

PRODUCT PERFORMANCE RATING

Document ID 1724767804-10-924df36b

Issued on: 27 August 2024 - Délivré le : 27 août 2024

This product is certified by Eurovent Certita Certification as mentioned on:

Ce produit est certifié par Eurovent Certita Certification comme mentionné sur :



Certificate N° 16.11.006

This document is valid at the date of issue - Check the current validity on www.eurovent-certification.com

Ce document est valide à la date d'édition - Vérifiez la date de validité sur www.eurovent-certification.com

Certification programmes / Programmes de certification

Liquid Chilling Packages and Hydronic Heat Pumps (Chillers & Heat pumps)

Product type / Type de produit

Heat pump, air-to-water, packaged, reversible

Model name / Nom du modèle

HU121MRB U30 / HN1616Y NB1

Range / Gamme

THERMA V IWT

Participant / Titulaire

LG ELECTRONICS Inc.

Brand / Marque

LG

This performance certificate is delivered for the following project

Project Name	Project company	Project location
<i>Nom du projet</i>	<i>Nom de la société</i>	<i>Localisation du projet</i>
ZUMLIST	LG	Poland

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FEATURE	VALUE	UNIT
Acoustics		
LWO (A-weighted sound power level of the unit)	61	dB(A)
A35/W12-7		
Pc (Cooling capacity)	12	kW
Pec (Electric power input of the unit)	4.44	kW
EER (Energy Efficiency Ratio)	2.7	
Apc Indoor (Indoor side available pressure of the unit with pump)	2.5	kPa
SEER AC		
SEER (Seasonal Energy Efficiency Ratio)	4.2	
ηSC (Seasonal space cooling energy efficiency)	165	%
A7/W40-45		
Aph Indoor (Indoor side available pressure of the unit with pump)	10	kPa
Ph (Heating capacity)	12	kW
Peh (Electric power input of the unit)	5.45	kW
COP (Coefficient of Performance)	2.2	
A35/W23-18		
Pc (Cooling capacity)	12	kW
Pec (Electric power input of the unit)	2.53	kW
EER (Energy Efficiency Ratio)	4.75	
Apc Indoor (Indoor side available pressure of the unit with pump)	1.2	kPa
A7/W30-35		
Ph (Heating capacity)	12	kW
Peh (Electric power input of the unit)	2.38	kW
COP (Coefficient of Performance)	5.04	
Aph Indoor (Indoor side available pressure of the unit with pump)	4.2	kPa
Am7/W30-35		
Ph (Heating capacity)	12	kW
Peh (Electric power input of the unit)	7.5	kW
COP (Coefficient of Performance)	1.6	
Aph Indoor (Indoor side available pressure of the unit with pump)	10	kPa



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Am7/W40-45		
Ph (Heating capacity)	12	kW
Peh (Electric power input of the unit)	10	kW
COP (Coefficient of Performance)	1.2	
Aph Indoor (Indoor side available pressure of the unit with pump)	10	kPa
A7/W47-55		
Ph (Heating capacity)	11	kW
Peh (Electric power input of the unit)	3.79	kW
COP (Coefficient of Performance)	2.9	
Aph Indoor (Indoor side available pressure of the unit with pump)	10	kPa
Am7/W47-55		
Ph (Heating capacity)	12	kW
Peh (Electric power input of the unit)	10.91	kW
COP (Coefficient of Performance)	1.1	
Aph Indoor (Indoor side available pressure of the unit with pump)	10	kPa
Psbcb		
Psbcb (Standby mode power input in cooling)	60	W
Psbhb		
Psbhb (Standby mode power input in heating)	60	W
Poffcb		
Poffcb (Off mode power input in cooling)	60	W
Poffhb		
Poffhb (Off mode power input in heating)	60	W
Ptoc		
Ptoc (Thermostat-off mode power input in cooling)	60	W
Ptohb		
Ptohb (Thermostat-off mode power input in heating)	60	W
Pckcb		
Pckcb (Crankcase heater mode power input in cooling)	0	W
Pckhb		
Pckhb (Crankcase heater mode power input in heating)	0	W



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SCOP Average W35

Pdesignh (Design heating load)	11.5	kW
SCOP (Seasonal Coefficient of Performance)	4.6	
ηsh (Seasonal space heating energy efficiency)	181	%

Sound Average W35

LwO (A-weighted sound power level of the unit)	69	dB(A)
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SCOP Average W55

Pdesignh (Design heating load)	11.5	kW
SCOP (Seasonal Coefficient of Performance)	3.5	
ηsh (Seasonal space heating energy efficiency)	137	%

Sound Average W55

LwO (A-weighted sound power level of the unit)	61	dB(A)
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General

Type of Water Regulation (Fixed or Variable Water Flow / Fixed or Variable Outlet Temp.)	FW/VO	
Refrigerant	R32	
Control of Pump Speed (Presence and control type of the pump)	Fixed	
Outdoor Heat Exc. Type	Finned Tube	
Indoor Heat Exc. Type	Plate	
Expansion Valve Type	Electronic	
Main Power Supply (Voltage (V) - Phase - Frequency (Hz))	230-1-50	

Compressor Details

Inverter (Inverter (True/False))	true	
Number (Number of compressors)	1	
Unit Capacity Control (Capacity control type of the unit (EN 14825))	Variable	
Motor Type (Motor type of the compressor(s))	VSD	
Type (Type of the compressor(s))	Scroll	

Liquid Chilling Packages and Hydronic Heat Pumps /
Groupe de production d'eau glacée et pompes à chaleur

Granted on November 17, 2016 - Date 1ère admission 17 novembre 2016

This document is valid at the date of issue - Check the current validity on:
Document valable à la date d'émission - Vérifier la validité en cours sur :
www.eurovent-certification.com

Participant/Titulaire

LG ELECTRONICS Inc.
76, SeongSan Dong - Changwon City
641-713 Gyeong Nam , Korea

This product performance certificate is issued by Eurovent Certita Certification according to the certification rules:

ECP LCP-HP - « Liquid Chilling Packages and Hydronic Heat Pumps » in force at established date.

Pursuant to the decision notified by Eurovent Certita Certification, the right to use the mark ECP shall be granted to the beneficiary company for all products inside the defined scope according to "certify-all" principle and in the conditions defined by the certification program mentioned.

Unless withdrawn or suspended, this certificate remains valid as long as the requirements for the certification program framework are met. The validity of the certificate is to be verified on www.eurovent-certification.com

THIS CERTIFICATE HAS BEEN ISSUED ON 27/02/2024
THIS CERTIFICATE IS VALID UNTIL 31/01/2025

Ce certificat de performance produit est délivré par Eurovent Certita Certification dans les conditions fixées par le référentiel :

ECP LCP-HP – « Groupe de production d'eau glacée et pompes à chaleur » en vigueur à date d'édition.

En vertu de la décision notifiée par Eurovent Certita Certification, le droit d'usage de la marque ECP, est accordé à la société qui en est bénéficiaire pour les tous les produits entrant dans le champ d'application défini selon le principe "certify-all" et dans les conditions définies par le programme de certification mentionné.

Sauf retrait ou suspension, ce certificat demeure valide tant que les conditions du référentiel du programme de certification sont respectées. La validité du certificat est à vérifier sur le site Internet www.eurovent-certification.com

CE CERTIFICAT A ÉTÉ EMIS LE 27/02/2024
CE CERTIFICAT EST VALIDE JUSQU'AU 31/01/2025

Paris, 27 février 2024

MANAGING BOARD MEMBER / MEMBRE DIRECTOIRE



Organisme accrédité n° 5-0517 Certification Produits et Services selon la norme NF EN ISO/CEI 17065:2012
Portée disponible sur www.cofrac.fr

Accreditation #5-0517 Products and Services Certification according to NF EN ISO/CEI 17065:2012 –
Scope available on www.cofrac.fr

COFRAC est signataire des accords MLA d'EA et MLA d'IAF, COFRAC is signatory of EA MLA and IAF MLA, list of EA members is available on www.european-accreditation.org/ea-members
list of IAF members is available on www.iaf.nu/articles/IAF_MEMBERS_SIGNATORIES/4



Appendix / Annexe

Granted on November 17, 2016 - Date 1ère admission 17 novembre 2016

This document is valid at the date of issue - Check the current validity on:

Document valable à la date d'émission - Vérifier la validité en cours sur :

www.eurovent-certification.com

List of certified products and characteristics is displayed on:

La liste des références et caractéristiques certifiées est disponible sur le site :

www.eurovent-certification.com

This product performance certificate is valid for the following trade names:

Ce certificat de performance produit est valide pour les marques commerciales suivantes:

Trade Name / Marque Commerciale

LG

This product performance certificate is valid for the following manufacturing places:

Ce certificat de performance produit est valide pour les sites de production suivants:

Manufacturing Place / Site de Production

Not applicable for this certification programme / Non applicable pour ce programme de certification

This product performance certificate is valid for the following software:

Ce certificat de performance produit est valide pour les logiciels de sélection suivants:

Software / Logiciel de sélection

LATS ISC 1.1.7.3
LATS Therma V 2.1.6.2
SELMAC 0.0.27 20210720-1