










## 3-1. Tube Pumps / Hose Pumps ETK Series

ELEPON E.C.A.P. Corporation, as a specialist in manufacturing of Chemical Pumps, has been paying greatest efforts to create the revolutionary pumps.

And now we have accumulated our knowledge of widely applicable to the tube pumps. As the result, our tube pumps are all to we for manu kind of chemical biguids with high viscosity and high pressure.

Our tube pumps are getting popularity in the fields of the chemistry, food, the engineering works construction, and wastemater treatment, etc.

			
<b>ETK-12</b>	<b>ETK-25-1</b>	<b>ETK-85</b>	<b>ETK-S Series</b>
			
<b>ETK-V Series</b>	<b>ETK-MH Series</b>	<b>ETW Series</b>	<b>With CARRIER</b>
			
<b>TUBE LIFE ALARM UNIT</b>	<b>With a TUBE DAMAGE DETECTOR</b>		

### APPLICATIONS

- Chemicals : Acid liquid, Alkali liquid, Abrasive liquid, Paint, Milk of slaked lime and others.
- Foodstuffs (ETK-S series only) : Seaweeds, Chopped Vegetables, Pickles, Juice and others.
- Engineering works construction : Freshly mixed concrete, Motor, Bentonite slurry and others.
- Waste Water Treatment : Activated carbon powder in the water, Milk of slaked line, Waste water treatment sludge and others.

### FEATURES

- **SEAL-LESS MECHANISM WITH SIMPLE STRUCTURE**  
There is no problem about leakage because the pump part is of simple structure with no valres and no seals.
- **EXCELLENT SELF-PRIMING PERFORMANCE**  
This pump has powerful suction of 760mmHg.
- **HIGH DISCHARGE PRESSURE**  
ETK-C Series are provided with maximum discharge pressur of 2.5MPa by using the motor of a large output.
- **WIDE RANGE OF APPLICATIONS**
  - **HIGH VISCOSITY LIQUID**  
Maximum viscosity up to 50,000mPa · s is applicable.
  - **SOLID AND HIGH DENSITY SLURRY OR SLUDGE**  
1/4 particles of tube diameter can be transferred.
  - **THE LIQUID CONTAINING FIBER**  
Long fiber in liquid can be transferred with no trouble.
- **TRANSFER OF LIQUID INCLUDING AIR**  
No problems, even if the air is inhaled together with the liquid.
- **NO PROBLEM IN FORWARD ROTATION OR REVERSE ROTATION**
- **EASY MAINTENANCE**  
Let the pump suck a sponge which is double size of diameter of the tube from one of the ends of

the tube, and when it comes out of the other end, cleaning in the tube ends.  
It takes only 3minutes or so to exchange the tube to new one. And pump capacity will recover 100%.

## SPECIFICATIONS

### ● STANDARD TYPE (ETK Series)

MODEL	Standard Discharge Volume L/min (at0.1MPa)	Output of Standard Motor	Maximum Discharge Pressure (Mpa)	Maximum Suction Pressure kPa (mmHg)	Inner Diameter Of TheTube (mm)	Joint Part Size
ETK - 12	1.82(34min <sup>-1</sup> )	90W Indoor	0.7	-99 (740)	φ 12	R1/4
		0.1kW Outdoor				
ETK - 19	3.94(36min <sup>-1</sup> )	0.2kW	0.9	-99 (740)	φ 19	R3/4
ETK - 25- 1	8.0(36min <sup>-1</sup> )	0.4kW	0.9	-100 (750)	φ 25	φ 38 Hose
ETK - 25- 2	10.0(36min <sup>-1</sup> )	0.4kW	0.6	-100 (750)	φ 25	φ 38 Hose
ETK - 32	22.6(35min <sup>-1</sup> )	1.5kW	1.0	-101(760)	φ 32	φ 38 Hose
ETK - 38	30.3(35min <sup>-1</sup> )	1.5kW	1.0	-101(760)	φ 38	φ 38 Hose
ETK - 42	42.6(35min <sup>-1</sup> )	2.2kW	1.0	-101(760)	φ 42	φ 50 Hose
ETK - 50	69.4(35min <sup>-1</sup> )	3.7kW	1.0	-101(760)	φ 50	φ 50 Hose
ETK - 65	115.8(31min <sup>-1</sup> )	3.7kW	0.7	-101(760)	φ 65	φ 65 Hose
ETK - 85	245(30min <sup>-1</sup> )	5.5kW	0.5	-101(760)	φ 85	φ 100 Hose
ETK - 100	420(30min <sup>-1</sup> )	7.5kW	0.5	-101(760)	φ 100	φ 100 Hose

### ● FOR FOOD TYPE (ETK-S Series)

MODEL	Standard Discharge Volume L/min (at0.1MPa)	Output of Standard Motor	Maximum Discharge Pressure (Mpa)	Maximum Suction Pressure kPa (mmHg)	Inner Diameter Of TheTube (mm)	Joint Part Size
ETK - 12S	1.82(34min <sup>-1</sup> )	90W Indoor	0.2	-99(740)	φ 12	R1/4
		0.1kW Outdoor				
ETK - 19S	3.94(36min <sup>-1</sup> )	0.2kW	0.2	-99(740)	φ 19	R3/4
ETK - 25 - 1S	8.0(36min <sup>-1</sup> )	0.4kW	0.2	-100(750)	φ 25	R1 or 1S Ferrule
ETK - 25 - 2S	10.0(36min <sup>-1</sup> )	0.4kW	0.2	-100(750)	φ 25	R1 or 1S Ferrule

● EASY CARRYING PACK TYPE (ETK-V Series)

MODEL	Standard Discharge Volume L/min (at0.1MPa)	Output of Standard Motor	Maximum Discharge Pressure (Mpa)	Maximum Suction Pressure kPa (mmHg)	Inner Diameter Of TheTube (mm)	Joint Part Size
ETK - 12V	0.6~3.5 (12~68min <sup>-1</sup> )	0.1kW	0.3	-99(740)	φ 12	φ 19 Hose
ETK - 19V	1.3~7.5 (12~72min <sup>-1</sup> )	0.2kW	0.3	-99(740)	φ 19	φ 25 Hose

● CONSTRUCTION MATERIALS TYPE (ETK-C Series)

MODEL	Standard Discharge Volume L/min (at0.1MPa)	Output of Standard Motor	Maximum Discharge Pressure (Mpa)	Maximum Suction Pressure kPa (mmHg)	Inner Diameter Of TheTube (mm)	Joint Part Size
ETK-25-2C	9.2(35min <sup>-1</sup> )	1.5kW	2.5	-101(760)	φ 25	R1 1/2
ETK-32C	21.4(35min <sup>-1</sup> )	2.2kW	2.5	-101(760)	φ 32	R1 1/2
ETK-38C	28.7(35min <sup>-1</sup> )	3.7kW	2.5	-101(760)	φ 38	R1 1/2
ETK-42C	40.4(35min <sup>-1</sup> )	5.5kW	2.5	-101(760)	φ 42	R2
ETK-50C	65.9(35min <sup>-1</sup> )	7.5kW	2.5	-101(760)	φ 50	R2
ETK-65C	110(30min <sup>-1</sup> )	11kW	2.5	-101(760)	φ 65	R2 1/2
ETK-85C	232.7(30min <sup>-1</sup> )	22kW	2.5	-101(760)	φ 85	R4
ETK-100C	399.4(30min <sup>-1</sup> )	30kW	2.5	-101(760)	φ 100	R4

\*Note

- Standard Discharge volumes described in the table above are for clean water at normal room temperature. Discharge volume varies depending mainly on the viscosity and density of the transferring fluid.
- The standard material of the tube of all types of our tube pumps, but ETK-S Series (For Food Type), is a specially Comporunded natural rubfer (NR).
- The tube of the ETK-S series for food is “TPE, Thermoplastic Elastomers”. NBR is available also.
- We also have ETK-MH Series which was the geared-motor.
- Standard specification of the motor of the tube-pump, Except ETC-C Series (the tube-pump for civil engineering and B construction industry), is three-phase, 200V, totally enclosed for-cooled indoor type.
- The specification of the motor of ETK-C Series is three phase, 200V, totally-enclosed fan-cooled outdoor type.
- Please inquire about different voltage and other special motors.

● Peristaltic Pump (ETW Series)

Extension of life-span of a tube

Downsized

Pressure setup is easy.

The direction of suction and discharge can be changed.

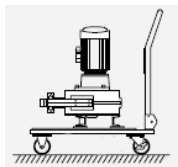


MODEL	Standard Discharge Volume L/min	Output of Standard Motor	Maximum Discharge Pressure (Mpa)	Maximum Suction Pressure kPa (mmHg)	Inner Diameter Of The Tube (mm)	Joint Part Size
ETW - 12	5	0.4	0.6	-99(740)	φ 12	JIS 10K 15A
ETW - 19	15	0.75	0.6	-99(740)	φ 19	JIS 10K 25A
ETW - 25	30	1.5	0.6	-99(740)	φ 25	JIS 10K 40A

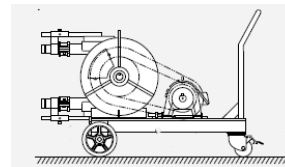
**OPTIONS (FOR ETK-Series)**

● With CARRIER

(Small Type)



(Big Type)



● TUBE LIFE ALARM UNIT

This unit outputs indication or a warning at the exchange time of the tube.

(TLA-TF Type)

(TLA-TP Type)



W150×D120×H100mm



W75×D130×H120mm

● With a TUBE DAMAGE DETECTOR



■ Reference

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