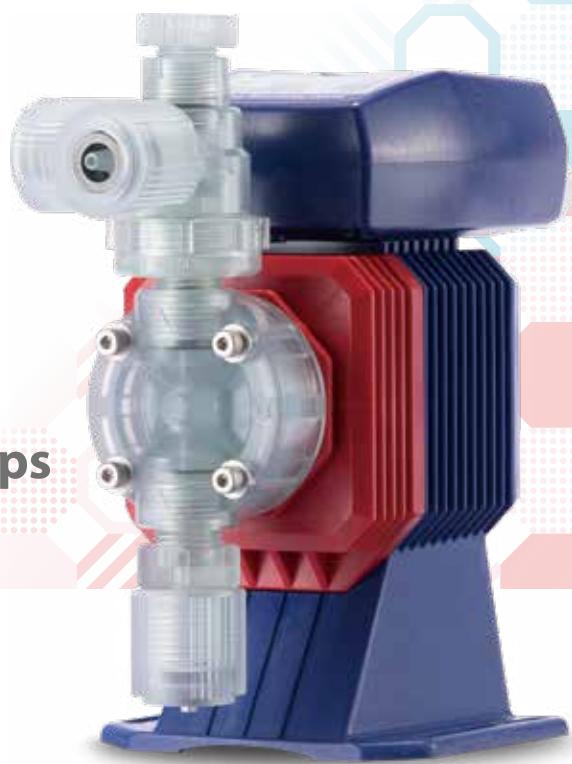




IWAKI Electromagnetic metering pumps
EHN

Extensive product range
Highly reliable, best selling pumps



The Heart of Industry

The latest electromagnetic metering pump equipped with digital controller & multi-voltage





Pump head variation

Wide variety of standard pump head (VC/VH/PC/PH/PP/FC/SN), automatic air vent type (NAE) and high compression type (55 type).

- Refer to page 5 for details of NAE and 55.



High resolution

Thanks to digitized controller, stroke speed can be adjusted by 1 spm step from 1 to 360 spm. Combined with stroke length adjustment, you can do the fine adjustment from very small flow to maximum flow rate.



Stroke length adjusting dial



Control panel



Control unit

The highly-functional EHN-YN which is equipped with digital and analogue inputs are added to the standard production line as well as EHN-R.



Multi-voltage power source

Multi-voltage power source from 100 - 240VAC for all models. You are now free from worrying about power voltage.



Air vent valve

Standard pump head models (VC/VH/PC/PH/PP) equip air vent valve. Air in the pump chamber can be easily released by turning knob.



Water/dust-proof

Each unit such as driving unit and control unit is sealed to make the pump IP66 equivalent water/dust-proof.

- Do not install pump outdoor.



Multi hose connection

The use of a new hose stopper eliminates a twist in tube connection.

- Except for the following
Wet-end material: FC type, SH type
Controller: EHN-R/YN Flow Checker corresponding type

Accessories: Check valve CS type,
Backflow prevention valve,
Back pressure valve, Flow checker, T-joint

Various combinations of the controller and the pump head meet a wide range of application requirement.

Basic type EHN-R series

The basic model of the EHN series. Key lock function prevents erroneous operation after controller programming. The mounted controller provides EXT and STOP functions. Multiply and dividing operations becomes newly available by EXT functions and allows you to delicate pump control.



Controller function

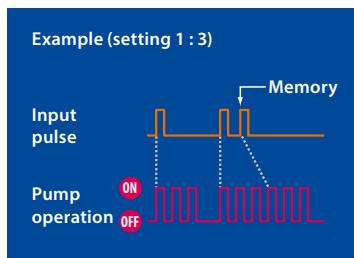
Manual operation

Pump run/stop and stroke rate setting (1 to 360 sspm) can be done by keys. Stroke rate can be set either when pump is running or stopped.

EXT operation

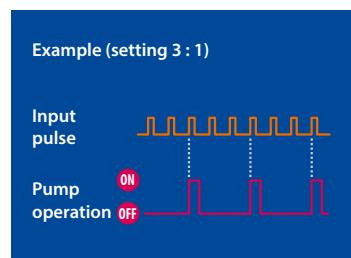
Multiply (1 : n)

Pump makes multiply operation by external pulse signal. Pump makes "n" times shots against one pulse signal input. "n" can be set from 1 to 999. Pulses which came while operation are put in memory up to 64535 shots.



Dividing (n : 1)

Pump makes dividing operation by external pulse signal. Pump makes one shot against "n"



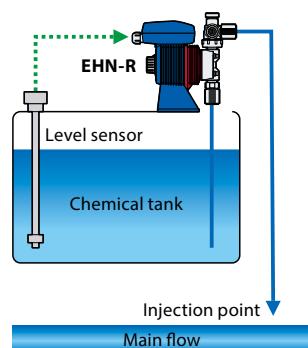
times pulse input. "n" can be set from 1 to 999.

- If "n" is set at 1, pump makes synchronous operation. If pump is connected to optionally available EH controller, please use this function.

STOP function

Pump stops by external contact signal. Pump operates when stop signal input is released. This function enables pump ON/OFF control. This is convenient function when used in combination with level sensor.

- It is possible to operate pump while STOP signal comes in (Change over with keys). In this case, when pump is operated in EXT mode, pump operates synchronous with EXT signal input while STOP signal is coming in.



Level sensor watches water level in tank, and stops pump when water level comes to lower limit.

Advanced type

EHN-YN series

- The features of both the EHN-Y and the FCM flow checker are integrated into the EHN-YN.
- Auxiliary functions including keypad lock and priming operation (max operation with the up and down keys depressed) are provided to support users.
- The FCM flow checker is optionally available.
- The pump gives an alarm and starts running at full speed(360spm), removing entrained air or clogging, when the FCM does not detect a suction line flow. Operation at a set speed or programmed behaviour will be restored after the problems are removed.
- The following three behavioural patterns are available.
PA mode/PA+AL mode/PA+AL+RE mode
- Monitoring/alarming a suction-line flow ensures safer pump operation.



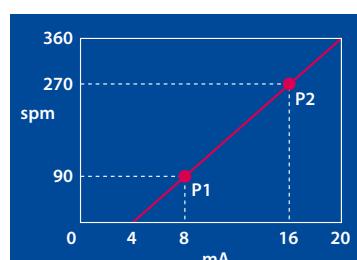
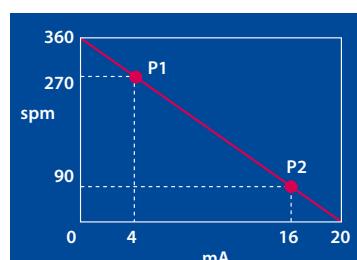
Controller function

Manual operation

Pump run/stop and stroke rate setting (1 to 360 spm) can be done by keys.
Stroke rate can be set either when pump is running or stopped.

Analogue input operation

Proportional control of spm by programming 2 points between 0-20mA.



EXT operation

Multiply (1 : n)

Pump makes multiply operation by external pulse signal. Pump makes "n" times shots against one pulse signal input. "n" can be set from 1 to 999. Pulses which came while operation are put in memory up to 65535 shots.

Dividing (n : 1)

Pump makes dividing operation by external pulse signal. Pump makes one shot against "n" times pulse input. "n" can be set from 1 to 999.

- If "n" is set at 1, pump makes synchronous operation. If pump is connected to optionally available EH controller, please use this function.

STOP function

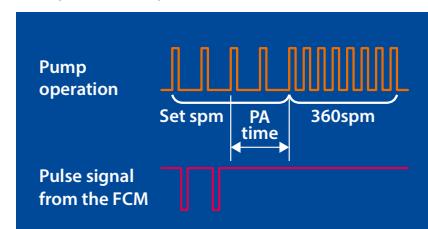
Pump stops by external contact signal. Pump operates when stop signal input is released. This function enables pump ON/OFF control. This is convenient function when used in combination with level sensor.

- It is possible to operate pump while STOP signal comes in (Change over with keys). In this case, when pump is operated in EXT mode, pump operates synchronous with EXT signal input while STOP signal is coming in.

Auto restoration

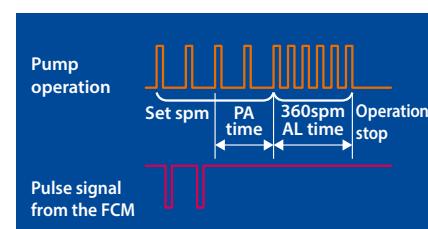
PA mode

When the FCM does not detect a suction-line flow for the PA time, the pump starts to run at full speed (360spm).



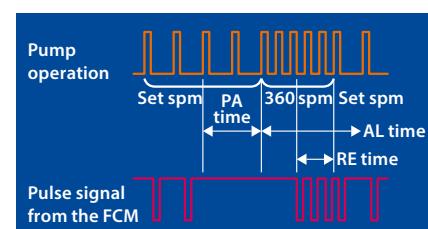
PA+AL mode

When the FCM does not detect a suction-line flow for the PA time, the pump starts to run at full speed (360spm) for the AL time and stops afterward.



PA+AL+RE mode

When the pump starts to run at full speed (360spm) for the AL time and the FCM keeps detecting a suction-line flow over the RE time, operation at a set speed or programmed behaviour will be restored.



The pump can be specialized for the need of a special chemical transfer.

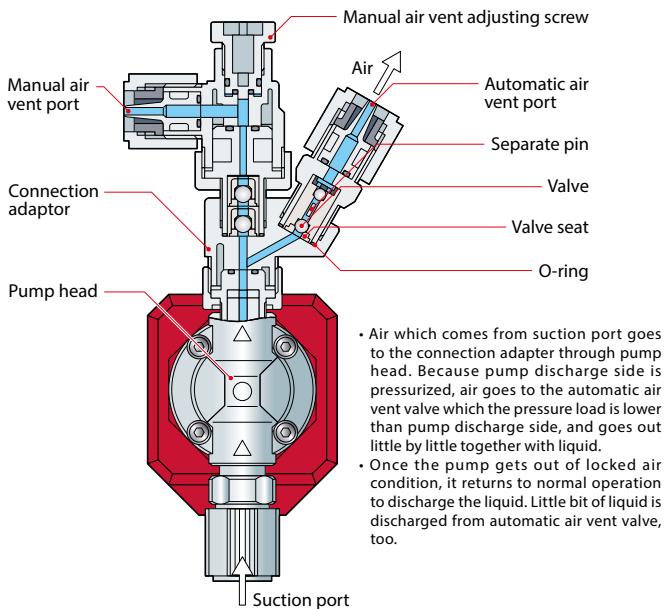
The optimum for gaseous liquid feeding

Automatic air vent type EHN-NAE

This type equips automatic air vent mechanism. An air vent valve built-in pump chamber enables reliable air venting. Also equipped manual air vent valve enables easy pressure release in discharge piping. Gaseous liquid such as sodium hypochlorite can be injected without gas locking.



Principle of operation



Wet-end material

Material code	VC	VC-S6	VC-HC	VH
Pump head			PVC	
Connection adaptor			PVC	
Separate pin	Titanium	SUS316	Hastelloy C276	
Valve		Alumina ceramic		Hastelloy C276
Valve seat		FKM		EPDM
O-ring		FKM		EPDM

Note: Automatic air vent valve is zirconia ceramic.

• VH type is a C16 type only.

Specification

Model	EHN-B11-NAE	EHN-B16-NAE	EHN-C16-NAE	EHN-C21-NAE
Max. discharge capacity	mL/min	30	55	65
Discharge capacity per shot	mL/shot	0.04 - 0.08	0.08 - 0.15	0.07 - 0.18
Max. discharge pressure	MPa	1.0	0.7	1.0
Stroke length adjustable range	%	50 - 100		40 - 100
Stroke rate	spm		1 - 360	
Connection (Hose dia.)		Ø4xØ9, Ø4xØ6		
Power voltage		100 - 240VAC 50/60Hz single phase		
Accessory		Check valve CAN-1, PVC braided hose 3m		

Operating condition : Liquid temperature 0 - 40°C. Ambient temperature 0 - 40°C
 • Max. discharge capacity represents the figure when pumping clear water at ambient temperature at max. discharge pressure. Pump discharges more liquid than shown above if it runs at lower discharge pressure. If discharge pressure is 0.12MPa or lower, be sure to use check valve to avoid over-feeding.

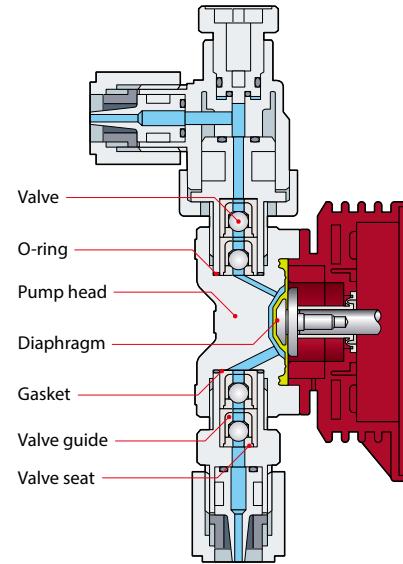
The optimum for sodium hypochlorite feeding

High compression head type EHN-55

Increased compression ratio due to minimized dead volume in pump chamber.



Construction



Wet-end material

Material code	VC
Pump head	PVC
Valve	Alumina ceramic
Valve seat	FKM
Valve guide	PVC
Gasket	PTFE
O-ring	FKM
Diaphragm	PTFE coated EPDM

Specification

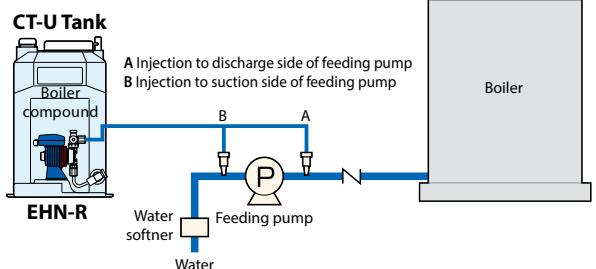
Model	EHN-B11VC-55	EHN-B21VC-55
Max. discharge capacity	mL/min	38
Discharge capacity per shot	mL/shot	0.05 - 0.11
Max. discharge pressure	MPa	1.0
Stroke length adjustable range	%	50 - 100
Stroke rate	spm	1 - 360
Connection (Hose dia.)		Ø4xØ9, Ø4xØ6
Power voltage		100 - 240VAC 50/60Hz single phase
Accessory		Check valve CAN-1, PVC braided hose 3m

Operating condition : Liquid temperature 0 - 40°C. Ambient temperature 0 - 40°C
 • Max. discharge capacity represents the figure when pumping clear water at ambient temperature at max. discharge pressure. Pump discharges more liquid than shown above if it runs at lower discharge pressure. If discharge pressure is 0.12MPa or lower, be sure to use check valve to avoid over-feeding.

The EHN series meets the needs of various chemical feeding in water treatment fields.

Injection of boiler compound into through flow boiler

Because the pump can inject very small capacity, pure boiler compound can be injected without diluting.

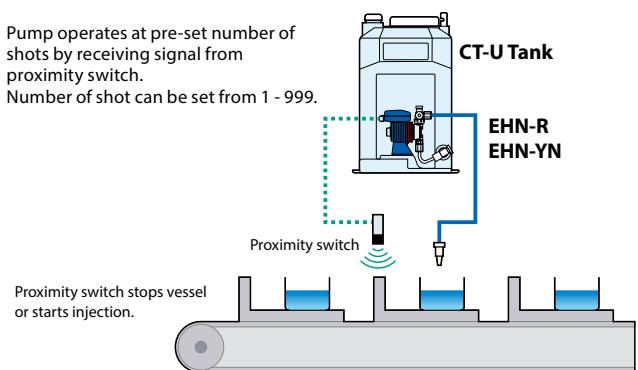


EHN-R

EHN-R | EHN-YN

Metering dose

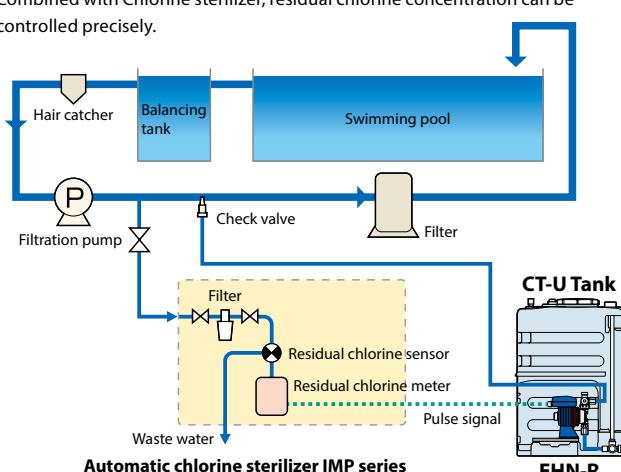
Pump operates at pre-set number of shots by receiving signal from proximity switch.
Number of shot can be set from 1 - 999.

CT-U Tank
EHN-R
EHN-YN

Sterilizing of swimming pool water (Residual chlorine concentration control)

Continuous injection of sodium hypochlorite.

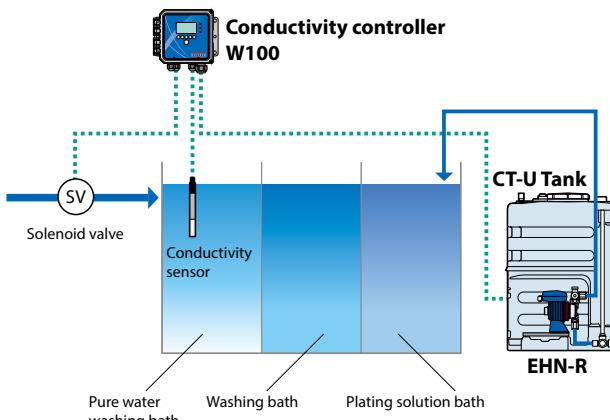
Combined with Chlorine sterilizer, residual chlorine concentration can be controlled precisely.



EHN-R

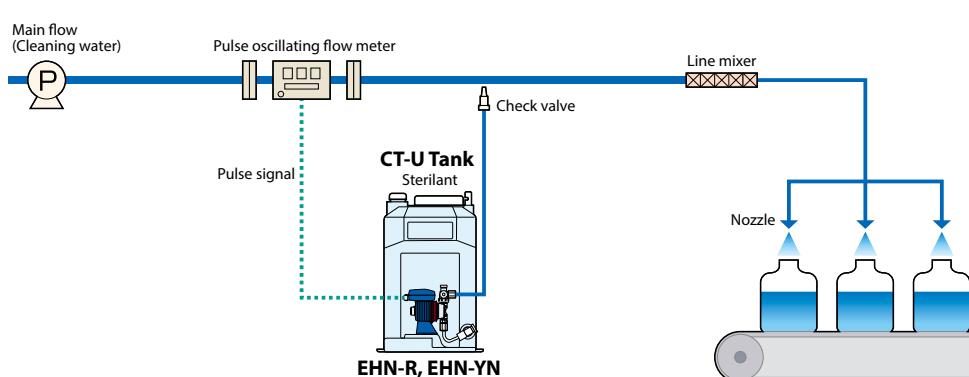
EHN-R

Electroless plating system (Planting solution supply/Conductivity control of cleaning water)

Conductivity controller
W100CT-U Tank
EHN-R

Sterilizing of distilled water (Proportional mixing of cleaning water and sterilizing agent)

Pump injects sterilizing agent in proportion to the flow rate of cleaning water by the signal from pulse oscillating flow meter.
Same mixing concentration can be kept regardless of the change of leaning water flow rate.



EHN-R | EHN-YN

Degassing joint

Mount at the pump inlet in order to prevent gas lock by degassing the gas bubbles generated in the suction line. (e.g. sodium hypochlorite application)



Model	Connection		Material		Applicable pump
	Joint inlet	Gas vent	Body	O-ring	
DG-VC	Ø4xØ6	Ø8xØ13		FKM	B11, 16, 21
DG-VH	Ø4xØ9	Ø9xØ12	PVC	EPDM	C16, 21

Hose flange

The hose flange is the adapter for connecting hose to flange. Hose flange with the check valve is also available.



Model	Connection		Material			Applicable pump	Wet end material code
	Hose	Flange	Body	O-ring	Check valve model		
15FCAN-1VC-M	Ø4xØ9	JIS10K 15AFF	PVC	FKM	CAN-1VC	B11, 16, 21	VC
15FCAN-1VE-M	Ø4xØ6			EPDM	CAN-1VE	C16, 21	VH
15FCAN-2VC-M	Ø8xØ13			FKM	CAN-2VC	VC	VC
15FCAN-2VE-M	Ø9xØ12			EPDM	CAN-2VE	VH	VH
15FVNxMS	Ø4xØ9			FKM	-	B11, 16, 21	VC
15FENxMS	Ø4xØ6			EPDM		C16, 21	VH
15FVNxML	Ø8xØ13			FKM		B31	VC
15FENxML	Ø9xØ12			EPDM		C31, 36	VH
20FCAN-1VC-M	Ø4xØ9	JIS10K 20AFF	PVC	FKM	CAN-1VC	B11, 16, 21	VC
20FCAN-1VE-M	Ø4xØ6			EPDM	CAN-1VE	C16, 21	VH
20FCAN-2VC-M	Ø8xØ13			FKM	CAN-2VC	VC	VC
20FCAN-2VE-M	Ø9xØ12			EPDM	CAN-2VE	VH	VH
20FVNxMS	Ø4xØ9			FKM	-	B11, 16, 21	VC
20FENxMS	Ø4xØ6			EPDM		C16, 21	VH
20FVNxML	Ø8xØ13			FKM		B31	VC
20FENxML	Ø9xØ12			EPDM		C31, 36	VH
25FVNxMS	Ø4xØ9	JIS10K 25AFF	PVC	FKM	-	B11, 16, 21	VC
25FENxMS	Ø4xØ6			EPDM		C16, 21	VH
25FVNxML	Ø8xØ13			FKM		B31	VC
25FENxML	Ø9xØ12			EPDM		C31, 36	VH

Reducing joint

Use the reducing joint to a connection between different bore hoses.



Model	Connection		Material		Applicable pump	Wet end material code	
	IN	OUT	Body	O-ring			
HJVN-1/2	Ø4xØ9	PVC	FKM	Ø4xØ6	B11, 16, 21 / C16, 21	VC	
HJVN-1/18	Ø6xØ11			Ø6xØ8			
HJVN-2/3	Ø4xØ6			Ø6xØ8	B31 / C16, 21		
HJVN-4/5	Ø8xØ13			Ø9xØ12	B11, 16, 21 / C16, 21	VH	
HJEN-1/2	Ø4xØ9	EPDM	EPDM	Ø4xØ6	B11, 16, 21 / C16, 21		
HJEN-1/18	Ø6xØ11			Ø6xØ8			
HJEN-2/3	Ø4xØ6			Ø6xØ8			
HJEN-4/5	Ø8xØ13			Ø9xØ12	B31 / C16, 21		

Same bore hoses are available as option.

A mount dedicated for the EHN Series

This dedicated mount elevates the pump to connect to the suction piping, when said piping is too high.

Model	Material	Application	Height	Note
EHN-B-M	PVC	For replacing an existing pipe	12mm	EHN-B type only
	SUS304		70mm	
EHN-C-M	PVC	SUS304	12mm	EHN-C type only
			70mm	
EHN-B/C-M	PVC	For installing a new pipe	12mm	EHN-B/C type shared
	SUS304		70mm	



Multifunction valve

The multifunction valve functions as a back pressure valve, air vent valve, and relieve valve. The set pressure of the back pressure valve is fixed.



Model	Connection		Material			Wet end material code
	Hose	Body	Diaphragm	O ring		
MFV-HTC	Ø4xØ6, Ø6xØ8, Ø9xØ12, Ø10xØ12, Ø1/4xØ3/8, Ø3/8xØ1/2, Ø6xØ12, Ø5xØ8	PVDF	PTFE+EPDM	FEPM	TC	
MFV-MTC						
MFV-LTC						

Hose joint

The hose joint offers a secure connection between hose and pipe.



Thread connection

Model	Connection		Material		Applicable pump	Wet end material code
	Hose	Thread	Body	O-ring		
V4VN-3/8-M	Ø4xØ9 Ø4xØ6	R3/8	PVC	FKM	B11, 16, 21 C16, 21	VC
V4EN-3/8-M				EPDM		VH
V4VN-1/2-M		R1/2		FKM		VC
V4EN-1/2-M		R1/2		EPDM		VH
V8VN-3/8-M	Ø8xØ13 Ø9xØ12	R3/8	PVC	FKM	B31 C31, 36	VC
V8EN-3/8-M				EPDM		VH
V8VN-1/2-M		R1/2		FKM		VC
V8EN-1/2-M		R1/2		EPDM		VH

VP plumbing connection

Model	Connection		Material		Applicable pump	Wet end material code	
	Hose	VP plumbing	Body	O-ring			
V4VN-13-M	Ø4xØ9 Ø4xØ6	VP13	PVC	FKM	B11, 16, 21 C16, 21	VC	
V4EN-13-M				EPDM		VH	
V4VN-16-M		VP16		FKM		VC	
V4EN-16-M				EPDM		VH	
V4VN-20-M	Ø8xØ13 Ø9xØ12	VP20	PVC	FKM	B31 C31, 36	VC	
V4EN-20-M				EPDM		VH	
V8VN-13-M		VP13		FKM		VC	
V8EN-13-M				EPDM		VH	
V8VN-16-M	Ø8xØ13 Ø9xØ12	VP16		FKM	B31 C31, 36	VC	
V8EN-16-M				EPDM		VH	
V8VN-20-M		VP20		FKM		VC	
V8EN-20-M				EPDM		VH	

Mesh size is 150 mesh.

Strainer with a foot valve

Mount the strainer at the end of suction hose. The strainer with a foot valve prevents backflow and foreign matter interfusion. Inlet bore can be selected according to hose bore.



Model	Connection		Material			Applicable pump	Wet end material code
	Hose	Strainer	Body	O-ring	Valve ball		
FSVN-1	Ø4xØ9	Aflon	PVC	FKM	Alumina ceramic	B11, 16, 21 C16, 21	VC
FSVN-2	Ø4xØ6						
FSVN-3	Ø6xØ8						
FSVN-4	Ø8xØ13					B31 C31, 36	VH
FSVN-5	Ø9xØ12						
FSEN-1	Ø4xØ9	GFRPP	EPDM	Hastelloy C276	Alumina ceramic	B11, 16, 21 C16, 21	PH
FSEN-2	Ø4xØ6						
FSEN-3	Ø6xØ8						
FSEN-4	Ø8xØ13						
FSEN-5	Ø9xØ12						
FSPVN-1	Ø4xØ9	FKM	Alumina ceramic	B11, 16, 21 C16, 21	B31 C31, 36	PC	
FSPVN-2	Ø4xØ6						
FSPVN-3	Ø6xØ8						
FSPVN-4	Ø8xØ13						
FSPVN-5	Ø9xØ12						

Mesh size is 20 mesh.

Technical data

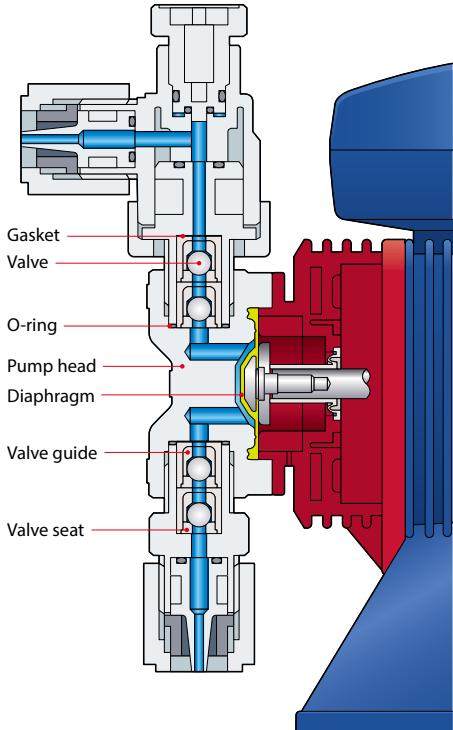
Construction and materials (VC/VH/PC/PH/PP)

Material symbol	VC	VH	PC	PH	PP
Pump head	PVC				GFRPP
Valve	Alumina ceramic	Hastelloy C276	Alumina ceramic	Hastelloy C276	Alumina ceramic
Valve seat	FKM	EPDM	FKM	EPDM	PCTFE
Valve guide	PVC		GFRPP		
Gasket	PTFE				
O-ring	FKM	EPDM	FKM	EPDM	FKM
Diaphragm	PTFE+EPDM (EPDM of diaphragm is not wet-end.)				

Construction and materials (FC/SU)

Material symbol	FC	SU
Pump head	PVDF	SUS316
Valve	Alumina ceramic	Hastelloy C276
Valve seat	PCTFE	SUS316
Valve guide	PVDF	SUS316
Gasket	PTFE	
O-ring	—	
Diaphragm	PTFE+EPDM (EPDM of diaphragm is not wet-end.)	

PVC: Transparent polyvinyl chloride
 GFRPP: Glass fiber reinforced polypropylene
 FKM: Fluor rubber
 EPDM : Ethylene propylene rubber
 PCTFE: Polychlorotrifluoroethylene
 PTFE : Polytetrafluoroethylene
 PVDF: Poly vinylidene fluoride



Pump identification (VC/VH/PC/PH/PP)

EHN - B 11 VC M K R - NAE

1 Series name
HN series

2 Drive unit code
(Average power consumption)
B : 20W
C : 24W

3 Diaphragm effective diameter
11 : 10mm
16 : 15mm
21 : 20mm
31 : 30mm
36 : 35mm

4 Wet-end material code
VC, VH, PC, PH, PP

5 Connection
M : Multi tube connection

Connection hose dia. (in mm)
 $\varnothing 4 \times \varnothing 9, \varnothing 4 \times \varnothing 6$ (11/16/21)
 $\varnothing 8 \times \varnothing 13, \varnothing 9 \times \varnothing 12$ (31/36)
 PVC braided hose (Standard)
 • Teflon or polyethylene hose
 (Special specification)

6 Air vent
Blank : Provided
K : Not provided
 • 31/36 (VC/VH)R only

7 Controller
R : Standard
YN : Digital/Analogue correspondence

8 Special configuration
NAE : Automatic air vent
55 : High compression pump head, etc.

Pump identification (FC/SU)

EHN - B 11 FC 2 R

1 Series name
HN series

2 Drive unit code
(Average power consumption)
B : 20W
C : 24W

3 Diaphragm effective diameter
11 : 10mm
21 : 20mm
31 : 30mm
36 : 35mm

4 Wet-end material code
FC
SU

5 Connection hose dia. (in mm)
 Pump type
FC 2 : $\varnothing 4 \times \varnothing 6$ **6** : $\varnothing 10 \times \varnothing 12$
SH 9 : Rc 1/4

6 Controller
R : Standard
YN : Digital/Analogue correspondence

Specifications of pump

(VC/VH/PC/PH/PP)

Model	EHN-B11	EHN-B16	EHN-B21	EHN-B31	EHN-C16	EHN-C21	EHN-C31	EHN-C36	
Max. discharge capacity	mL/min	38	65	100	230	80	130	270	450
	mL/shot	0.05 - 0.11	0.09 - 0.18	0.14 - 0.28	0.32 - 0.64	0.09 - 0.22	0.14 - 0.36	0.30 - 0.75	0.50 - 1.25
Max. discharge pressure	MPa	1.0	0.70	0.40	0.20	1.0	0.70	0.35	0.20
Stroke rate	spm				1 - 360				
Stroke length			50 - 100% (0.5 - 1.0mm)			40 - 100% (0.5 - 1.25mm)			
Connection (Hose dia.)	mm		Ø4×Ø9, Ø4×Ø6		Ø8×Ø13, Ø9×Ø12	Ø4×Ø9, Ø4×Ø6		Ø8×Ø13, Ø9×Ø12	
Power voltage				100 - 240VAC 50/60Hz single phase					
Air vent		Provided		Provided/Not Provided		Provided		Provided/Not Provided	
Accessory	Check valve	CAN-1		CAN-2-L		CAN-1		CAN-2-L	
	Braided hose			Ø4×Ø9 or Ø8×Ø13, made in PVC / 3m					

• 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 with stroke length 100%.

• 0.12MPa or more discharge pressure is needed to prevent over feeding (0.05MPa or more for the EHN-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 is 0 to 60 °C(0 to 40 °C for VC/VH)

Ambient temperature range is 0 to 40 °C

(FC/SH)

Model	EHN-B11	EHN-B21	EHN-C21	EHN-C31	EHN-C36	
Max. discharge capacity	mL/min	38	100	130	270	410
	mL/shot	0.05 - 0.11	0.14 - 0.28	0.14 - 0.36	0.30 - 0.75	0.46 - 1.14
Max. discharge pressure	MPa	1.0	0.40	0.70	0.35	0.20
Stroke rate	spm		1 - 360			
Stroke length		50 - 100% (0.5 - 1.0mm)		40 - 100% (0.5 - 1.25mm)		
Connection (FC) mm		Ø4×Ø6			Ø10×Ø12	
(SH) inch			Rc 1/4			
Power voltage		100 - 240VAC 50/60Hz single phase				
Air vent valve			SH: Standard accessories, FC: Not included			
Accessory		FC: BVC (Back pressure valve), SH: CS-1S (Check valve)				

• 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 with stroke length 100%.

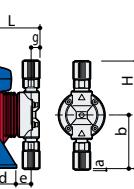
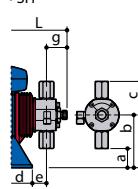
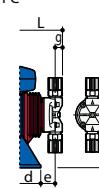
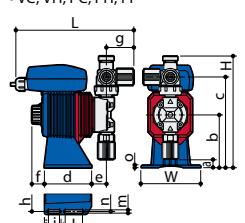
Operating condition: Liquid temperature range is 0 to 60 °C (on condition that liquid quality is not changed by freezing, viscosity change, or slurry interfusion).

Specifications of controller

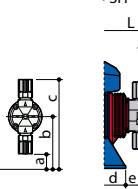
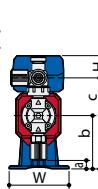
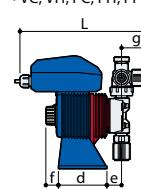
Model	EHN-R		EHN-YN					
Operation mode	Manual EXT (Pulse multiply or dividing)		Manual EXT (MULT/DIV/ANA)					
Control function	Setting	<ul style="list-style-type: none"> • Manual stroke rate 1 - 360spm • External • Digital input operation Multiply 1:n n=1 - 999 Dividing n:1 n=1 - 999 		<ul style="list-style-type: none"> • Manual stroke rate 1 - 360spm • External • Digital input operation Multiply 1:n n=1 - 999 Dividing n:1 n=1 - 999 • Analogue input Input single 0 - 20mA: Two points setting • Alarm setting(When using FCM) 				
		3 operating keys						
Stop		The pump stops while receiving the stop signal (Make off/Make on can be selected by changing controller setting)						
Display	4-digit LCD, Operating condition or set value or so							
Input	Pulse	No voltage contact, Open collector						
	Stop	No voltage contact, Open collector						
Alarm output	Analogue	–						
	FCM	0 - 20mA Open collector						
Sensor Power voltage	No voltage contact							
Power voltage	12VDC at 20mA 100 - 240VAC 50/60Hz single phase							

Dimensions (mm)**EHN-B□MR**

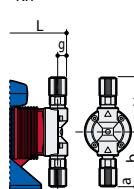
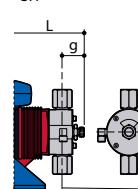
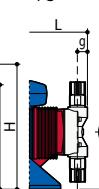
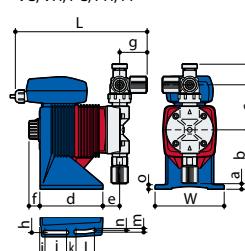
• VC, VH, PC, PH, PP

**EHN-B□MYN, EHN-B□MYT**

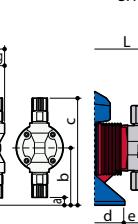
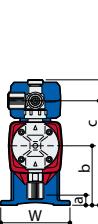
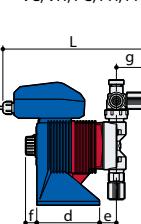
• VC, VH, PC, PH, PP

**EHN-C□MR, EHN-C□KR**

• VC, VH, PC, PH, PP

**EHN-C□MYN, EHN-C□MYT**

• VC, VH, PC, PH, PP

**EHN-R (VC, VH, PC, PH)**

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)	h	i	j	k	l	m	n	o
EHN-B11, 16, 21	100	189	202	14	90	154	81.5	25	21	47	88	7	16	10	32	6.2	-	5
EHN-B31		201	204	-		166		27										
EHN-C16, 21	116	199	220	25 ^{Note1}	100	164	105	27	18	47	100	8	37	15	30	7	95	8
EHN-C31, 36		211 ^{Note2}	222	9 ^{Note3}		176 ^{Note4}		29										

Note1: PC, PH type is 24mm. Note2: EHN-C36 (PC, PH type) is 210mm. Note3: EHN-C36 (PC, PH type) is 10mm. Note4: EHN-C36 (PC, PH type) is 175mm.

EHN-KR (VC, VH)

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)	h	i	j	k	l	m	n	o	
EHN-B31	100	181	173	1	90		81.5	27	21		88	7	16	10	32	6.2	-	5	
EHN-C31			192		9	100		-	105	29	16	100	8	37	15	30	7	95	8
EHN-C36	116	191			191				18										

EHN-R (PP)

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)	h	i	j	k	l	m	n	o
EHN-B11, 16	100	190	202	14	90	155	81.5	25	21	47	88	7	16	10	32	6.2	-	5
EHN-B31		202	203	2		167		27										
EHN-C21	116	200	220	24		165		27										
EHN-C31		212	222	8	100	177	105	27	18	47	100	8	37	15	30	7	95	8
EHN-C36		211		9		176		29										

EHN-R

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	174	167	27	90	153	81.5	25	21	12
EHN-C21			185.5	37		163		27		12
EHN-C31	116	189	191.5	18.5	100	181.5	105	29	18	16
EHN-C36			191					28.5		

EHN-YN, EHN-YT (VC, VH, PC, PH)

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 16, 21	100	191	218	14	90	154	81.5	25	21	47
EHN-B31		201	220	1		166		27		
EHN-C16, 21	116	199	220	25 ^{Note1}	100	164	105	27	18	47
EHN-C31, 36		211 ^{Note2}	239 ^{Note3}	9 ^{Note4}		176 ^{Note5}		29		

Note1: PC, PH type is 24mm. Note2: EHN-C36 (PC, PH type) is 210mm. Note3: EHN-C36 is 238mm.

Note4: EHN-C36 (PC, PH type) is 10mm. Note5: EHN-C36 (PC, PH type) is 175mm.

EHN-YN, EHN-YT (FC)

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	191	183.5	27	90	153	81.5	25	21	12
EHN-C21			202	37		163		27		12
EHN-C31	116	206.5	208	18.5	100	181.5	105	29	18	16
EHN-C36			207.5					28.5		

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 16	100	190	218	14	90	155	81.5	25	21	47
EHN-B31		202	203	2		167		27		
EHN-C21	116	200	220	24		165		27		
EHN-C31		212	222	8	100	177	105	27	18	47
EHN-C36	211		9			176		29		

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	191	184.5	34	90	146	81.5	24	21	34
EHN-C21			225.5	44		156		26		36.5
EHN-C31	116	206.5	208	34	100	166	105	28	18	34.5
EHN-C36			225	31		169		29		34

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	191	204.5	34	90	146	81.5	24	21	34
EHN-C21			225.5	44		156		26		36.5
EHN-C31	116	206.5	208	34	100	166	105	28	18	34.5
EHN-C36			225	31		169		29		34

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	191	204.5	34	90	146	81.5	24	21	34
EHN-C21			225.5	44		156		26		36.5
EHN-C31	116	206.5	208	34	100	166	105	28	18	34.5
EHN-C36			225	31		169		29		34

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	191	204.5	34	90	146	81.5	24	21	34
EHN-C21			225.5	44		156		26		36.5
EHN-C31	116	206.5	208	34	100	166	105	28	18	34.5
EHN-C36			225	31		169		29		34

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)
EHN-B11, 21	100	191	204.5	34	90	146	81.5	24	21	34
EHN-C21			225.5	44		156		26		36.5
EHN-C31	116	206.5	208	34	100	166	105	28	18	34.5
EHN-C36			225	31		169		29		34

Model	W	(H)	(L)	(a)	b	(c)	d	(e)	(f)	(g)

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