

1 Product Fiche

2 **Supplier's name:** **LG Electronics**
 3 **Model Name:** **HG12IM 133**

Seasonal space heating energy efficiency class	35 °C		55 °C
	A+++	A++	A+
Rated heat output:	kW		
	10	5	12

Seasonal space heating energy efficiency:	space heating		55 °C
	%		
Annual energy consumption:	kWh		
	4.642	7.955	

Sound power level (LWA):	dB	
	6.62	6.3
Water pump EEL ≤	0.23	

Temperature control	Class		Contribution (%)	
	V	3		
3				

13 PRECAUTION

- 13 Connect the authorized service technician for repair or maintenance of this unit.
- 14 Call a professional for installation of this unit.
- 15 - **AVHP** is not intended for use by young children or invalids without supervision.
- 16 - Young children should be supervised to ensure that they do not play with AVHP.
- 17 - Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
- 18 - Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224 </th></th>	99 <th>224 </th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		



MFR:685297837

Annex - Macroeconomic efficiency: full unit name and full model name

1 **Product name:** **AVHP**
 2 **Model name:** **HG12IM 133**

3 **Rated heat output:** **10**
 4 **Seasonal space heating energy efficiency class:** **A+++**

5 **Rated heat output:** **5**
 6 **Seasonal space heating energy efficiency:** **10**

7 **Annual energy consumption:** **4.642**
 8 **Sound power level (LWA):** **6.62**

9 **Water pump EEL:** **0.23**
 10 **Temperature control:** **3**

11. The unit is not intended for use by young children or invalids without supervision.
12. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
13. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224 </th></th>	99 <th>224 </th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		

MFR:685297837

11 **Product name:** **AVHP**
 12 **Model name:** **HG12IM 133**

13 **Rated heat output:** **10**
 14 **Seasonal space heating energy efficiency class:** **A+++**

15 **Rated heat output:** **5**
 16 **Seasonal space heating energy efficiency:** **10**

17 **Annual energy consumption:** **4.642**
 18 **Sound power level (LWA):** **6.62**

19 **Water pump EEL:** **0.23**
 20 **Temperature control:** **3**

21. The unit is not intended for use by young children or invalids without supervision.
22. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
23. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224 </th></th>	99 <th>224 </th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		

MFR:685297837

21 **Product name:** **AVHP**
 22 **Model name:** **HG12IM 133**

23 **Rated heat output:** **10**
 24 **Seasonal space heating energy efficiency class:** **A+++**

25 **Rated heat output:** **5**
 26 **Seasonal space heating energy efficiency:** **10**

27 **Annual energy consumption:** **4.642**
 28 **Sound power level (LWA):** **6.62**

29 **Water pump EEL:** **0.23**
 30 **Temperature control:** **3**

31. The unit is not intended for use by young children or invalids without supervision.
32. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
33. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224 </th></th>	99 <th>224 </th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		

MFR:685297837

31 **Product name:** **AVHP**
 32 **Model name:** **HG12IM 133**

33 **Rated heat output:** **10**
 34 **Seasonal space heating energy efficiency class:** **A+++**

35 **Rated heat output:** **5**
 36 **Seasonal space heating energy efficiency:** **10**

37 **Annual energy consumption:** **4.642**
 38 **Sound power level (LWA):** **6.62**

39 **Water pump EEL:** **0.23**
 40 **Temperature control:** **3**

41. The unit is not intended for use by young children or invalids without supervision.
42. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
43. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224</th> </th>	99 <th>224</th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		

MFR:685297837

41 **Product name:** **AVHP**
 42 **Model name:** **HG12IM 133**

43 **Rated heat output:** **10**
 44 **Seasonal space heating energy efficiency class:** **A+++**

45 **Rated heat output:** **5**
 46 **Seasonal space heating energy efficiency:** **10**

47 **Annual energy consumption:** **4.642**
 48 **Sound power level (LWA):** **6.62**

49 **Water pump EEL:** **0.23**
 50 **Temperature control:** **3**

51. The unit is not intended for use by young children or invalids without supervision.
52. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
53. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224</th> </th>	99 <th>224</th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		

MFR:685297837

51 **Product name:** **AVHP**
 52 **Model name:** **HG12IM 133**

53 **Rated heat output:** **10**
 54 **Seasonal space heating energy efficiency class:** **A+++**

55 **Rated heat output:** **5**
 56 **Seasonal space heating energy efficiency:** **10**

57 **Annual energy consumption:** **4.642**
 58 **Sound power level (LWA):** **6.62**

59 **Water pump EEL:** **0.23**
 60 **Temperature control:** **3**

61. The unit is not intended for use by young children or invalids without supervision.
62. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
63. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

8 Annual energy consumption:

kWh	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

9 Sound power level (LWA):

dB	5 Colder		5 Warmer
	131 <th>99 <th>224</th> </th>	99 <th>224</th>	224
Water pump EEL ≤	0.23		

11 Temperature control

Class	Contribution (%)	
	V	3
3		

MFR:685297837

61 **Product name:** **AVHP**
 62 **Model name:** **HG12IM 133**

63 **Rated heat output:** **10**
 64 **Seasonal space heating energy efficiency class:** **A+++**

65 **Rated heat output:** **5**
 66 **Seasonal space heating energy efficiency:** **10**

67 **Annual energy consumption:** **4.642**
 68 **Sound power level (LWA):** **6.62**

69 **Water pump EEL:** **0.23**
 70 **Temperature control:** **3**

71. The unit is not intended for use by young children or invalids without supervision.
72. Only authorized service technicians should be permitted to repair or replace any authorized personnel only using only genuine replacement parts.
73. Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

6 Rated heat output:

kW	5 Colder		5 Warmer
	11	12	10
3 Colder <td>9</td> <td>12</td> <td>13</td>	9	12	13
	131	99	224

7 Seasonal space heating energy efficiency:

%	5 Colder		5 Warmer
	35	55	35
space heating	8.92	11.61	23.51
	63	63	0.23

Model **HM121M U33**

Seasonal space heating energy efficiency of heat pump

I %

Temperature control

From fiche of temperature control

Class I = 1 %, Class II = 2 %, Class III = 1,5 %,
Class IV = 2 %, Class V = 3 %, Class VI = 4 %, Class VII = 3,5 %, Class VIII = 5 %

+ **II** %

Supplementary boiler
From fiche of boiler

Seasonal space heating energy efficiency (in %)

(**III** - 'I') × 'II' = - **III** %

Solar contribution

From fiche of solar device

Collector size
(in m²)

Tank volume
(in m³)

Collector efficiency
(in %)

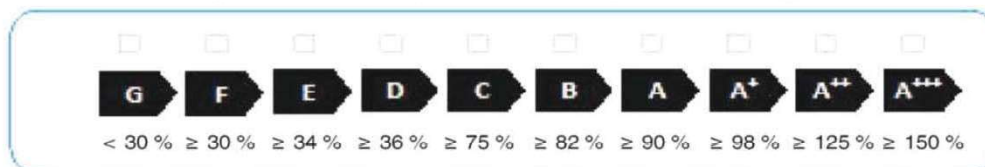
Tank rating
A* = 0,95, A = 0,91,
B = 0,86, C = 0,83,
D-G = 0,81

('III' × **IV** + 'IV' × **V**) × 0,45 × (**VI** /100) × **VII** = + **VIII** %

Seasonal space heating energy efficiency of package under average climate

IX %

Seasonal space heating energy efficiency class of package under average climate



Seasonal space heating energy efficiency under colder and warmer climate conditions

Colder: **IX** - 'V' = **X** %

Warmer: **IX** + 'VI' = **XI** %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

	I	II	III	IV	V	VI
55°C	124%	0.00	2.23	0.87	25%	43%
35°C	175%	0.00	2.67	1.05	44%	49%



Model	HM121M U33/OSHW-200F AEU
-------	--------------------------

Water heating energy efficiency of combination heater ① %

Declared load profile:

Solar contribution
From fiche of solar device

Auxiliary electricity
↓

$(1,1 \times 'I' - 10 \%) \times 'II' - 'III' - 'I' = + \text{ \% }$

Water heating energy efficiency of package under average climate ③ %

Water heating energy efficiency class of package under average climate

	G	F	E	D	C	B	A	A ⁺	A ⁺⁺	A ⁺⁺⁺
M	< 27 %	≥ 27 %	≥ 30 %	≥ 33 %	≥ 36 %	≥ 39 %	≥ 65 %	≥ 100 %	≥ 130 %	≥ 163 %
L	< 27 %	≥ 27 %	≥ 30 %	≥ 34 %	≥ 37 %	≥ 50 %	≥ 75 %	≥ 115 %	≥ 150 %	≥ 188 %
XL	< 27 %	≥ 27 %	≥ 30 %	≥ 35 %	≥ 38 %	≥ 55 %	≥ 80 %	≥ 123 %	≥ 160 %	≥ 200 %
XXL	< 28 %	≥ 28 %	≥ 32 %	≥ 36 %	≥ 40 %	≥ 60 %	≥ 85 %	≥ 131 %	≥ 170 %	≥ 213 %

Water heating energy efficiency under colder and warmer climate conditions

Colder: $\text{ } - 0,2 \times \text{ } = \text{ } \%$

Warmer: $\text{ } + 0,4 \times \text{ } = \text{ } \%$

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

I
109%



