

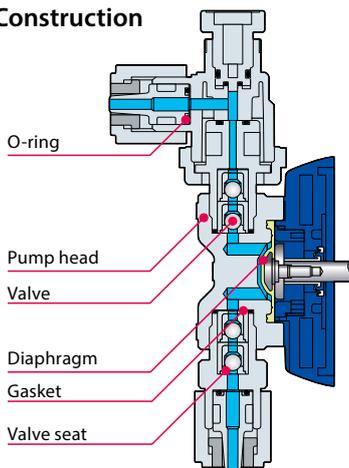
### Features Water Quality Control Functions and Multivoltage Operation



The EWN-W series is a diaphragm type electromagnetic metering pump and features water quality control functions and multi voltage operation. PH, ORP(oxidation-reduction potential), conductivity or cooling tower modes can be selected to customise the pump for specific appli-

cations. A large backlit LCD offers good legibility and the pump uses Iwaki's uniquely high stroke speed of 360spm. The EWN-W promises stable water quality control with fine flow adjustment in continuous chemical dosing situations.

#### Construction



#### Controller Variation

WPO(pH/ORP), WEC(conductivity) and WCT(cooling tower) controllers are available. Also, the extra large LCD improves legibility and ease of operation.

#### Multi Voltage

The EWN-W can be used in all countries thanks to the universal power supply(100-240VAC).

#### High Resolution

Stroke speed adjustment in 1spm increments allows fine flow adjustment between 1 and 360spm in continuous chemical feeding.

#### Pump Body

The molded pump body with a minimum of sealing surfaces meets a high level (IP65 equivalent) of both waterproofness and dustproofness. The plastic casing cover further protects the pump when installed in severe environments.

#### Adjustable Tube Fitting

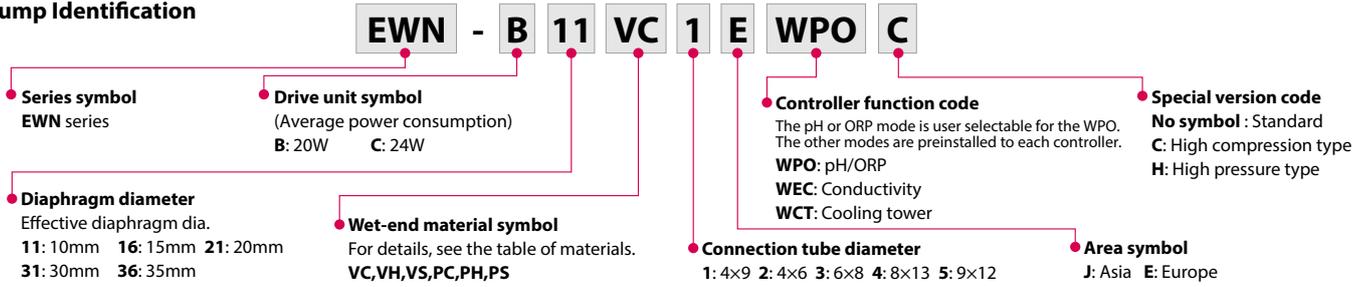
Newly-designed adjustable tube fittings eliminate tube twisting when fastening.

#### Wet End Materials

Material code	VC	VH	VS <sup>Note</sup>	PC	PH	PS <sup>Note</sup>
Pump head	PVC			GFRPP		
Valve	Alumina ceramic	HASTELLOY® C276 equivalent	SUS316 equivalent	Alumina ceramic	HASTELLOY® C276 equivalent	SUS316 equivalent
Valve seat	FKM	EPDM		FKM	EPDM	
Diaphragm	PTFE+EPDM					
Gasket	PTFE					
O-ring	FKM	EPDM		FKM	EPDM	

Note : EHN-B31 and C31, 36 only.

Pump Identification

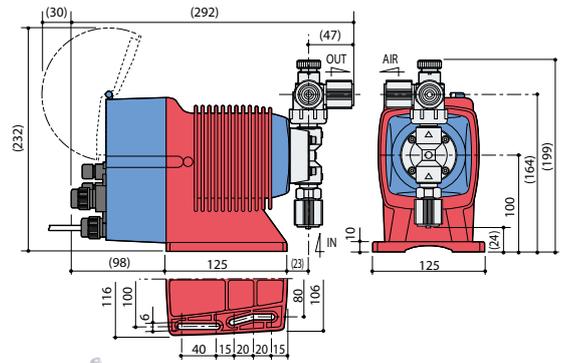


Specifications of Pump

Model	B11	B16	B21	B31	C16	C21	C31	C36
Max. pressure MPa	1.0	0.7	0.4	0.2	1.0	0.7	0.35	0.2
Max. capacity mL/min	38	65	100	200	80	130	270	420
Connection mm	4x9, 4x6, 6x8			8x13, 9x12	4x9, 4x6, 6x8		8x13, 9x12	
Power Voltage	100 - 240 VAC 50/60Hz							
Air vent valve	Yes							
Average current	0.8A/20W				1.2A/24W			
Mass kg	2.5				3.5			

Note 1: The maximum discharge capacity of each model represents the figure when the pump is pumping clean water at maximum discharge pressure, rated voltage, ambient temperature, and 360 spm.  
 Note 2: 0.12MPa or more discharge pressure is needed to prevent over feeding (0.05MPa or more for the EWN-B31 and C36). If the discharge pressure is at or below the required MPa, install a check valve or back pressure valve.  
 Operating condition: Liquid temperature range · VC/VH types 0 - 40 °C · PC/PH types 0 - 60 °C  
 Ambient temperature range is 0 - 40 °C

Dimensions in mm



Specifications of Multibox (Relay Type) (for the WCT/Cooling Tower)

Model	TK-PC99-6RY	
Input	Power Voltage	100-240VAC 50/60Hz
	Control method	Blowoff control input (from WCT)
Output	Voltage contact	Voltage is depend on power supply Max 250VAC 8A (Load resistance)
	Pump power source	Voltage is depend on power supply



Specifications of Controller

Model	WPO		WEC	WCT
Control modes	pH		Oxidation-reduction potential	Conductivity
Sensor	pH sensor		ORP sensor	Conductivity sensor
Control function	Function			
	Control method		Setting method	
	Proportional control (PID control)		6 keypads Start/Stop, (Up), (Down), SET, CAL, ESC	
Display	LCD			
	LED			
	STOP/PreSTOP			
	Output(alarm)behavior			
Input	Sensor input range		Liquid temperature range (Temp. sensor type)	
	0.00 - 14.00pH Auto(matic) temperature compensation		0 - 99.9°C (Pt1000)	
Output	AUX			
	Interlock			
	Output1			
	Output2			
Calibration	AUTO calibration (2 points)MAN calibration		Measured value adjustment	
Function	Selection of pH buffer solution, Measured value shift, Selection of automatic/manual temperature compensation, Key lock (with PIN number), Error indication			
Power Voltage	100 - 240 VAC 50/60Hz			

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**Caution for safety use:** Before use of pump, read instruction manual carefully to use the product correctly. Actual pumps may differ from the photos. Specifications and dimensions are subject to change without prior notice. For further details please contact us.  
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