

To: PISCO Customers  
Attn: To Whom It May Concern  
Date: July, 2023

Dear All,

**Information on changing the motor mounted on the rotary vacuum pump**  
**(\*excluding RPV064-200) (details)**

We appreciate daily sales activities and cooperation to PISCO.

We would like to inform you that we will change the design of our rotary vacuum pump due to the end of production of the motor (made by Panasonic). We apologize for the inconvenience caused by this change but hope you understand.

Sincerely Yours,

1. Subject Model Rotary Vacuum pump Model : RPV06□ (e.g.) RPV062-60T200-12-30-6  
※excluding RPV064-200□

2. Changes Change of mounted motor  
Running model : Panasonic ➔ New model : Oriental Motor

<Main changes>

1. Wiring method (If the three-phase is connected as the current wiring, it will rotate in the opposite direction, so it will be necessary to replace the wiring.)
2. Model change (Motor type symbol change, RPV06A-40 discontinued and standardized to RPV06A-60)
3. Changes in Appearance and Appearance Dimensions  
(Reference) Comparison of characteristics (flow characteristics, pumping speed characteristics) \*There is no change in the product specification values.

※For details, please refer to the attachment.

3. Effective date **Scheduled to be changed sequentially from around October 2023.**

※We have a sufficient supply of current motors, but we would like to request the required quantity, etc.

Please contact us as soon as possible if necessary.

Please make inquires to following sales office.

**Overseas Sales Department**  
**TEL : +81-(0)265-76-7751 FAX : +81-(0)265-76-3305**  
**E-mail : intl@pisco.co.jp**  
**URL : <http://en.pisco.co.jp/>**

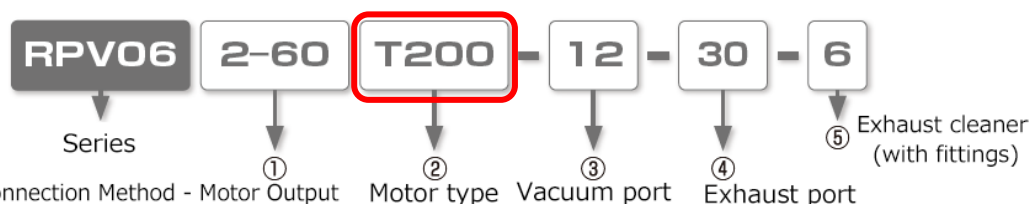
**Attachment: Details of changes**

1. Wiring method (If the three-phase is connected as the current wiring, it will rotate in the opposite direction, **so it will be necessary to replace the wiring.**)

	Single phase		3 phase		Thermal protector	
	Power line connection diagram	Motor connection	Power line connection diagram	Motor connection	Wiring specifications	Opening temperature (motor stop) / Closing temperature (resume operation)
Panasonic (Running)					Individual wiring	130±5°C / 90±15°C
Oriental Motor (new)					Internal wiring	130±5°C / 85±20°C
Note	The order of U1, U2, and Z2 on the motor description is different, but if U1 is connected to U1, and U2 is connected to U2, it can be used as before.		The UVW notation on the motor side is the same order as shown in the photo above, but the connection description of each SRT phase differs depending on the manufacturer, so <b>if you wire the same as before, the rotation will be reversed. It is necessary to make changes such as exchanging the two UV wires when connecting.</b>		<b>Since it is no longer possible to individually connect the protection circuit to the thermal protector as before, it may be necessary to change the motor protection. It is necessary to use a thermal relay, etc., if necessary (same as RPV064). Single-phase can also be handled with a brake pack, etc.</b>	

Thermal relay reference : <https://www.orientalmotor.co.jp/tech/teruyo/vol68/> Brake pack reference : [https://www.orientalmotor.co.jp/products/standard\\_ac/sb50w/features/](https://www.orientalmotor.co.jp/products/standard_ac/sb50w/features/)  
 Motor manual reference : <https://www.orientalmotor.co.jp/products/detail.action?hinmei=5IK60A-AW2TJ>

2. Model change (Motor type symbol change, RPV06A-40 discontinued and standardized to RPV06A-60)



Discontinued RPV06A-40 and unified to RPV06A-60

① Cylinder Stations/Connection Method - Motor Output

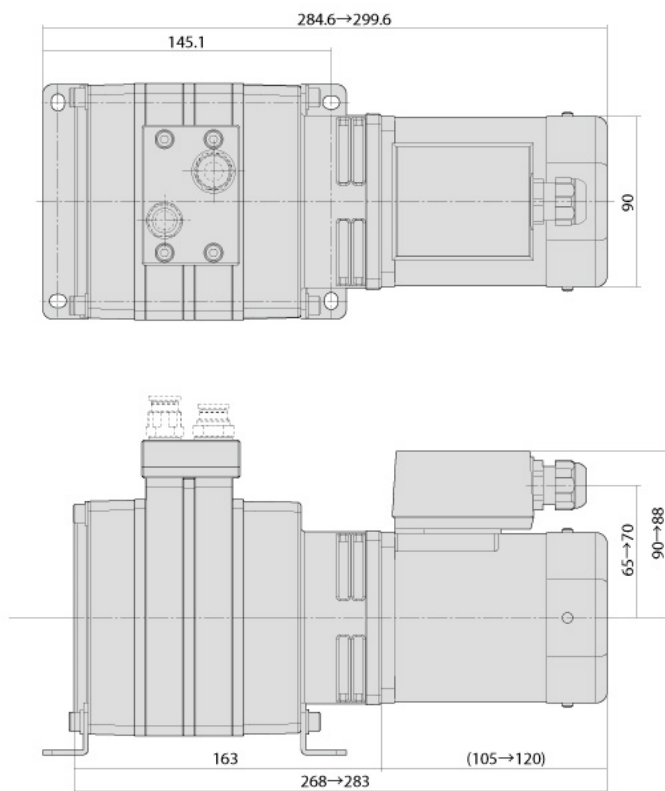
Symbol	2-60	3-90	4-200	<del>A-40</del>	A-60
Combination	Parallel·twin, 60W Motor	Parallel · triple 90W Motor	Parallel·quad 200W Motor	<del>In-line twin, 40W Motor</del>	In-line twin, 60W Motor
Final vacuum (50Hz/60Hz)	$\leq 3,500\text{Pa abs}/\leq 3,000\text{Pa abs}$			$\leq 350\text{Pa abs}/\leq 300\text{Pa abs}$	
	$\leq -97.8\text{kPa G}/\leq -98.3\text{kPa G}$			$\leq -100.95\text{kPa G}/\leq -101.0\text{kPa G}$	

② Motor type

Symbol	Running Model	S100	S100SW	S110	T200	V200
	New Model	U100	U100SW	U110	V200	
Motor type		Single phase 100VAC induction motor	Single phase 100VAC induction motor with a built-in power switch	Single phase 110/115VAC induction motor	3 phase 200/220/230VAC Induction motor	
RPV06A-60		○	○	○	○ Addition	
RPV062-60		○	○	○	○	
RPV063-90		—	—	—	○	
RPV064-200		—	—	—	○	

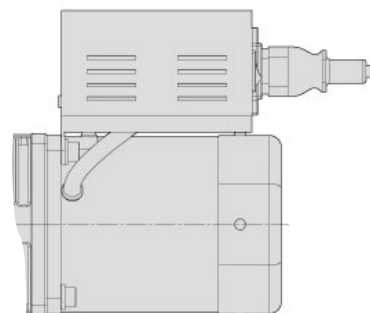
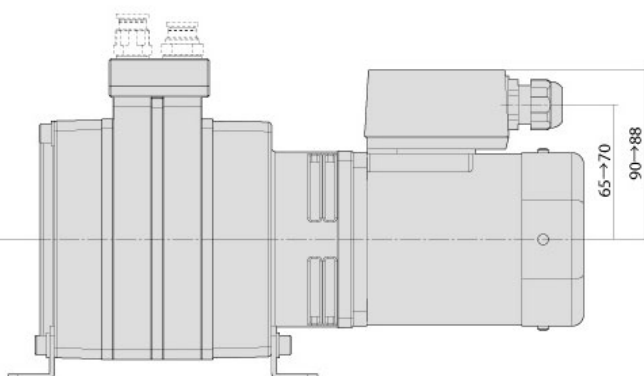
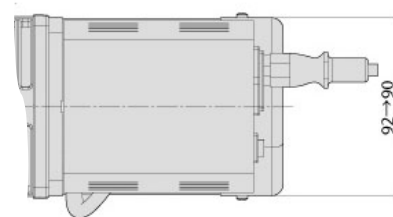
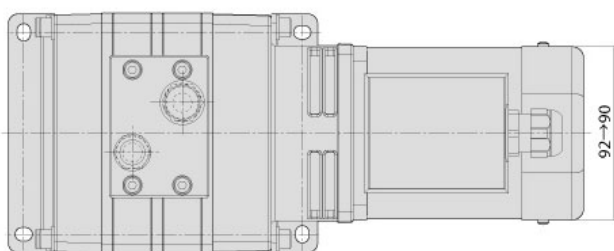
### 3. Changes in Appearance and Appearance Dimensions

RPV06A-40 → Unified into RPV06A-60



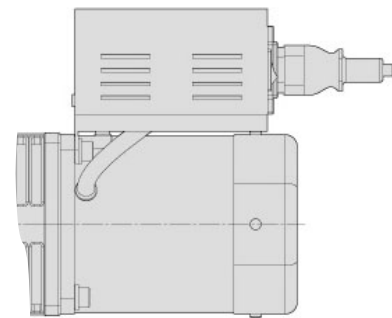
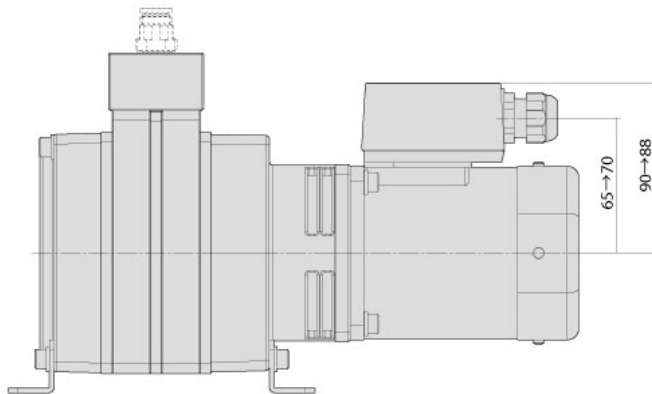
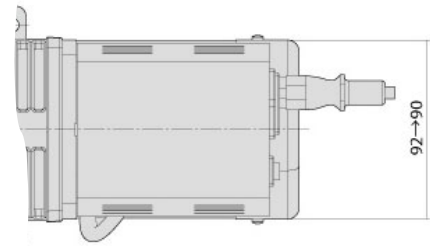
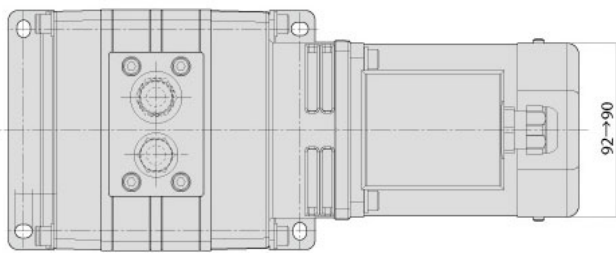
RPV06A-60

Power switch mounted type

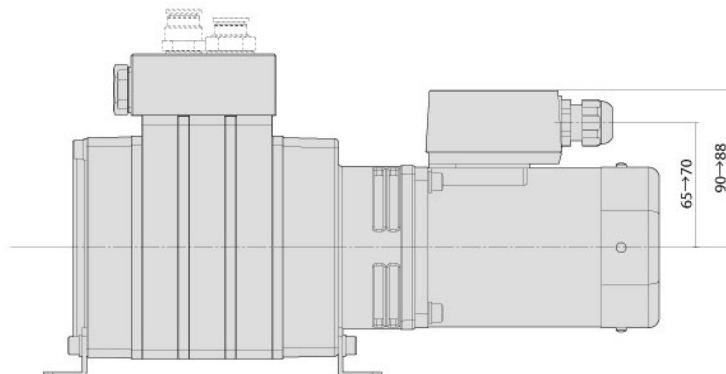
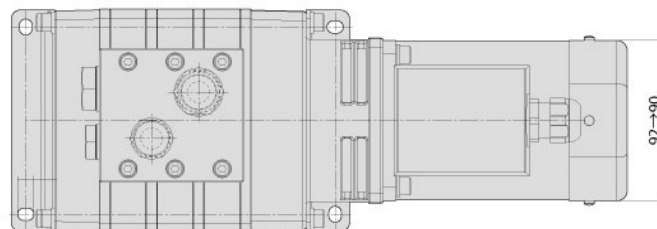


RPV062-60




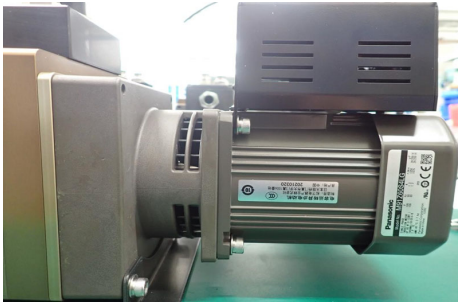

Power switch mounted type



RPV063-90



Appearance change

Running Model		New Model	
RPV06A-40			
RPV06A-60, RPV062-60, RPV063-90			
			
Power switch mounted type	RPV06A-60S100SW RPV062-60S100SW	RPV06A-60U100SW RPV062-60U100SW	
			

(Reference) Comparison of characteristics (flow rate characteristics/exhaust speed characteristics) \*There is no change in the product specification values. <50Hz>

	Model		Flow Characteristics	Exhaust Speed Characteristics
	Running	New		
RPV06A	RPV06A-40T200	RPV06A-60V200		
	RPV06A-60S100 RPV06A-60S100SW	RPV06A-60U100 RPV06A-60U100SW		
	RPV06A-60S110	RPV06A-60U110		
RPV062	RPV062-60T200	RPV062-60V200		
	RPV062-60S100 RPV062-60S100SW	RPV062-60U100 RPV062-60U100SW		
	RPV062-60S110	RPV062-60U110		
RPV063	RPV063-90T200	RPV063-90V200		

<60Hz>

	Model		Flow Characteristics	Exhaust Speed Characteristics
	Running	New		
RPV06A	RPV06A-40T200	RPV06A-60V200		
	RPV06A-60S100 RPV06A-60S100SW	RPV06A-60U100 RPV06A-60U100SW		
	RPV06A-60S110	RPV06A-60U110		
RPV062	RPV062-60T200	RPV062-60V200		
	RPV062-60S100 RPV062-60S100SW	RPV062-60U100 RPV062-60U100SW		
	RPV062-60S110	RPV062-60U110		
RPV063	RPV063-90T200	RPV063-90V200		