

## HARP Heat Pump Import Release – updates to the DEAP4 user interface

10 August 2022

Following the recent HARP import release assessors should be aware of and familiarise themselves with changes to the DEAP4 user interface. The following screenshots highlight the changes to text before and after the update.

### 1. Heat Pump Test Data as it appears in DEAP4

The key highlighted areas are the changes in wording for the test points **45°C**, **55°C** and **65°C**. Also note the change in wording for the **Capacity of Heat Pump [KW]** and the **Standby Heat Loss [KWh/day]** as further detailed below;

#### Before

View Library Item Details - Helpdesk

BASIC PROPERTIES HEAT PUMP TEST DATA

Heating System Test data: I.S. EN 14825

- Test Condition - Low (35°C)
- Test Condition - Medium (45°C)
- Test Condition - High (55°C)
- Test Condition - Very High (65°C)

Heating System Test data: I.S. EN 16147

Source of Data	Water heating energy efficiency, nwh [%]	Co-efficient of Performance [kW/kW]	0.00
Water heating energy efficiency, nwh [%]	132.00	Reference Hot water Temperature [°C]	52.35
Capacity of Heat Pump [kW]	4.00	Declared load profile	L
Standby Heat Loss [kWh/day]	1.35	Volume of DHW accounted for in test [litre]	238.00

EDIT CLOSE

#### After (with label changes highlighted)

View Library Item Details - Assessor

BASIC PROPERTIES HEAT PUMP TEST DATA

Heating System Test data: I.S. EN 14825

- Test Condition - Low (35°C)
- Test Condition - **Intermediate** (45°C)
- Test Condition - **Medium** (55°C)
- Test Condition - **High** (65°C)

Heating System Test data: I.S. EN 16147

Source of Data	Water heating energy efficiency, nwh [%]	Co-efficient of Performance [kW/kW]	0.00
Water heating energy efficiency, nwh [%]	132.00	Reference Hot water Temperature [°C]	52.35
<b>Hot water Rated Heat output P<sub>rated</sub> [kW]</b>	4.00	Declared load profile	L
<b>Standing heat loss of test storage tank [kWh/day]</b>	1.35	Volume of DHW accounted for in test [litre]	238.00

EDIT CLOSE

The following table provides the reason for the updates.

Data field <u>BEFORE</u> update in DEAP	Data field <u>AFTER</u> update in DEAP	Reason for update
<i>Test condition – low (35°C)</i>	<i>Test condition – low (35°C)</i>	<i>To match the text used in the latest Eco-design regulations</i>
<i>Test condition – <b>medium</b> (45°C)</i>	<i>Test condition – <b>intermediate</b> (45°C)</i>	
<i>Test condition – <b>high</b> (55°C)</i>	<i>Test condition – <b>medium</b> (55°C)</i>	
<i>Test condition – <b>very high</b> (65°C)</i>	<i>Test condition – <b>high</b> (65°C)</i>	
<i>Capacity of heat pump [kW]</i>	<i>Hot water rated output, <math>P_{rated}</math> [kW]</i>	<i>To match the text used in I.S. EN 16147 (water heating standard)</i>
<i>Standby heat loss [kWh/day]</i>	<i>Standing heat loss of test storage tank [kWh/day]</i>	

## 2. Basic Properties

In the **View Library Item details** page in the basic properties screen there is now additional heat pump information.

**Before**

View Library Item Details - Helpdesk
✕

BASIC PROPERTIES
HEAT PUMP TEST DATA

Manufacturer	[REDACTED]	Model	[REDACTED]
Heating Source Type	Heat pumps	Heat Pump Type	Air to Water
Space Heating Standard	I.S. EN 14825	Water Heating Standard	I.S. EN 16147
Seasonal Space Heating Efficiency, $\eta_s$	136	Water Heating Efficiency, $\eta_{wh}$	132.00
Integrated Immersion	N/A	Flow temperature $\geq$ [60]65°C	N/A
TOL	-10	WTOL	55
Temperature Control	Variable Outlet	Cooling System Seasonal Energy Efficiency Ratio	N/A

EDIT
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**After (with extended data view)**

View Library Item Details - Assessor
✕

BASIC PROPERTIES
HEAT PUMP TEST DATA

Product Index Number	N/A	Manufacturer's reference number	N/A
Manufacturer	[REDACTED]	Brand	[REDACTED]
Model	[REDACTED]	Model Qualifier	N/A
Model Structure	N/A	Appliance ID	N/A
Indoor Unit Identifier	N/A	Outdoor Unit Identifier	N/A
Source	Assessor	Heat Pump Type	Air to Water
Heating Source Type	Heat pumps	Water Heating Standard	I.S. EN 16147
Space Heating Standard	I.S. EN 14825	Water Heating Efficiency, $\eta_{wh}$	132.00
Seasonal Space Heating Efficiency, $\eta_s$ / SCOP/A	136.00	Flow temperature $\geq$ [60]65°C	N/A
Integrated Immersion	N/A	WTOL	55
TOL	-10	Cooling System Seasonal Energy Efficiency Ratio	N/A
Temperature Control	Variable Outlet	Intermediate temperature test condition (45°C)	No
Low temperature test condition (35°C)	No	High temperature test condition (65°C)	No
Medium temperature test condition (55°C)	No		

EDIT
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### 3. “-to Air” heat pumps

When a “to Air” heat pump is selected the following applies;

- WTOL input field has been disabled for all “-to Air” heat pumps as it is not applicable.
- Please note that for all “-to Air” heat pumps tested to I.S. EN 14825 the Heating Seasonal Efficiency SCOP/A is imported / entered instead of the %. This value is for display purposes and is not used in the calculation for any heat pumps tested to I.S. EN 14825.

BASIC PROPERTIES
HEAT PUMP TEST DATA

i This item has already been added to a survey and cannot be edited. If you continue, a copy of the item will be created.

Item Type *	Item Name *	Keywords
Heat Source	Test Heat Pump example 7	
Manufacturer *	Model *	
Test HP	example 7	
Heating Source Type *	Heat Pump Type *	
Heat pumps	Air to Air	
Space Heating Standard *	Water Heating Standard	
I.S. EN 14825	Does not provide water heating	
Seasonal Space Heating Efficiency, $\eta_s$ [%] *	Water Heating Efficiency, $\eta_{wh}$ [%]	
3.93		
For all heat pumps tested to I.S. EN 14825 this value is for display purposes and is not used in the calculation. For all “-to air” heat pumps tested to I.S. EN 14825 the Heating Seasonal Efficiency SCOP/A is entered instead of the %.		
Temperature Control (Capacity Control) *		
Variable Outlet		
<input type="checkbox"/> Integrated Immersion <span style="margin-left: 100px;"><input type="checkbox"/> Flow temperature <math>\geq</math> [60]65°C</span>		
TOL *	WTOL	
-15		
Cooling System Seasonal Energy Efficiency Ratio		
5.77		

CANCEL
SAVE