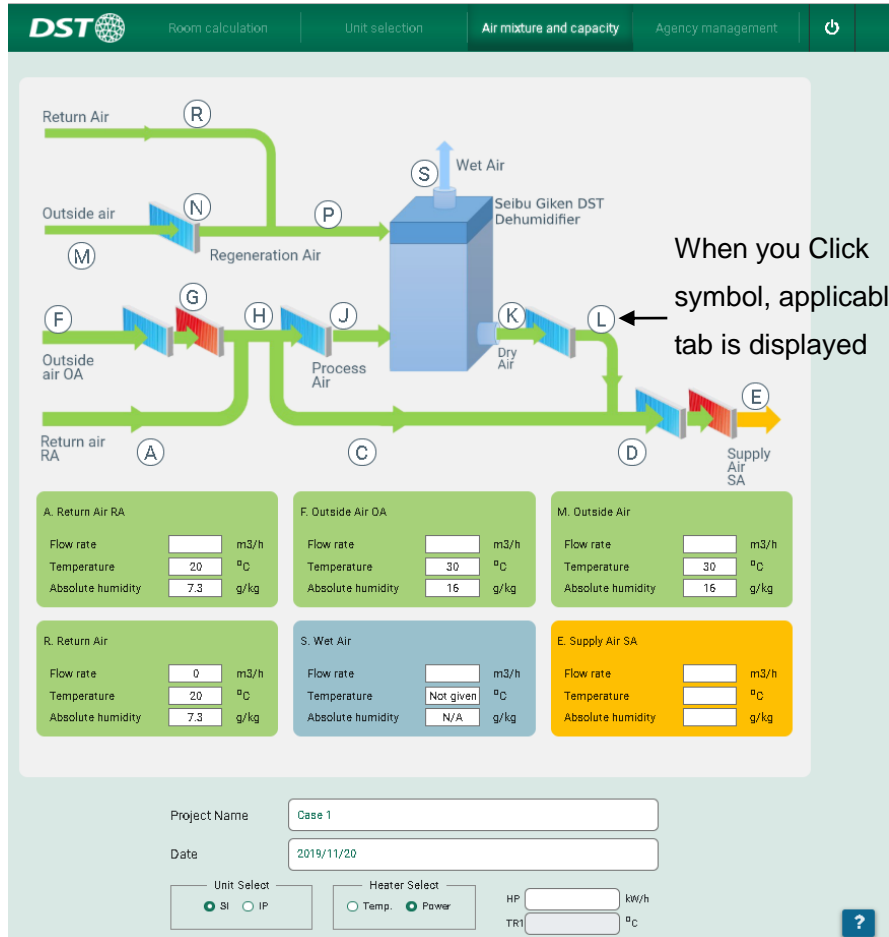


Manual of Air mixture and capacity

This program is supported by browser of Microsoft Edge and Google Chrome.

With this page you can try capacity on dehumidifiers and different mixtures of fresh air and return air and also see how much cooling you need.

1. Input Project Name and Supply Air SA and Outside Air OA flow rate. If cooling coils are used fill in chilled water temperatures in the same box as Supply Air. Note that inlet water temperature must be at least 4°C lower than wanted air temperature.



When you Click symbol, applicable tab is displayed

A. Return Air RA

Flow rate	<input type="text"/>	m ³ /h
Temperature	<input type="text" value="20"/>	°C
Absolute humidity	<input type="text" value="7.3"/>	g/kg

F. Outside Air OA

Flow rate	<input type="text"/>	m ³ /h
Temperature	<input type="text" value="30"/>	°C
Absolute humidity	<input type="text" value="16"/>	g/kg

M. Outside Air

Flow rate	<input type="text"/>	m ³ /h
Temperature	<input type="text" value="30"/>	°C
Absolute humidity	<input type="text" value="16"/>	g/kg

R. Return Air

Flow rate	<input type="text" value="0"/>	m ³ /h
Temperature	<input type="text" value="20"/>	°C
Absolute humidity	<input type="text" value="7.3"/>	g/kg

S. Wet Air

Flow rate	<input type="text"/>	m ³ /h
Temperature	<input type="text" value="Not given"/>	°C
Absolute humidity	<input type="text" value="N/A"/>	g/kg

E. Supply Air SA

Flow rate	<input type="text"/>	m ³ /h
Temperature	<input type="text"/>	°C
Absolute humidity	<input type="text"/>	g/kg

Project Name:

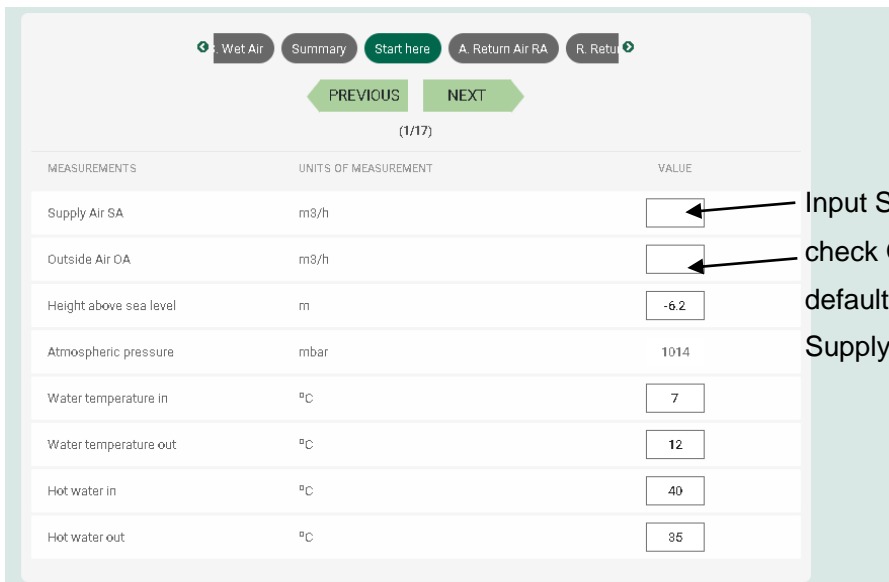
Date:

Unit Select: ☒ SI ☐ IP

Heater Select: ☐ Temp. ☒ Power

HP: kW/h

TR1: °C



Wet Air Summary Start here A. Return Air RA R. Return

PREVIOUS NEXT

(1/17)

MEASUREMENTS	UNITS OF MEASUREMENT	VALUE
Supply Air SA	m ³ /h	<input type="text"/>
Outside Air OA	m ³ /h	<input type="text"/>
Height above sea level	m	<input type="text" value="-6.2"/>
Atmospheric pressure	mbar	<input type="text" value="1014"/>
Water temperature in	°C	<input type="text" value="7"/>
Water temperature out	°C	<input type="text" value="12"/>
Hot water in	°C	<input type="text" value="40"/>
Hot water out	°C	<input type="text" value="35"/>

Input Supply Air and check Outside Air, default is 10% of Supply Air

- Unit is automatically selected. If you want to select unit yourself, you must choose dehumidifier with airflow the same or lower than Supply Air.
- Select Europe SI (default) or US IP units at "Unit select".
- Choose between regen temperature or regen power (default) for unit at "Heater select", and input value of power of temperature.
- Change other applicable temperatures and airflows by either going left and right with the arrows or click on corresponding points in the flow chart.
- Click "Start Calculation" button.

Unit Select
☒ SI ☐ IP

Heater Select
☐ Temp. ☒ Power

HP kW/h
 TR °C

3. Unit select
4. Humidity select
5. Tab

◀ S. Wet Air
Summary
Start here
A. Return Air RA ▶

PREVIOUS
NEXT

(1/17)

MEASUREMENTS	UNITS OF MEASUREMENT	VALUE
Supply Air SA	m3/h	<input type="text"/>
Outside Air OA	m3/h	<input type="text"/>
Height above sea level	m	<input type="text" value="-6.2"/>
Atmospheric pressure	mbar	1014
Water temperature in	°C	<input type="text" value="7"/>
Water temperature out	°C	<input type="text" value="12"/>
Hot water in	°C	<input type="text" value="40"/>
Hot water out	°C	<input type="text" value="35"/>

Category
 Unit
 Supply Air SA

Recusarb 1
 + Choose one

Choose dehumidifier above with airflow the same or lower than SA.

Start Calculation

2. Unit selection

6. Start calculation

- If you want to save, please check the checkboxes and click the “SAVE” button. When you click “SAVE” button, the result exports to csv file and database table.

Start Calculation

<input type="checkbox"/>	Category	Unit	B_TP2(°C)	B_XP2(g/kg)	B_MR(kg/h)	Rotation(rph)	Diameter(mm)	Depth(mm)	A_TP1(°C)
<input type="checkbox"/>	Recusorb 1	RL-60LR	31.9	4.146	5.34	31	550	50	20.0
<input checked="" type="checkbox"/>	Recusorb 1	RLZ-82	37.5	2.714	25.25	12	770	200	20.0
<input type="checkbox"/>	Recusorb 1	RLZ-81 Ice	31.4	4.553	22.26	25	770	100	20.0

Check the box you want to save. Multiple choice allowed.

SAVE PREVIEW AND PRINT

- If you want to print, select the result. Selecting result becomes green and click the “PREVIEW AND PRINT” button.

Caution: you can print the result which becomes green, not checking one.

Not print → ☒ ☐

Print →

<input type="checkbox"/>	Category	Unit	B_TP2(°C)	B_XP2(g/kg)	B_MR(kg/h)	Rotation(rph)	Diameter(mm)	Depth(mm)	A_TP1(°C)
<input checked="" type="checkbox"/>	Recusorb 1	RL-60R	31.0	4.613	4.26	31	550	50	20.0
<input type="checkbox"/>	Recusorb 1	RL-61L	35.7	3.308	11.59	25	550	100	20.0
<input type="checkbox"/>	Recusorb 1	RLZ-82	37.5	2.714	25.25	12	770	200	20.0

SAVE PREVIEW AND PRINT

- If you want to see the previous result, click the project from database table.

Project name	Date
Case 1	24/10/2019
Case 2	14/11/2019