Chemical Injection Pump



EHE Series Metering Pump

The EHE is the workhorse of the E-Series metering pumps. Combining the EHE performance with a turndown ratio of 1800:1 yields one of the most versatile pumps in the water treatment industry today.

EHE Series pumps have outputs up to 20 GPH (75 I/h) and pressure capabilities to 150 PSI (10 bar). Superior mechanical design and quality manufacturing merge to create a pump better than the sum of its parts. The versatile control features enable the EHE to be integrated into virtually any chemical feed application. The 360 stroke-per-minute operation results in high resolution chemical feed and long service life. EHE pumps prime in seconds and hold prime reliably.

KEY BENEFITS

High Speed Performance

E-Series pumps operate at 360 strokes-per-minute, providing high resolution chemical feed.

Engineered Longevity

All E-Series pumps feature dual bearing support. The armature & shaft are supported with a bearing on each end for proper movement and even wear.

Superior Check Valve Performance Dual Check Valve Assemblies in both suction and discharge fittings feature precision ball guides and tapered seats.

High Compression Ratio

All E-Series pumps feature a very high compression ratio that ensures proper feed especially with off-gassing products (i.e. Sodium Hypochlorite).



IWAKI America Inc.

SPECIFICATIONS



POWERFUL

A pump's maximum pressure rating times its maximum output at that pressure gives a relative measure of the pump's hydraulic output power, a "power index." The EHE36, with an output of 8.5 GPH at 105 PSI, yields a power index of 892.5. No other electronic metering pump in this range even comes close!

EFFICIENT

The EHE series does its work extremely well. Hydraulic output is maximized by its economical use of electricity via excellent heat rejection, valves that positively and consistently seat and unique front-and-back support of the armature.

DURABLE

Superior magnetic, electronic, thermal and hydraulic designs have been achieved in the EHE metering pump. The result is a pump that will perform longer at maximum duty than any other comparable pump.

MICROPROCESSOR-BASED CONTROL CIRCUITRY

Allows operator adjustment of pump speed and external input settings via 4-button keypad.

Often used in flow proportional systems, such as with a flowmeter contactor. One input pulse can produce 1 to 999 pump strokes.

Pump can be set to divide (accumulate) pulses by a factor of 1 to 999.

Programmable 4-20mA input allows for user defined speed control band; user sets minimum and maximum pump speeds.











DIMENSIONS

ELECTRICAL SPECIFICATIONS

50/60 Hz, single phase 115 VAC ±10% 230 VAC ±10%

48 Watt Avg 1.8 Amp Max. 0.8 Amp Max.

SHIPPING WEIGHT

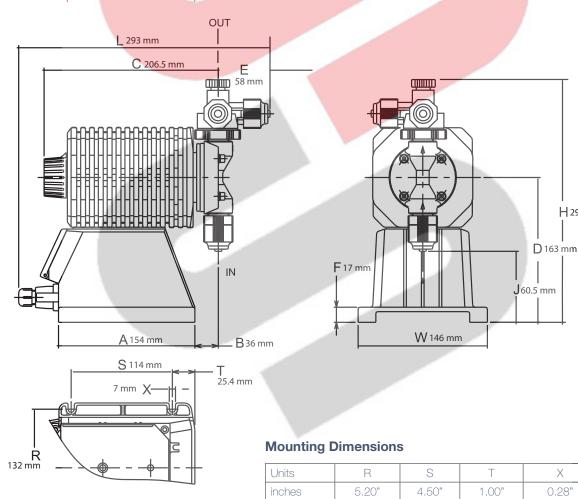
23 lbs. (10.5 kg approximate)

OPERATING CONDITIONS

Ambient Temperature:	32 to 122°F (0 to 50°C)
Relative Humidity:	30% to 90% non-condensing
Liquid Temperature:	32 to 104°F (0 to 40°C) for PVC based Liquid Ends
	32 to 140°F (0 to 60°C) for PP or PVDF based Liquid Ends

Pumps should always be shielded from direct exposure to the elements.

DIMENSIONS (EHE56 referenced)



SAFETY CERTIFICATIONS

The EHE series metering pumps* are WQA tested and certified to NSF/ANSI/CAN Standard 61. *See WWW.WQA.ORG for certified chemicals, parameters and MUL levels. NSF/ANSI/CAN 61 addresses health effects only. It does not address disinfection efficacy of the product.

The EHE metering pumps are tested by Intertek to UL and CSA standards.





H 297.5 mm

Units	R	S	Т	Х
inches	5.20"	4.50"	1.00"	0.28"
mm	132	114	25.4	7

Units	А	В	С	D	E	F	Н	J	L	W
inches	6.06	1.42	8.13	6.42	2.28	0.67	11.71	2.38	11.54	5.75
mm	154	36	206.5	163	58	17	297.5	60.5	293	146

SPECIFICATIONS

EH	E36	Ε	1 -	PC	V
Pum Serie	Capacity/ Pressure		Voltage	Liquid End	Options

PUMP SERIES

EH = Microprocessor control for all EHE models. Features manual speed control from 1 to 360 spm in 1 spm increments. External control from pulse signal with internal multiply and divide or from analog 4-20 mA signal.

CAPACITY/PRESSURE RATING

See chart on this page

CONTROL MODULE

E = For use on all EHE models, features external pulse capability. (pulse divide, pulse multiply, analog)

VOLTAGE

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1 = 115VAC, 50/60 Hz
2 = 230VAC, 50/60 Hz
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LIQUID END

See chart on this page

OPTIONS

Blank = 1/2" O.D. tube connection and standard accessories. (HV is 1/2" O.D. discharge x 1/2" I.D. suction)

- V = Standard 1/2" tube connections with back pressure/anti-syphon valve added. (Not available on FC models)
- T = 3/4" NPT (male) pipe thread connection. (1/2" MNPT on HV pumps). No MAVV.
- P = 3/4" NPT (male) connection (1/2" MNPT on HV pumps) with back pressure/anti-syphon valve. (No MAVV.

Note: NPT piping connection material of construction will be the same as the liquid end.

All pumps include a manual air vent valve with the exception of FC/HV liquid ends and options P and T.

All pumps include one foot valve, one injection valve, 20 feet of polyethylene tubing and one ceramic weight with the exception of HV models (tubing only) and options P and T.

CAPACITY/PRESSURE RATING

		Max Output Capacity Size GPH mL/min		Max output per stroke	Max P	ressure	Power Index
	Size			mL	PSI	MPa	GPH x PSI
	E31	5.5	340	0 0.94 150		1.0	825.0
	E36	8.5	520	1.44	105	0.7	892.5
	E46	12.0	750	2.08	60 0.4 30 0.2 73 0.5		720.0
	E56	20.0	1250	3.47			600.0
1	E36-HV	5.2	329	1.37			292.0
	E46-HV	8.0	499	2.08	60	0.4	480.0

LIQUID END MATERIALS

	Liquid End	Pump Head & Fittings	Diaphragm	Valve Balls	Valve Seat	Valve Seals	Gasket	Tubing
9	HV	GFRPP		SS/HC	PCTFE	FKM		
	FC	PVDF		CE	PCTFE	PTFE		
	PC	GFRPP		CE	FKM	FKM		
	PE	GFRPP	PTFE	CE	EPDM	EPDM	PTFE	PE
	VC	PVC	(bonded to EPDM)	CE	FKM	FKM		PE
	VE	PVC		CE	EPDM	EPDM		
	VF	PVC		PTFE	EPDM	EPDM		
	VM*	M-PVC		CE	FKM	FKM		

EPDM

GFRPP

PTFE

PVC

HC

* Note: VM liquid end available on E56 only

CE	Alumina ceramic
FKM	Fluoroelastomer
PE	Polyethylene
PCTFE	Polychlorotrifluoroethylene
PVDF	Polyvinylidenefluoride

Ethylene propylene diene monomer Glass fiber reinforced polypropylene Polytetrafluoroethylene Polyvinylchloride (translucent) Hastelloy C276

ABOUT US

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market. Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: www.walchem.com