



Nyilatkozat igényjellegű, egy zónaidős „H” árszabás alkalmazásához

Érkezett: 20

ÜK szám:

Felhasználó neve:										
Felhasználó azonosító szám:	1	0								
Felhasználási hely címe:										
Fogyasztási hely azonosító:	0	4								

A „H” árszabás alkalmazását az alábbi hőszivattyús-berendezés üzemeltetéséhez igénylem:

Berendezés						
gyártója: LG Electronics Inc.,				típusjelzése: ARUN120LSS0		
Hőszivattyú						
névleges villamos teljesítménye (kW): 7.46		fűtési teljesítménye (kW): 36.7		jósági tényezője (SCOP értéke): 4.32		
Hőszivattyú működési rendszere (a megfelelőt kérjük bekarikázni)						
<input checked="" type="radio"/> levegő - levegő	<input type="radio"/> levegő - víz	<input type="radio"/> talaj - levegő	<input type="radio"/> talaj - víz	<input type="radio"/> víz - levegő	<input type="radio"/> víz - víz	
A különmért áramkörön lévő hőszivattyús hőellátó rendszer teljes egyidejű villamos teljesítménye (kW):						
A hőszivattyú várható fogyasztása (kWh)						
fűtési időszakban (október 15. – április 15.):			nyári időszakban (április 16. – október 14.):			

Kijelentem, hogy a „H” árszabást kizárólag a külön mért felhasználói áramkörre állandó jelleggel, megfelelő segédeszköz (szerszám) hiányában állagsérelem nélkül nem leválasztható módon, nem dugaszolhatóan csatlakoztatott, legalább 3,4 (SCOP) jósági fokú hőszivattyúk, és a napenergiából és egyéb megújuló energiaforrásokból nyert hőt épületek hőellátására hasznosító berendezések üzemeltetését közvetlenül szolgáló készülékek (pl. keringető szivattyúk, automatikák) villamosenergia-fogyasztására használom fel.

Kelt: _____

felhasználó

A villamosenergia elosztás biztosítása, a csatlakozási-, és hálózathasználati szerződés teljesítése keretében kezelt személyes adatokra vonatkozó tájékoztatást a www.mvmnext.hu honlapon és az ügyfélszolgálati irodáinkban elérhető Általános Adatkezelési Tájékoztatóban találhatja meg. Az ügyintézés során készített hangfelvétellel összefüggésben kezelt személyes adatokra vonatkozó tájékoztatást a www.mvmnext.hu honlapon és az ügyfélszolgálati irodáinkban elérhető Hangfelvétel Rögzítésére Vonatkozó Adatkezelési Tájékoztatóban találhatja meg.

2. Specifications

HP			10	12
Model Name			ARUN100LSS0	ARUN120LSS0
Capacity (Rated)	Cooling*	kW	28.0	33.6
		kcal/h	24,100	28,900
		Btu/h	95,900	114,700
	Heating*	kW	30.6	36.7
		kcal/h	26,300	31,600
		Btu/h	104,400	125,200
Input (Rated)	Cooling*	kW	8.75	14.00
	Heating*	kW	8.12	7.46
EER			3.20	2.40
COP			3.77	4.92
Power Factor	Rated	-	0.93	0.93
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600
	Motor Output	W	5,300	5,300
	Starting Method		Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
	Oil Charge		2,600	3,400
Fan	Type		Propeller fan	Propeller fan
	Motor Output x Number	W	250 x 2	250 x 2
	Air Flow Rate(High)	m ³ /min	190	190
		ft ³ /min	6,710	6,710
	Drive		DC INVERTER	DC INVERTER
Piping Connections	Discharge	Side / Top	Side	Side
	Liquid	mm(inch)	Ø 9.52(3/8)	Ø 12.7(1/2)
	Gas	mm(inch)	Ø 22.2(7/8)	Ø 28.58(1 1/8)
Dimensions(W x H x D)		mm	1,090 x 1,625 x 380	1,090 x 1,625 x 380
		inch	42-29/32 x 63-31/32 x 14-31/32	42-29/32 x 63-31/32 x 14-31/32
Net Weight		kg	144	157
		lbs	317	346
Sound Pressure Level	Cooling	dB(A)	58	60
	Heating	dB(A)	58	60
Sound Power Level	Cooling	dB(A)	80	81
	Heating	dB(A)	84	85
Protection Devices	High pressure protection	-	High pressure sensor	
	Compressor/ Fan	-	Over-heat protection / Fan driver overload protector	
	Inverter	-	Over-heat protection / Over-current protection	
Communication Cable(VCTF-SB)		No. x mm ²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount	kg	4.5	6.0
		lbs	9.9	13.2
	t-CO ₂ eq.		9.394	12.525
Control			Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V, Ø, Hz	380-415 , 3 , 50	380-415 , 3 , 50
			380 , 3 , 60	380 , 3 , 60
Number of maximum connectable indoor units			16	20

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- EUROVENT Test Condition :
 - Performance values on the this PDB are based on Ceiling mounted cassette combination.
 - Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- The maximum combination ratio is 160%.
- This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2,087.5)

EU DECLARATION OF CONFORMITY¹

Number²

E_DMZ_ARUN120LSS0_DOC_20221013000019

Name and address of the Manufacturer³

LG Electronics Inc.
LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Korea

This declaration of conformity is issued under the sole responsibility of the manufacturer.⁴

Object of the declaration⁵

Product information⁶

Product Name
Heat Pump

Model Name
ARUN120LSS0

Additional information⁷

Serial number is marked in the bar code label on the product

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:⁸

- References to the relevant harmonised standards used or references to the technical specifications in relation to which conformity is declared⁹

EMC Directive 2014/30/EU

EN 61000-3-12:2011
EN IEC 55014-1:2021

EN IEC 55014-2:2021
EN 61000-3-3:2013+A1:2019+A2:2021

Low Voltage Directive 2014/35/EU

EN 62233:2008 +AC:2008
EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A14:2019 +A2: 2019

EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012

Ecodesign Directive 2009/125/EC

Regulation 327/2011/EU

RoHS Directive 2011/65/EU (as amended by EU 2015/863)

EN IEC 63000:2018

Pressure Equipment Directive 2014/68/EU

EN 378-2:2016

The notified body¹⁰

Name : TÜV NORD Systems GmbH & Co. KG Number : 0045

performed

a quality assurance of the production process

and issued the certificate

0045/202/9160/Z/00002/22/D/001(00)

Address

Große Bahnstraße 31, 22525 Hamburg, Germany

Conformity Assessment Procedure

Module D1

Additional information⁷

[Accumulator] PED Category I - Module A [Compressor] PED Category II - Module D1 [Fin type heat exchanger] SEP - Article 4, 3. [Oil Separator] PED Category I - Module A [Pipe] SEP - Article 4, 3. [Pressure switch] PED Category IV - Module B(Production type) + D

Signed for and on behalf of:¹¹

LG Electronics Inc.

LG Electronics European Shared Service Center B.V.
Krijgsman 1, 1186 DM Amstelveen, The Netherlands

Name and Surname / Function:

Yun Hee Yang / Director

Place and date of issue:

7th. June. 2022



PRODUCT PERFORMANCE RATING

Document ID 1668765867-d0-4a8c2fb9

Issued on: 18 November 2022 - Délivré le : 18 novembre 2022

This product is certified by Eurovent Certita Certification as mentioned on:
Ce produit est certifié par Eurovent Certita Certification comme mentionné sur :



Certificate N° 14.12.005

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

Variable Refrigerant Flow (Variable refrigerant flow systems)

Product type / Type de produit

Air cooled, reversible

Model name / Nom du modèle

ARUN120LSS0

Range / Gamme

MULTI V S

Participant / Titulaire

LG ELECTRONICS Inc.

Brand / Marque

LG

This performance certificate is delivered for the following project

Project location

Localisation du projet

Hungary

Document ID 1668765867-d0-4a8c2fb9

Issued on: 18 November 2022 - Délivré le : 18 novembre 2022

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FEATURE	VALUE	UNIT
Standard Cooling/Cooling PL Cond A		
Pc out (Outdoor Cooling Capacity)	33.6	kW
Pec out (Outdoor power input (cooling))	15.27	kW
EERout (Outdoor Energy Efficiency Ratio)	2.2	
Heating		
Ph out (Outdoor Heating Capacity)	36.7	kW
Peh out (Outdoor power input (heating))	12.23	kW
COPout (Outdoor Coefficient of Performance)	3	
Acoustics		
LWO env (A weighted sound power level outdoor unit (non ducted))	78	dB(A)
Acoustics In Heating		
LWO env in heating (A weighted sound power level outdoor unit (non ducted) in heating)	82	dB(A)
SeasonalCooling		
SEER	6.5	
ηsc	257	%
Cooling PL Cond B		
PcB	24.76	kW
EERB	4.85	
Cooling PL Cond C		
PcC	15.92	kW
EERC	8.92	
Cooling PL Cond D		
PcD	7.35	kW
EERD	12	
SeasonalHeating Average		
Pdesignh	23.5	kW
SCOP	4.32	
ηsh	169.8	%
Heating PL Cond A		
PhA	20.79	kW

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FEATURE	VALUE	UNIT
Heating PL Cond A		
COPA	2.52	
Heating PL Cond B		
PhB	12.66	kW
COPB	4.03	
Heating PL Cond C		
PhC	8.14	kW
COPC	6.66	
Heating PL Cond D		
PhD	8.4	kW
COPD	8.22	
T Bivalent		
Tbiv (Bivalent Temperature)	-10	°C
PhTbiv	23.5	kW
COPTbiv	2	
Psb		
Psb	35	W
Psbh		
Psbh	75	W
General - Product		
Main Power Supply (Main Power Supply Voltage(V) - Phase-Frequency (Hz))	400-3-50	
Refrigerant (Refrigerant.Eg.:R410A, R407C)	R410A	
Mounting (Mounting type)	ducted	
IU Names (Names of combinable Indoor units)	6 x ARNU18GM3A4	
IU Range Names (Range Names of combinable Indoor units)	ARNU***M*	
Capacity Control (Capacity Control:Fixed, Staged, Variable)	Variable	

Variable Refrigerant Flow / Débit de réfrigérant variable

Granted on December 23, 2014 - Date 1ère admission 23 décembre 2014

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 VRF - « Variable Refrigerant Flow » 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 19/10/2022
THIS CERTIFICATE IS VALID UNTIL 31/12/2023

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

ECP VRF – « Débit de réfrigérant variable » 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 19/10/2022
CE CERTIFICAT EST VALIDE JUSQU'AU 31/12/2023

Paris, 19 octobre 2022

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 December 23, 2014 - *Date 1ère admission 23 décembre 2014*

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](#)

Changwon City, Korea
Tianjin, China

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](#)

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

Information requirements for air-to-air air conditioners

Model(s):	ARUN120LSS0 / ARNU18GTAA4 x 6EA
Outdoor side heat exchanger of air conditioner: [default: air]	
Indoor side heat exchanger of air conditioner: [default: air]	
Type: compressor driven vapour compression	
If applicable: driver of compressor: electric motor	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P_{ratedc}	33.60	kW	Seasonal space cooling energy efficiency	η_{sc}	257.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratio or gas utilisation efficiency /auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = + 35 \text{ }^\circ\text{C}$	P_{dc}	33.60	kW	$T_j = + 35 \text{ }^\circ\text{C}$	EERd or GUEc,bin/AEFc,bin	2.20	
$T_j = + 30 \text{ }^\circ\text{C}$	P_{dc}	24.76	kW	$T_j = + 30 \text{ }^\circ\text{C}$	EERd or GUEc,bin/AEFc,bin	4.85	
$T_j = + 25 \text{ }^\circ\text{C}$	P_{dc}	15.92	kW	$T_j = + 25 \text{ }^\circ\text{C}$	EERd or GUEc,bin/AEFc,bin	8.92	
$T_j = + 20 \text{ }^\circ\text{C}$	P_{dc}	7.35	kW	$T_j = + 20 \text{ }^\circ\text{C}$	EERd or GUEc,bin/AEFc,bin	12.00	
Degradation co-efficient for air conditioners (*)	C_{dc}	0.25					

Power consumption in modes other than active mode							
Off mode	P_{off}	0.035	kW	Crankcase heater mode	P_{cx}	0.035	kW
Thermostat-off mode	P_{to}	0.035	kW	Standby mode	P_{sb}	0.035	kW

Other items					
Capacity control	Variable		For air-to-air air conditioner: air flow rate, outdoor measured	9240	m ³ /h
Sound power level, outdoors	L_{WA}	- / 78	dB		
If engine driven: Emissions of nitrogen oxides	NOx (**)		mg/kWh x fuel input GCV	2087.5	kg CO ₂ eq (100 years)

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(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.
 (**) From 26 September 2018. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	ARUN120LSS0 / ARNU18GTAA4 x 6EA
Outdoor side heat exchanger of heat pump: air	
Indoor side heat exchanger of heat pump: air	
Indication if the heater is equipped with a supplementary heater: no	
If applicable: driver of compressor: electric motor	
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P_{ratedh}	36.70	kW	Seasonal space heating energy efficiency	η_{sh}	169.8	%
Declared heating capacity for part load at indoor temperature 20 °C				Declared coefficient of performance or gas utilisation efficiency			
$T_j = - 7 \text{ }^\circ\text{C}$	P_{dh}	20.79	kW	$T_j = - 7 \text{ }^\circ\text{C}$	COPd or GUEh,bin/AEFh,bin	2.52	
$T_j = + 2 \text{ }^\circ\text{C}$	P_{dh}	12.66	kW	$T_j = + 2 \text{ }^\circ\text{C}$	COPd or GUEh,bin/AEFh,bin	4.03	
$T_j = + 7 \text{ }^\circ\text{C}$	P_{dh}	8.14	kW	$T_j = + 7 \text{ }^\circ\text{C}$	COPd or GUEh,bin/AEFh,bin	6.66	
$T_j = + 12 \text{ }^\circ\text{C}$	P_{dh}	8.40	kW	$T_j = + 12 \text{ }^\circ\text{C}$	COPd or GUEh,bin/AEFh,bin	8.22	
T_{biv} = bivalent temperature	P_{dh}	23.50	kW	T_{biv} = bivalent temperature	COPd or GUEh,bin/AEFh,bin	2.00	
T_{ol} = operation limit	P_{dh}	23.50	kW	T_{ol} = operation limit	COPd or GUEh,bin/AEFh,bin	2.00	
For air-to-water heat pumps: $T_j = - 15 \text{ }^\circ\text{C}$ (if TOL < - 20 °C)	P_{dh}	x,x	kW	For water-to-air heat pumps: $T_j = - 15 \text{ }^\circ\text{C}$ (if TOL < - 20 °C)	COPd or GUEh,bin/AEFh,bin	x,x	
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	TOL	-10	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0.25					

Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{off}	0.075	kW	Back-up heating capacity(*)	elbu	0.0	kW
Thermostat-off mode	P_{to}	0.075	kW	Type of energy input			
Crankcase heater mode	P_{cx}	0.075	kW	Standby mode	P_{sb}	0.075	kW

Other Items						
Capacity control	Variable		For air-to-air heat pumps: air flow rate, outdoor measured	10092.5	m ³ /h	
Sound power level, indoors/outdoors	L_{WA}	- / 82	dB	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger	x	m ³ /h
Emissions of nitrogen oxides (if applicable)	NOx(***)		mg/kWh x fuel input GCV	2087.5	kg CO ₂ eq (100 years)	
			GWP of the refrigerant			

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(*)
 (**) If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25.
 (***) From 26 September 2018.
 Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.