

STEAM HUMIDIFIER CATALOG



INDEX HUMIDIFIER

AH Series **6**

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WH Series **11**



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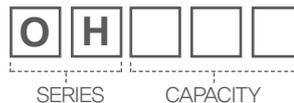
OH Series **4**

HUMIDIFIER OH SERIES

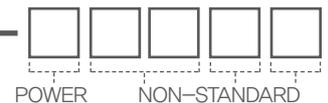
OEM type humidifiers that are designed to have the structure and the systems that allow the humidifier to be applicable in AHU or ACU. The series products have been selected by leading domestic and foreign companies because of their special features. They have wider capacity range and allow proportional control (4–20mA/0–10V) without external electrical device due to a dedicated controller (E–HUMS) adopted.

CLASSIFICATION

MODEL CODE



SPEC CODE



- **INSTALLATION** Floor / Wall mounting – both available
One–touch connection for 1/4 inch copper pipe
Direction change for drain connection
- **PLUG-IN SCHEME** Components (pump, valve, power connector) are easy to assemble with PLUG-IN type
- **CONTROL MODE** Various controller available
OEM controller (E–HUMS)
Precision air conditioner controller (STHAV)
Stand alone type controller (SI–HUMP)
NEW Controller with LCD Display (EM2)

- **DRAIN PUMP** Prevent sludge blockage
Prolongs product life
Minimize A/S
- **MANUAL DRAIN** Make maintenance easier

OH004



SPEC	OH004-1	OH004-2	OH004-3	OH004-6	OH004-7
POWER SUPPLY	220V 1P 60Hz	220V 3P 60Hz	380 - 480V 3P 60hz	220V 1P 50hz	380 - 480V 3P 50hz
CAPACITY	4[kg/h]				
CONSUMPTION	3.0[kW]				
RATED CURRENT	13.7[A]	7.9[A]	4.6[A]	13.7[A]	4.6[A]
CYLINDER	CY004-1	CY004-2	CY004-3	CY004-1	CY004-3
W×D×H / Weight	240×232×456 / 3.7kg				
WATER INLET	220VAC 1P, 1/4inch for copper pipe connection, 2~8[bar]				
DRAIN CONNECTION	220VAC 1P, ID22[mm] Heat resistance hose, 8ℓ /min				

OH008



SPEC	OH006-1	OH008-2	OH008-3	OH008-7
POWER SUPPLY	220V 1P 60Hz	220V 3P 60Hz	380 - 480V 3P 60hz	380 - 480V 3P 50hz
CAPACITY	6[kg/h]	8[kg/h]		
CONSUMPTION	4.5[kW]	6.0[kW]		
RATED CURRENT	20.5[A]	15.8[A]	9.1[A]	
CYLINDER	CY006-1	CY008-2	CY008-3	
W×D×H / Weight	240×232×516 / 4.2kg			
WATER INLET	220VAC 1P, 1/4inch for copper pipe connection, 2~8[bar]			
DRAIN CONNECTION	220VAC 1P, ID22[mm] Heat resistance hose, 8ℓ /min			

OH015



SPEC	OH015-2	OH015-3	OH015-7
POWER SUPPLY	220V 3P 60Hz	380 - 480V 3P 60hz	380 - 480V 3P 50hz
CAPACITY	15[kg/h]		
CONSUMPTION	11.3[kW]		
RATED CURRENT	29.5[A]	17.1[A]	
CYLINDER	CY015-2	CY015-3	
W×D×H / Weight	290×256×576 / 5.5kg		
WATER INLET	220VAC 1P, 1/4inch for copper pipe connection, 2~8[bar]		
DRAIN CONNECTION	220VAC 1P, ID22[mm] Heat resistance hose, 8ℓ /min		

OH045



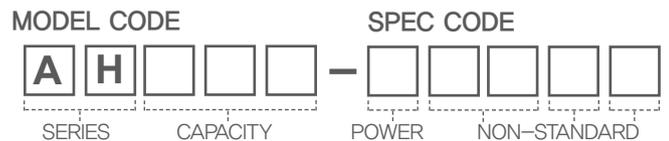
SPEC	OH030-2	OH045-3	OH045-7
POWER SUPPLY	220V 3P 60hz	380 - 480V 3P 60hz	380 - 480V 3P 50hz
CAPACITY	30[kg/h]	45[kg/h]	
CONSUMPTION	22.5[kW]	33.8[kW]	
RATED CURRENT	59.1[A]	51.3[A]	
CYLINDER	CY030-2	CY045-3	
W×D×H / Weight	360×330×665 / 14.5kg		
WATER INLET	220VAC 1P, 1/4inch for copper pipe connection, 2~8[bar]		
DRAIN CONNECTION	220VAC 1P, ID22[mm] Heat resistance hose, 8ℓ /min		

HUMIDIFIER AH SERIES

Stand-alone type humidifiers that are designed as the control box integrated structure for user convenience. Consist of the standard products with the capacity of 45kg/h ~ 90kg/h and non-standard products with 91kg/h ~ 270kg/h. It can be easily installed on air conditioning units that are not equipped with humidifiers or in places where humidifiers are needed.



CLASSIFICATION



- PRECISION** Contolled by Micro processor adopt-ed controller makes high efficiency, long life cycle of cylinder
- CAPACITY** Specialized on bigger capacity for custom-made by user require-ments
- RELIABILITY** Designed for Safety & Reliability by acquisition of CE, EM, Procurement certification

- DRAIN PUMP** Prevent sludge blockage
Prolongs product life
Minimize A/S
- OPERATION** ON/OFF operation by remote signal
Proportional operation by remote signal
Local operation by Humidity probe

AH045



SPEC	AH030-2	AH045-X
POWER SUPPLY	220V 3P 60Hz	380 – 480V 3P
CAPACITY	30[kg/h]	45[kg/h]
CONSUMPTION	22.5[kW]	33.8[kW]
RATED CURRENT	59.1[A]	51.3[A]
CYLINDER	CY030-2	CY045-3
CONTROL POWER	220VAC 1P 60Hz or 50Hz / TR Equipped for 380V or higher	
W×D×H / Weight	550×375×890 / 40kg	
WATER INLET	1/4inch for copper pipe, 2~8[bar]	
DRAIN CONNECTION	For ID22[mm] Heat resistance hose, 8ℓ /min	

AH090



SPEC	AH060-2	AH090-X
POWER SUPPLY	220V 3P	380 – 480V 3P
CAPACITY	60[kg/h]	90[kg/h]
CONSUMPTION	45.0[kW]	67.5[kW]
RATED CURRENT	118.1[A]	102.6[A] / (380V)
CYLINDER	CY030-2×2Cycle	CY045-3×2Cycle
CONTROL POWER	220VAC 1P 60HZ / TR Equipped for 380V or higher	
W×D×H / Weight	920×375×890 / 67kg	
WATER INLET	1/4inch for copper pipe, 2~8[bar], 15A Socket	
DRAIN CONNECTION	ID22[mm] Heat resistance hose, 8ℓ /min, 25A Socket	
CONTROL METHOD	Remote On/Off Signal 2 Step	

AH135



SPEC	AH135-X
POWER SUPPLY	380 – 690V 3P
CAPACITY	135[kg/h]
CONSUMPTION	101.3[kW]
RATED CURRENT	153.8[A] / (380V)
CYLINDER	OH045-3×3Cycle
CONTROL POWER	220VAC 1P 60HZ / TR Equipped for 380V or higher
W×D×H / Weight	1,500×520×1,260 / 158kg
WATER INLET	15A Socket
DRAIN CONNECTION	25A Socket

※ NON-STANDARD PRODUCT – FOR SPECIAL REQUIREMENTS. ※

AH180/270



SPEC	AH180	AH270
CAPACITY	180[kg/h]	270[kg/h]
CONSUMPTION	135[kW]	202.5[kW]
UNIT	OH045-3×4Cycle	OH045-3×6Cycle
CONTROL POWER	220VAC 1P 60HZ / TR Equipped for 380V or higher	
W×D×H / Weight	1100×620×1960	1700×840×2100
CONTROL METHOD	LOCAL, REMOTE, MASTER-Slave	

※ NON-STANDARD PRODUCT – FOR SPECIAL REQUIREMENTS. ※

HUMIDIFIER BH SERIES

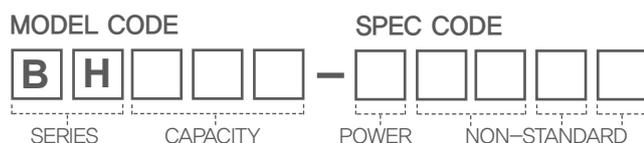
New model with integration of new design and technology. Maximized customer needs and user convenience.

Applied european design and structure. So that easily approach to household item as well as commercial and industrial.

Provides 9 kinds of operation mode and multi channel inputs. BH models can be linked upto 8 units by Master/Slave function for extensive composition.

Temperature control by NTC is available for application of household SPA facility.

CLASSIFICATION



· OPERATION MODES

Provides 9 kinds of operation modes accepts any user's requirements.
 -REMOTE
 -LOCAL
 -PROPORTIONAL

· MASTER /SLAVE

Linkage with basic units (4, 8, 15, 45kg/h), extensive composition is available. (2~360kg/h)

· HIGH LIMIT PROBE

Prevents over-humidification, user can consist high limit sensor in duct or room. (OPTION)

· MULTI INPUTS

To accept diversity of sensor or remote control signal, 5 kind of input signals are acceptable.
 4-20mA / 0-20mA / 2-10VDC / 0-10VDC / NTC

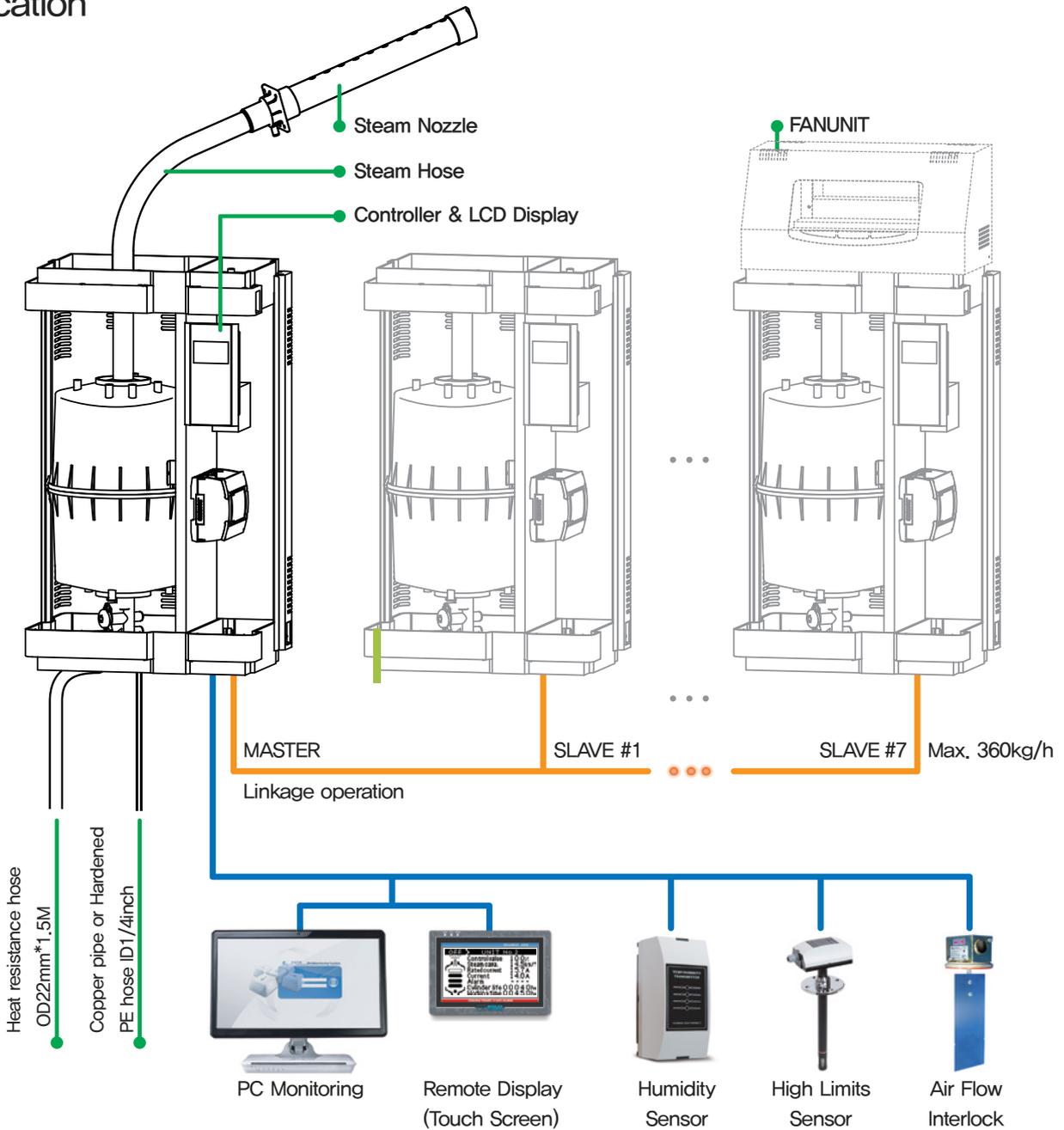
· PROPORTIONAL CONTROL

Based on the remote proportional control, Local proportional operation(PT) function is included to provide constant humidity.

· SPA APPLICATION

Temperature control is available to apply to SPA application as a steam generator. Logic for Exhaust fan, Essence infuser can be applied (Option)

Application



FAN UNIT

Diffusion device for space without HVAC construction.
 It can be mounted on BH model or Connected with humidifier unit.
 Fan speed can be regulated as well (Option).



***TIP**

CAPACITY	20°C 40%	20°C 50%	25°C 40%	25°C 50%	30°C 40%	30°C 50%
4KG/HR	182m ²	132m ²	122m ²	99m ²	93m ²	73m ²
8KG/HR	348m ²	265m ²	248m ²	198m ²	182m ²	146m ²
15KG/HR	628m ²	496m ²	476m ²	364m ²	347m ²	265m ²
45KG/HR	992m ²	827m ²	793m ²	661m ²	328m ²	496m ²

These are theoretically calculated values. It can be changed by site conditions (Ambient air, Ventilation, Cooling load)

BH004



SPEC	BH004-1	BH004-2	BH004-X
POWER SUPPLY	220V 1P 60Hz	220V 3P 60Hz	380 - 480V 3P
CAPACITY	4[kg/h]		
CONSUMPTION	3.0[kW]		
RATED CURRENT	13.7[A]	7.9[A]	4.6[A] (380V)
CYLINDER	CY004-1	CY004-2	CY004-3
CONTROL POWER	220VAC 1P 60Hz or 50Hz / TR Equipped for 380V or higher		
W×D×H / Weight	400×320×622 / 20kg		
WATER INLET	1/4inch for copper pipe, 2~8[bar]		
DRAIN CONNECTION	For ID22[mm] Heat resistance hose, 8ℓ /min		
OPTION	FANUNIT, Humidity probe, NTC, Floor Mounting Leg		

BH008



SPEC	BH006-1	BH008-2	BH008-X
POWER SUPPLY	220V 1P 60Hz	220V 3P 60Hz	380 - 480V 3P
CAPACITY	6[kg/h]	8[kg/h]	
CONSUMPTION	4.5[kW]	6[kW]	
RATED CURRENT	20.5[A]	15.8[A]	9.1[A] (380V)
CYLINDER	CY008-1	CY008-2	CY008-3
CONTROL POWER	220VAC 1P 60Hz or 50Hz / TR Equipped for 380V or higher		
W×D×H / Weight	400×320×622 / 21kg		
WATER INLET	1/4inch for copper pipe, 2~8[bar]		
DRAIN CONNECTION	For ID22[mm] Heat resistance hose, 8ℓ /min		
OPTION	FANUNIT, Humidity probe, NTC, Floor Mounting Leg		

BH015



SPEC	BH015-2	BH015-X
POWER SUPPLY	220V 3P 60Hz	380 - 480V 3P
CAPACITY	15[kg/h]	
CONSUMPTION	11.3[kW]	
RATED CURRENT	29.5[A]	17.1[A]
CYLINDER	CY015-2	CY015-3
CONTROL POWER	220VAC 1P 60Hz or 50Hz / TR Equipped for 380V or higher	
W×D×H / Weight	400×320×682 / 23kg	
WATER INLET	1/4inch for copper pipe, 2~8[bar]	
DRAIN CONNECTION	For ID22[mm] Heat resistance hose, 8ℓ /min	
OPTION	FANUNIT, Humidity probe, NTC, Floor Mounting Leg	

BH045



SPEC	BH030-2	BH045-3
POWER SUPPLY	220V 3P 60Hz	380 - 480V 3P
CAPACITY	30[kg/h]	45[kg/h]
CONSUMPTION	22.5[kW]	33.8[kW]
RATED CURRENT	59.1[A]	51.3[A]
CYLINDER	CY030-2	CY045-3
CONTROL POWER	220VAC 1P 60Hz or 50Hz / TR Equipped for 380V or higher	
WATER INLET	1/4inch for copper pipe, 2~8[bar]	
DRAIN CONNECTION	For ID22[mm] Heat resistance hose, 8ℓ /min	
OPTION	FANUNIT, Humidity probe, NTC, Floor Mounting Leg	

HUMIDIFIER WH SERIES

Compact type humidifier which have an improved design, compare to other existing products. The height of the unit is reduced by more than 50% to allow easy installation on existing air conditioners, coolers or heaters. Easy to be maintained due to their completely sealed container structure. Since the product is designed with the ratio similar to conventional resistive type humidifier, it can easily replace existing resistive type.

FEATURES

· INSTALLATION

Horizontal structure to installation for low space.
Reduced occupancy space.

· ELECTRODE

Improved material of electrode to special alloy.
Minimized corrosion to prolong cylinder life.

· QUICK GENERATION

6 electrodes generates steam faster and good response.
(Less than 15 minutes to approach rated current by tap water)

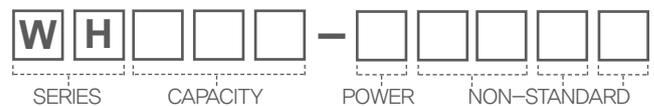
· MAINTENANCE

Cylinder is composed as like Airtight-container.
Easy to clean and eliminate sludge inside.



CLASSIFICATION

MODEL CODE



SPEC CODE

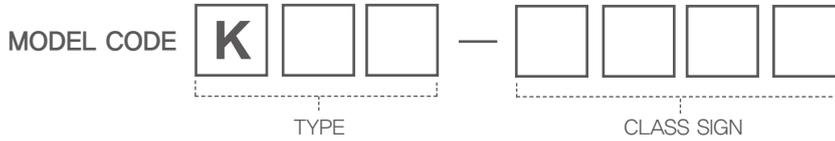
SPEC	WH004-1	WH004-2	WH004-3	WH008-2	WH008-3
POWER SUPPLY	220V 1P	220V 3P	380V 3P	220V 3P	380V 3P
CAPACITY		4[kg/h]		8[kg/h]	
CONSUMPTION		3.0[kW]		6.0[kW]	
RATED CURRENT	12.7[A]	7.9[A]	4.6[A]	15.8[A]	9.1[A]
CYLINDER	CW004-1	CW004-2	CW004-3	CW008-2	CW008-3
W×D×H / Weight	502x180x300				
SUPPLY VALVE	220VAC 1P, 1/4inch for copper pipe, 2~8[bar]				
DRAIN VALVE	220VAC 1P, OD13mm				

1. WH model should be installed on the drain plate of Air-conditioner

2. "CA" should be attached on the end of code for [Controller mounted model] (ex. WH008-3CA)

ACCESSORIES

CLASSIFICATION



WATER SUPPLY VALVE / KSV-1105		
	POWER	220V 50/60Hz
	CURRENT	35mA
	FLOW	10L/min
	PRESSURE	1-10 Bar
	INLET	3/4inch, PM
	OUTLET	OD10.5mm

DRAIN PUMP		KDP-4511	KDP-1511
	POWER	220V 60Hz	220V 50Hz
	CURRENT	0.2A	
	FLOW	8L/min	
	HEAD	1.5M (HEAD OF FLUID)	
	INLET	13mm	
	OUTLET	18mm	

WATER DRAIN VALVE / KDV-1 (For WH MODEL)		
	POWER	220V 50/60Hz
	CURRENT	80mA
	FLOW	3.5L/min
	INLET	OD16mm
	OUTLET	OD13mm

POWER CONNECTOR		KPC-5	KPC-6
	SPEC	ELECTRODE 5mm	ELECTRODE 6mm
	CLAMP	HEXAGON WRENCH M6	
	CURRENT	Acceptable upto 690VAC 45A	
	WIRE	1.5sq - 10sq	

STEAM NOZZLE / KN*	CODE	PIPE LENGTH	
	4kg/h	KNS-230 300mm	
	8kg/h	KNS-240 400mm	
	15kg/h	KNS-350 500mm	
	45kg/h	KNS-470	700mm
		KNS-485	850mm

STEAM HOSE		KSH-22	KSH-30	KSH-45
	ID [mm]	22	30	45
	THICKNESS [mm]	4.5	5.25	6
	OD [mm]	31	40.5	57
	TEMP. °C	-25~105		
	MATERIAL	INSIDE : TPV + Galvanized steel spring OUTSIDE : TPV + Polyester fiber		
	Curve Radius [mm]	75	85	120

CONDENSATE HOSE / KCH-09			
	ID [mm]	9	
	THICKNESS [mm]	2	
	OD [mm]	13	
	MATERIAL	Silicone	
	COLOR	Dark Gray	
	TEMP. °C	-25~180	

CYLINDER									
Max. 4kg/h		Max. 6,8kg/h		Max. 15kg/h		Max. 30,45kg/h		Max. 4,8kg/h	
									
CY004-1	1P 220V	CY006-1	1P 220V	CY015-2	3P 220V	CY030-3	3P 220V	CW004*	3P 220V ~380V
CY004-2	3P 220V	CY008-2	3P 220V						
CY004-3	3P 380V	CY008-3	3P 380V	CY015-3	3P 380V	CY045-3	3P 380V	CW008*	





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