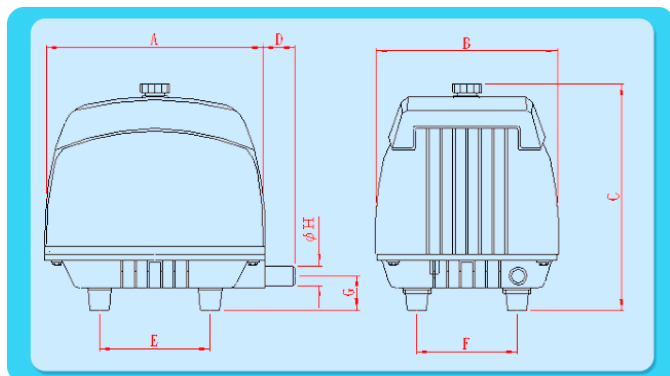


**Aluminum Casing, Perfect Performances, Low Noise, Low Energy Consumption, Suitable for Indoor and Outdoor Application, Oil-free and Easy Maintenance!**

These models work especially for household applications, industrial machinery attachments, waste water treatment, septic tanks, oxygen supply for fish tanks, Koi ponds and water garden.

These models are approved by customers for years in Japan, the USA, and Europe.

Full aluminum casing offers better ventilation and seals off the noises. The



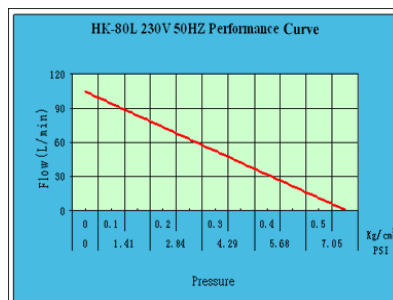
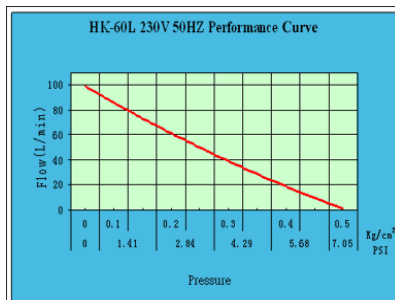
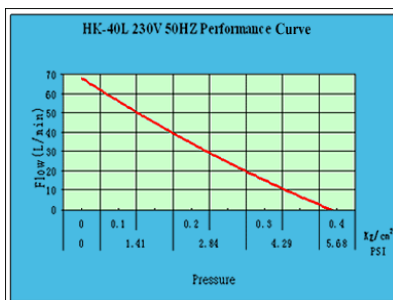
**Dimensions(mm)**

	A	B	C	D	E	F	G	H
HK-40L	204	174	204	23	108	92	34	18
HK-60L								
HK-80L								

**Specification :**

Item Model	HK-40L	HK-60L	HK-80L
Rated Voltage (V)	230V/120V		
Power supply	50	50	50
Normal pressure (kgf)	0.13(1.85psi)	0.15(2.13psi)	
Exhaust quantity (L)	46	70	84
Power (w)	38	63	78
Noise level (dB)	32	37	39
Closed	psi	7.24	7.8
pressure	Kgf /cm	0.51	0.55
Weight (kg)	5.4	6.26	6.28

**Product Curve Line :**



**Applications :**

::	Wastewater Treatment	::	Inflatable Packaging Material Machines
::	Koi Ponds	::	Air Mattresses
::	Medical Equipment	::	Massage Bed and Chair Mechanisms
::	Water Gardens	::	Air Sampling
::	Aqua Culture	::	Pneumatic Massage Equipment
::	Medical Application	::	Septic Tanks
::	Bubble Bath	::	Oxygen Supply for Fish Tank



Filter



Rubber feet



Diaphragm set



Actuating Arm



L-Tube

# Air Pumps

*Aluminum Casing, Perfect Performances, Low Noise, Low Energy Consumption, Suitable for Indoor and Outdoor Application, Oil-free and Easy Maintenance!*

These models work especially for household applications, industrial machinery attachments, waste water treatment, septic tanks, oxygen supply for fish tanks, Koi ponds and water garden.

These models are approved by customers for years in Japan, the USA, and Europe.  
Full aluminum casing offers better ventilation and seals off the noises.



## Discription and Dimensions :

These models designed for large functioning capacities, such as waste water treatment, septic tanks, and oxygen supply.

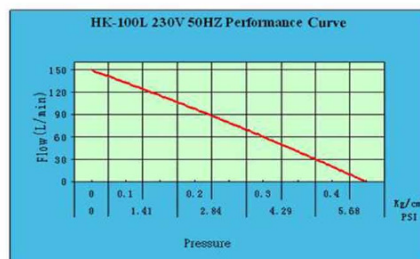
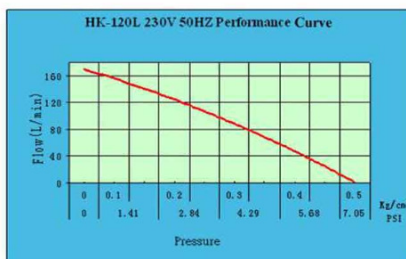
The electromagnets are loaded with thermal protection device and security stoppers, which make sure of safe operation.

Full aluminum casing offers better ventilation and seals off the noises. With no sliding parts, Our linear diaphragm air pumps provide the lubricant free linear motion and deliver smooth and clean airflow. We offer a full range of linear diaphragm air pumps providing solutions to meet a broad range of requirements in medical, aqua culture, water gardens and waste water treatment.

## Specification :

Item Model	HK - 120 L	HK - 100 L
Rated Voltage (V)	AC115*/AC230^	AC115*/AC230^
Power supply	50	50
Normal pressure (kgf)	0.20 (2.845 psi)	0.20 (2.845 psi)
Exhaust quantity (L/min)	125	108
Power (w)	130	98
Noise level (dB)	42	41
Closed pressure	psi	7.25
	Kgf /cm	8.25
Weight (kg)	0.51	0.58
	8.9	8.9

## Product Curve Line :



## Applications :

::	Wastewater Treatment	::	Inflatable Packaging Material Machines
::	Koi Ponds	::	Air Mattresses
::	Medical Equipment	::	Massage Bed and Chair Mechanisms
::	Water Gardens	::	Air Sampling
::	Aqua Culture	::	Pneumatic Massage Equipment
::	Medical Application	::	Septic Tanks
::	Bubble Bath	::	Oxygen Supply for Fish Tank



Filter



Rubber feet



Diaphragm set



Actuating Arm



L-Tube

## HK-150L.200L.250L



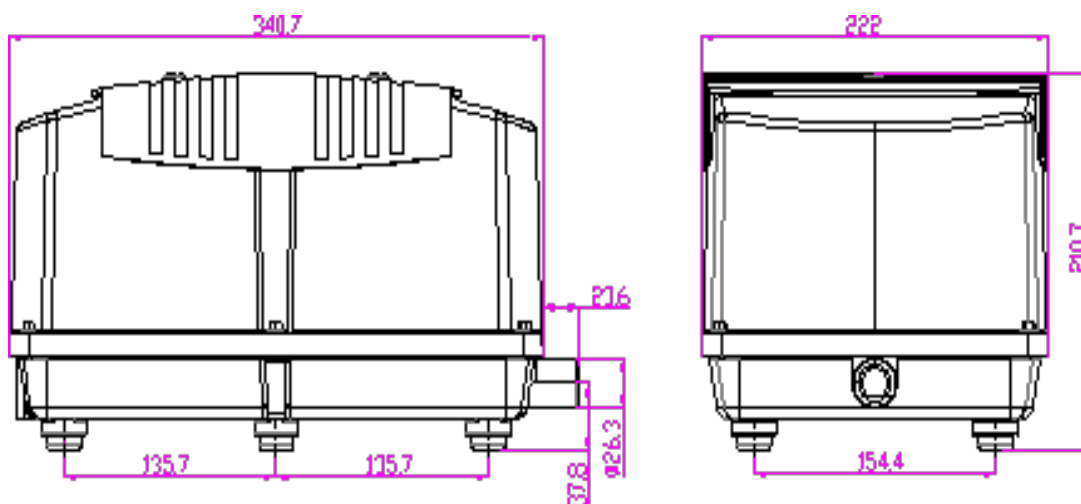
## Linear Diaphragm Air Pump

### Description and Dimensions :

Aluminum Casing, Perfect Performances, Low Noise, Low Energy Consumption, Suitable for Indoor and Outdoor Application, Oil-free and Easy Maintenance! Thermal Protection Device and Security Stoppers loaded in each These models designed for large functioning capacities, such as waste water treatment, septic tanks, and oxygen supply.

The electromagnets are loaded with thermal protection device and security stoppers, which make sure of safe operation

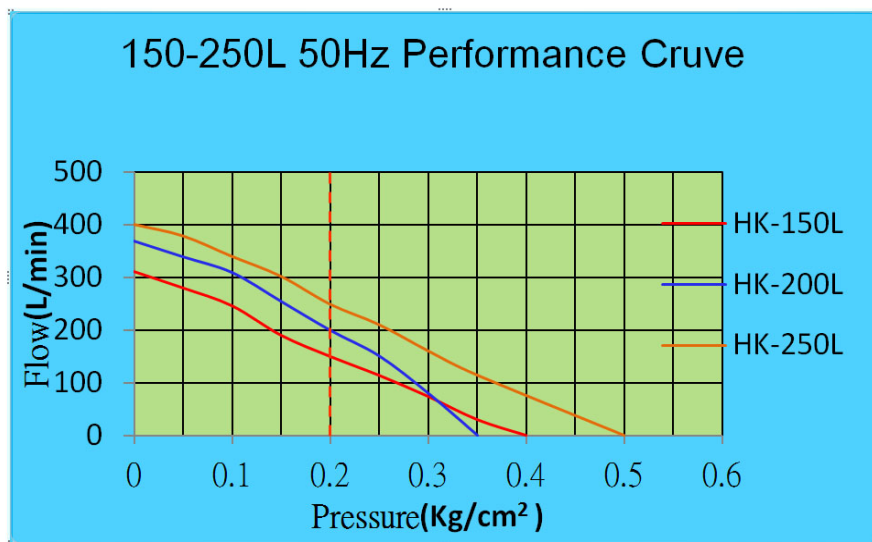
Full aluminum casing offers better ventilation and seals off the noises. With no sliding parts, HAKKO linear diaphragm air pumps provide the lubricant free linear motion and deliver smooth and clean airflow. We offer a full range of linear diaphragm air pumps providing solutions to meet a broad range of requirements in medical, aqua culture, water gardens and waste water treatment.



### Specification

	HK-150L	HK-200L	HK-250L
Rated Voltage (V)	120V/220V/230V		
Power supply frequency (Hz)	50/60		
Normal pressure (kgf /cm <sup>2</sup> )/(psi)	0.20 (2.85psi)		
Exhaust quantity (L /min)/(cfm)	150	200	250
Power (w)	160	175	230
Noise level (dB)	50	51	52
Closed pressure psi	5.1	5.6	6.11
Kgf /cm <sup>2</sup>	0.4	0.44	0.48
Weight (kg)	15.1		

## Product Curve Line



**Filter**



**Rubber feet**



**Diaphragm set**



**Actuating Arm**



**L-Tube**



**Security Stopper**

