IWAKI

IWAKI
AIR
PUMPS

APN-W



Solution for chemical handling applications

Air pumps which can pump both gas & liquid

The APN-W series are gas-liquid transfer pumps.
The use of a special diaphragm allows the pump to transfer both air and liquid.
The miniaturized & lightened body offers optimum sizing for various equipment such as analyzers, in which compactness is always a key requirement.



APN-05, 10, 20-W
(DC motor type)



APN-30, 60-W
(Brushless DC motor type)



APN-30, 60-W
(DC motor type)

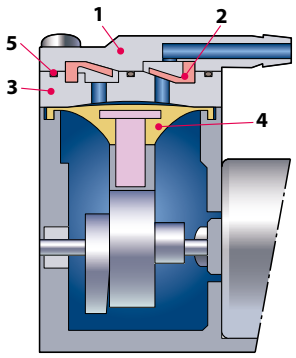


APN-085-W
(AC motor type)

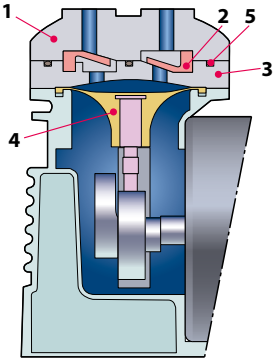


Construction and materials

APN-05, 10, 20, 30, 60-W



APN-085, P085-W



Model	APN - 05, 10, 20, 30, 60 - W	APN-085-W, P085 - W	
		E	V
1 Pump head	GFRPP	GFRPP	GFRPP
2 Valve	FKM, Perfluoro®Note	EPDM	FKM
3 Valve seat	GFRPP	GFRPP	GFRPP
4 Diaphragm	FKM, PTFE/EPDMNote	EPDM	FKM
5 Gasket	FKM, Perfluoro®Note	EPDM	FKM

Note: Special order on APN-05,10 & 20.

Pump identification

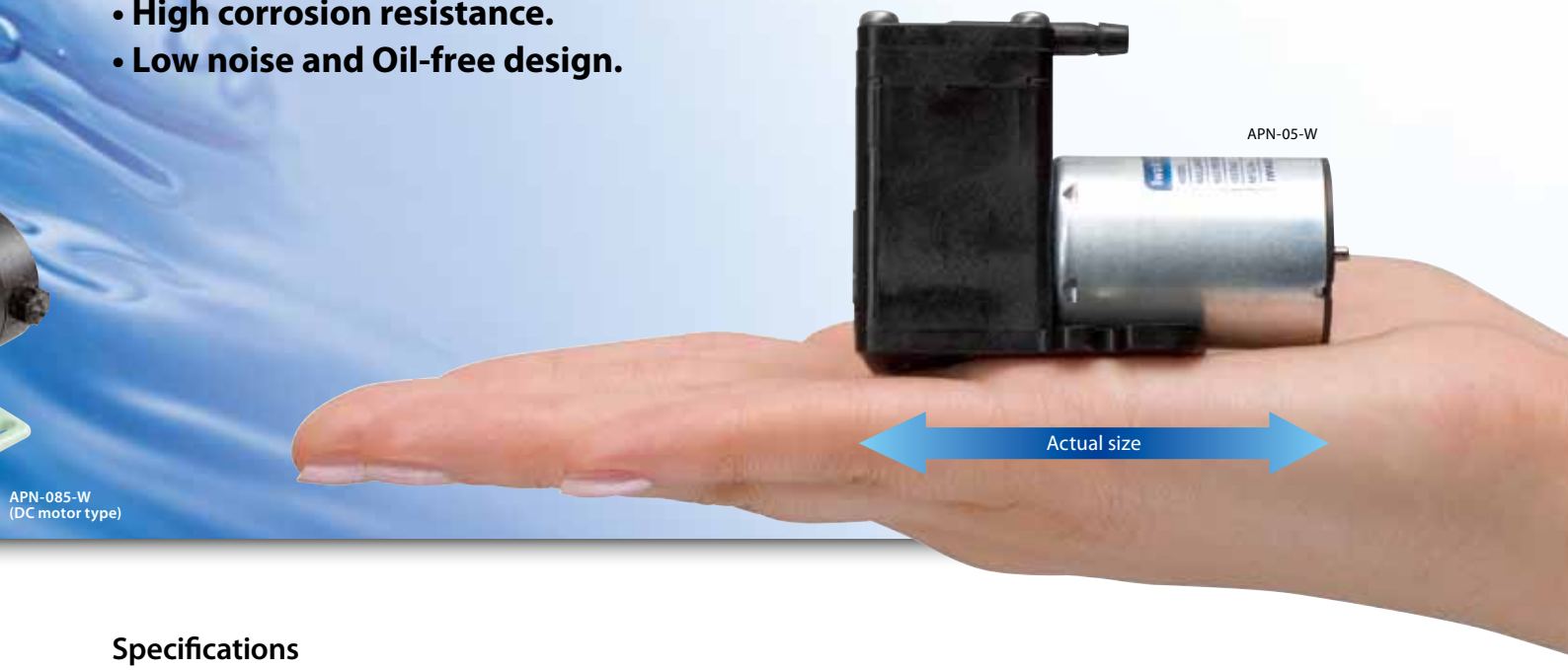
APN - 10 G D2 - W 02

- Bracket shape
  No symbol : Without base
  G : With base
- Model
  05, 10, 20, 30, 60
- Motor
  D1 : 12VDC
  D2 : 24VDC
  D3 : Brushless 24VDC
- Gas-liquid transfer type
- Special version

APN - P 085 E X - E4 - W 02

- Model
  085
- Diaphragm(Valve) materials
  E : EPDM
  V : FKM
- Type mark
  No symbol : Simplex
  P : Parallel duplex
- Motor
  E4 : AC220/240V
  D1 : 12VDC
  D2 : 24VDC
  D3 : Brushless 24VDC
- Connection size
  X : Thread (Rc1/8)
- Gas-liquid transfer type
- Special version

- **Design for transferring both gas and liquid ensures long life.**
- **Ideal for waste liquid collection thanks to the ability to handle entrained gas.**
- **Ultra-compact and lightweight.**
- **Capable of self-priming under dry condition.**
- **High corrosion resistance.**
- **Low noise and Oil-free design.**

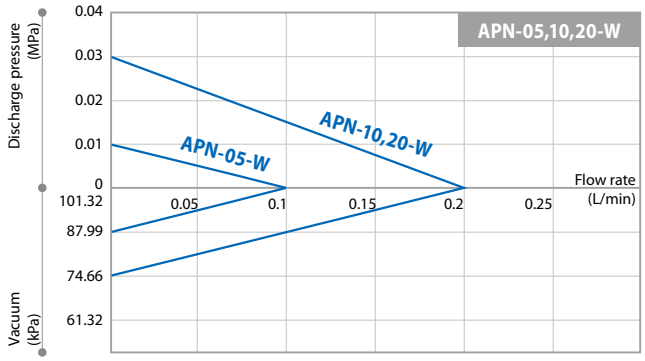


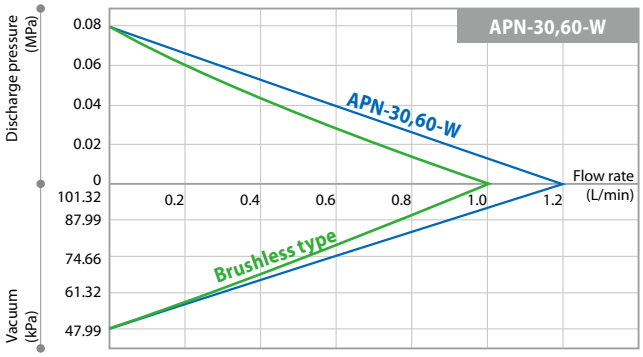
Specifications

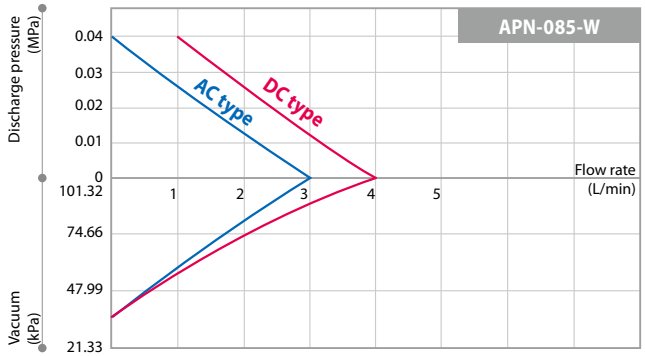
Model	Gas			Gas-liquid	Connection size IN/OUT	Motor				Mass (kg)
	Max. flow (L/min)	Max. discharge pressuure (MPa)	Max. vacuum (kPa)	Max. capacity (L/min)		Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)	
APN-05-W	0.1	0.01	87.99	0.05	Hose 4.5mm dia.	2.5	4.8	0.2	DC24	0.11
APN-10-W	0.2	0.03	74.66	0.1						
APN-20-W				0.2	Hose 5mm dia.					
APN-30-W (Note1)	1.2 (1.0)	0.08	47.99	0.3	Hose 5.5mm dia.	5.8 (8)	11.5 (14.4)	0.48 (0.6)		0.21 (0.24)
APN-60-W				0.6						
APN-085E-W	3	0.05	34.66	0.5	Thread Rc1/8	20	48	0.22	AC220,240 (50Hz)	2.5
APN-085V-W			37.33							
APN-P085E-W	5		34.66	1.0			48			2.8
APN-P085V-W			37.33							
APN-085E-W (Note2)	4	0.05	34.66	0.5	Thread Rc1/8	7.5	19.2	1.6	DC12	2.5
APN-085V-W			37.33							
APN-085E-W (Note1)	4	0.05	34.66	0.5	Thread Rc1/8	7.5 (15)	19.2 (28)	0.8 (1.2)	DC24	2.5 (1.3)
APN-085V-W			37.33							

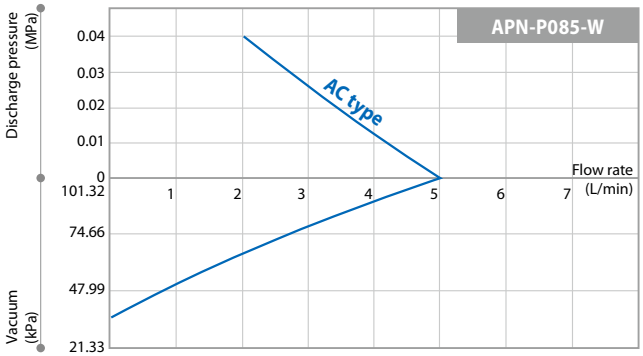
Note1: ( ) is brushless 24VDC type Note2: Brush type
•Discharge side pressure should be less than specification.
•Handling gas temp. APN-05,10,20,30,60-W : 5 - 40 ˚C APN-085,P085-W : 0 - 40 ˚C
•Handling liquid temp. APN-05,10,20,30,60-W : 10 - 40 ˚C APN-085,P085-W : 5 - 40 ˚C

Performance curves (gas[note])





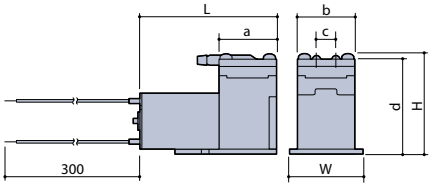




Note : Above performance shows when handling gas. When handling gas and liquid mixture, please contact us for pump performance.

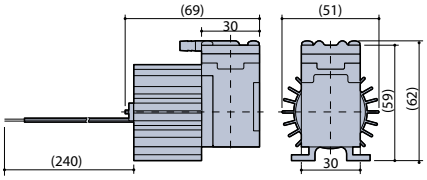
Dimensions (in mm)

APN- 05, 10, 20, 30, 60 -W

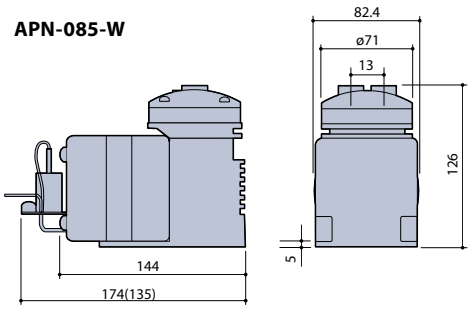


Model	W	L	H	a	b	c	d
APN- 05,10 -W	33	63	46	26	26	9	43.5
APN- 20 -W	33	63	46.4	26	26	9	44
APN- 30,60 -W	40	80	55	30	30	12	52

APN-30,60-W Brush less type

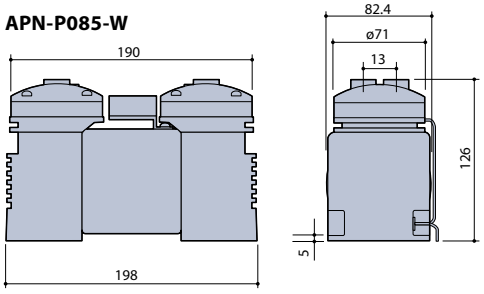


APN-085-W



( ) is DC type

APN-P085-W



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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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