## The technical documentation

#### Models:

ASH-24BIH

**Reference to harmonised standards:** EN 14825:2016; EN 14511-2:2013; EN 14511-3:2013; EN 12102-1:2017;

Specific precautions that shall be taken when the model is assembled, installed, maintained or tested:

#### **PROHIBITED**

- (1) The air conditioner should be grounded to avoid electric shock. Do not connect the ground wire to gas pipe, water pipe, lightning arrester or telephone wire.
- (2) The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- (3) The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).
- (4) According to federal/state/local laws and regulations, all packages and transportation materials, including nails, metal or wooden parts, and plastic packing material, must be treated in a safe way.

### **WARNING**

- (1) Please install according to this instruction manual. Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
- (2) Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- (3) Servicing shall only be performed as recommended by the equipment manufacturer.
- (4) The appliance shall be installed in accordance with national wiring regulations.
- (5) The fixed wires connecting to the appliance must be configured with all-pole disconnection device under voltage grade III according to wiring rules.
- (6) Air conditioner should be stored with protective measures against mechanical damage caused by accident.
- (7) If the installation space for air conditioner pipe is too small, adopt a protective measure to prevent the pipe from physical damage.
- (8) During installation, use the specialized accessories and components, otherwise water leakage, electric shock or fire hazard may occur.
- (9) Please install the air conditioner in a secure place that can withstand the weight of air conditioner. Insecure installation may cause the air conditioner falling down and lead to injury.
- (10) Be sure to adopt independent power circuit. If the power cord is damaged, it must be repaired by the manufacturer, service agent or other professional agents.

- (11) The air conditioner can be cleaned only after it is turned off and power-disconnected, otherwise electric shock may occur.
- (12) The air conditioner is not intended to be cleaned or maintained by children without supervision.
- (13) Do not alter the setting of pressure sensor or other protective devices. If the protective devices are short-circuited or changed against rules, fire hazard or even explosion may occur.
- (14) Do not operate the air conditioner with wet hands. Do not wash or sprinkle water on the air conditioner, otherwise malfunction or electric shock will occur.
- (15) Do not dry the filter with naked flame or an air blower; otherwise the filter will be out of shape.
- (16) If the unit is to be installed in a small space, please adopt protective measures to prevent the concentration of refrigerant from exceeding the allowable safety limit; excessive refrigerant leakage may lead to explosion.
- (17) When installing or re-installing the air conditioner, please keep the refrigerant circuit away from substances other than the specified refrigerant, such as air. Any presence of foreign substances will cause abnormal pressure change or even explosion, resulting in injury.
- (18) Only professionals are allowed to carry on daily maintenance.
- (19) Before contacting any wire, make sure power is cut off.
- (20) Do not let any inflammable objects near the unit.
- (21) Do not use organic solvent to clean the air conditioner.
- (22) If you need to replace a component, please ask a professional to repair with a component supplied by the original manufacturer so as to ensure the unit's quality.
- (23) Improper operation may get the unit broken, hit by electric shock or cause fire.
- (24) Do not make the air conditioner wet or electric shock may be lead; Ensure that the air conditioner will not be cleaned by water rinsing under any circumstance.

# Measured technical parameters & The calculations performed with the measured parameters

Information requirements									
(the number of decimals in the box indicates the precision of reporting)									
Information to identify the model(s) to which the information relates to:									
					If function includes heating: Indicate the				
Eupetion (indica					heating season the information relates to.				
Function (indicate to which function information				Indicated values should relate to one heating					
	applies)				season at a time. Include at least the heating				
					season 'Average'.				
cooling		Υ		Average	Y				
Cooling		1		(mandatory)	Y				
heating		Υ		Warmer	N				
neating	heating Y			(if designated)	IN				
					N				
				(if designated)	IN				
Item	symbol	value	uni	Item	symbol	value	unit		
11.0111	Gynnoon	valuo	t	11.0111	- Cyllibol	Value	Grint		
Design load				Seasonal efficiency					
cooling	Pdesign	7.0	kW	cooling	Test	7.38			
- ccciiiig	С	7.0	KVV	cooming	SEER	7.50			
heating/Avera	Pdesign	6.4	kW	heating/Avera	SCOP(A	4.13			
ge	h			ge	)				
heating/Warm	Pdesign	_	kW	heating/Warm	SCOP(	_	_		
er	h			er	W)				
heating/Colder	Pdesign	_	kW	heating/Colder	SCOP(C	_	_		
-	h			_	)				
Tested capacity (*) for cooling, at indoor				Tested energy efficiency ratio (*), at indoor					
temperature 27(19) °C and outdoor temperature				temperature 27(19) °C and outdoor					
Tj			temperature Tj						
Tj = 35 °C	Ptc	7.01	kW	Tj = 35 °C	EER	3.73	_		
Tj = 30 °C	Ptc	5.07	kW	Tj = 30 °C	EER	5.24			
Tj = 25 °C	Ptc	3.27	kW	Tj = 25 °C	EER	9.03			
Tj = 20 °C	Ptc	2.44	kW	Tj = 20 °C	EER	15.10			
Tested capacity (*) for heating/Average season, Tested coefficie						` ,	•		
at indoor temperature 20 °C and outdoor				season, at indoor temperature 20 °C and					
temperature Tj				outdoor temperature Tj					
Tj = - 7 °C	Pth	5.74	kW	Tj = - 7 °C	COP	2.77			
Tj = 2 °C	Pth	3.48	kW	Tj = 2 °C	COP	4.04			
Tj = 7 °C	Pth	2.26	kW	Tj = 7 °C	COP	5.35			
Tj = 12 °C	Pth	1.98	kW	Tj = 12 °C	COP	6.50	_		
Tj = bivalent	Pth	5.74	kW	Tj = bivalent	COP	2.77	_		

temperature				temperature				
Tj = operating limit	Pth	5.20	kW	Tj = operating limit	СОР	2.62	_	
Tested capacity	(*) for heat	ting/Warmer seas	on,	Tested coefficient of performance (*)/Warmer				
at indoor temper	rature 20 °0	C and outdoor		season, at indoor temperature 20 °C and				
temperature Tj				outdoor temperature Tj				
Tj = 2 °C	Pth	-	kW	Tj = 2 °C	COP	-	_	
Tj = 7 °C	Pth	-	kW	Tj = 7 °C	COP	-	_	
Tj = 12 °C	Pth	-	kW	Tj = 12 °C	COP	-	_	
Tj = bivalent		-	kW	Tj = bivalent	СОР	-	_	
temperature	Pth			temperature				
Tj = operating limit	Pth	-	kW	Tj = operating limit	СОР	-	_	
Tested capacity	(*) for heat	ting/Colder seaso	n, at	Tested coefficie	nt of perforn	mance (*)/Co	older	
indoor temperate	ure 20 °C a	and outdoor		season, at indoor temperature 20 °C and				
temperature Tj	temperature Tj			outdoor temperature Tj				
Tj = − 7 °C	Pth	-	kW	Tj = − 7 °C	COP	-		
Tj = 2 °C	Pth	-	kW	Tj = 2 °C	COP	ı	_	
Tj = 7 °C	Pth	-	kW	Tj = 7 °C	COP	-	_	
Tj = 12 °C	Pth	-	kW	Tj = 12 °C	COP	-		
Tj = bivalent temperature	Pth	-	kW	Tj = bivalent temperature	СОР	1	_	
Tj = operating limit	Pth	-	kW	Tj = operating limit	СОР	-	_	
Tj = − 15 °C	Pth	-	kW	Tj = − 15 °C	COP	-	_	
Bivalent tempera	ature			Operating limit temperature				
heating/Avera ge	Tbiv	-7	°C	heating/Avera ge	Tol	-10	°C	
heating/Warm er	Tbiv	-	°C	heating/Warm er	Tol	-	°C	
heating/Colder	Tbiv	-	°C	heating/Colder	Tol	-	°C	
Power consumption of cycling				Efficiency of cycling				
cooling	Pcycc	-	kW	cooling	EERcyc	-		
heating	Pcych	-	kW	heating	COPcyc	-	_	
Degradation				Degradation				
co-efficient	Cdc	0.25	—	co-efficient	Cdh	0.25	_	
cooling (**)			L	heating (**)				
Electric power input in power modes other than				Second electricity consumption				
'active mode'				Seasonal electricity consumption				
off mode	Poff	0.0072	kW	cooling	Q <sub>CE</sub>	331.61	kWh/ a	

standby mode	P <sub>SB</sub>	0.0072	kW	heating/Avera ge	Qне	2166.42	kWh/ a	
thermostat-off mode	Рто	0.00197/0.013 63	kW	heating/Warm er	Qне		kWh/ a	
crankcase heater mode	Рск	0	kW	heating/Colder	QHE		kWh/ a	
Capacity control	Capacity control (indicate one of three options)			Other items				
fixed	Z			Sound power level (indoor/outdoo r)	LWA	62/67	dB(A)	
staged	N			Global warming potential	GWP	675	kgCO 2 eq.	
variable	Υ			Rated air flow (indoor/outdoo r)	_	1200/360 0	m³/h	