

# ISOPIPE® Insulation Calculator



New User Friendly App for Tablet & Smartphones

User's Guide









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# 1. Introduction

ISOPIPE S.A.'s ISOPIPE Insulation Calculator has been developed to offer exact measurements for Certified Insulation, ISOPIPE TC (NBR) and ISOPIPE HT-HF (EPDM).

Through the Program's Calculations you receive many recommendations towards energy savings.

#### **ISOPIPE Insulation Calculator Highlights:**

- ✓ The app works Offline, online use while sending the PDF file
- ✓ Save the Calculation inside the Program
- ✓ More than 2000 Calculations can be Saved and seen any time.
- ✓ Send the Calculation in any Email address in PDF form
- ✓ Send Multiple Saved Calculations in a Single PDF file
- √Translated in 8 languages
- ✓ Download it for free in Apple Store & Google Play Store (See Table 01)

Table 01: Operating Systems	
Program	Operating System
Android	ARMv7/x86 processor with vector FPU, minimum 550MHz, OpenGL ES 2.0, H.264 and AAC HW decoders Android™ 4.0 and above
iOS	iOS 9 and above

You can download the Program from the following IP addresses or scan the QR Code.

#### **Apple Store - Operating System iOS**

https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=1300182351&mt=8





#### Google Play Store - Operating System Android

https://play.google.com/store/apps/details?id=air.eu.isopipe.lsopipelnsulationCalculator







For Online application use, please visit http://calculator.isopipe.eu





# 2. Instruction for Use

The program consists of five (5) Sections:

- 2.1 Settings (🔅)
- 2.2 Calculator (器)
- 2.3 Calculations (関)
- 2.4 Products (%)
- 2.5 Company (3i)



### 2.1 Settings

At the time when the program is installed in your device, then it is ready for use.

The program's default language is English. Moreover, our program has been translated and is fully operational in the following eight (8) different languages:

- 1. English,
- 2. French (Français),
- 3. German (Deutsch),
- 4. Greek (Ελληνικά),
- 5. Spanish (Español),
- 6. Italian (Italiano),
- 7. Russian (Русский) каг
- 8. Turkish (Türk).

Additionally, the program is set by default to indicate the temperature in degrees Celsius (°C), or Fahrenheit (°F).

Both Language and Temperature can be modified in each Program's section, from the Settings button (See Symbol . See Picture 01).



In Picture 01 you can enter your Email Address or any other email address on which you wish to receive your Calculations.



#### 2.2 Calculator

The Calculator Section is the program's key part.

#### In the particular section:

- Make calculations with respect to insulation's thickness fitting into a bare tube,
- Retrieve your calculations' results.

The particular section's, Home Page, is practically the program's *Input Parameters* (See Picture 02).

# Input Parameters Material TC Environment Ambient Temperature \*C Ambient Temperature \*C Pipe Outer Dlameter (mm) Insulation Thickness (mm) Calculate Clear The calculation is based on Copper Pipe and Wall Trinickness of 1 mm.

Picture 02: Input Parameters

As you can see in Picture 02, you can choose:

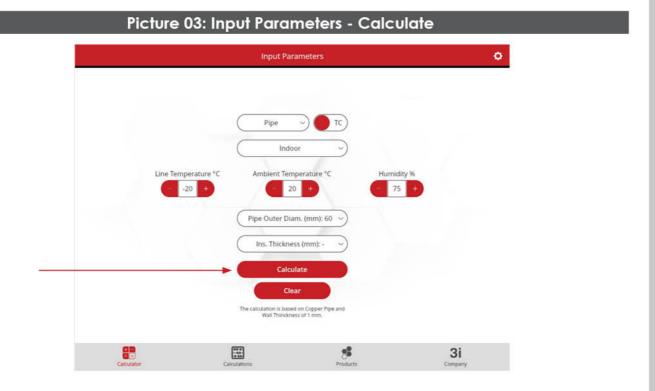
- · Material: Pipe or Sheets/ Rolls,
- Insulation: TC or HT-HF,
- · Environment: Indoor or Outdoor,
- Line Temperature,
- Ambient Temperature,
- Humidity,
- Pipe Outer Diameter
- Insulation Thickness\*.

The Calculation is based on Copper (CU) Pipe and Wall Thickness of 1mm.

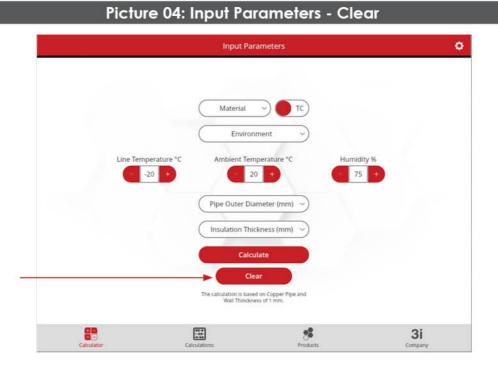
<sup>\*</sup>All fields are required except for Insulation Thickness.



After having completed all *Input Parameters* (See Picture 02), then you may proceed to the calculation, by clicking the red button *Calculate* (See Picture 03).



On the occasion one parameter has been filled in incorrectly, then you may click the Clear button (See Picture 04) and fill in the new parameters (See Picture 02).



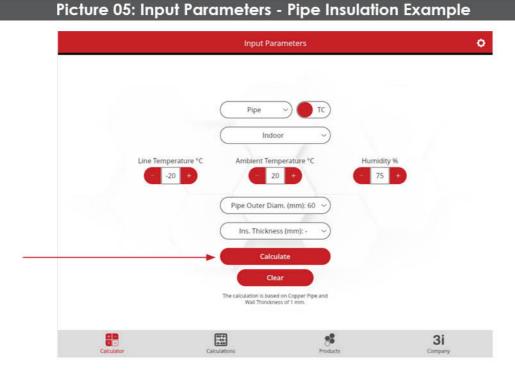
7



Please apply the following example for Pipe Insulation:

- Material: PipeInsulation: TC
- Environment: Indoor
- Line Temperature: -20°C
- Ambient Temperature: +20°C
- · Humidity: 75%
- Pipe Outer Diameter: 60 mm

Then, please click the button Calculate (See Picture 05).



Having selected the Calculate button, the program will automatically refer you to the Results section.

#### In the Results' section you may see the following:

- All options with insulation thicknesses from 6 mm to 50 mm,
- the Input Parameters, all data you have previously selected,
- the Heat Loss diagram Q/L (W/m) and
- the picture with insulation's design.

#### In Results section, you have the choice:

- To Save the Calculation and
- To Send the Calculation in any Email address in PDF form.

(See Picture 06).



#### ٥ ISOPIPE Bare 6 mm 9 mm 13 mm 19 mm 25 mm 32 mm 40 mm 50 mm Heat Loss Q/L (W/m) -102.54 -35.57 -27.58 -21.61 -16.74 -11.86 -10.3 78.92 % 91.23 % 15.43 °C YES YES YES Heat Loss Q/L (W/m) ISOPIPE 25x60 1 80 1 3i

#### Picture 06: Results\*\*

\*\*In this section you have the option to choose each column, by clicking on the insulation thickness categories as presented in the picture above. Moreover, you may also choose the specific line you wish to read about, from the grey section presented at the left hand side.

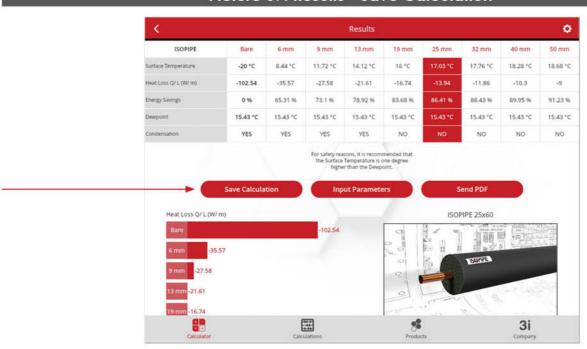
# 2.3 Calculations

#### In the Calculations Section:

- · More than 2000 Calculations can be Saved and seen any time
- · Send the Calculation in any Email address in PDF form
- Send Multiple Saved Calculations in a Single PDF file
- Deleted your Calculations

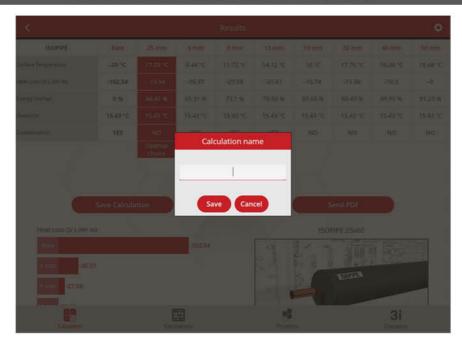
In order to save a Calculation, in the Results section (See Picture 06), you click the **Save Calculation** button (See Picture 07).





Picture 07: Results - Save Calculation

Once you have clicked the Save Calculation button, then you get a new window, where you can name your Calculation (See Picture 08).

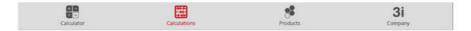


Picture 08: Save Calculation - File Name



Your calculations are saved alphabetically.

To retrieve your Calculations you may choose the third section named Calculations.



Once, the **Calculation Storage** threshold is approached, you get a warning message on your screen which states:

You have saved X calculations. Remaining Y calculations.

At the time when the **Calculation Storage Limit** is reached, the warning message you will get on your screen will state:

You have reached the maximum number of calculations. Delete to proceed.

Your saved Calculations can be retrieved any time (no internet connection is required), just by selecting the Calculation you need.

#### 2.3.1 Send Calculation

Your Calculations can be send by email in the following ways:

- 1. Though the **Results** section (See Pictures 06 & 07), you can send the Calculation, without saving it in the Calculations section.
- 2. Save the file in the Calculation section (See Section 2.3).

Attention! Only through the Calculation section you can send multiple Calculations.

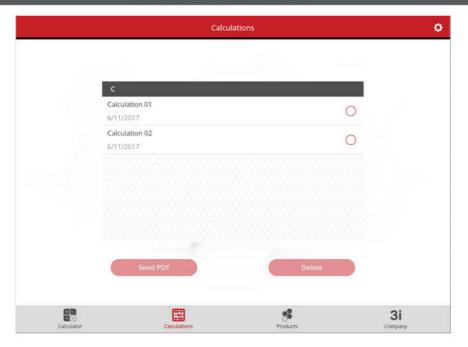
**In case No. 1:** We follow the procedure as presented in Section **2.2 Calculator**. According to Picture 06, we click the button *Send PDF*, after having set our Email address in *Settings* (See Picture 01).

In case No. 2: You first save the Calculation as presented in Section 2.3 Calculations, and then, just send the Calculation to your Email. .

All saved Calculations are presented alphabetically in list form and they all have an indication of the date entered (See Picture 09).



#### Picture 09: Calculations

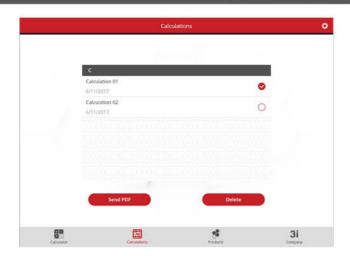


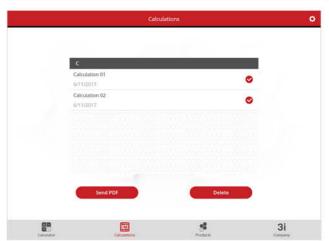
**Send a Single Calculation:** We just click on the circle presented on the right hand side of each saved calculation. Then, we click the button *Send PDF* (See Picture 10).

**Send Multiple Calculations:** You follow the same procedure as you were about to send a *Single Calculation*, however, in this case you just click multiple saved calculations (See Picture 10).

Attention! The recipient will receive a single PDF file containing all Calculations previously performed.

#### **Picture 10: Send Calculations**





Send a Single Calculation

Send Multiple Calculations



#### 2.3.2 PDF File

#### PDF file's dimension is A4 (210 mm x 297 mm).

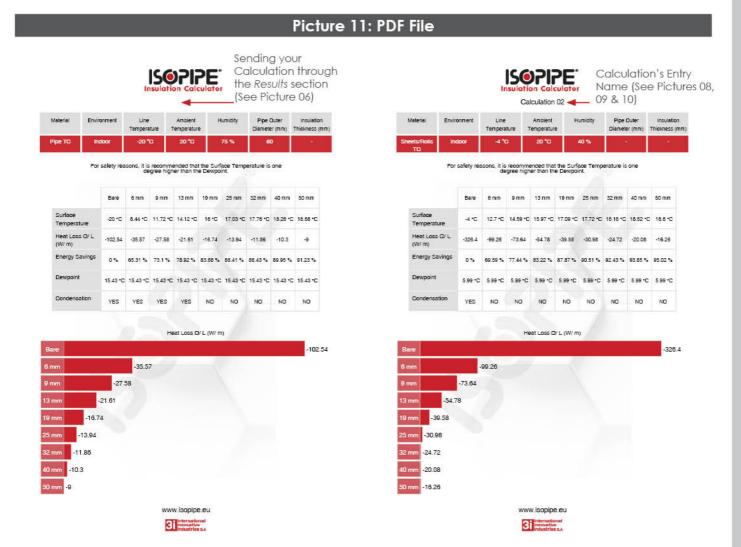
Once you try to send your Calculation through the **Results** section (See Picture 06), then, the PDF file will not have a specific name (See Picture 11).

When you send your Calculation through the **Calculations** section (See Pictures 08, 09 & 10), the file has a header with the name you have previously selected for your Calculation (See Picture 11).

#### In the PDF file you may find:

- Input Parameters
- Results Table
- Heat Loss Chart

(See Picture 11).





#### 2.4 Products

In **Products** Section you may get all information needed about our products' basic and technical characteristics:

- ISOPIPETC
- ISOPIPE HT-HF
- ISOPIPE COVERINGS: Solar, UV Plus & Heavy Duty (HD)
- ISOSOUND & ISOCHIP
- Accessories: ISOGLUE, ISOTAPE, ISOCOVER, ISOCLAMPS & Jacketing Systems

(See Picture 12).

## 2.5 Company

In Company Section you may find information about:

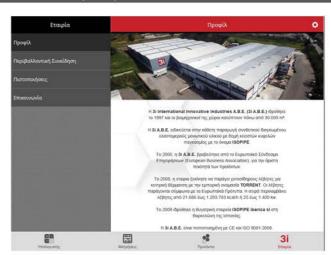
- ISOPIPE S.A. Company Profile
- Environmetal Sustainability
- · Products's Certificates
- · Company's Contact Details

(See Picture 12).

#### Picture 12: Products & Company







Company



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