

Magis Combo Plus V2 (System) – DEAP4

1. Enter the Magis Combo Plus V2 as a heat pump on the DEAP4 library.

The heat pump is tested to EN14825 and EN16147. Enter the data as you would with any other heat pump – including 35°C and 55°C data.

View Library Item Details - Self Assessor
✕

BASIC PROPERTIES
HEAT PUMP TEST DATA

Manufacturer	Immergas	Model	Magis Combo Plus 9 V2
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, η_s	128	Water Heating Efficiency, η_{wh}	111.00

2. To add the primary heat source, choose the Magis Combo Plus V2 from the library...

Edit Primary Heat Source
✕

Product Details
Survey Details

Type	Heat pumps	Heat % *	100	Fuel Type	Electricity	<input checked="" type="checkbox"/>	Heats Water
Heat Pump Type	Air to Water	Design Flow Temperature [C] *	70	Daily Operation [h] *	24	<input type="checkbox"/>	Heat Pump Type of DHW *
Manufacturer	Immergas	Back Up Space Heater Fuel	Bulk LPG (propane or butane)	Back Up Space Heater Efficiency [%] *	90.1	Separate Hot Water Storage	
Model	Magis Combo Plus 9 V2	Back Up Water Heater Fuel	Bulk LPG (propane or butane)	Back Up Water Heater Efficiency [%] *	90.1		
Seasonal Space Heating Efficiency, η_s	128						

... and enter the following details:

Heats Water: Yes Heat Pump Type of DHW: Separate Hot Water Storage

Design flow temperature °C: Max 80°C Daily Operation: Max 24h *NOTE: These must match designer/installer sheet*

Choose the Back Up Space Heater and Backup Water Heater fuel and efficiency from the table below.

Model	Fuel	Efficiency
4/6/9	LPG Bottled or Bulk	90.1%
4/6/9	Natural Gas	89.1%
12/14/16	LPG Bottled or Bulk	91.1%
12/14/16	Natural Gas	89.9%

3. Enter water heating cylinder as normal on the water heating tab.

Supporting documentation – Efficiency – DEAP

Net efficiency is taken from manufacturer’s data and test reports.

The methodology from DEAP manual Appendix D is applied below to determine DEAP seasonal efficiency values for Natural Gas and LPG models.

Magis Combo Plus V2 (System)

Model	4 / 6 / 9				12 / 14 / 16 / 12T / 14T / 16T			
	Natural Gas		LPG		Natural Gas		LPG	
Gas Type	Full	Part	Full	Part	Full	Part	Full	Part
Condition Load	Full	Part	Full	Part	Full	Part	Full	Part
Net efficiency as per test reports	96.2%	106.1%	96.2%	106.1%	97.1%	107.2*	97.1%	107.2%
Adjustment LPG as per D4	-	-	-	-2.2%	-	-	-	-2.2%
D2.2 conversion factor	0.901		0.921		0.901		0.921	
Gross Efficiency E	86.68%	95.60%	88.60%	95.69%	87.49%	96.41%	89.43%	96.71%
Has permanent pilot P? No = 0	0		0		0		0	
DEAP Function 102	$0.5(E_{full} + E_{part}) - 2.0 - 4p$							
Seasonal Efficiency	89.1%		90.1%		89.9%		91.1%	

*Allowable net efficiency for calculation capped at max efficiency of 107%.