

TECHNICAL DATASHEET  
**WRAS APPROVED AUTOMATIC  
AIRVENT**



**HOME CREATOR**



Item No.: HC.21041

## 1 CERTIFICATION INFORMATION

**Declaration of conformity:** WRAS approved air vent, Confirmation of the approval can be obtained from the WRAS Approvals Directory. ([www.wras.co.uk/directory](http://www.wras.co.uk/directory))

## 2 PRODUCT BASICS

**Product Name:** WRAS APPROVED AUTOMATIC AIRVENT

**Purpose:** The automatic air vent is designed to remove air from closed heating and hot water supply systems. Protects the system from corrosion and cavitation, and from the formation of air locks. Typically, in closed systems, the presence of air causes a lot of noise and low efficiency of the system. Also the presence of an air vent allows you to reduce the likelihood of reduced heat transfer slow down the corrosion of such system elements as pumps, boilers and others, significantly increasing the service life of the system as a whole, as well as all its elements, excluding damage to the circulation pump, wear of its bearings, cavitation wear pump blades, etc.

**Manufacturer (supplier):** HOME CREATOR TECHNOLOGY CO., LTD ( Qinggang, Yuhuan, Taizhou, Zhejiang province, China ).

## 3 MAIN TECHNICAL DATA AND CHARACTERISTICS

### 3.1 SPECIFICATIONS

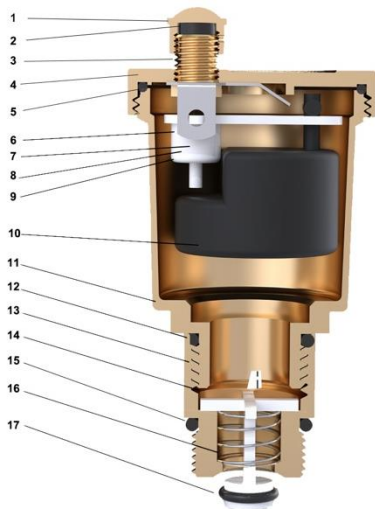
Table 1

Characteristic	Values
Maximum working pressure, Mpa	1.0
Minimum working pressure, Mpa	0.03
Working environment temperature range	0-110
Maximum ambient temperature, °C	60.0
Air vent connecting thread, inch	1/2" & 3/8"
Connecting thread of the complete shut-off valve, inch	1/2" & 3/8"



### 3.2 MATERIAL OF MANUFACTURE AND CONSTRUCTION

Table 2



1. HOME CREATOR brass products are made by hot stamping of brass grade CW617N as per the European standard EN12165.
2. The Rubber Mat are made of EP8018F EPDM according to European standards.

No.	Item Name	Material
1	Big Cap	Brass CW617N
2	Rubber Washer	EPDM
3	Air Relief Nozzle	Brass CW617N
4	End Cap	Brass CW617N
5	O-Ring	EPDM
6	Washer	AISI 304
7	Spring	AISI 304
8	Core	POM
9	Spring Spool Holder	POM
10	Float	PP
11	Body	Brass CW617N
12	O-Ring	EPDM
13	Adapter	Brass CW617N
14	Core	POM
15	O-Ring	EPDM
16	Spring	AISI 304
17	O-Ring	EPDM

### 3.3 AUTOMATIC AIRVENT



### 3.4 CROSS SECTION

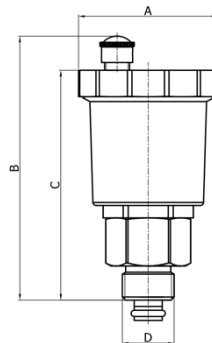


Table 3

Item	DN	Adapter Size	Weight, g	Overall dimensions, mm			
				A	B	C	D
HC-21041	10	3/8"	187	44.8	85	74	3/8"
HC-21041	15	1/2"	192	44.8	85	74	1/2"

### 3.5 MAXIMUM PRESURE CONDITIONS

Table 4

Size	Max Pressure (bar)	Min/Max Temperature (°C)	Test Pressure		Max Pressure (psi)	Min/Max Temperature (°F)	Test Pressure	
			Shell (bar)	Seat (bar)			Shell (bar)	Seat (bar)
1/2" & 3/8"	10	+ 120°C	24	17.5	145	+248 °F	348.1	253.8



## **4 INSTALLATION AND OPERATION**

- 4.1 The automatic air vent must be installed and maintained by a specialist or specialized organization.
- 4.2 The automatic air vent is installed in a vertical position with the air fitting upward, and the air vent should be installed at the highest point of the system pipeline or on the air collector.
- 4.3 Before starting installation, it is recommended to check the condition of the pipeline on which the air vent will be installed. The system should be free of scale and rust; if necessary, clean the pipeline and flush the system with water until it is completely cleaned of mechanical impurities.
- 4.4 In order to be able to dismantle the air vent without stopping the operation of the system, a complete shut-off valve must be used.
- 4.5 For normal operation of the air vent, the protective cap on the fitting must be unscrewed. When the cap is screwed all the way, the air vent is closed and air is not released automatically.
- 4.6 During operational work on the initial filling of the system, when large volumes of escaping air are formed, the air vent must be closed to avoid damage to the spool mechanism. In such cases, the air is vented through specially designed air bleed valves or ball valves.

## **5 INSTRUCTIONS FOR USE AND MAINTENANCE**

- 5.1 Maintenance of the automatic air vent during operation is reduced to periodic inspections.
- 5.2 The air vent must be operated under the conditions specified in the technical characteristics table; temperature and pressure must not exceed the given values.
- 5.3 Every 12 months of operation of the air vent, it is necessary to carry out maintenance of the device. If there is no pressure in the system, check the condition of the connections and seals, and also remove accumulated dirt from the housing and the air valve.
- 5.4 When servicing the device, during dismantling and installing the housing cover, you should be especially careful with the spool part of the locking mechanism, especially its spring part. This unit is not subject to disassembly and reconfiguration. When reassembling the housing cover, after removing sludge and contaminants from the housing glass, it is necessary to restore the connection between the spool spring bracket and the float.
- 5.5 To extend the service life of sealing elements, it is recommended to open / close the HOME CREATOR airvent at least 1 time in 6 months.

## **6 STORAGE AND TRANSPORTATION CONDITIONS**

Products are transported in the packaging of the manufacturer in accordance with the rules operating on the mode of transport used.



## 7 RESOURCES, LIFETIMES AND MANUFACTURER'S (SUPPLIER'S) WARRANTIES

- 7.1 Average full service life of a airvent: 30 years.
- 7.2 The manufacturer (supplier) guarantees the operability and compliance with the safety requirements of the product if the consumer complies with this technical passport HC-21041.
- 7.3 Warranty period: 36 months from the date of sale to the end user / from the date of commissioning of the object. The warranty covers all defects caused by the manufacturer.
- 7.4 When making claims about the quality of the goods, the buyer provides the following documents:
  - 7.4.1 An application in any form, which indicates:
    - a) Name of the organization or F. And. About. buyer, actual address, contact phone number;
    - b) The name and address of the organization that carried out the installation of the product;
    - c) A brief description of the malfunction of the product.
  - 7.4.2 A document confirming the purchase of the product (cash/sales receipt, waybill, receipt, etc.).
  - 7.4.3 Photos of the product confirming its malfunction, or the product itself.
  - 7.4.4 Act of hydraulic testing of the system in which the product was mounted.
  - 7.4.5 Completed warranty card.
- 7.5 The warranty does not cover defects arising from:
  - 7.5.1 Violations of the passport regimes of storage, transportation, installation and operation of the product.
  - 7.5.2 The presence of traces of extraneous interference in the design of the product.
  - 7.5.3 Effects of substances aggressive to the materials of the product.
  - 7.5.4 Effects on the product of excessive force.
  - 7.5.5 Impact on the product of fire, natural disasters and other force majeure circumstances.
- 7.6 The warranty also does not apply in cases where the manufacturer markings are partially or completely changed erased, removed or illegibly visible.
- 7.7 In case of unreasonableness of the claim, the costs of diagnostics and examination of the product are paid by the buyer.
- 7.8 Manufacturer ZHEJIANG HOME CREATOR TECHNOLOGY CO., LTD reserves the right to make changes to the design of the product that do not affect the declared technical characteristics.
- 7.9 Claims for the quality of the goods can be made during the warranty period at the address of the manufacturer HOME CREATOR TECHNOLOGY CO., LTD.



## 8 CERTIFICATE OF ACCEPTANCE AND PACKAGING

- 8.1 Airvent packed by the manufacturer.
- 8.2 Packaging ensures the safety of products subject to compliance with clause 7.
- 8.3 The materials and substances used for packaging are safe for people and the environment.
- 8.4 The airvent is in the open position.
- 8.5 The batch of airvent is recognized as suitable for operation and is accepted with 100% control at  $RPR = 2.5 * PW$ .

<b>Date of manufacture</b>		<b>QUALITY Mark</b>	
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9 NOTE

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Name: WRAS APPROVED AUTOMATIC AIRVENTArticle: HC.21041

Quantity: \_\_\_\_\_

Name and Address of the trading organization: \_\_\_\_\_

Date of Sale: \_\_\_\_\_ Seller's full name / Seller's signature, Stamp / seal of the trading organization: \_\_\_\_\_

I agree with the terms of the warrant: \_\_\_\_\_

Product Return Mark: \_\_\_\_\_

Buyer's signature: \_\_\_\_\_

Date / Signature: \_\_\_\_\_

View your passport Online:

**WARRANTY PERIOD: 36 MONTHS**

Warranty is provided.  
according to paragraph 8 of the technical passport HC.21041





# HOME CREATOR

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