



**LG Electronics Inc.**

| Model Number <sup>2</sup> | Refrigerant (kg) <sup>3</sup> | t-CO <sub>2</sub> eq |
|---------------------------|-------------------------------|----------------------|
| HU161 U33                 | R410A (2,3)                   | 4,801                |
| HU123 U33                 | R410A (2,3)                   | 4,801                |
| HU143 U33                 | R410A (2,3)                   | 4,801                |
| HU163 U33                 | R410A (2,3)                   | 4,801                |

※  $t\text{-CO}_2 \text{ eq} = F\text{-gas (kg)} \times \text{GWP} / 1000$

**GWP(Global warming potential)<sup>4</sup>**

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid, R-410A with a GWP equal to 2087,5. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2087,5 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



(EN/BG/ES/CZ/DK/DE/EE/GR/FR/HR/IT/LV/LT/HU/MT/NL/PL/PT/RO/SK/SL/FI/SE/GA/SR/MK/NO/SQ/IS/BS)

[illegible]









Model

HU141 U33 / HN1616M NK5, HU141 U33 / HN1616 NK3



Seasonal space heating energy efficiency of heat pump

<sup>1</sup>  
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 %

<sup>2</sup>  
+ %

Supplementary boiler

From fiche of boiler

Seasonal space heating energy efficiency (in %)

( - 'I' ) × 'II' = <sup>3</sup> - %

Solar contribution

From fiche of solar device

Collector size  
(in m<sup>2</sup>)

Tank volume  
(in m<sup>3</sup>)

Collector efficiency  
(in %)

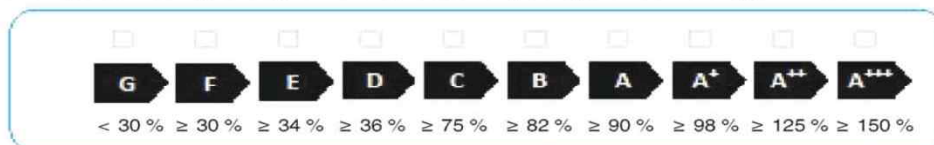
Tank rating  
A\* = 0,95, A = 0,91,  
B = 0,86, C = 0,83,  
D-G = 0,81

( 'III' × + 'IV' × ) × 0,45 × ( /100 ) × = <sup>4</sup> + %

Seasonal space heating energy efficiency of package under average climate

<sup>5</sup>  
%

Seasonal space heating energy efficiency class of package under average climate



Seasonal space heating energy efficiency under colder and warmer climate conditions

Colder:

<sup>5</sup>  
 - 'V' = %

Warmer:

<sup>5</sup>  
 + 'VI' = %

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 | 130% | 0.00 | 2.70 | 1.06 | 31% | 38% |
| 35°C | 175% | 0.00 | 2.81 | 1.10 | 48% | 62% |



|                                                                                                                                                   |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Product Fiche                                                                                                                                     |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| Supplier's name: <b>LG Electronics</b>                                                                                                            |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| Model Name: <b>HU141 U33 / HN16167 N80</b>                                                                                                        |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| Declared load profile                                                                                                                             |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| Seasonal space heating energy efficiency class                                                                                                    |                   | <div> <div>35°C</div> <div>55°C</div> </div> <div> <div>A++</div> <div>A+</div> </div>                                                                            |                                                                                                                                                                                                                  |  |
| Water heating energy efficiency class                                                                                                             |                   | <div> <div>A</div> </div>                                                                                                                                         |                                                                                                                                                                                                                  |  |
| Rated heat output                                                                                                                                 | 21° space heating | kW                                                                                                                                                                | <div> <div>Average</div> <div>35°C</div> <div>55°C</div> </div> <div> <div>10</div> <div>10</div> </div>                                                                                                         |  |
|                                                                                                                                                   |                   |                                                                                                                                                                   | <div> <div>Average</div> <div>35°C</div> <div>55°C</div> </div> <div> <div>5 183</div> <div>6 755</div> </div>                                                                                                   |  |
| Annual energy consumption                                                                                                                         | 22° water heating | kWh                                                                                                                                                               | <div> <div>Average</div> <div>1 881</div> </div>                                                                                                                                                                 |  |
|                                                                                                                                                   |                   |                                                                                                                                                                   | <div> <div>%</div> <div>35°C</div> <div>55°C</div> </div> <div> <div>163</div> <div>117</div> </div>                                                                                                             |  |
| Seasonal space heating energy efficiency                                                                                                          |                   | <div> <div>Average</div> <div>89</div> </div>                                                                                                                     |                                                                                                                                                                                                                  |  |
| Water heating energy efficiency                                                                                                                   |                   | <div> <div>Average</div> <div>89</div> </div>                                                                                                                     |                                                                                                                                                                                                                  |  |
| Sound power level (LWA)                                                                                                                           |                   | dB                                                                                                                                                                | dB                                                                                                                                                                                                               |  |
| PRECAUTION                                                                                                                                        |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| 1- Contact the authorized service technician for repair or maintenance of this unit,                                                              |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| 2- Contact the installer for installation of this unit,                                                                                           |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| 3- AWWP is not intended for use by young children or invalids without supervisors.                                                                |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| 4- Young children should be supervised to ensure that they do not play with AWWP.                                                                 |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| 5- When the power cable is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts, |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| 6- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.                  |                   |                                                                                                                                                                   |                                                                                                                                                                                                                  |  |
| Rated heat output                                                                                                                                 | space heating     | kW                                                                                                                                                                | <div> <div>Heater</div> <div>Warmer</div> </div> <div> <div>35°C</div> <div>55°C</div> <div>35°C</div> <div>55°C</div> </div> <div> <div>12</div> <div>12</div> <div>10</div> <div>10</div> </div>               |  |
|                                                                                                                                                   |                   |                                                                                                                                                                   | <div> <div>Heater</div> <div>Warmer</div> </div> <div> <div>35°C</div> <div>55°C</div> <div>35°C</div> <div>55°C</div> </div> <div> <div>10 246</div> <div>12 368</div> <div>6 212</div> <div>3 559</div> </div> |  |
| Annual energy consumption                                                                                                                         | water heating     | kWh                                                                                                                                                               | <div> <div>Heater</div> <div>1 603</div> </div>                                                                                                                                                                  |  |
|                                                                                                                                                   |                   |                                                                                                                                                                   | <div> <div>2 369</div> </div>                                                                                                                                                                                    |  |
| Seasonal space heating energy efficiency                                                                                                          |                   | <div> <div>%</div> <div>35°C</div> <div>55°C</div> <div>35°C</div> <div>55°C</div> </div> <div> <div>117</div> <div>87</div> <div>219</div> <div>144</div> </div> |                                                                                                                                                                                                                  |  |
| Water heating energy efficiency                                                                                                                   |                   | <div> <div>Heater</div> <div>71</div> <div>105</div> </div>                                                                                                       |                                                                                                                                                                                                                  |  |
| Sound power level (LWA)                                                                                                                           |                   | ODU                                                                                                                                                               | dB                                                                                                                                                                                                               |  |
| Sound power EER                                                                                                                                   |                   | 0.2                                                                                                                                                               |                                                                                                                                                                                                                  |  |
| Temperature control                                                                                                                               |                   | Model Name                                                                                                                                                        | Thermostatic 3000                                                                                                                                                                                                |  |
|                                                                                                                                                   |                   | Class                                                                                                                                                             | II                                                                                                                                                                                                               |  |
|                                                                                                                                                   |                   | Contribution (%)                                                                                                                                                  | 2                                                                                                                                                                                                                |  |

[illegible]

307. **AMPH** is a member of the **TRP** family of ion channels and is expressed in **CNS**. **TRP** channels are involved in a wide range of sensory functions, including temperature sensation, pain, and taste. **AMPH** is activated by a variety of stimuli, including heat, mechanical stimuli, and chemical stimuli. **AMPH** is also involved in the regulation of intracellular calcium levels and the release of neurotransmitters. **AMPH** is a member of the **TRP** family of ion channels and is expressed in **CNS**. **TRP** channels are involved in a wide range of sensory functions, including temperature sensation, pain, and taste. **AMPH** is activated by a variety of stimuli, including heat, mechanical stimuli, and chemical stimuli. **AMPH** is also involved in the regulation of intracellular calcium levels and the release of neurotransmitters.

[illegible]

Annex (T) LG Electronics (India) Limited, a wholly owned subsidiary of LG Electronics (India) Limited

- [illegible]

- [illegible]

- (EN) *How many times I have been in jail* (CZ) *kolikrát jsem byl v žaláři* (ES) *¿cuántas veces he estado en la cárcel?* (FR) *combien de fois suis-je allé en prison?* (HU) *hányszor voltam börtönben?* (IT) *quante volte sono stato in carcere?* (JA) *いかに多く 監獄にいたことか?* (KO) *얼마나 많은 수감생활을 했습니까?* (LT) *kiek kartų buvau kalėjime?* (NL) *hoe vaak ben ik geweest in de gevangenis?* (PL) *ile razy byłem w więzieniu?* (PT) *quantas vezes estive na prisão?* (RU) *сколько раз я был в тюрьме?* (SK) *koľko krát som bol v väzení?* (SV) *hur många gånger har jag varit i fängelse?* (TR) *kaç kez hapsedim?* (UK) *скільки раз я був у в'язниці?* (US) *how many times have I been in jail?* (VI) *đã bao nhiêu lần tôi ở tù?* (ZH) *我在監獄呆過幾次?*
- (EN) *Temperature control* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature control* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature regulation* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature regulation* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature setting* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature setting* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature control* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature control* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature regulation* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature regulation* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature setting* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature setting* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature control* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature control* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature regulation* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature regulation* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature setting* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature setting* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature control* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature control* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature regulation* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature regulation* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature setting* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature setting* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature control* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature control* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature regulation* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV) *temperatur* (TR) *ısı kontrolü* (UK) *температура* (US) *temperature regulation* (VI) *điều khiển nhiệt độ* (ZH) *温度控制*
- (EN) *Temperature setting* (MO) *temperatura* (CZ) *teplota* (ES) *temperatura* (FR) *température* (HU) *hőmérséklet* (IT) *temperatura* (JA) *温度* (KO) *온도* (LT) *temperatūra* (NL) *temperatuur* (PL) *temperatura* (PT) *temperatura* (RU) *температура* (SK) *teplota* (SV)

- [illegible]



Model HU141 U33 / HN1616T N80



Seasonal space heating energy efficiency of heat pump

<sup>1</sup>  %

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 %

+ <sup>2</sup>  %

Supplementary boiler  
From fiche of boiler

Seasonal space heating energy efficiency (in %)

(  - <sup>1</sup> ) × <sup>3</sup>  = -  %

Solar contribution

From fiche of solar device

Collector size (in m<sup>2</sup>)

Tank volume (in m<sup>3</sup>)

Collector efficiency (in %)

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

( <sup>3</sup>  ×  + <sup>4</sup>  ×  ) × 0,45 × (  / 100 ) ×  = +  %

Seasonal space heating energy efficiency of package under average climate

<sup>5</sup>  %

Seasonal space heating energy efficiency class of package under average climate



Seasonal space heating energy efficiency under colder and warmer climate conditions

Colder: <sup>5</sup>  - <sup>6</sup>  =  %  
Warmer: <sup>5</sup>  + <sup>6</sup>  =  %

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 | 117% | 0  | 2,73 | 1,07 | 30% | -27% |

Water heating energy efficiency of combination heater

<sup>1</sup>  %

Declared load profile:

☐

Solar contribution

From fiche of solar device

Auxiliary electricity

( 1,1 × <sup>1</sup>  - 10 % ) × <sup>3</sup>  - <sup>4</sup>  - <sup>5</sup>  = +  %

Water heating energy efficiency of package under average climate

<sup>6</sup>  %

Water heating energy efficiency class of package under average climate

|     | G      | F      | E      | D      | C      | B      | A      | A <sup>+</sup> | A <sup>++</sup> | A <sup>+++</sup> |
|-----|--------|--------|--------|--------|--------|--------|--------|----------------|-----------------|------------------|
| M   | < 27 % | ≥ 27 % | ≥ 30 % | ≥ 33 % | ≥ 36 % | ≥ 39 % | ≥ 55 % | ≥ 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: <sup>6</sup>  - 0,2 × <sup>7</sup>  =  %

Warmer: <sup>6</sup>  + 0,4 × <sup>7</sup>  =  %

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   |
|-----|
| 89% |