

# DEAP 4.2.0

## Adding a Heat Pump to a Survey







# Adding a heat pump to a survey

Add from Library  
Heat sources filtered to match heating system properties in the controls and responsiveness tab

COMMON ITEMS    **SEARCH**    RECENT ITEMS

Search Library Items  
Q sample air to water  
Minimum 3 characters are required to start search

Type	Name & Product Details	Seasonal Efficiency (%)	Source
	Sample Air to Water Heat Pump Manufacturer: ABC, Model: DEF, Type: , Air to Water, Space Heating Standard: I.S. EN 14825, Water Heating Standard: I.S. EN 16147, Water Heating Seasonal Efficiency: 97%	128	  

ADD NEW ITEM TO LIBRARY    CANCEL    **ADD SELECTED ITEM**

← Select heat pump in library

← Click on ADD SELECTED ITEM

# Adding a heat pump to a survey

**Product Details**

Type	Heat pumps
Heat Pump Type	Air to Water
Manufacturer	ABC
Model	DEF
Seasonal Space Heating Efficiency, $\eta_s$	128
<small>This is the Ecodesign Seasonal Space Heating Efficiency, <math>\eta_s</math>. When the survey is completed, the efficiency will be updated to reflect the performance of the heat pump in this dwelling.</small>	
Eff. Adj. Factor	N/A

[VIEW DETAILS IN LIBRARY](#)

**Survey Details**

Heat % *	Fuel Type	<input type="checkbox"/> Heats Water
100	Electricity	
Design Flow Temperature [C] *	Daily Operation [h] *	
Back Up Space Heater Fuel	Back Up Space Heater Efficiency [%]	
None Present		
Back Up Water Heater Fuel	Back Up Water Heater Efficiency [%]	
None Present		

CANCEL SAVE

When a heat pump (with EN14825/16147 data) is added to the survey, the Ecodesign seasonal space heating efficiency is displayed initially.

In order to calculate the **efficiency of the heat pump in the dwelling** and the associated **efficiency adjustment factor**, enter

- Design flow temperature
- Daily operation
- Back up space & water systems, if present
- Water storage details, if applicable

# Adding a heat pump to a survey

## Edit Primary Heat Source

Product Details

Type	Heat pumps
Heat Pump Type	Air to Water
Manufacturer	ABC
Model	DEF
Seasonal Space Heating Efficiency, $\eta_s$	128
<small>This is the Ecodesign Seasonal Space Heating Efficiency, <math>\eta_s</math>. When the survey is completed, the efficiency will be updated to reflect the performance of the heat pump in this dwelling.</small>	
Eff. Adj. Factor	0.7

[VIEW DETAILS IN LIBRARY](#)

## Survey Details

Heat % *	Fuel Type	<input checked="" type="checkbox"/> Heats Water
100	Electricity	
Design Flow Temperature [C] *	Daily Operation [h] *	
55	24	
Back Up Space Heater Fuel	Back Up Space Heater Efficiency [%]	
None Present		
Back Up Water Heater Fuel	Back Up Water Heater Efficiency [%]	
None Present		

CANCEL **SAVE**

Tick box if heat pump also heats water

Input daily operation (h)

Input design flow temp ( $^{\circ}\text{C}$ )

Input details of back up space and water heating if present

# Adding a heat pump to a survey

Type	Heat %	Name	Manufacturer & Model	Seasonal Efficiency ( $\eta_s$ )	Efficiency Adj. Factor	Fuel Type	Design Flow Temp. [C]	Daily Operation [h]	Heats water
Primary	100	Sample Air to Water Heat Pump	ABC, DEF	128.00	1.00	Electricity	55	24	Yes
Total Heat [%]		100							

[+ ADD HEAT SOURCE](#)

Where the heat pump also heats water - when the heat pump is added to the survey, **error messages** will appear to notify the user that **the seasonal efficiency of the heat pump** and **the efficiency adjustment factor will be updated** when the **DHW storage information** is inputted.

**Go to water heating and enter water heating details**

# Adding a heat pump to a survey – complete water heating

Storage

Hot Water Storage indoors

Is manufacturers declared loss available

Storage Type  
Integrated thermal store and gas-fired CPSU

Storage Volume [l]  
200

Declared Loss [kWh/day]  
1.91

Make and Model  
200

Heat Pump Type of DHW \*

- No Hot Water Store
- Integral Hot Water Storage
- Separate Hot Water Storage
- Integral and separate Hot Water Storage

## Heat pump type of DHW

Select storage type from drop-down menu

This must be selected to calculate the water heating efficiency of the heat pump in the dwelling.

This sets the required flow temperature from the heat pump to the hot water storage [60°C/65°C]

6. Domestic Hot Water	
Output from Main Water Heater	0 kWh/yr
Type of DHW	Separate Hot Water Storage
Annual water heating provided by main water heating system	0 kWh/yr
Cold Water Inlet Temperature	10 °C
Required Flow Temperature from Heat Pump to Hot Water Storage	65 °C
Volume of DHW Storage	0 litres

Output from Main Water Heater	0 kWh/yr
Type of DHW	Integral Hot Water Storage
Annual water heating provided by main water heating system	0 kWh/yr
Cold Water Inlet Temperature	10 °C
Required Flow Temperature from Heat Pump to Hot Water Storage	60 °C
Volume of DHW Storage	0 litres

This field previously appeared in the heat pump calculation tool



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