

E.ON tölti ki:

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Betétlap „H” árszabás igényléséhez

Igénybejelentő (szerződő) neve: _____

Igénybejelentő (szerződő) felhasználó azonosító: □□□□□□□□□□

1. Hőszivattyúk

Az áramkörre csatlakoztatott berendezések műszaki adatlapjának, illetve a berendezés energiacímkejének másolatát kérjük csatolja igénybejelentéséhez.

A műszaki adatlap, és energiacímke másolatát átvettem (Ügyfélszolgálat tölti!)

2. Hőszivattyú azonosítása

Hőszivattyú gyártója: _____

Hőszivattyú típusa: _____

Azonos típusú készülékek száma: 1 db több, éspedig _____ db

3. Hőszivattyú villamos paraméterei

Hőszivattyú villamos csatlakozása: 1 fázis 3 fázis

Hőszivattyú névleges fűtőteljesítménye (kW): _____

Hőszivattyú névleges villamos teljesítmény felvétele (kW): _____

Indítási áramerősség mérséklésének módja: Lágymű Inverter Nincs

Névleges üzemi áramerősség (A): _____ Maximális áramerősség (A): _____

Gyártó által javasolt biztosító áramértéke, karakterisztikája: _____

Kiegészítő villamos fűtés teljesítménye (kW): _____

Kiegészítő villamos fűtés villamos csatlakozás szempontjából különválasztható? Igen Nem

Kiegészítő villamos fűtés fogyasztásának számított részaránya a teljes hőszivattyús rendszer éves villamos energia-fogyasztásához viszonyítva (%): (amennyiben nem választható külön) _____

4. Hőszivattyú üzeme

Rendszer felhasználása: Hűtés Fűtés Használati meleg víz

Hőforrás: Talajszonda Talajkollektor Vízkút Levegő Egyéb: _____

Hőátadó közeg: Víz Levegő Egyéb: _____ SCOP (szezonális jósági fok): _____

5. Egyéb közlendő:

Kivitelező neve: _____

Kivitelező címe: _____

Kivitelező telefonszáma: _____

Kivitelező e-mail címe: _____

Kijelentem, hogy a közölt adatok a valóságnak megfelelnek.

Alulírott, mint a belső villamos hálózat kivitelezője kijelentem, hogy a külön mért felhasználói áramkörre (H tarifás áramkör) állandó jelleggel, megfelelő segédeszköz (szerszám) hiányában állagsérelem nélkül nem leválasztható módon, nem dugaszolhatóan kerülnek csatlakoztatásra a H tarifával ellátható berendezések. Más berendezés a H tarifás áramkörre nem csatlakoztatható.

A kivitelezést, a vonatkozó jogszabályi előírásoknak, műszaki biztonsági követelményeknek megfelelően végeztem el.

Kivitelező aláírása _____

Elosztói engedélyesek elérhetőségei

Telefonos ügyfélszolgálat

Lakossági ügyfelek

h, k, cs, p 8.00-18.00

sz 8.00-20.00

Üzleti ügyfelek

h-p 7.30-20.00

Áram ügyintézés

Lakossági ügyfelek

T: 06 52/ 512 400

M: 06 20/30/70 45 99 600

Üzleti ügyfelek

T: 1423

Levélcímünk

(lakossági és üzleti)

7602 Pécs, Pf. 197

www.eon.hu

aramhalozat@eon.hu

Erkezett

Iktatási szám

Felhasználó azonosító

Felhasználási hely száma

Ügyintéző

Kitöltési útmutató – betélap „H” árszabás igényléséhez

1. Hőszivattyúk

A H tarifás mérésről üzemeltetett hőszivattyúk villamos adatlapjait kell csatolni, berendezés típusonként. Az adatlapok tartalmazzák a berendezés villamos adatait: névleges felvett villamos teljesítmény, maximális felvett villamos teljesítmény, névleges üzemi áramerősség és maximális áramerősség.

2. Hőszivattyú azonosítása

Hőszivattyú gyártója: A hőszivattyút gyártó cég neve, vagy a készülék márkája

Hőszivattyú típusa: A hőszivattyút pontos típusa, pl.: ABC12D-E3

Azonos típusú készülékek felszerelése esetén csak egy adatlapot kell kitölteni, a pontos darabszámot meg kell jelölni. Ha a darabszám mező nincs kitöltve, alapértelmezetten 1 darab készülékre határozzuk meg az engedélyezendő értéket. Több különböző készülék (azonos gyártótól eltérő típusok is) esetén külön adatlap kitöltése szükséges.

3. Hőszivattyú villamos paraméterei

Hőszivattyú névleges fűtőteljesítménye (kW): A hőszivattyú által leadott hőenergia kW-ban kifejezve.

Hőszivattyú névleges villamos teljesítmény felvétele (kW): A hőszivattyú által a hálózatról felvett villamos teljesítmény.

Névleges áramerősség (A): A hőszivattyú által névleges üzemállapot során felvett áram.

Maximális áramerősség (A): A hőszivattyú által maximális áramerősség.

4. Hőszivattyú üzeme

SCOP érték (szezónális jószági fok): teljes fűtési szezonra vonatkozóan adja meg az éves fűtési energia igény és a befektetett energia hányadosát. Elvárt minimális értéke: 3,4, amely az SCOP címkézési rangsorban az A+++ , A++ , A+ , és A energiasztálynak felel meg.

COP meghatározás:

- Levegő – levegő: A2 / A20
- Levegő – víz: A2 / W35
- Talajkollektor – víz: B_ / W_
- Talajszonda – víz: B_ / W_
- Víz – víz: W_ / W_
- Egyéb: _ / _

A COP nem egyenlő az EER, SEER, SCOP értékekkel!

5. Egyéb közlendő:

Pl. : Teljesítménybővítés esetén a már meglévő és üzemelő berendezések gyártója(márkája) és típusa.

Model	—	GRS-CQ12PdG/NhH2-M
Product Code	—	ER01002450
Heating Capacity(Floor Heating)	kW	12
Heating Capacity(Floor Heating)	Btu/h	40944
Cooling Capacity(Floor Cooling)	kW	11
Cooling Capacity(Floor Cooling)	Btu/h	37532
Heating Capacity(Fan Coil or Radiator)	kW	12, 29
Heating Capacity(Fan Coil or Radiator)	Btu/h	41933
Cooling Capacity(Fan Coil)	kW	10, 65
Cooling Capacity(Fan Coil)	Btu/h	36338
Heating Power Input(Floor Heating)	kW	2, 4
Cooling Power Input(Floor Cooling)	kW	2, 5
Heating Power Input(Fan Coil or Radiator)	kW	3, 09
Cooling Power Input(Fan Coil)	kW	3, 74
Heating Rated Power Input	kW	6, 37
Cooling Rated Power Input	kW	4, 85
Heating Rated Current	A	9, 2
Cooling Rated Current	A	7
COP(Floor Heating)	W/W	5
COP(Floor Heating)	(Btu/h)/W	17, 06
EER(Floor Cooling)	W/W	4, 4
EER(Floor Cooling)	(Btu/h)/W	15, 01
COP(Fan Coil or Radiator)	W/W	3, 98
COP(Fan Coil or Radiator)	(Btu/h)/W	13, 57
EER(Fan Coil)	W/W	2, 85
EER(Fan Coil)	(Btu/h)/W	9, 72
Rated Water Supply	L/h	/
Rated Water Supply	Pint/h	/
Sanitary Water Set Temperature Range	°C	40~80
Sanitary Water Set Temperature Range	°F	104~176
Heating Rated Water Outlet	°C	60
Heating Rated Water Outlet	°F	140
Outdoor Unit Model	—	GRS-CQ12Pd/NhH-M(O)
Outdoor Unit Product Code	—	ER010W1980
Rated Voltage	V	400
Rated Frequency	Hz	50
Phases	—	3
Ling Quantity	—	5
Cross-sectional Area of Power Cable Conductor	mm ²	2, 5
Cross-sectional Area of Power Cable Conductor	sq in	0 ???/???
Recommended Power Cable(Core)	N	5
Fuse Current	A	/
Circuit Breaker	A	16
Starting Current	A	/
Max. Over Current Protection	A	16
Compressor Trademark	—	GREE
Compressor Manufacturer	—	LINDA (GREE)
Compressor Model	—	QXFT-F310zN450
Compressor Type	—	Inverter Rotary
Compressor Quantity	—	1
Compressor Power Input	W	3250 ± 3% (60Hz)
Compressor Rated Load Amp (RLA)	A	/
Compressor Locked Rotor Amp (L. R. A)	A	/
Compressor Thermal Protector	—	internal
Compressor Refrigerant Oil Type	—	FW68DA or equivalent

Compressor Refrigerant Oil Charge Volume	L	1, 12
Compressor Exhaust Volume	m ³ /h	6, 7
Fan Type	—	Axial-flow
Fan Quantity	—	3
Fan Diameter-height	mm	550 - 203
Fan Diameter-height	inch	21 2/3 - 8
Motor Model	—	B-SWZ150A
Motor Insulation Class	—	B
Motor Safe Class	—	IP44
Motor Overload Protector	—	internal
Motor Full Load Amp (FLA)	A	0, 65
Fan Motor Quantity	—	1
Fan Motor Drive Type	—	internal drive
Fan Motor Speed	rpm	100~900
Fan Motor Power Output	W	150
Fan Motor Power Input	W	/
Fan Motor Running Current	A	0, 65
Fan Motor Capacitor	μF	/
Fan Motor Cassette Method	—	side
Heat Exchanger Type		Aluminum Fin-copper Tube
Heat Exchanger Quantity	—	1
Heat Exchanger Material	—	copper、aluminium
Heat Exchanger Face Area	m ²	0, 765
Heat Exchanger Face Area	sq. ft	8, 23
Heat Exchanger Pipe Diameter	mm	φ7
Heat Exchanger Pipe Diameter	inch	φ 7/25"
Heat Exchanger Number of Rows	—	3
Heat Exchanger Tube Pitch(a)×Row Pitch(b)	mm	22×19. 05
Heat Exchanger Tube Pitch(a)×Row Pitch(b)	inch	6/7 × 3/4
Heat Exchanger Fin Pitch	mm	1, 4
Heat Exchanger Fin Pitch	inch	5/91
Heat Exchanger Fins per Inch(FPI)	—	18
Heat Exchanger Fin Type	—	corrugated fin
Heat Exchanger Fin Colour	—	golden
Heat Exchanger Number of Circuits	—	9
Heat Exchanger (LxHxW)	mm	764×792×353
Heat Exchanger (LxHxW)	inch	30×31 1/6×13 8/9
Heat Exchanger Max. Allowable Pressure	MPa	12, 7
Air Flow Volume	m ³ /h	5015
Air Flow Volume	CFM	2951
Sound Pressure Level(Heating)	dB(A)	57
Sound Pressure Level(Cooling)	dB(A)	57
Permissible Excessive Operating Pressure for the	MPa	4, 3
Permissible Excessive Operating Pressure for the	MPa	2, 5
Maximum Allowable Pressure	MPa	4, 6
Safety Protection	—	High-low pressure protection, discharge temp. protection, motor overload protection, anti-freeze, water flow protection , compressor overload protection
System Operation Control		string control
Defrosting Method	--	Automatic Defrosting
Isolation	—	I
Moisture Protection	--	IPX4

Overload Protector	—	breaker
Climate Type	—	T1
Refrigerant	—	R32
Refrigerant Charge	kg	1,84
Refrigerant Charge	oz	64,9
Throttling Method	—	Electronic Expansion Valve
Cooling Nominal Operating Condition Outdoor Temperature	°C	35
Cooling Nominal Operating Condition Outdoor Temperature	°F	95
Cooling Nominal Operating Condition Outdoor Temperature	°C	24
Cooling Nominal Operating Condition Outdoor Temperature	°F	75,2
Heating Nominal Operating Condition Outdoor Temperature	°C	7
Heating Nominal Operating Condition Outdoor Temperature	°F	44,6
Heating Nominal Operating Condition Outdoor Temperature	°C	6
Heating Nominal Operating Condition Outdoor Temperature	°F	42,8
Water Heating Nominal Operating Condition Outdoor Temperature	°C	7
Water Heating Nominal Operating Condition Outdoor Temperature	°F	44,6
Water Heating Nominal Operating Condition Outdoor Temperature	°C	6
Water Heating Nominal Operating Condition Outdoor Temperature	°F	42,8
Cooling Operating Range Outdoor Temperature (DB)	°C	10~48
Cooling Operating Range Outdoor Temperature (DB)	°F	50~118.4
Heating Operating Range Outdoor Temperature (DB)	°C	-25~35
Heating Operating Range Outdoor Temperature (DB)	°F	-13~95
Water Heating Operating Range Outdoor Temperature (DB)	°C	-25~45
Heating Operating Range Outdoor Temperature (DB)	°F	-13~113
Connection Pipe Connection Method	—	Flare Connection
Connection Pipe Length	m	5
Connection Pipe Length	ft	16,4
Connection Pipe Gas Additional Charge	g/m	0
Connection Pipe Gas Additional Charge	oz/ft.	0

Date: Aug.22th, 2023

Declaration Of Conformity For CE-Mark

Model:

<u>GREE model</u>	<u>CASCADE model</u>	<u>PRODUCT code</u>
GRS-CQ16Pd/NhG-M	CRS-CQ16Pd/NhG-M	ER01001440_X57989
GRS-CQ12Pd/NhG-M	CRS-CQ12Pd/NhG-M	ER01001340_X57989
GRS-CQ12Pd/NhG-K	CRS-CQ12Pd/NhG-K	ER01001400_X57989
GRS-CQ10Pd/NhG-K	CRS-CQ10Pd/NhG-K	ER01001410_X57989
GRS-CQ8.0Pd/NhG-K	CRS-CQ8.0Pd/NhG-K	ER01001370_X57989
GRS-CQ6.0Pd/NhG-K	CRS-CQ6.0Pd/NhG-K	ER01001360_X57989
GRS-CQ10Pd/NhG2-K	CRS-CQ10Pd/NhG2-K	ER01001700_X57989
GRS-CQ12Pd/NhG2-K	CRS-CQ12Pd/NhG2-K	ER01001690_X57989
GRS-CQ12Pd/NhG2-M	CRS-CQ12Pd/NhG2-M	ER01001640_X57989
GRS-CQ16Pd/NhG2-M	CRS-CQ16Pd/NhG2-M	ER01001630_X57989
GRS-CQ16Pd/NhG4-M	CRS-CQ16Pd/NhG4-M	ER01002081_X57989
GRS-CQ12Pd/NhG4-M	CRS-CQ12Pd/NhG4-M	ER01002131_X57989
GRS-CQ10Pd/NhG4-E	CRS-CQ10Pd/NhG4-E	ER01002151_X57989
GRS-CQ8.0Pd/NhG4-E	CRS-CQ8.0Pd/NhG4-E	ER01002171_X57989
GRS-CQ6.0Pd/NhG4-E	CRS-CQ6.0Pd/NhG4-E	ER01002161_X57989
GRS-CQ12Pd/NhG4-E	CRS-CQ12Pd/NhG4-E	ER01002121_X57989
GRS-CQ12Pd/NhH-E(O)	CRS-CQ12Pd/NhH-E(O)	ER010W2000_X57989
GRS-CQ10Pd/NhH-E(I)	CRS-CQ10Pd/NhH-E(I)	ER010N1750_X57989
GRS-CQ10Pd/NhH-E(O)	CRS-CQ10Pd/NhH-E(O)	ER010W1730_X57989
GRS-CQ6.0Pd/NhH-E(I)	CRS-CQ6.0Pd/NhH-E(I)	ER010N1500_X57989
GRS-CQ6.0Pd/NhH-E(O)	CRS-CQ6.0Pd/NhH-E(O)	ER010W1500_X57989
GRS-CQ12Pd/NhH-E(I)	CRS-CQ12Pd/NhH-E(I)	ER010N2000_X57989
GRS-CQ12Pd/NhH-M(I)	CRS-CQ12Pd/NhH-M(I)	ER010N1980_X57989
GRS-CQ16Pd/NhH-M(I)	CRS-CQ16Pd/NhH-M(I)	ER010N2030_X57989
GRS-CQ16Pd/NhH-M(I)	CRS-CQ16Pd/NhH-M(I)	ER010N2031_X57989
GRS-CQ16Pd/NhH-M(O)	CRS-CQ16Pd/NhH-M(O)	ER010W2030_X57989
GRS-CQ12Pd/NhH-M(I)	CRS-CQ12Pd/NhH-M(I)	ER010N1981_X57989
GRS-CQ12Pd/NhH-M(O)	CRS-CQ12Pd/NhH-M(O)	ER010W1980_X57989
GRS-CQ10Pd/NhH2-E(I)	CRS-CQ10Pd/NhH2-E(I)	ER010N2511_X57989
GRS-CQ10Pd/NhH2-E(O)	CRS-CQ10Pd/NhH2-E(O)	ER010W2360_X57989
GRS-CQ6.0Pd/NhH2-E(I)	CRS-CQ6.0Pd/NhH2-E(I)	ER010N2481_X57989
GRS-CQ6.0Pd/NhH2-E(O)	CRS-CQ6.0Pd/NhH2-E(O)	ER010W2370_X57989
GRS-CQ12Pd/NhH-E(I)	CRS-CQ12Pd/NhH-E(I)	ER010N2001_X57989
GRS-CQ6.0PdG/NhH2-E	CRS-CQ6.0PdG/NhH2-E	ER01002370_X57989
GRS-CQ8.0PdG/NhH2-E	CRS-CQ8.0PdG/NhH2-E	ER01002370_X57989
GRS-CQ10PdG/NhH2-E	CRS-CQ10PdG/NhH2-E	ER01002340_X57989
GRS-CQ12PdG/NhH2-M	CRS-CQ12PdG/NhH2-M	ER01002360_X57989
GRS-CQ16PdG/NhH2-M	CRS-CQ16PdG/NhH2-M	ER01002450_X57989

Year of Manufacture: 2023

Standards, to which Conformity Is Declared

 LVD : EN60335-1:2012+A11:2014+A13:2017
 EN60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012

EN62233: 2008
EMC : EN55014-1: 2006+A1:2009+A2:2011
EN55014-2: 2015
EN61000-3-2: 2014
EN61000-3-3: 2013
ERP: EN 14511-1:2018; EN 14511-2:2018; EN 14825:2018
EN 16147: 2017
EN 12102-1: 2017

ROHS Directive No.(EU)65/2011
EN 50581: 2012
EN 62321: 2009

Manufacturer's Name: GREE ELECTRIC APPLIANCES, INC. of ZHUHAI

Manufacturer's Address: JinJi West Rd. Qianshan Zhuhai,China.

Importer's Name : FRIOTECH LTD.

Importer's Address: Hungary-2040 Budaors,Vasut u.9

We, GREE Electric Appliances Inc. of Zhuhai, hereby declare that the products specified above conform to the above mentioned directives and standards.

珠海格力电器股份有限公司
GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
.....
Authorized Signature(s)



Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): CRS-CQ12PdG/NhH2-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_s	126	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7$ °C	Pdh	9.9	kW	$T_j = -7$ °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 2$ °C	Pdh	5.4	kW	$T_j = 2$ °C	COPd	2.98	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 7$ °C	Pdh	3.7	kW	$T_j = 7$ °C	COPd	4.63	-
Degradation co-efficient (**)	Cdh	0.97	-				
$T_j = 12$ °C	Pdh	3.1	kW	$T_j = 12$ °C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j =$ bivalent temperature	Pdh	9.9	kW	$T_j =$ bivalent temperature	COPd	2.04	-
$T_j =$ operation limit temperature	Pdh	10.1	kW	$T_j =$ operation limit temperature	COPd	1.89	-
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{ych}	NA	kW	Cycling interval efficiency	COP _{yc}	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	0.9	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m ³ / h
Sound power level, indoors/outdoors	L _{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	7028	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	112	%
Daily electricity consumption	Q _{elec}	4.459	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	915	kWh	Annual fuel consumption	AFC	NA	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): CRS-CQ12PdG/NhH2-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_s	115	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	6.9	kW	$T_j = -7\text{ °C}$	COPd	2.59	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 2\text{ °C}$	Pdh	4.2	kW	$T_j = 2\text{ °C}$	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.98	-				
$T_j = 7\text{ °C}$	Pdh	2.6	kW	$T_j = 7\text{ °C}$	COPd	4.38	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = 12\text{ °C}$	Pdh	3.2	kW	$T_j = 12\text{ °C}$	COPd	5.97	-
Degradation co-efficient (**)	Cdh	0.95	-				
$T_j = \text{bivalent temperature}$	Pdh	9.0	kW	$T_j = \text{bivalent temperature}$	COPd	1.84	-
$T_j = \text{operation limit temperature}$	Pdh	4.0	kW	$T_j = \text{operation limit temperature}$	COPd	1.08	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	Pdh	9.0	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	COPd	1.84	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	7.0	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m ³ / h
Sound power level, indoors/outdoors	L _{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	9131	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	95	%
Daily electricity consumption	Q _{elec}	8.225	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1077	kWh	Annual fuel consumption	AFC	NA	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): CRS-CQ12PdG/NhH2-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	NA	kW	$T_j = -7\text{ °C}$	COPd	NA	-
Degradation co-efficient (**)	Cdh	NA	-				
$T_j = 2\text{ °C}$	Pdh	12.8	kW	$T_j = 2\text{ °C}$	COPd	2.34	-
Degradation co-efficient (**)	Cdh	1.00	-				
$T_j = 7\text{ °C}$	Pdh	8.3	kW	$T_j = 7\text{ °C}$	COPd	3.59	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 12\text{ °C}$	Pdh	3.7	kW	$T_j = 12\text{ °C}$	COPd	5.64	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = \text{bivalent temperature}$	Pdh	12.8	kW	$T_j = \text{bivalent temperature}$	COPd	2.34	-
$T_j = \text{operation limit temperature}$	Pdh	12.8	kW	$T_j = \text{operation limit temperature}$	COPd	2.34	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COPd	NA	-
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	P_{sup}	0.2	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ /h
Annual energy consumption	Q_{HE}	4047	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q_{elec}	4.309	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	883	kWh	Annual fuel consumption	AFC	NA	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): CRS-CQ12PdG/NhH2-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_s	176	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	9.7	kW	$T_j = -7\text{ °C}$	COPd	2.80	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 2\text{ °C}$	Pdh	6.1	kW	$T_j = 2\text{ °C}$	COPd	4.38	-
Degradation co-efficient (**)	Cdh	0.98	-				
$T_j = 7\text{ °C}$	Pdh	3.9	kW	$T_j = 7\text{ °C}$	COPd	6.04	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = 12\text{ °C}$	Pdh	3.2	kW	$T_j = 12\text{ °C}$	COPd	7.19	-
Degradation co-efficient (**)	Cdh	0.95	-				
$T_j = \text{bivalent temperature}$	Pdh	9.7	kW	$T_j = \text{bivalent temperature}$	COPd	2.80	-
$T_j = \text{operation limit temperature}$	Pdh	8.6	kW	$T_j = \text{operation limit temperature}$	COPd	2.34	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{ych}	NA	kW	Cycling interval efficiency	COP _{ycyc}	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	2.4	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m ³ / h
Sound power level, indoors/outdoors	L _{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	5065	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	112	%
Daily electricity consumption	Q _{elec}	4.459	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	915	kWh	Annual fuel consumption	AFC	NA	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): CRS-CQ12PdG/NhH2-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	η_s	159	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	6.6	kW	$T_j = -7\text{ °C}$	COPd	3.29	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 2\text{ °C}$	Pdh	4.0	kW	$T_j = 2\text{ °C}$	COPd	5.03	-
Degradation co-efficient (**)	Cdh	0.97	-				
$T_j = 7\text{ °C}$	Pdh	2.8	kW	$T_j = 7\text{ °C}$	COPd	5.70	-
Degradation co-efficient (**)	Cdh	0.95	-				
$T_j = 12\text{ °C}$	Pdh	3.4	kW	$T_j = 12\text{ °C}$	COPd	7.17	-
Degradation co-efficient (**)	Cdh	0.95	-				
$T_j = \text{bivalent temperature}$	Pdh	9.0	kW	$T_j = \text{bivalent temperature}$	COPd	2.60	-
$T_j = \text{operation limit temperature}$	Pdh	7.8	kW	$T_j = \text{operation limit temperature}$	COPd	1.75	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20°C)	Pdh	9.0	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20°C)	COPd	2.60	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{ych}	NA	kW	Cycling interval efficiency	COP _{yc}	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	2.2	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m ³ / h
Sound power level, indoors/outdoors	L _{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	6088	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	95	%
Daily electricity consumption	Q _{elec}	5.225	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1077	kWh	Annual fuel consumption	AFC	NA	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): CRS-CQ12PdG/NhH2-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η_s	234	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	NA	kW	$T_j = -7\text{ °C}$	COPd	NA	-
Degradation co-efficient (**)	Cdh	NA	-				
$T_j = 2\text{ °C}$	Pdh	12.0	kW	$T_j = 2\text{ °C}$	COPd	3.25	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 7\text{ °C}$	Pdh	7.5	kW	$T_j = 7\text{ °C}$	COPd	5.12	-
Degradation co-efficient (**)	Cdh	0.98	-				
$T_j = 12\text{ °C}$	Pdh	3.5	kW	$T_j = 12\text{ °C}$	COPd	7.66	-
Degradation co-efficient (**)	Cdh	0.95	-				
$T_j = \text{bivalent temperature}$	Pdh	12.08	kW	$T_j = \text{bivalent temperature}$	COPd	3.25	-
$T_j = \text{operation limit temperature}$	Pdh	12.08	kW	$T_j = \text{operation limit temperature}$	COPd	3.25	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COPd	NA	-
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	P_{sup}	0	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ /h
Annual energy consumption	Q_{HE}	2698	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q_{elec}	4.309	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	883	kWh	Annual fuel consumption	AFC	NA	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

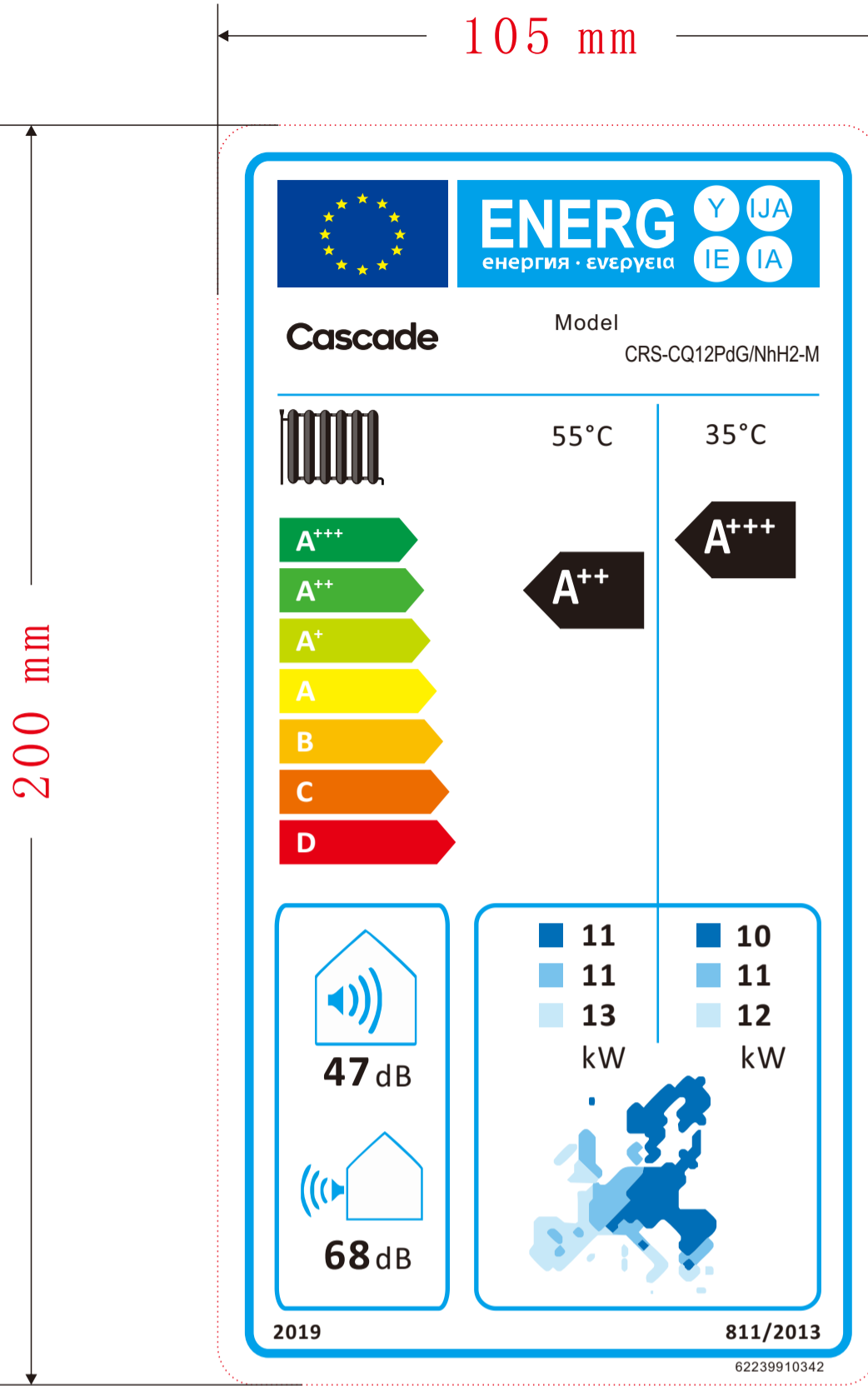


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TTK14.V1

发放单位

质控	钣金
生产	喷塑
采购	注塑
空四	两器
空六	管路一
试制	管路二
控制	模具
家技	筛选
家研	巴西
空一	重庆
空二	商技
空三	小家电
空五	



是否属于客户化物料

是
否

使用范围

通用
出口
内销

借通用登记

物料状态

钣金	注塑
喷塑	喷涂
两器	丝印
管路	控制
机加件	预装
采购	<input checked="" type="checkbox"/>

技术要求

- 1、外围尺寸：105mmX200mm,红色虚线为成品裁切线。
- 2、颜色要求：CMYK (C-青、M-洋红、Y-黄、K-黑)，
最高级：C100 M0 Y100 K0；第二级：C70 M0 Y100 K0；第三级：C30 M0 Y100 K0；第四级：C0 M0 Y100 K0；
第五级：C0 M30 Y100 K0；第六级：C0 M70 Y100 K0；第七级：C0 M100 Y100 K0；EU logo:C100 M80 Y0 K0和
C0 M0 Y100 K0；
EU map:■ C86 M51 Y0 K0 ;■ C53 M8 Y0 K0;■ C25 M0 Y2 K0;商标颜色：黑色
- 3、材料要求符合ROHS指令。
- 4、参照欧盟能源标签指令《(EU) NO 811-2013》。
- 5、要求单张来货，每张离型纸上一张贴纸。

							材料及厚度： 80g铜版纸不干胶					
							客户名称 匈牙利CASCADE					
会签		标记	处数	分区	更改文件号	签名	日期	图样标记	质量	比例	物料编码： 62239910342	
		编制			标准化						62239910342	
		审核			数据审核							
		工艺			审定							
		会签			批准			共 页 第 页				