

## 2. Specifications

Indoor Unit				ZHNW16C1 [HN1600MC NK1]
Operation Range (Leaving Water Temperature)	Cooling	Min. ~ Max.	°C DB	5 ~ 27
	Heating	Min. ~ Max.	°C DB	15 ~ 65
	DHW *	Min. ~ Max.	°C DB	15 ~ 80
Water Pump	Type		-	Canned type for hot water circulation
	Model			GRUNDFOS UPML 20-105 CHBL
	Motor Type		-	BLDC
	Steps of Pump Performance		-	Variable capacity 10% to 100%
	Power input	Min. ~ Max.	W	14 ~ 140
Flow Sensor	Type		-	Vortex
	Model		-	SIKA VVX20
	Measuring Range	Min. ~ Max.	ℓ/min	5 ~ 80
	Flow (Trigger point)	Min.	ℓ/min	15
Water Pressure Sensor	Model		-	Sensata OFM(2HMP)
	Measuring Range	Min. ~ Max.	bar(G)	0 ~ 20
Expansion Vessel	Volume	Max.	ℓ	8
	Water pressure	Max.	bar	3
	Water pressure	Pre-charged	bar	1
Relief valve	Pressure Limit	Upper Limit	bar	3.0
Devices for Water Circuit	-		-	Relief valve / Flow sensor
			-	Drain hose
			-	Pressure sensor / Air vent valve
Piping Connections	Water Circuit	Inlet to PHEX	mm(Inch)	Male PT 25.4(1)
		Inlet to Heat Load	mm(Inch)	Male PT 25.4(1)
		Outlet from PHEX	mm(Inch)	Male PT 25.4(1)
		Outlet from Heat Load	mm(Inch)	Male PT 25.4(1)
Wiring Connections	Power and Communication Cable (Included Earth, H07RN-F)		mm <sup>2</sup> x cores	0.75 x 4C
Sound Power Level	Heating	Rated	dB(A)	44
Dimensions	Unit	W × H × D	mm	490 × 850 × 315
	Packed Unit	W × H × D	mm	563 × 1,082 × 375
Weight	Unit		kg	30.5
	Packed Unit		kg	34.5
Exterior	Color		-	Nobel White
	RAL Code		-	RAL 9016

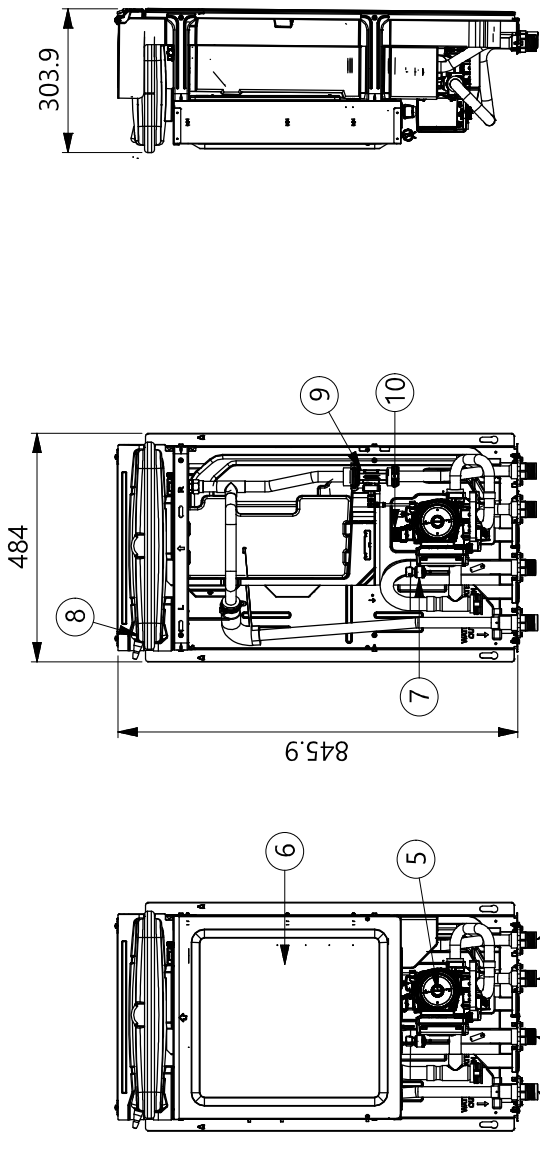
**Note**

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. 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.
3. Sound power level is measured on the rated condition in according with ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
4. \* DHW 58~80°C operating is available only when the booster heater is operating.

### 3. Dimensions

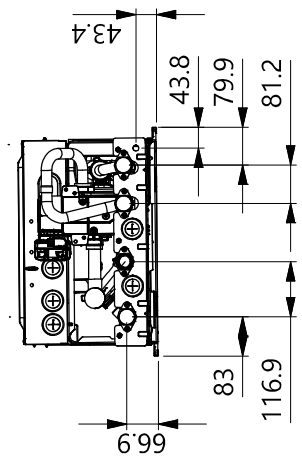
#### 3.1 Internal Layout

[Unit: mm]  
 Chassis code: K1  
 P/ No. : TBJ37800801\_rev.01



↓ Note for PDB of indoor unit

**Note**  
 1. Unit should be installed in compliance with the installation instructions in the product box.  
 2. The unit should be installed in accordance with the local regulations or applicable national codes.  
 3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.



10	Safety Valve	Open at water pressure 3 bar
9	Sensor,Flow	O-Ring Flow range : 5 ~ 80 LPM
8	Tank,Expansion	COMPLEX 8 liter 3/4"
7	Pressure Sensor	SENSATA 2HMP3-04W 0-2MPa
6	Control Box	PCB and Terminal blocks
5	Pump,Water	GRUNDFOS UPML 20-105 CHBL
4	Tube Assembly	EPP_Pump Outlet
3	Tube Assembly	EPP Structure_Pump Inlet
2	Tube Assembly	EPP Structure_Water
1	Tube Assembly	EPP_Outlet Pipe
No.	Part Name	Description

### 3. Dimensions

#### 3.2 External Layout

[Unit: mm]  
Chassis code: K1  
P/No.: TB137800801\_rev.01

↓ Note for PDB of indoor unit

**Note**

1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.

No.	Part Name	Description
5	Control Panel	Built-in Remote Controller
4	Tube Assembly	EPP_Pump Outlet
3	Tube Assembly	EPP Structure_Pump Inlet
2	Tube Assembly	EPP Structure_Water
1	Tube Assembly	EPP_Outlet Pipe