkbox"/>
D 610H 1600L	<input type="checkbox"/>
D 610H 2000L	<input type="checkbox"/>
D 710H 2000L	<input type="checkbox"/>
D 710H 1300L	<input type="checkbox"/>
D 710H 1640L	<input type="checkbox"/>
D 810H 1300L	<input type="checkbox"/>
D 810H 1940L	<input type="checkbox"/>
D 710H 2600L	<input type="checkbox"/>

Add

+

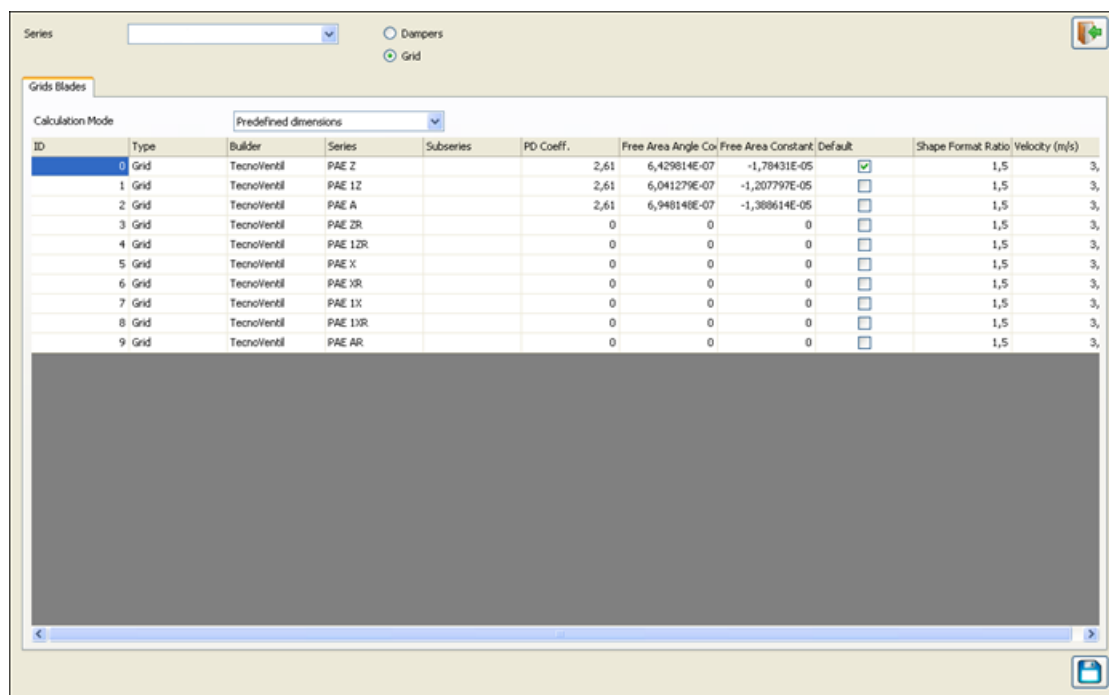
-

In this section, you can associate default dampers to each size.

So, the software when it will be necessary to select a damper, it will take it out from the list of associated dampers. But Pay attention that if you have associated dampers TOO big for the panel dimensions, the software won't show you any damper.

## V. 2.5 Grid

If you check the "Grid" option, you'll obtain the follow window:



In this section you can see in the table the Grid Blades Serie you've enabled in the Section "Select Component to Use".

Beside you can check the Default to use in the BOM and VIEW3.



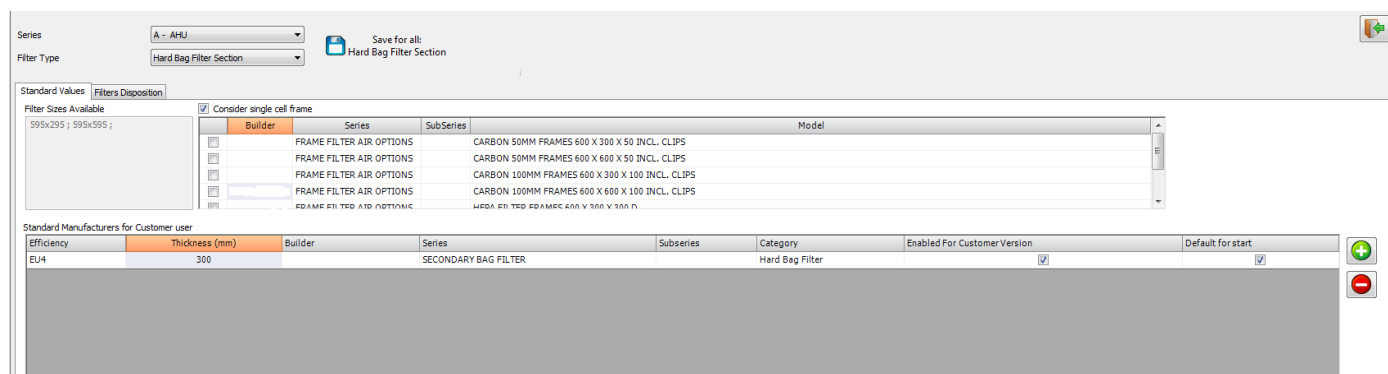
At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

## V. 3 Filters



In this section you can see in the table the filters Serie you've enabled in the Section "Select Component to Use".



At the top right of window, you can quit from management

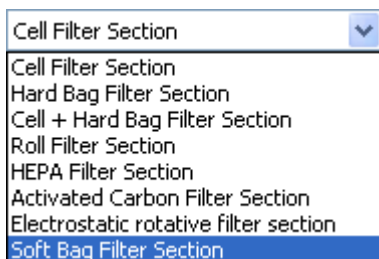


with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.

Filter Type  You can select filter type, and the typology are in the follow image:



Filter typology.

Once selected one typology will appear the table with the enabled filters (see section "Select Component to Use") which the user has add to the list.

At the bottom of the window you find:



with this button you can add a new filter to the list. Pay attention that you can add to the list only enabled filters (see section "Select Component to Use")



with this button you can delete an inserted filter.

Filter Sizes Available



Pay attention on this table. You can see only a few dimensions. The reason is because these dimensions are the common dimensions to all filter of the list below.



If you click on it will appear this window:

Efficiency

F3 ▼

Thickness (mm)

78 ▼

Manufacturer

Aeroglass ▼

Series

FEF ▼

Subseries

499-V-78 ▼

Category

Corrugated galvanized wire mesh filter ▼



Cancel



Add

Where you've to choose, in order to insert an enabled filter, some parameters.



with this button you can quit without saving.



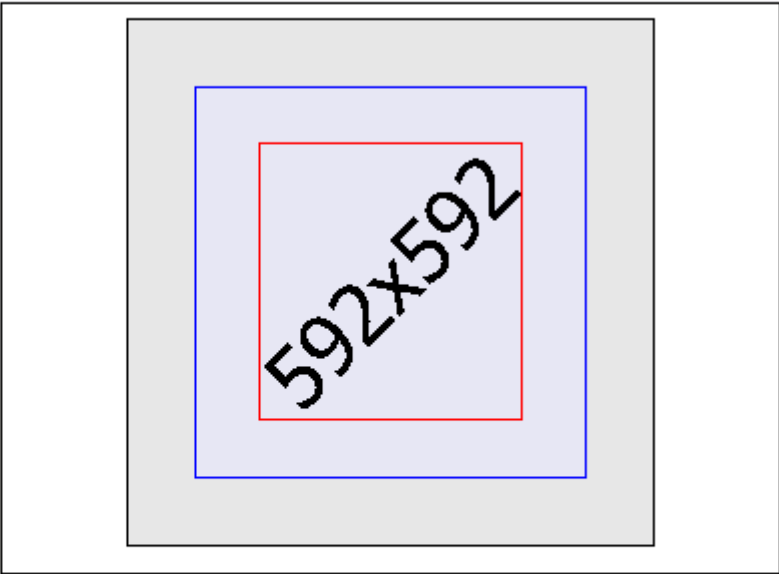
with this button you can quit from the window, saving modifies and so saving filter.

If you pass on tab "Filter disposition" you'll obtain the follow window:

Standard Values
Filters Disposition
Costs And Batch Operations

TG 1  
TG 2  
TG 3  
TG 4  
TG 5  
TG 6  
TG 7  
TG 8  
TG 9  
TG 10  
TG 11  
TG 12  
TG 13  
TG 14  
TG 15  
TG 16  
TG 17  
TG 18  
TG 19  
TG 20  
TG 21  
TG 22  
TG 23  
TG 24  
TG 25  
TG 26  
TG 27  
TG 28  
TG 29  
TG 30

☐ Show 3D



Calculate Automatic Disposition

Create Manual Disposition

Clear Disposition

Here you associate to each size its filter and filter disposition.

Calculate Automatic Disposition

Software will calculate an automatic disposition;

Create Manual Disposition

You can create by yourself a filter disposition;

Clear Disposition

You can reset filter disposition.

If you click on, 

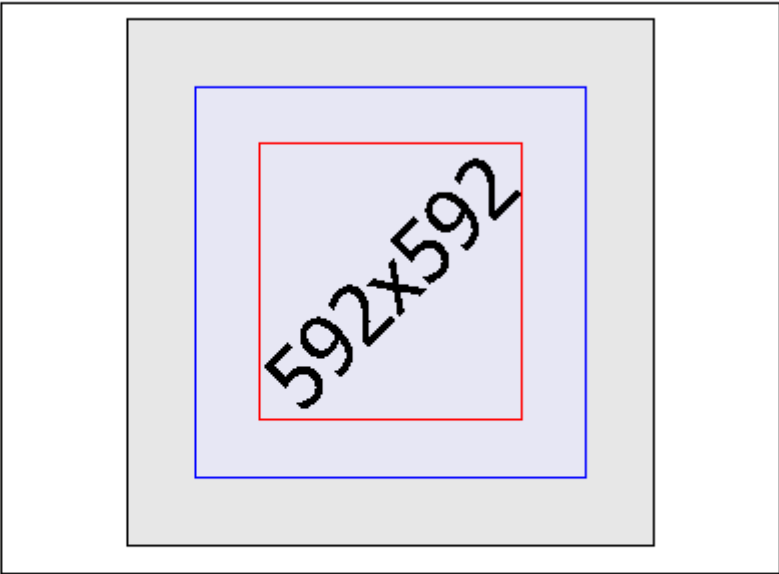
Create Manual Disposition

 you'll obtain the follow window:


Standard Values
Filters Disposition
Costs And Batch Operations


TG 1  
TG 2  
TG 3  
TG 4  
TG 5  
TG 6  
TG 7  
TG 8  
TG 9  
TG 10  
TG 11  
TG 12  
TG 13  
TG 14  
TG 15  
TG 16  
TG 17  
TG 18  
TG 19  
TG 20  
TG 21  
TG 22  
TG 23  
TG 24  
TG 25  
TG 26  
TG 27  
TG 28  
TG 29  
TG 30


☒ Show 3D




592x592  
592x490  
592x287

 Add

 Add Rotate

 Clear

 Update

The red line are limits for coil dimensions, and we know that is sufficient that filter cover frontal coil dimensions. The blue line, instead, is the filter.

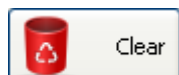
For each size there is already, as default, a filter disposition.



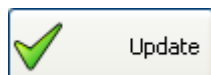
If you click on this button, you can add the selected filter to the drawing;



If you click on this button, you can rotate the filters;



If you click on this button, you can clear the filter disposition.



If you click on this button, the configuration will be saved.

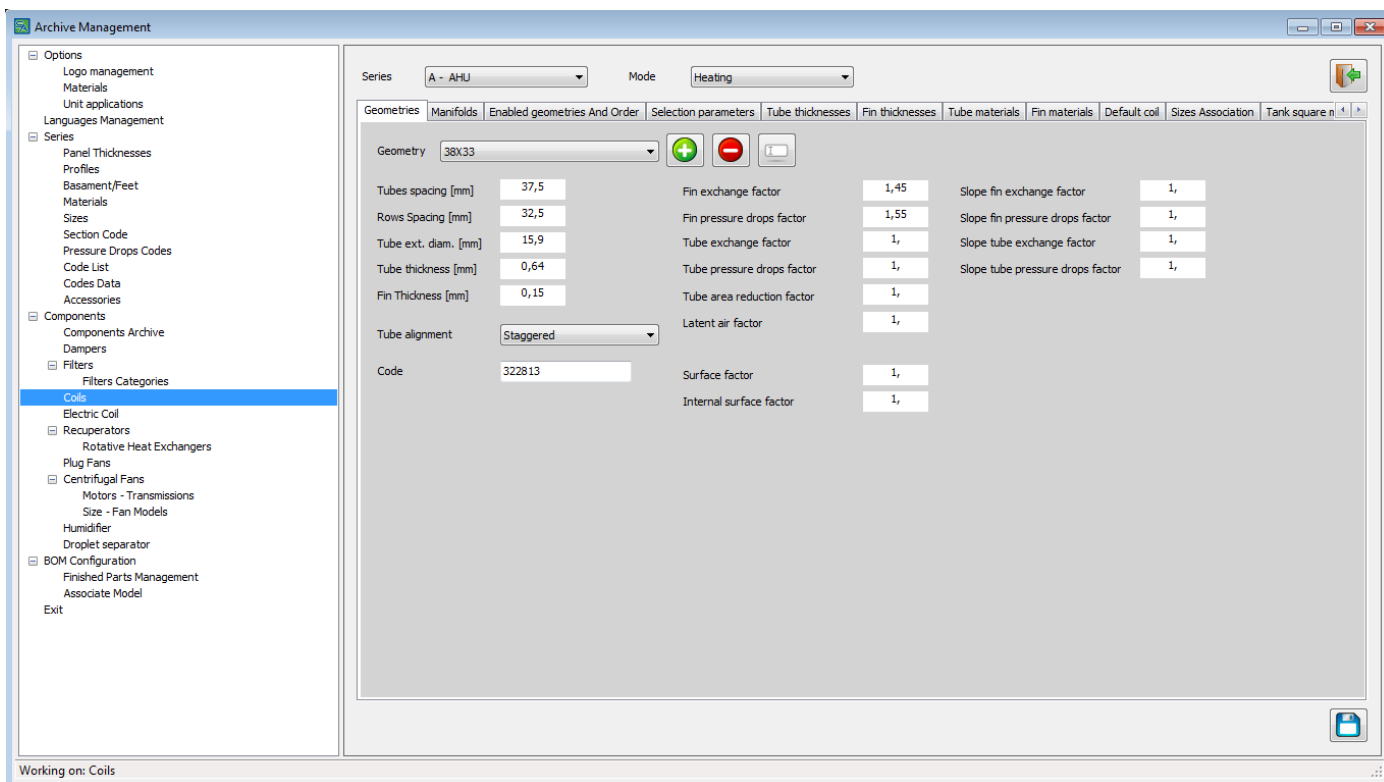
If appear the written next to each size " Missing Disposition", the reason is because for the selected filter type you haven't enabled any filter.



Save for all Cell Filter Section

Once you've done all necessary modifies, click on

## V. 4 Coils



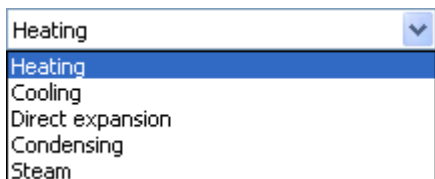
At the top right of window, you can quit from management



with this button you can save modifies.

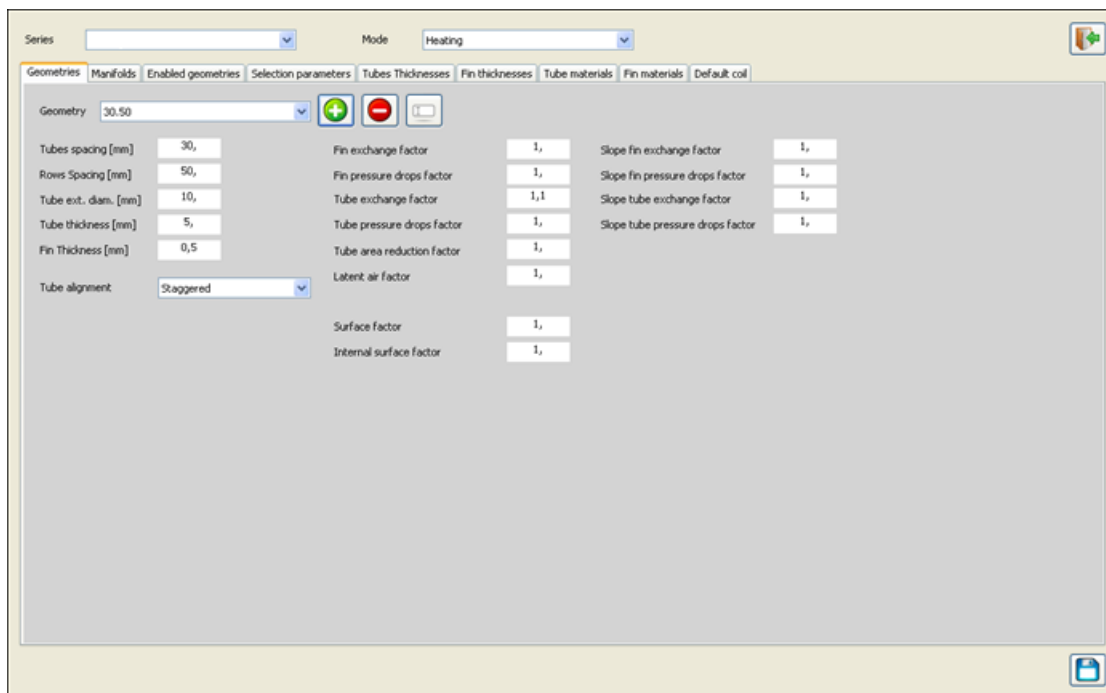
**Please remember always to save your work before leave the management.**

Series  here you can choose the series.



You can choose coil type.

### V. 4.1 Geometry




with this button you can add a new geometry.



with this button you can delete an inserted geometry.



If you click on this button, you can change the geometry name.

In the up window, you can modify all values you can see in the mask.



If you want to insert a new geometry you've to click on  and it will start a wizard to insert a new geometry to the archive.

Let's follow together:

### Fin typology:

New Geometry

Fin Tipology

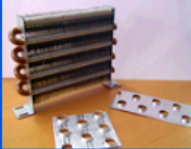

Fin Corrugation

Geometry Data

Tube Corrugation

Geometry Name

Specify the fin tipology:

☒ Integral

☐ Spiroidal

Fin Thickness

mm

0.

Geometry Preview

<< Back

Next >>

### Fin Corrugation:

New Geometry

Fin Tipology

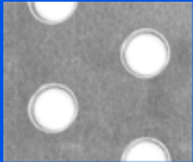
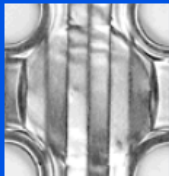
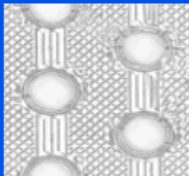
Fin Corrugation

Geometry Data

Tube Corrugation

Geometry Name

Specify the fin corrugation kind:


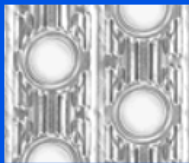
☒ Smooth

☐ Corrugated

☐ Pyramidal

☐ Other

1.

☐ Windowed

☐ Louvered

Geometry Preview

<< Back

Next >>

### Geometry Data:

New Geometry

Fin Tipology


Fin Corrugation


Geometry Data

Tube Corrugation

Geometry Name

Specify the tube alignment kind:


☒ Staggered


☐ Aligned

Specify this geometry data

Tubes Spacing

mm

0,

Rows Spacing

mm

0,

Tube thickness

mm

0,

Tubes External Diameter

mm

0,

Geometry Preview

<< Back

Next >>

### Tube Corrugation:

New Geometry

Fin Tipology


Fin Corrugation


Geometry Data

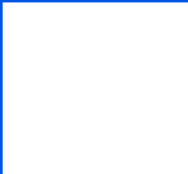
Tube Corrugation

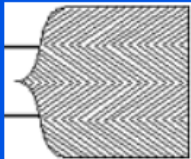
Geometry Name

Specify the tube corrugation kind:


☒ Smooth


☐ Microfin


☐ Gross grooved


☐ Herring bone

☐ Other

1,1

Geometry Preview

<< Back

Next >>

### Geometry Name:

New Geometry

Fin Tipology

Fin Corrugation

Geometry Data

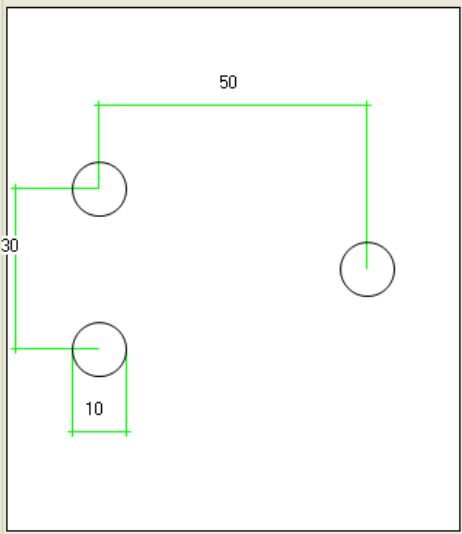
Tube Corrugation

Geometry Name

Specify the geometry description and click finish to add it

Description
30.50

Geometry Preview



<< Back

Finish!

Once you've finished this process, a new geometry coil will be added to the list.

## V. 4. 2 Manifolds

Geometries

Manifolds

Enabled geometries

Selection parameters

Tubes Thicknesses

Fin thicknesses

Tube materials

Fin materials

Default coil

Manifold material

Copper

+

-

Description	External Diameter [mm]	Thickness [mm]
1 3/8"	35	1,5
1 5/8"	42	2
2 1/4"	54	2
2 1/2"	64	2,5
3"	76	2,5
3 1/2"	89	2,5
4 1/4"	108	3
3 1/2"	89	2,5
4 1/4"	108	3
3 1/2"	89	2,5
4 1/4"	108	3
4 1/4"	108	3
5 1/4"	133	3
5/8"	16	1
3/4"	18	1
7/8"	22	1,5
1"	25	1,5
1 1/4"	28	1,5



with this button you can add a new manifold.



with this button you can delete an inserted manifold.

Copper
▼

Copper  
Copper Nickel 90-10  
Steel  
Stainless Steel AISI 304  
Stainless Steel AISI 316

you can choose manifold material.

In the table you've to insert the follow parameters:

Description

Manifold description; it's only a description associated to chosen manifold:

External Diameter [mm]

Manifold external Diameter;


Thickness [mm]

Manifold thickness.

### V. 4. 3 Enabled Geometries and Order

Series A - AHU

Mode Heating



Geometries

Manifolds

Enabled geometries And Order

Selection parameters

Tube thicknesses

Fin thicknesses

Tube materials


Fin materials


Default coil

Sizes Association

Tank square n

Geometry	Enabled
38X33	<input checked="" type="checkbox"/>





In this section you have to choose which geometries you want to see in the Selection software.

### V. 4. 4 Selection Parameters

Series: A - AHU
Mode: Heating

Geometries | Manifolds | Enabled geometries And Order | Selection parameters | Tube thicknesses | Fin thicknesses | Tube materials | Fin materials | Default coil | Sizes Association | Tank square n

### GEOMETRY

Geometries: 38X33

Fin spacings
☐ Use Fins Per Inch (FPI)

+ Spacing [mm]

1,8
2,1
2,5
3,2

### MODE

Min. rows	<span>1,</span>	Min. fluid velocity [m/s]	<span>0,5</span>
Max. rows	<span>3,</span>	Max. fluid velocity [m/s]	<span>1,7</span>
		Racc. min. fluid velocity [m/s]	<span>0,9</span>
		Racc. max. fluid velocity [m/s]	<span>1,1</span>

Inlet air Temperature	°C	<span>20,</span>
Inlet air rel. Humidity	%	<span>60,</span>
Outlet air temperature	°C	<span>32,</span>
Outlet air rel. humidity	%	<span>40,</span>
Inlet fluid temperature	°C	<span>70,</span>
Outlet fluid temperature	°C	<span>60,</span>
Max fluid pressure drops	kPa	<span>50,</span>

☒ Set calculation with fluid flow default

☐ Capacity Tolerance

In this window you have to insert the values you want to open the calculation mask in the Selection Software to select coils.



with this button you can add a new fin spacing.



with this button you can delete an inserted fin spacing.

The list of possible fin spacing will be visible in the calculation mask to select the coil, in the selection software.

## V. 4. 5 Tube Thickness

Series
A - AHU
Mode
Heating

Geometries
Manifolds
Enabled geometries And Order
Selection parameters
Tube thicknesses
Fin thicknesses
Tube materials
Fin materials
Default coil
Sizes Association
Tank square n

Geometry
38X33

Thickness [mm]	Aluminium fin	Copper fin	Iron	Stainless steel
0,25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,64	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In this window you have to insert the values you want for tube thickness for each geometry.



with this button you can add a new tube thickness dimension.



with this button you can delete an inserted tube thickness.

The list of possible tube thickness will be visible in the calculation mask to select the coil, in the selection software.

## V. 4. 6 Fin Thickness

Series
A - AHU
Mode
Heating

Geometries
Manifolds
Enabled geometries And Order
Selection parameters
Tube thicknesses
Fin thicknesses
Tube materials
Fin materials
Default coil
Sizes Association
Tank square n

Geometry
38X33

Thickness [mm]	Aluminium fin	Copper fin
0,12	<input type="checkbox"/>	<input type="checkbox"/>
0,14	<input type="checkbox"/>	<input type="checkbox"/>
0,15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0,16	<input type="checkbox"/>	<input type="checkbox"/>
0,2	<input type="checkbox"/>	<input type="checkbox"/>
0,42	<input type="checkbox"/>	<input type="checkbox"/>
0,5	<input type="checkbox"/>	<input type="checkbox"/>
0,65	<input type="checkbox"/>	<input type="checkbox"/>

In this window you have to insert the values you want for fin thickness for each geometry.



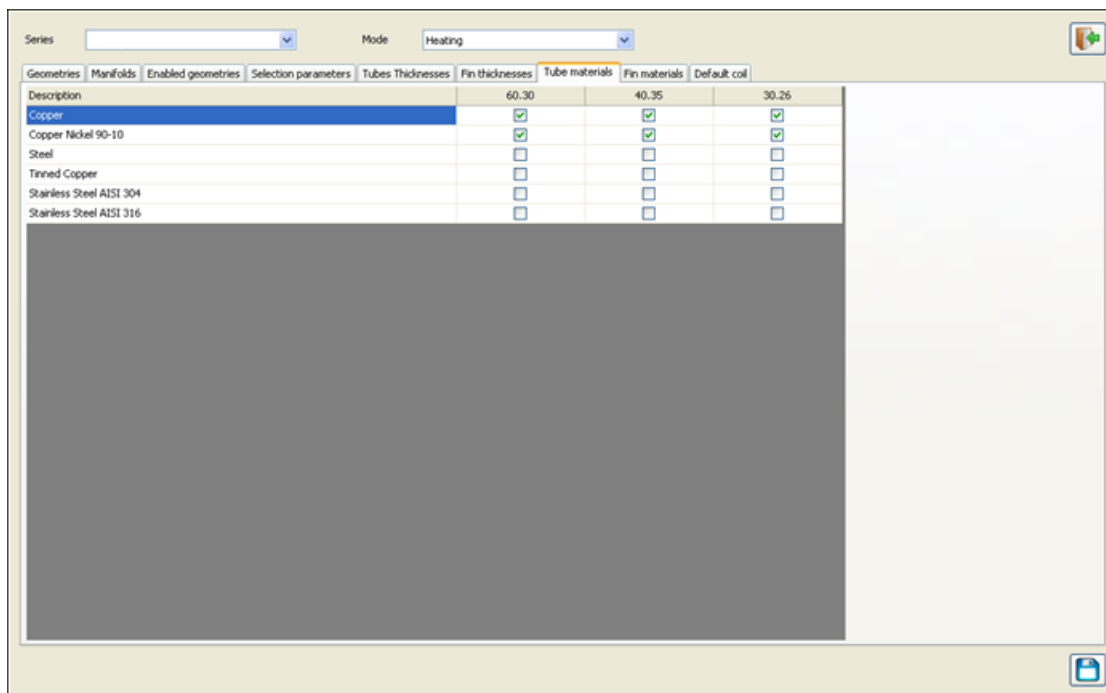
with this button you can add a new fin thickness dimension.



with this button you can delete an inserted fin thickness.

The list of possible fin thickness will be visible in the calculation mask to select the coil, in the selection software.

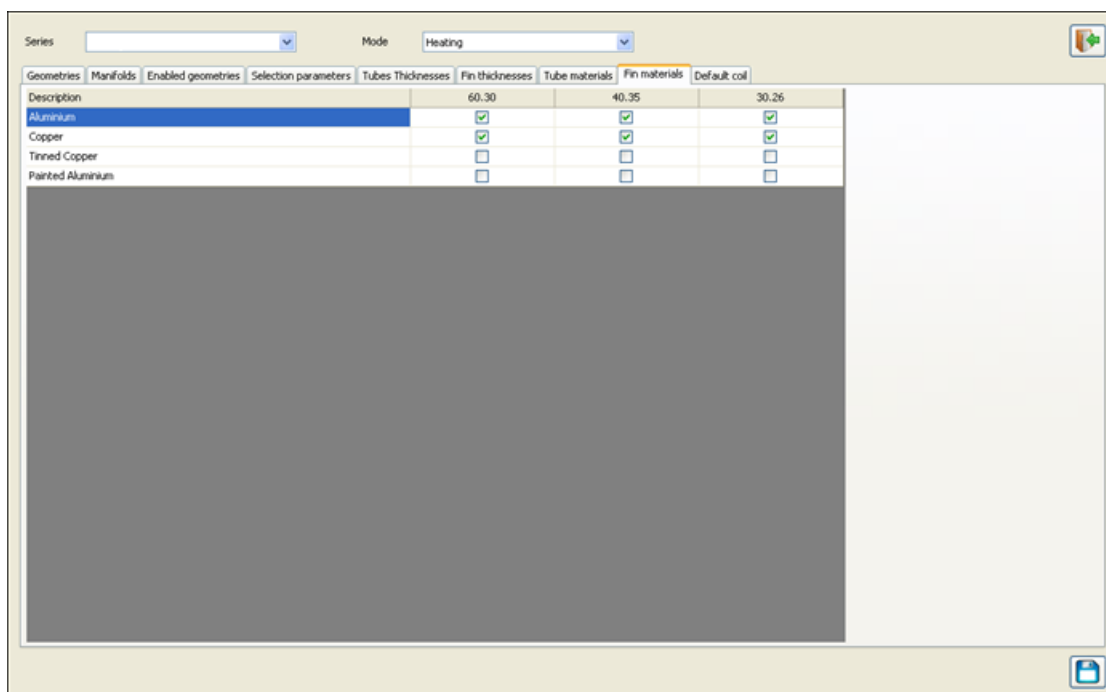
## V. 4. 7 Tube materials



Description	60.30	40.35	30.26
Copper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Copper Nickel 90-10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tinned Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel A151 304	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel A151 316	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In this window you've to check the default tube material for each geometry.  
The list of possible material will be visible in the calculation mask to select the coil, in the selection software.

## V. 4. 8 Fin materials



Description	60.30	40.35	30.26
Aluminum	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Copper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tinned Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In this window you've to check the default tube material for each geometry.  
The list of possible material will be visible in the calculation mask to select the coil, in the selection software.

## V. 4. 9 Default Coil

Geometries
Manifolds
Enabled geometries
Selection parameters
Tubes Thicknesses
Fin thicknesses
Tube materials
Fin materials
Default coil

Geometry: 30,26  
Nr. Rows: 2,  
Fin Pitch: 2,5  
Fin Material: Aluminium  
Tube Material: Copper  
Frame Material: Galvanized Steel  
Header material: Copper  
Inlet header: 2 1/2"  
Inlet header: 2 1/2"  
Material thickness: 1,5

In this window you have to choose which default geometry and values you want as default when, in the selection software, you start to calculate a coil.

## V. 4. 10 Sizes Associations

Archive Management

Options
Logo management
Materials
Unit applications
Languages Management
Tables Names
Archive Table
Series
Panel Thicknesses
Profiles
Basament/Feet
Materials
Sizes
Section Code
Pressure Drops Codes
Code List
Codes Data
Accessories
Components
Components Archive
Dampers
Filters
Filters Categories
Filters
Coils
Electric Coil
Recuperators
Plate Heat Exchangers
Rotative Heat Exchangers
Plug Fans
Up And Down Stream Lengths
Centrifugal Fans
Motors - Transmissions
Size - Fan Models
Humidifier
Droplet separator
Exit

Series: SC Mode: Heating

Geometries
Manifolds
Enabled geometries And Order
Selection parameters
Tube thicknesses
Fin thicknesses
Tube materials
Fin materials
Default coil
Sizes Association
Tank square n


Size	P40-16	P60-16	P30-16	P30-12
SC - 18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 70	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 90	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 120	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 140	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 170	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 200	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 240	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 265	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 300	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 305	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 350	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 430	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 480	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 550	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 600	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 650	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 750	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 800	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SC - 850	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Working on: Coils

## V. 4. 11 Tank Square meter

Series A - AHU

Mode Heating



Selection parameters

Tube thicknesses

Fin thicknesses

Tube materials

Fin materials

Default coil

Sizes Association

Tank square meter

Tube/Fin Material Associations

Coil Price Code

Code

Description

TANK

Drip Tray BOM

Code

Description

Rows Number

A-AHU 35

A-AHU 50

A-AHU 70

A-AHU 85

A-AHU 100

A-AHU 140

A-AHU 175

A-AHU 210


A-AHU 240


A-AHU 280


A-AHU 310

A-A

TANK	Drip Tray BOM	2	0,4	0,57	0,73	0,73	0,73	0,9	1,06	1,06	2,12	2,46	2,78
TANK	Drip Tray BOM	3	0,4	0,57	0,73	0,73	0,73	0,9	1,06	1,06	2,12	2,46	2,78
TANK	Drip Tray BOM	4	0,4	0,57	0,73	0,73	0,73	0,9	1,06	1,06	2,12	2,46	2,78
TANK	Drip Tray BOM	5	0,44	0,62	0,8	0,8	0,8	0,95	1,16	1,16	2,32	2,68	3,04
TANK	Drip Tray BOM	6	0,44	0,62	0,8	0,8	0,8	0,95	1,16	1,16	2,32	2,68	3,04
TANK	Drip Tray BOM	7	0,47	0,67	0,86	0,86	0,86	1,06	1,25	1,25	2,5	2,9	3,28
TANK	Drip Tray BOM	8	0,47	0,67	0,86	0,86	0,86	1,06	1,25	1,25	2,5	2,9	3,28
TANK	Drip Tray BOM	9	0,51	0,72	0,93	0,93	0,93	1,14	1,35	1,35	2,7	3,12	3,54
TANK	Drip Tray BOM	10	0,51	0,72	0,93	0,93	0,93	1,14	1,35	1,35	2,7	3,12	3,54







In this section you can associate the tank square meter to each size and to the number of rows of the coil.

## V. 4. 12 Tube/Fin Material Associations

Series
A - AHU
Mode
Heating

Selection parameters
Tube thicknesses
Fin thicknesses
Tube materials
Fin materials
Default coil
Sizes Association
Tank square meter
Tube/Fin Material Associations
Coil Price Code

Tube Material

Description
Aluminium fin
Copper fin
Iron
Stainless steel

Fin Material

Description
Aluminium fin
Copper fin

Tube/Fin Material Associations

Tube Material	Fin Material
Copper fin	Aluminium fin
Iron	Aluminium fin

+

-

In this section you can create the combination tube material/Fin material in order to create the table in next tab.



In this section you can add and associate to each Size Unit the electric coil you've enabled in the Section "Select Component to Use".



At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.

For each Unit size there are already associated some electric coils.



Remove Electric coil

If you click on this button, you can delete the selected coil of the table.



Copy conf.

If you click on this button, you can copy the check configuration.



Paste conf.

If you click on this button, you can paste the copied check configuration.

Manufacturer

Standard



you can choose electric coil manufacturer.

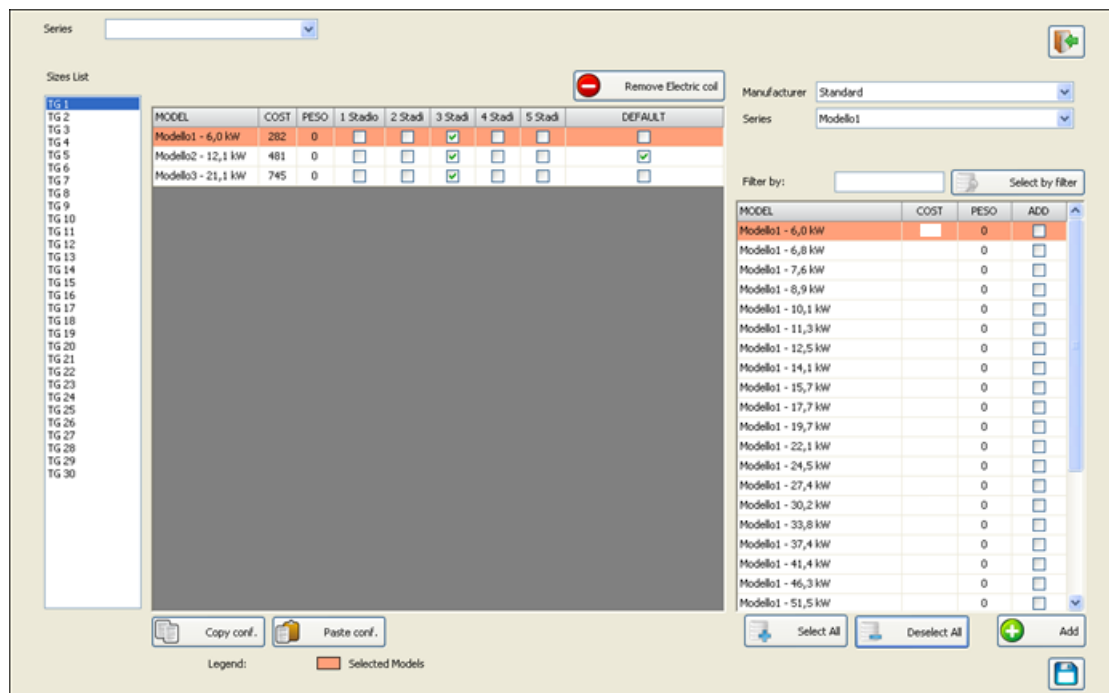
Series

Modello1



You can choose the electric coil series. (Remember to see at Section "Select Component to Use" which Electric Coil Series you've enabled)

Once you chose these two options, you'll obtain:

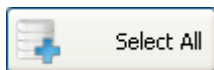


The screenshot shows the 'Archive management' window. On the left, there is a 'Sizes List' with unit sizes from TG 1 to TG 30. The main area contains a table with columns: MODEL, COST, PESO, 1 Stadio, 2 Stadi, 3 Stadi, 4 Stadi, 5 Stadi, and DEFAULT. The table lists three models: Modello1 - 6,0 kW, Modello2 - 12,1 kW, and Modello3 - 21,1 kW. On the right, there are dropdown menus for 'Manufacturer' (Standard) and 'Series' (Modello1). Below these are 'Filter by:' and 'Select by filter' options. At the bottom, there are buttons for 'Copy conf.', 'Paste conf.', 'Remove Electric coil', 'Select All', 'Deselect All', 'Add', and 'Save'.

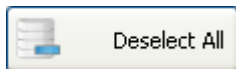
**\* Please note: prices and costs have been deleted from the images for privacy reasons.**

Where on the right you can see the possible electric coil you can add to the selected Unit Size. These coils have been enabled in section "Select Component to Use".

If you check on one of the electric coil of the list you can add this one to the default list, associated to each size.



If you click on this button all electric coils will be checked.



If you click on this button all electric coil will be de - checked



If you click on this button, all checked coils will be added to the default list.

## V. 6 Recuperators

### V. 6. 1 Plate Heat Exchangers

In this section you can add and associate to each Size Unit the Plate Heat Exchangers you've enabled in the Section "Select Component to Use".

**Pay attention to associate Plate Heat Exchangers to each Unit Size of each Unit Series. Otherwise you will not find any heat recovery in the selection.**

Then, please, pay attention to associate compenents which can be phisically introduced inside the units. Otherwise, during the selectionyou will not find any results



At the top right of window, you can quit from management

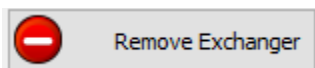


with this button, you can save modifies.

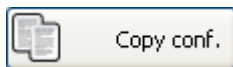
**Please remember always to save your work before leave the management.**

Series

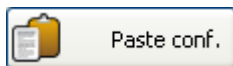
here you can choose the series.



If you click on this button, you can delete the selected exchanger from the table.



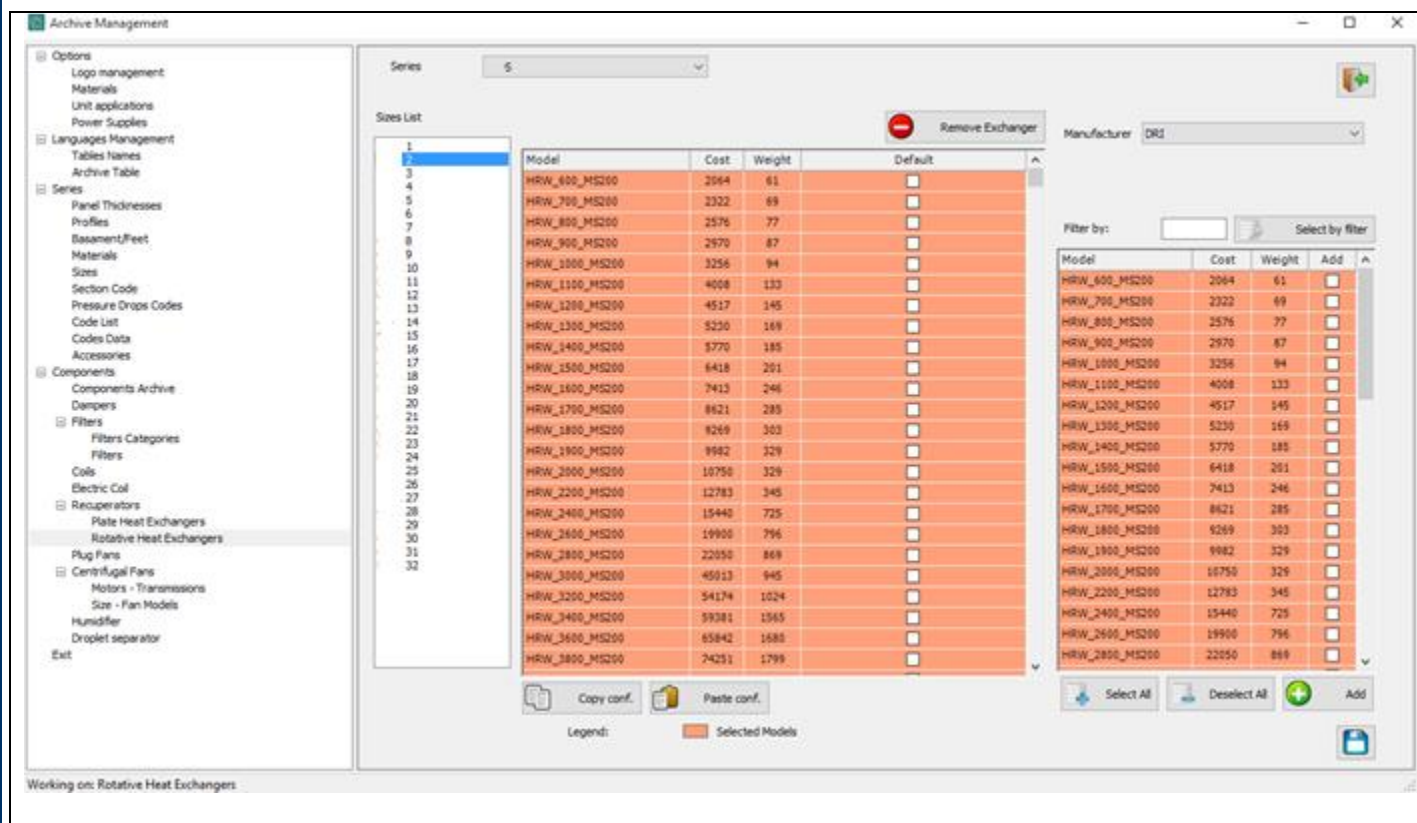
If you click on this button, you can copy the check configuration.



If you click on this button, you can paste the copied check configuration.

On the right side of the window, you can choose some option to select and associate exchanger to the size.

### V. 6. 2 Rotative Heat Exchangers



In this section you can add and associate to each Size Unit the Plate Heat Exchangers you've enabled in the Section "Select Component to Use".

**Pay attention to associate Heat Exchangers to each Unit Size of each Unit Series. Otherwise you will not find any heat recovery in the selection.**

Then, please, pay attention to associate components which can be physically introduced inside the units. Otherwise, during the selection you will not find any results

At the top right of window, you can quit from management



with this button, you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.



Remove Exchanger

If you click on this button, you can delete the selected exchanger from the table.



Copy conf.

If you click on this button, you can copy the check configuration.

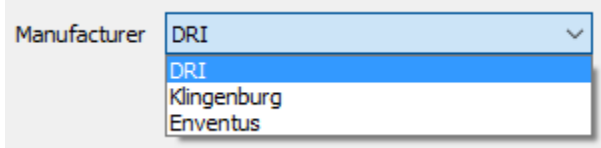


Paste conf.

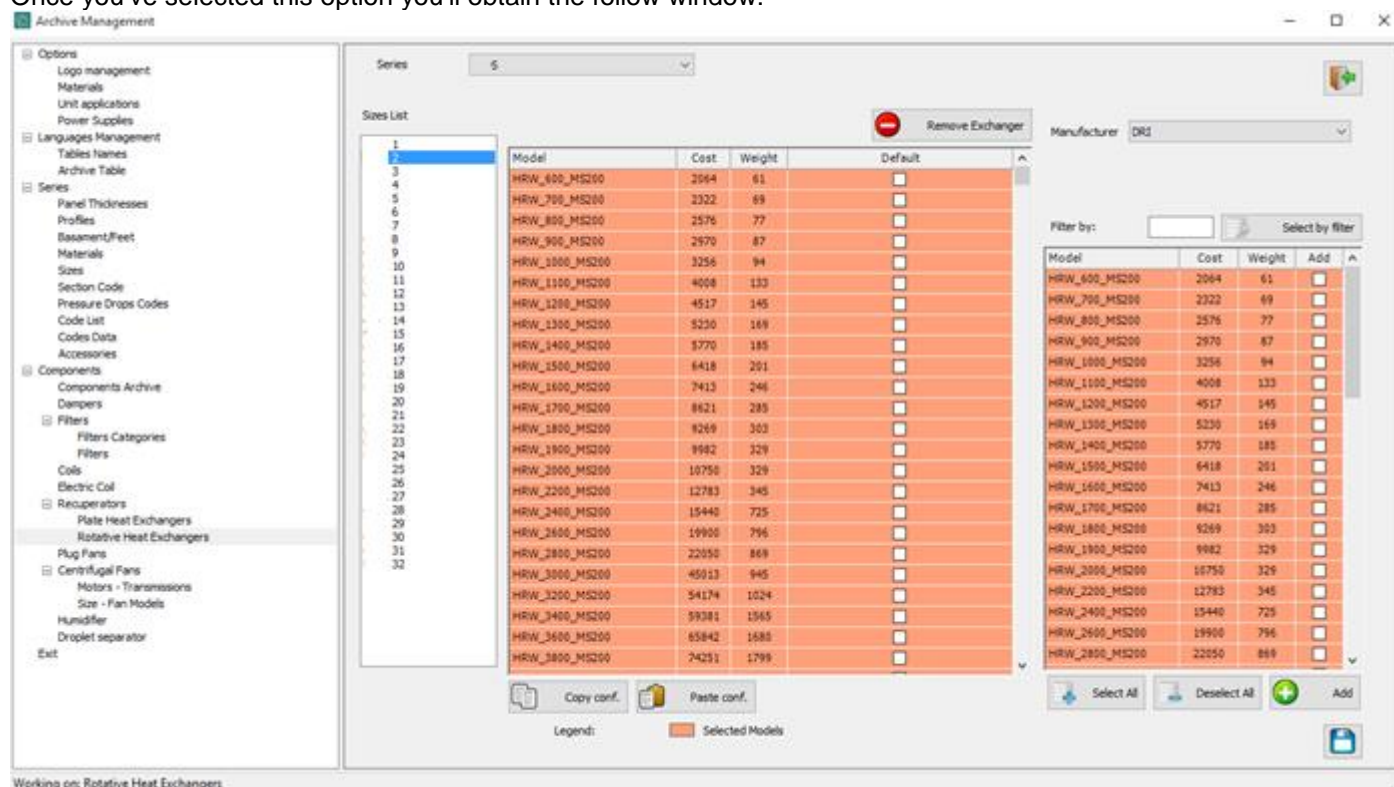
If you click on this button, you can paste the copied check configuration.

On the right side of the window, you can choose some option to select and associate exchanger to the size.

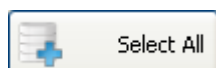
On the right side of the window, you can choose some option to select and associate exchanger to the size.



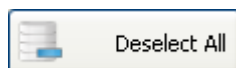
Once you've selected this option you'll obtain the follow window:



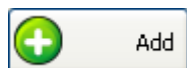
Where on the right side you can see the list of the available Exchanger models which have been enabled in the Section "Select Component to Use"



If you click on this button all exchangers will be checked.

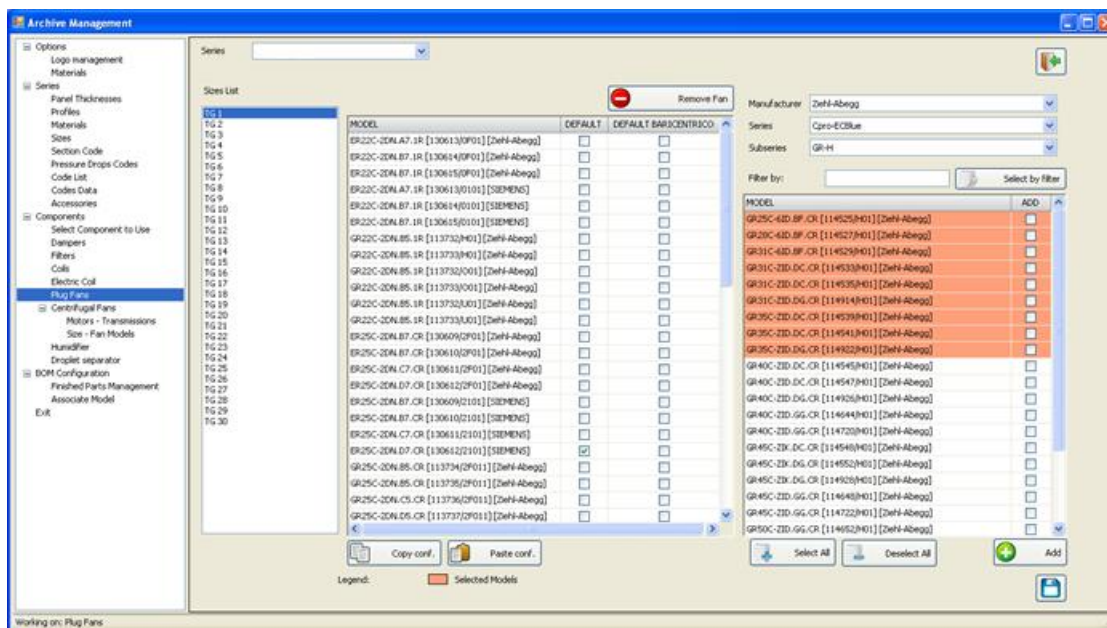


If you click on this button all exchangers will be de - checked.



If you click on this button, all checked exchangers will be added to the default list.

## V. 7 Plug Fans



In this section you can add and associate to each Size Unit the Plug Fan you've enabled in the Section "Select Component to Use".

Pay attention to associate Fans to each Unit Size of each Unit Series. Otherwise you will not find any fan in the selection.

At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.



Remove Fan

If you click on this button, you can delete the selected fan from the table.



Copy conf.

If you click on this button, you can copy the check configuration.



Paste conf.

If you click on this button, you can paste the copied check configuration.

On the right side of the window, you can choose some option to select and associate fan to the size.

Manufacturer

Here you can choose the fan Manufacturer;

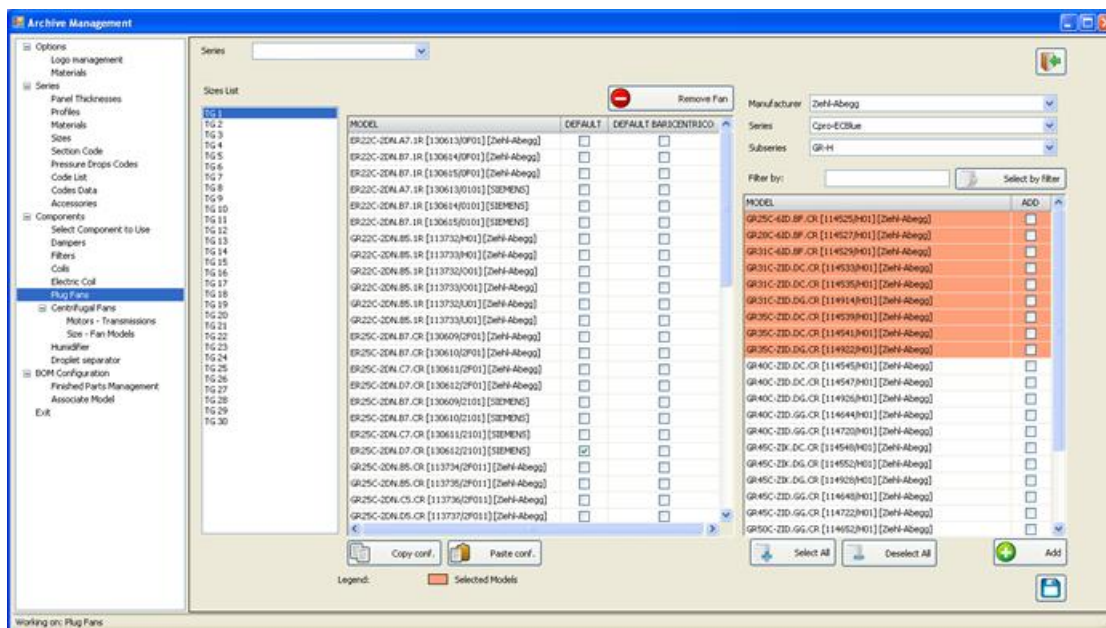
Series

Here you can choose the fan series;

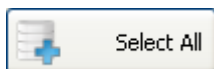
Subseries

Here you can choose the subseries fan;

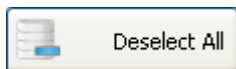
Once you've selected this option you'll obtain the follow window:



Where on the right side you can see the list of the waivable Plug Fan models which have been enabled in the Section "Select Component to Use"



If you click on this button all fans will be checked.



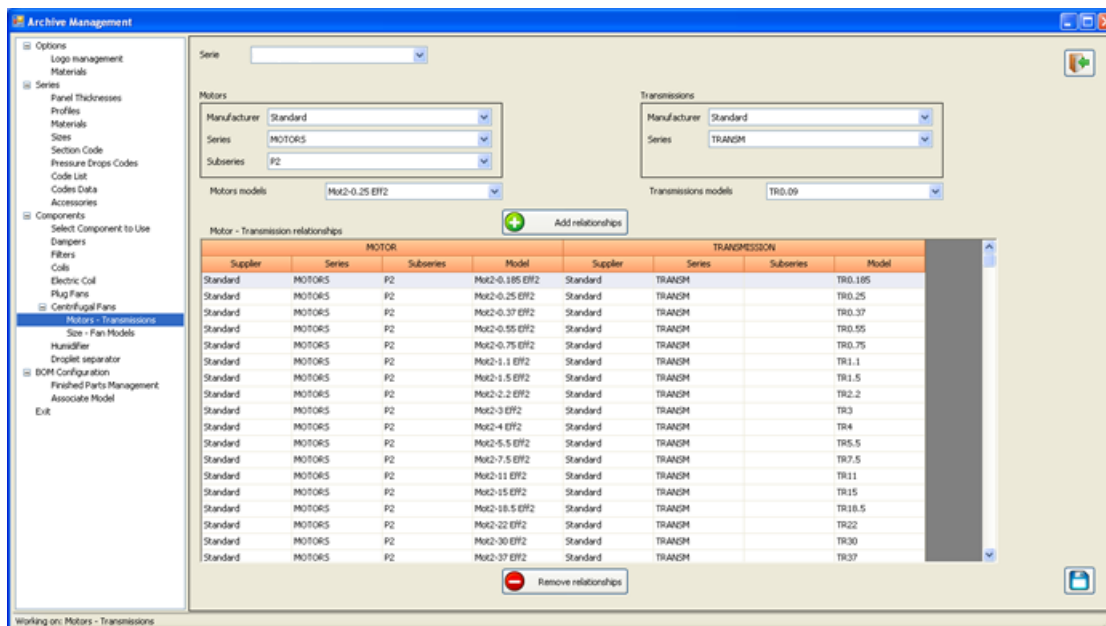
If you click on this button all fans will be de - checked.



If you click on this button, all checked fans will be added to the default list.

## V. 8 Centrifugal Fans

### V. 8. 1 Motor Transmissions



In this section you can create a couple Motor - Transmission to associate to each centrifugal fan in the Section "Size - Fan Models".



At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.

#### Motors

Manufacturer	<input type="text" value="Standard"/>
Series	<input type="text" value="MOTORS"/>
Subseries	<input type="text" value="P2"/>
Motors models	<input type="text" value="Mot2-0.25 Eff2"/>

On the left side of the main window you can choose the fan motor type: so the Manufacturer, the series and the subseries. Once you've checked these three options, in the drop down menu it will appear the created Motor model. The possible options among you can choose have been enabled in the Section "Select Component to Use".

#### Transmissions

Manufacturer	<input type="text" value="Standard"/>
Series	<input type="text" value="TRANSM"/>
Transmissions models	<input type="text" value="TR0.12"/>

On the right side of the main window you can choose the fan transmissions type: so the Manufacturer and the series. Once you've checked these two options, in the drop down menu it will appear the created transmission model. The possible options among you can choose have been enabled in the Section "Select Component to Use".



Add relationships

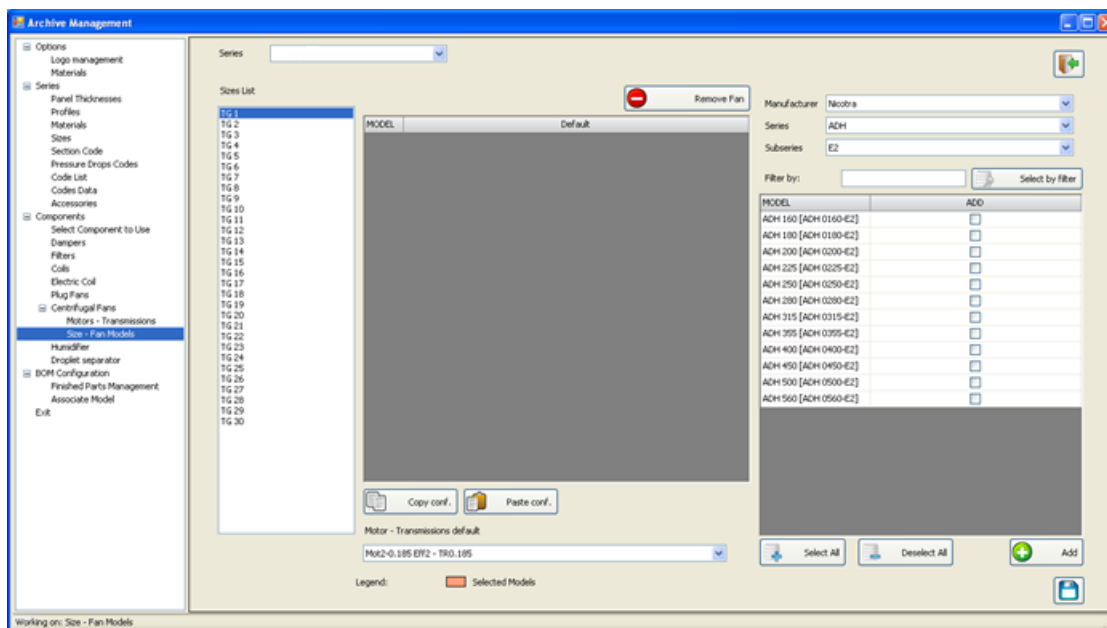
Once you've chosen the fan motor and transmissions, you can add these relationships to the table.



Remove relationships

If you click on this button, you can remove the selected created relationship.

## V. 8. 2 Size - Fan Models



In this window, you can associate for each Unit Size its fans. The possible fans to associate to each Size have been enabled in the Section "Select component to Use"

Pay attention to associate Fans to each Unit Size of each Unit Series. Otherwise you will not find any fan in the selection.



At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

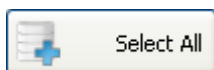
Series  here you can choose the series.

On the right side of the window you can select several options to choose the fans to associate to each size.

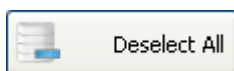
Manufacturer  Here you can select Fan manufacturer;

Series  Here you can choose the Serie to associate to each Unit Size;

Subseries  Here you can select the subserie to associate to each Unit Size.



If you click on this button all fans will be checked.



If you click on this button all fans will be de - checked.



If you click on this button, all checked fans will be added to the default list.



Remove Fan

If you click on this button, you can delete the selected fan from the table.



Copy conf.

If you click on this button, you can copy the check configuration.



Paste conf.

If you click on this button, you can paste the copied check configuration.

Motor - Transmissions default

Mot2-0.185 Eff2 - TR0.185

Mot2-0.185 Eff2 - TR0.185

Mot2-0.25 Eff2 - TR0.25

Mot2-0.37 Eff2 - TR0.37

Mot2-0.55 Eff2 - TR0.55

Mot2-0.75 Eff2 - TR0.75

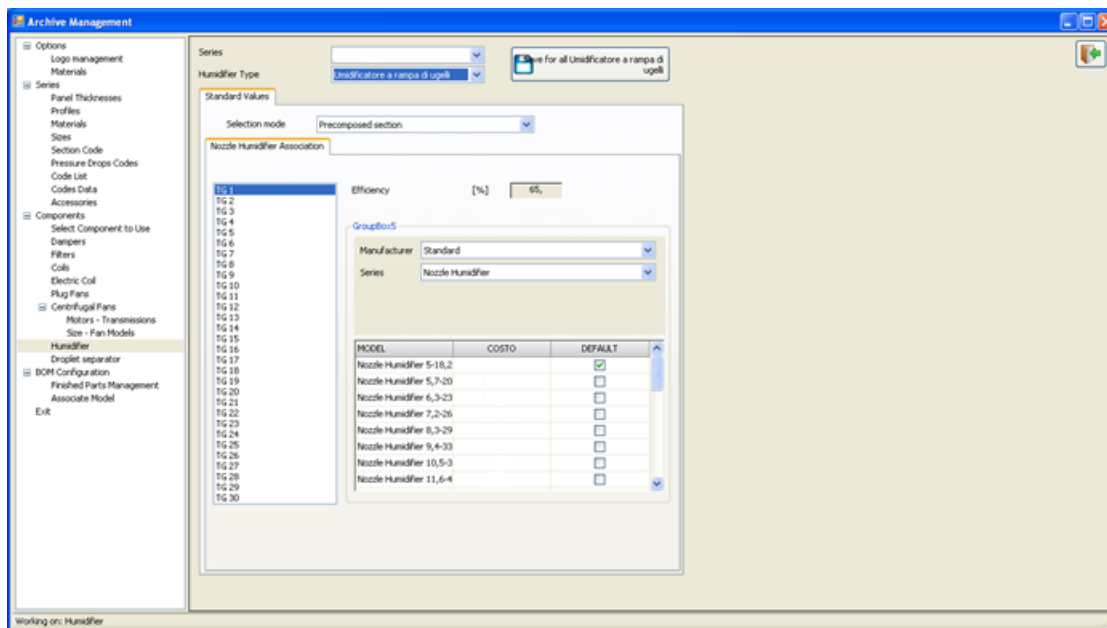
Mot2-1.1 Eff2 - TR1.1

Mot2-1.5 Eff2 - TR1.5

Mot2-2.2 Eff2 - TR2.2

Finally, here, you can associate to each fan its motors plus transmissions which have been chosen in the previous Section (Motorts - Transmissions)

## V. 9 Humidifier



**\* Please note: prices and costs have been deleted from the images for privacy reasons.**

In this section you can associate to each size the nozzles, pump and humidifiers which have been enabled in the Section "Select Component to Use".



At the top right of window, you can quit from management



Save for all Umidificatore a rampa di ugelli

with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.

Umidificatore a rampa di ugelli  
 Umidificatore a rampa di ugelli  
 Umidificatore a pacco

Here you can choose for which kind of humidifier you want insert data.

## V. 9. 1 Nozzles Humidifiers

Precomposed section  
 Nozzle Selection  
 Precomposed section

Here you can choose the selection mode. Now we start with "Precomposed Section".

In this window you can choose among nozzle humidifiers which have been enabled in the Section "Select component to Use"

Standard Values

Selection mode

Nozzle Humidifier Association

Efficiency [%]

Manufacturer

Series

MODEL	COSTO	DEFAULT
Nozzle Humidifier 5,7-20		<input type="checkbox"/>
Nozzle Humidifier 6,3-23		<input type="checkbox"/>
Nozzle Humidifier 7,2-26		<input type="checkbox"/>
Nozzle Humidifier 8,3-29		<input type="checkbox"/>
Nozzle Humidifier 9,4-33		<input type="checkbox"/>
Nozzle Humidifier 10,5-3		<input type="checkbox"/>
Nozzle Humidifier 11,6-4		<input type="checkbox"/>
Nozzle Humidifier 13,1-4		<input checked="" type="checkbox"/>

**\* Please note: prices and costs have been deleted from the images for privacy reasons.**

Choosing Manufacturers and Series, you'll have a list of nozzle Humidifiers. If you check on default, you'll associate the checked humidifier to the selected Size.

Instead if you pass from "Precomposed Section" to "Nozzle Selection" for the Selection Mode, you'll obtain the follow window:

## Standard Values

Selection mode

Nozzle Selection

## Nozzle Parameters

## Default nozzle series

Manufacturer

Standard

Series

Standard

TG 1

TG 2

TG 3

TG 4

TG 5

TG 6

TG 7

TG 8

TG 9

TG 10

TG 11

TG 12

TG 13

TG 14

TG 15

TG 16

TG 17

TG 18

TG 19

TG 20

TG 21

TG 22

TG 23

TG 24

TG 25

TG 26

Columns number

[N]

2,

Width Margin

[mm]

40,

Height Margin

[mm]

40,

## Default pump

Manufacturer

Astra

Series

CS

MODEL	DEFAULT
CS 120	<input checked="" type="checkbox"/>
CS 150	<input type="checkbox"/>
CS 300	<input type="checkbox"/>
CS 400	<input type="checkbox"/>

## Default nozzle series

Manufacturer

Standard

Series

Standard

and Series.

Here you can choose Nozzles Manufacturer

Columns number

[N]

2,

Width Margin

[mm]

40,

Height Margin

[mm]

40,

Here you can choose how many columns you want in the Humidifier Section and their width and height margin.

Default pump

Manufacturer

Series

MODEL	DEFAULT
CS 120	<input checked="" type="checkbox"/>
CS 150	<input type="checkbox"/>
CS 300	<input type="checkbox"/>
CS 400	<input type="checkbox"/>

Here you can choose pumps manufacturer and

series to associate to each unit size.

## V. 9. 2 Package Humidifiers

Series

Humidifier Type

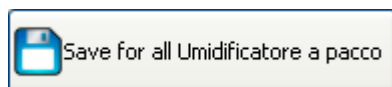
Unidificatore a pacco Cost and batch operation Extra Parameters

Thickness [mm]	Builder	Series	Subseries
100	Refill	TECH HPC 4545	
150	Refill	TECH HPC 4545	
200	Refill	TECH HPC 4545	

In this window you can choose among the package humidifier which have been enabled in the Section "Select Component to Use".



At the top right of window, you can quit from management



with this button you can save modifies.

**Please remember always to save your work before leave the management.**

Series  here you can choose the series.

Umidificatore a rampa di ugelli
Umidificatore a rampa di ugelli
Umidificatore a pacco

Here you can choose for which kind of humidifier you want insert data.



with this button you can add a package humidifier.



with this button you can delete an inserted package humidifier.



If you click on it will appear the follow window:



Umidificatore a pacco
Cost and batch operation
Extra Parameters

Thickness [mm]	Builder	Series	Subseries
100	Refill	TECH HPC 4545	
150	Refill	TECH HPC 4545	

Thickness [mm]  
100

Manufacturer  
Refill

Series  
TECH HPC 4545


Cancel

Add

Where you can choose Package thickness, Manufacturer and Series, which are characteristics of enabled package humidifiers.

Once you've selected the options you can:



with this button you can quit without saving.



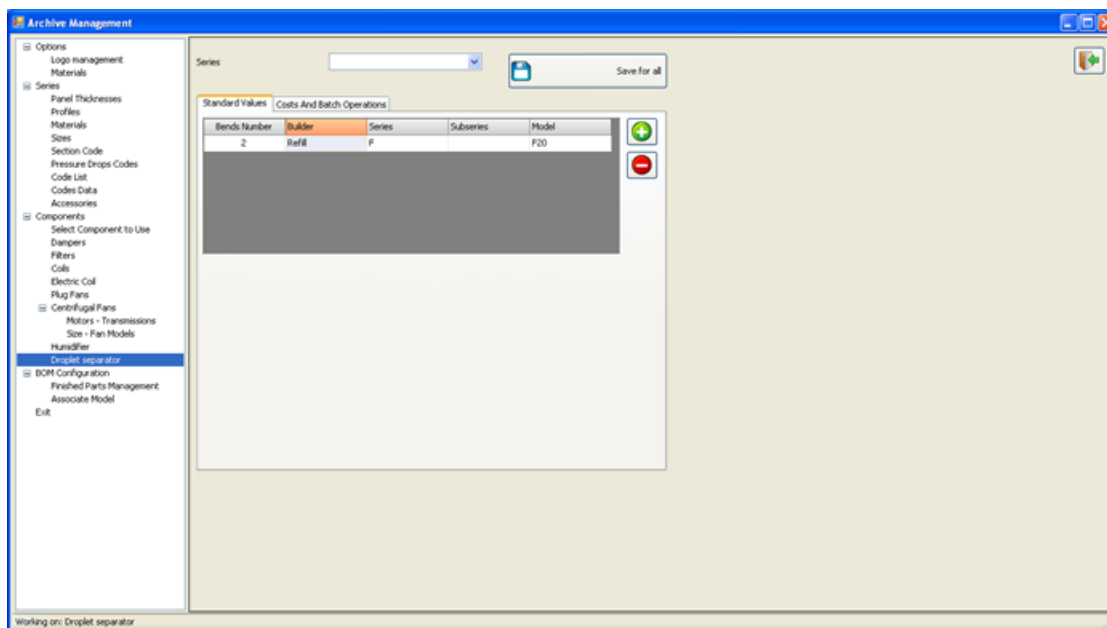
with this button you can quit from the window, saving modifies and so saving filter.

If you click on tab "Extra Parameters" you can insert security factor.

Umidificatore a pacco
Cost and batch operation
Extra Parameters

Conservativeness factor [%]

## V. 10 Droplet separator



In this section you can add Droplet separator to the Selection software. You can choose among the possible droplet separator you've enabled in the Section "Select Component to Use"



At the top right of window, you can quit from management

Series  here you can choose the series.



Save for all

with this button you can save modifies.

**Please remember always to save your work before leave the management.**



with this button you can add a droplet separator.



with this button you can delete an inserted droplet separator.





If you click on it will appear the follow window:

Standard Values
Costs And Batch Operations

Bends Number  
2

Manufacturer CVC

Humidifier Type

 Cancel
 Add

Where you can choose Bends Number, manufacturer and Humidifier type.  
Once you've done your selection you can click on:

Manufacturer
CVC

CVC  
Refill  
Standard

Possible droplet separator manufacturer.



with this button you can quit without saving.



with this button you can quit from the window, saving modifies.