No.P405BU





Energy-saving for air blowing processes Pulse blow series

Compressed air is not for free!! Air consumption can be reduced nearly 50%

No electricity required! Generates pulse air without using electricity!



Pulse blow air gun PAG Series

Pulse blow unit PAU Series



Measures to reduce factory air consumption!

Air compressors are said to use about 20% of a factory's overall electric power. About 65% of that compressed air is usually consumed by blowing air. Pulse blow air gun can reduce the amount of compressed air consumption and help save energy.

World's first!

Pulse blow air gun PAG Series No electricity required! Pulse air generator is built in



CO2 reduction We will help you in your **CO2 reduction activities** (compressor electricity charge reduction).

	Pulse blow air gun	Standard	Large flow rate type	Small-size type	
	Per PAG-2 unit	Per PAU unit	Per PAU-30 unit	Per PAU-05 unit	
Power kWh	2368 ➡ 1184	3068 ➡ 1534	7437 🔿 3718	794 ➡ 397	
CO2 kg	1028 🔿 514	1332 🔿 666	3228 ➡ 1614	345 🔿 172	
Cost	Reduction of 5,960 yen/year	Reduction of 7,723 yen/year	Reduction of 18,718 yen/year	Reduction of 3,996 yen/year	

Remarks: <<Conditions for the above calculations>> Daily operating hours: 2 hours, yearly operating days: 240 days, CO₂ emission factor (TEPCO value in 2020): 0.434kg-CO₂/kWh

Cost of compressed air per m³: 2.5 yen, * "Value for continuous blowing" → "pulse blowing" according to our test conditions

Advantages of pulse blowing









Applicable examples



 To laser-print on workpieces on a conveyor after removing water drops adhering to them, use a nozzle-attached pulse blow unit.





• To remove the dust adhering to the workpieces on a conveyor, mount three nozzle-attached pulse blow units.



Pulse blow air gun

PAG Series



Specifications

Item	Model	PAG - 🗌		
Medium		Air ^{Note 1}		
Lubrication		No		
Operating pressure	e range MPa [psi]	0.35 to 0.7 [51 to 102]		
Operating tempera	ture range °C [°F]	5 to 50 [41 to 122]		
Pulse frequency	Hz	5 to 15		
Port size		Piping side: Rc1/4 Nozzle side: G1/8		
Nozzle diameterNot	^{e 2} mm [in.]	Standard nozzle: φ2 [0.079], φ3 [0.118], φ4 [0.157]/long nozzle: φ2.3 [0.091]/air amplifier nozzle: φ3 [0.118]		
Mass	g [oz]	194 [6.84] (main unit only)		
Matarial	Main unit cover	PBT resin		
waterial	Lever	POM resin		

Note 1: Air that is used should be clean air that contains no oil, solids, or other contaminants.

If drainage water, dust, and other contaminants get into the pulse blow air gun, they could cause defective operation.

Note 2: This product is equipped with a nozzle when shipped. Wrap sealing tape around the threads of the nozzle when assembling the product. Note 3: This product uses grease internally.

Order codes





Standard nozzle (identifier: number of slits)





Number of slits	Nozzle diameter (mm [in.])
2	φ 2 [0.079]
3	φ 3 [0.118]
4	φ 4 [0.157]

• Air amplifier nozzle

PAGZ-ZN3





Long nozzle
PAGZ-45 × [



Operation principle



- 1. Pulling the lever sends a signal from the trigger valve to open the pulse valve.
- 2. The pulse valve opens, and air is output from the nozzle.
- 3. Some of the air that is output from the pulse valve goes through the trimmer to accumulate in the piston chamber.
- 4. When some air has accumulated, the pulse valve closes so that air output from the nozzle stops and at the same time the air in the piston chamber is exhausted.
- 5. A certain amount of air is exhausted from the piston chamber, the pulse valve opens again, and air is output from the nozzle.

Steps 3 to 5 are then repeated. * The pulse frequency can be adjusted by using the trimmer.

Frequency adjustment method

The pulse frequency can be adjusted by rotating the frequency adjustment trimmer, as shown in the figure at right.

Use a precision flat blade screwdriver for adjustments.

Toward + (counterclockwise): Increases frequency. Toward - (clockwise): Decreases frequency.



Note: Turning the trimmer counterclockwise raises the frequency and turning it clockwise lowers the frequency. However, turning the trimmer further than needed, after fully opening or closing it, may damage component parts.

Characteristics of the frequency and flow according to the number of rotations of the trimmer (standard nozzle)



Note 1: According to our test conditions 1 .

Note 2: The characteristics of the frequency and the flow vary depending on the piping conditions and the nozzle used. Note 3: Use devices within the pulse frequency ranges (5 to 15 Hz) shown in the specification tables.

Note 4: Contact us regarding the long nozzle and air amplifier nozzle.



Operations according to piping conditions for pulse blow air guns (standard nozzle)

	Operating	Tub	eφ6[0.2	236]	Tub	be φ 8 [0.	315]	-	
Model	pressure	1000 mm [39.370 in.]	3000 mm [118.1 in.]	5000 mm [196.9 in.]	1000 mm [39.370 in.]	3000 mm [118.1 in.]	5000 mm [196.9 in.]	Test conditions (2)	Pressure mater or
	0.35 MPa [51 psi]	0	0	0	0	0	0		Thermometer
PAG-2	0.5 MPa [73 psi]	0	0	0	0	0	0	Pressure controller	$() \qquad () $
	0.7 MPa [102 psi]	0	0	0	0	0	0	Flow meter	PAG
	0.35 MPa [51 psi]	0	×	×	0	0	0		Pressure
PAG-3	0.5 MPa [73 psi]	0	×	×	0	0	0	Air source and filter	measuring tube Tube φ6 Tube φ8
	0.7 MPa [102 psi]	0	0	×	0	0	0		ταυο φο
	0.35 MPa [51 psi]	0	×	×	0	0	0		
PAG-4	0.5 MPa [73 psi]	0	×	×	0	0	0		
	0.7 MPa [102 psi]	0	×	×	0	0	0		

Operations may be unstable, depending on the piping conditions on the supply side. See the following table.

Note 1: \bigcirc : Stable operations ×: Unstable operations (according to our test conditions (2))

Note 2: Operations will be unstable if the piping conditions cause pressure drops or insufficient flow.

Note 3: Contact us regarding the long nozzle and air amplifier nozzle.

Handling precautions



- Do not point the tip of the nozzle at a person.
- Use safety glasses and earplugs because blowing air could blow objects into people's eyes or cause hearing loss.
- Install a cutoff valve on the supply side to ensure safety in case of leaks or damage.



- Air containing oil or solids cannot be used. Use cleaned air for the medium (use a filter that has a filtration rating of 40 µm or less). If drainage water, dust, and other contaminants get into this product, they could cause defective operation.
- Pass the medium through a device, such as a freeze-type air dryer or after cooler, to lower the dew-point temperature of the medium to below the ambient temperature so condensation or frost does not occur when the products are blowing.
- Use this product within the pulse frequency ranges shown in the specification tables.
- This product operates on a balance of pressure, so supply enough pressure and volume to keep the pulse operation steady.
- Use a wrench to hold down the flat part of the product, and then tighten within the following torque ranges when piping the supply port and screwing the nozzle.

Supply side recommended tightening torque: 7 to 9 N·m [61.957 to 79.659 in·lbf] Nozzle side recommended tightening torque: 4.5 to 6.5 N·m [39.830 to 57.532 in·lbf]

- Use tubing with an exterior that is not damaged. Do not allow tubing to become severely bent or twisted near the supply port. Doing so could cause air leakage.
- If you leave the product in a location where there is a lot of dust in the air or in a location where dust can be scattered, dust could get inside the product and cause defective operation.

- Do not subject the tip of the nozzle to excessive external force. Doing so could result in damage.
- Applying pressure from the nozzle side could cause defective operation or damage.
- Do not drop, step on, or dump the product. Doing so could result in damage.
- After using this product, put it on a hook or something to store it. Hooking it by the lever could cause defective operation or damage.





* Read "Safety precautions" on the general catalog website before using this product.

Small-size pulse blow unit

PAU-05 Series

Specifications

Moo	del and piping specifications			PAU-05	- 🗌			
Item		M5	J4	J6	01A	01B	01C	
Medium				Air				
Operating pressure		0.2	to 0.5 [2	29 to 73]			
Pulse frequen	cy Hz	20 ± 5	20 ± 5 (when 0.5 MPa [73 psi] is applied) ^{Note}					
Operating tempera	5 to 50 [41 to 122]							
Material	Main unit: Aluminum alloy IN port: Aluminum alloy (for -J4 and -J6, PBT)							
Maaa	a [a_]	14	14	14	15	15	15	
wass	g [oz]	[0.49]	[0.49]	[0.49]	[0.53]	[0.53]	[0.53]	
Port size	IN port	M5×0.8	φ 4 [0.157] fitting	φ6 [0.236] fitting	Rc1/8	R1/8	G1/8	
	OUT port	M5×0.8	M5×0.8	Rc1/8	Rc1/8	Rc1/8	G1/8	

Note 1: The frequency cannot be adjusted. This is the frequency of the pulses generated when 0.5 MPa [73 psi] is applied. For details, refer to "Characteristics of the frequency and flow according to pressure" on page 10

Note 2: Air that is used should be clean air that contains no oil, solids, or other contaminants. If drainage water, dust, and other contaminants get into the pulse blow unit, they could cause defective operation.

Note 3: This product uses grease internally.

Dimensions (mm [in.])

PAU-05-M5



POI		
M5	: IN piping, M5 (internal thread)	OUT piping, M5 (internal thread)
J4	: IN piping, ϕ 4 [0.157] quick fitting	OUT piping, M5 (internal thread)
J6	: IN piping, ϕ 6 [0.236] quick fitting	OUT piping, Rc1/8
01A	: IN piping, Rc1/8	OUT piping, Rc1/8
01B	: IN piping, R1/8	OUT piping, Rc1/8
01C	: IN piping, G1/8 (external thread)	OUT piping, G1/8 (internal thread)

Remarks: No mounting brackets for securing are not supplied. If you want to secure the product, supply a mounting bracket for securing by yourself.

- Akagi Co., Ltd. Resin band (color: light gray) CLIC standard Model number: A10530-0284

PAU-05-01A



PAU-05-J6

PAU-05-01C



Appearance of IN piping and OUT piping

Model Piping	PAU-05-M5	PAU-05-J4	PAU-05-J6	PAU-05-01A	PAU-05-01B	PAU-05-01C
IN piping		A STATE OF THE STA				
Port size	M5 (internal thread)	ϕ 4 [0.157] quick fitting	ϕ 6 [0.236] quick fitting	Rc1/8 (internal thread)	R1/8 (external thread)	G1/8 (external thread)
OUT piping	Philades October	Paul Contrast		The second	Participation of the second se	Paulo and -
Port size	M5 (internal thread)	M5 (internal thread)	Rc1/8 (internal thread)	Rc1/8 (internal thread)	Rc1/8 (internal thread)	G1/8 (internal thread)

Characteristics of the frequency and flow according to pressure



<<Interpretation of the above graphs>> When the pressure is 0.35 MPa [51 psi] and the nozzle diameter is ϕ 2 [0.079], the frequency is 19 Hz and the ON duty is 57.5%. The air reduction at this time is 42.5%.





Operations according to piping conditions for pulse blow units

Nozzle	Operating	Tub	eφ4[0.*	157]	Tub	pe φ 6 [0.2	236]		
diameter	pressure	1000 mm [39.370 in.]	3000 mm [118.1 in.]	5000 mm [196.9 in.]	1000 mm [39.370 in.]	3000 mm [118.1 in.]	5000 mm [196.9 in.]	Test conditions ②	
	0.20 MPa [29 psi]	0	0	0	0	0	0		pressure converter
φ 1.0 [0.039]	0.35 MPa [51 psi]	0	0	0	0	0	0	Pressure controller	
	0.50 MPa [73 psi]	0	0	0	0	0	0	Flow meter	PAU-05
	0.20 MPa [29 psi]	0	0	0	0	0	0		Pressure
φ 1.5 [0.059]	0.35 MPa [51 psi]	0	0	0	0	0	0	Air source and filter	measuring tube $frequencies$ Tube ϕ 4 [0.157]
	0.50 MPa [73 psi]	0	0	0	0	0	0		Tube φ6 [0.236]
	0.20 MPa [29 psi]	0	0	×	0	0	0		
φ 2.0 [0.079]	0.35 MPa [51 psi]	0	0	0	0	0	0		
	0.50 MPa [73 psi]	0	0	0	0	0	0		

Operations may be unstable, depending on the piping conditions on the IN port side. See the following table.

Note 1: \bigcirc : Stable operations ×: Unstable operations (according to our test conditions (2)) Note 2: Operations will be unstable if the piping conditions cause pressure drops or insufficient flow.

Handling precautions



- blow objects into people's eyes or cause hearing loss.
 Install a cutoff valve on the IN port side to ensure safety in
- case of leaks or damage.



- Air containing oil or solids cannot be used. Use cleaned air for the medium (use a filter that has a filtration rating of 40 µm or less). If drainage water, dust, and other contaminants get into this product, they could cause defective operation.
- Pass the medium through a device, such as a freeze-type air dryer or after cooler, to lower the dew-point temperature of the medium to below the ambient temperature so condensation or frost does not occur when the products are blowing.
- This product operates on a balance of pressure, so supply enough pressure and volume to keep the pulse operation steady.
- It is recommended to make a one-to-one connection between this product and an air blow gun or a nozzle.
- If you want to install this product apart from the cutoff valve and other parts, make sure that the distance does not exceed 3 m [9.840 ft] on the primary side if using a ϕ 4 [0.157]×2.5 tube. On the secondary side, it is recommended to connect a nozzle directly.

The piping work is as follows: Use a wrench to hold down the "IN port side flat part" when piping the IN port and the "OUT port side flat part" when piping the OUT port, and then tighten within the following torque range. Performing the piping work by using other flat parts could cause damage to the product.



OUT port side flat part

Screw size	M5×0.8	Rc1/8, R1/8, G1/8
Recommended tightening targue. N m [in lbf]	1 to 1.5	4.5 to 6.5
	[8.851 to 13.277]	[39.830 to 57.532]

- Use tubing with an exterior that is not damaged. Do not allow tubing to become severely bent or twisted near the IN port. Doing so could cause air leakage.
- Do not mount this product on the secondary side of an electrostatic eliminator.Doing so will reduce the neutralization function of air blowing considerably.

Caution * Read "Safety precautions" on the general catalog website before using this product.

KOGANEI 12

Pulse blow unit

PAU Series

Specifications

		Model	PALL
Item			IAV
Medium			Air
Operating pressure	range	MPa [psi]	0.35 to 0.7 [51 to 102]
Pulse frequency		Hz	5 to 15
Operating temperat	ure range	°C [°F]	5 to 50 [41 to 122]
Mass		g [oz]	73 [2.57]
Matarial	Main unit		Aluminum alloy
Material	Bracket		Mild steel (nickel plated)
Dort oizo	IN: Rc1/4		
FULLSIZE			OUT: G1/4

Note 1: Air that is used should be clean air that contains no oil, solids, or other contaminants.

If drainage water, dust, and other contaminants get into the pulse blow unit, they could cause defective operation. Note 2: This product uses grease internally.

Dimensions (mm [in.])



Order codes



Bracket Blank: No bracket 21: With bracket (attached)



Frequency adjustment method

The pulse frequency can be adjusted by rotating the frequency adjustment trimmer, as shown in the figure at right.

Use a precision flat blade screwdriver for adjustments.

Turn it in the + direction (counterclockwise direction) to increase the frequency.

Turn it in the - direction (clockwise direction) to decrease the frequency.

Note: Turning the trimmer counterclockwise increases the frequency and turning it clockwise decreases the frequency. Turning the trimmer more than necessary after turning it fully clockwise or counterclockwise may damage the components.





Note 1: According to our test conditions 1 .

- Note 2: The characteristics of the frequency and the flow vary depending on the piping conditions and the nozzle used.
- Note 3: Use this product within the pulse frequency ranges shown in the specification tables (5 to 15 Hz).



Number of times trimmer is rotated (rotations)



Operations according to piping conditions for pulse blow units

Operations may be unstable, depending on the piping conditions on the IN port side. See the following table.

Nozzle	Operating	Tub	eφ6[0.2	:36]	Tube φ 8 [0.315]			
diameter	pressure	1000 mm [39.370 in.]	3000 mm [118.1 in.]	5000 mm [196.9 in.]	1000 mm [39.370 in.]	3000 mm [118.1 in.]	5000 mm [196.9 in.]	
	0.35 MPa [51 psi]	0	0	0	0	0	0	
φ2 [0.079]	0.5 MPa [73 psi]	0	0	0	0	0	0	
	0.7 MPa [102 psi]	0	0	0	0	0	0	
	0.35 MPa [51 psi]	0	0	×	0	0	0	
φ3 [0.118]	0.5 MPa [73 psi]	0	0	0	0	0	0	
	0.7 MPa [102 psi]	0	0	0	0	0	0	
φ4 [0.157]	0.35 MPa [51 psi]	0	×	×	0	0	0	
	0.5 MPa [73 psi]	0	×	×	0	0	0	
	0.7 MPa	0	×	×	0	0	0	

Test conditions (2) Pressure meter or pressure converter Thermometer Pressure converter Pressure conv

- Note 1: \bigcirc : Stable operations x: Unstable operations (according to our test conditions (2))
- Note 2: Operations will be unstable if the piping conditions cause pressure drops or insufficient flow.

Handling precautions

📐 Warning

- Use safety glasses and earplugs because blowing air could blow objects into people's eyes or cause hearing loss.
- Install a cutoff valve on the IN port side to ensure safety in case of leaks or damage.



- Air containing oil or solids cannot be used. Use cleaned air for the medium (use a filter that has a filtration rating of 40 μm or less). If drainage water, dust, and other contaminants get into this product, they could cause defective operation.
- Pass the medium through a device, such as a freeze-type air dryer or after cooler, to lower the dew-point temperature of the medium to below the ambient temperature so condensation or frost does not occur when the products are blowing.
- Use this product within the pulse frequency ranges shown in the specification tables.

- This product operates on a balance of pressure, so supply enough pressure and volume to keep the pulse operation steady.
 It is recommended to make a one-to-one connection between
- this product and the air blow gun or a nozzle.
- If you want to install this product apart from the air blow gun or nozzle, a φ8 [0.315]×6 tube and a distance not exceeding 2 m [6.560 ft] are recommended.
- Use a wrench to hold down the flat part of the product, and then tighten within the following torque range when piping the IN port and the OUT port.

Recommended tightening tergue. N m [in lhf]	PAU				
Recommended lightening lorque in in [in bi]	7 to 9 [61.957 to 79.659]				
Use tubing with an exterior that is	not damaged. Do not allow				
tubing to become severely bent o	r twisted near the IN port.				

Doing so could cause air leakage.
 Do not mount this product on the secondary side of an electrostatic eliminator. Doing so will reduce the neutralization function of air blowing considerably.

🕂 Caution

* Read "Safety precautions" on the general catalog website before using this product.

Pulse blow unit

PAU-30 Series Large flow rate type



Specifications

Item	Model	PAU-30-02 (-25)	PAU-30-03 (-25)		
Medium		Air			
Operating pressure rang	ge MPa [psi]	0.35 to 0.7 [51 to 102]			
Pulse frequency	Hz	5 to 15			
Operating temperature r	ange °C [°F]	5 to 50 [41 to 122]			
Mass	g [oz]	105 [3.70] (113 [3.99])	100 [3.53] (108 [3.81])		
Material		Aluminum alloy			
Port size	IN OUT	Rc1/4	Rc3/8		

Note 1: Air that is used should be clean air that contains no oil, solids, or other contaminants.

If drainage water, dust, and other contaminants get into the pulse blow unit, they could cause defective operation. Note 2: This product uses grease internally.

Dimensions (mm [in.])



Order codes

Blank: No mounting holes or brackets 25: Direct mounting Port size

02: Rc1/4 (for both IN and OUT) 03: Rc3/8 (for both IN and OUT)



Characteristics of the frequency and flow according to the number of rotations of the trimmer





Note 1: According to our test conditions 1.

Note 2: The characteristics of the frequency and the flow vary depending on the piping conditions and the nozzle used.

Note 3: Use devices within the pulse frequency ranges (5 to 15 Hz) shown in the specification tables.



Operations according to piping conditions for pulse blow units

Operations may be unstable, depending on the piping conditions on the IN port side. See the following table.

Nozzle	Operating	Tube φ 8	3 [0.315]	Tube ϕ 1	0 [0.394]	Tube ϕ 1	2 [0.472]	Test conditions ②	pressure meter or pressure converter
diameter	pressure	1000 mm [39.370 in.]	5000 mm [196.9 in.]	1000 mm [39.370 in.]	5000 mm [196.9 in.]	1000 mm [39.370 in.]	5000 mm [196.9 in.]	-	Thermometer
	0.35 MPa [51 psi]	0	\bigtriangleup	0	0	0	0	Pressure controller	PAU-30
φ4 [0.157]	0.5 MPa [73 psi]	0	\bigtriangleup	0	0	0	0		
	0.7 MPa [102 psi]	0		0	0	0	0	Air source and filter	Pressure measuring tube d8 [0 315]
	0.35 MPa [51 psi]	0	\bigtriangleup	0	\bigtriangleup	0	0		Tube \u03c610 [0.313] Tube \u03c610 [0.394] Tube \u03c612 [0.472]
φ6 [0.236]	0.5 MPa [73 psi]	0		0	\bigtriangleup	0	0		
	0.7 MPa	0	\triangle	0	\bigtriangleup	0	0		

Note 1: \bigcirc : Stable operations \triangle : Minimum frequency of 5 to 10 Hz (according to our test conditions (2)) Note 2: Operations will be unstable if the piping conditions cause pressure drops or insufficient flow.

Handling precautions



- Use safety glasses and earplugs because blowing air could blow objects into people's eyes or cause hearing loss.
- Install a cutoff valve on the IN port side to ensure safety in case of leaks or damage.

<u> </u>Caution

- Air containing oil or solids cannot be used. Use cleaned air for the medium (use a filter that has a filtration rating of 40 µm or less). If drainage water, dust, and other contaminants get into this product, they could cause defective operation.
- Pass the medium through a device, such as a freeze-type air dryer or after cooler, to lower the dew-point temperature of the medium to below the ambient temperature so condensation or frost does not occur when the products are blowing.
- Use this product within the pulse frequency ranges shown in the specification tables.

- This product operates on a balance of pressure, so supply enough pressure and volume to keep the pulse operation steady.
- It is recommended to make a one-to-one connection between this product and the air blow gun or a nozzle.
- If you want to install this product apart from the air blow gun or nozzle, a φ8 [0.315]×6 tube and a distance not exceeding 2 m [6.560 ft] are recommended.
- For piping to the IN port or the OUT port, tighten within the torque range below.

	PAU-30-02 (-25)	PAU-30-03 (-25)
Recommended tightening torque N·m [in·lbf	7 to 9	12.5 to 14.5
	[61.957 to 79.659]	[110.6 to 128.3]

* Piping for both IN port side and OUT port side

- Use tubing with an exterior that is not damaged. Do not allow tubing to become severely bent or twisted near the IN port. Doing so could cause air leakage.
- Do not mount this product on the secondary side of an electrostatic eliminator. Doing so will reduce the neutralization function of air blowing considerably.



* Read "Safety precautions" on the general catalog website before using this product.

Pulse blow unit

PAU-50 Series Large flow rate type





Specifications

Mode		PAU-50-04(-25)	PAU-50-06(-25)		
Item					
Medium		Air			
Operating pres	sure range MPa [psi]	0.35 to 0.7 [51 to 102]			
Pulse frequence	y Hz	$5 \sim 15^{^{Note1}}$			
Operating tem	perature range °C [°F]	5 to 50 [41 to 122]			
Mass	g [oz]	289 (308) [10.2 (10.9)]	295(319) [10.4(11.3)]		
Material		Aluminum alloy			
Port size	IN port OUT port	Rc1/2	Rc3/4		

Note 1 : Specifications may not be met depending on piping conditions and used nozzles.
 2 : Air that is used should be clean air that contains no oil, solids, or other contaminants. If drainage water, dust, and other contaminants get into the pulse blow unit, they could cause defective operation.

3 : This product uses grease internally.

Dimensions (mm [in.])

Order codes



Port size

04 : Rc1/2 (for both IN and OUT)

 $\mathbf{06}$: Rc3/4 (for both IN and OUT)



Frequency adjustment method

The pulse frequency can be adjusted by rotating the frequency adjustment trimmer, as shown in the figure at right.Use a precision flat blade screwdriver for adjustments.

Turn it in the + direction (counterclockwise direction) to increase the frequency. Turn it in the - direction (clockwise direction) to decrease the frequency.

Note: Turning the trimmer counterclockwise increases the frequency and turning it clockwise decreases the frequency. Turning the trimmer more than necessary after turning it fully clockwise or counterclockwise may damage the components.



Characteristics of the frequency and flow according to the number of rotations of the trimmer



3: Use devices within the pulse frequency ranges (5 to 15 Hz) shown in the specification tables.



Operations according to piping conditions for pulse blow units

Operations may be unstable, depending on the piping conditions on the IN port side. See the following table.

	Nozzle	Operating pres-	Tube ϕ 1	0 [0.394]	Tube ϕ 1	2 [0.472]		
	diame- ter	sure	1000 mm [39.370 in.]	5000 mm [196.9 in.]	1000 mm [39.370 in.]	5000 mm [196.9 in.]	_	
		0.35 MPa [51 psi]	×	×	0	×	Tes	
	φ 6 [0 236]	0.5 MPa [73 psi]	0	0	0	0		
	[0.200]	0.7 MPa [102 psi]	0	0	0	0		
		0.35 MPa [51 psi]	×	×	0	×		
	φ 8 [0.315] 0	0.5 MPa [73 psi]	×	×	0	0		
		0.7 MPa [102 psi]	0	\bigtriangleup	0	0		
		0.35 MPa [51 psi]	×	×	0	×	Air s	
	φ 10 [0 39/]	0.5 MPa [73 psi]	×	×	0	0		
	[0.004]	0.7 MPa [102 psi]	0	0	0	0		



Note 1: (): Stable operations x: Unstable operations (according to our test conditions (2)) 2: Operations will be unstable if the piping conditions cause pressure drops or insufficient flow.

Handling precautions

🚹 Warning

- Use safety glasses and earplugs because blowing air could blow objects into people's eyes or cause hearing loss.
- Install a cutoff valve on the IN port side to ensure safety in case of leaks or damage.

1 Caution

- Air containing oil or solids cannot be used. Use cleaned air for the medium (use a filter that has a filtration rating of 40 μm or less). If drainage water, dust, and other contaminants get into this product, they could cause defective operation.
- Pass the medium through a device, such as a freeze-type air dryer or after cooler, to lower the dew-point temperature of the medium to below the ambient temperature so condensation or frost does not occur when the products are blowing.
- Use this product within the pulse frequency ranges shown in the specification tables.

- This product operates on a balance of pressure, so supply enough pressure and volume to keep the pulse operation steady.
- It is recommended to make a one-to-one connection between this product and the air blow gun or a nozzle.
- If you want to install this product apart from the air blow gun or nozzle, a $\phi 10$ [0.394]×6.5 tube and a distance not exceeding 2 m [6.560 ft] are recommended.
- •When piping to the IN or OUT port, tighten within the following torque range.

Recommended tightening torque	PAU-50-04(-25)	PAU-50-06(-25)		
	20 to 22	$28 \sim 30$		
	[177.02 to 194.72]	[247.83 to 265.53]		

- •Leaving the unit in a dusty environment may allow dust to enter inside, which may cause malfunction.
- •When using a tube, the tube should be free of scratches on the outside surface. Also, do not bend or pry the tube excessively. Doing so could cause air leakage.
- •Do not mount this product on the secondary side of an electrostatic eliminator. Doing so will reduce the neutralization function of air blowing considerably.

Caution * Read "Safety precautions" on the general catalog website before using this product.

Common to all products in the PAU Series

Support that can be provided	PAU-05	PAU	PAU-30	PAU-50
Vaseline type	0	0	0	0
H1 grease type	0	0	0	0
Projection-type trimmer	-	0	0	0
Degrease type (Grease wiping-equivalent/fluorine type quick-drying lubricant application)	0	0	0	0
IN/OUT port Rc1/8	Standard type	0	0	
Low-pressure type, OUT port Rc1/4	-	0	0	

: Support can be provided
 -: Support cannot be provided

For the IN port and the OUT port, we can also offer the parallel pipe thread G type and the National Pipe Thread (NPT) type. For details, contact Koganei.

Limited Warranty

KOGANEI CORP. warrants its products to be free from defects in material and workmanship subject to the following provisions.

Warranty Period The warranty period is 180 days from the date of delivery.

KoganeiIf a defect in material or workmanship is foundResponsibilityduring the warranty period, KOGANEI CORP.
will replace any part proved defective under
normal use free of charge and will provide the
service necessary to replace such a part.

Limitations • This warranty is in lieu of all other warranties, expressed or implied, and is limited to the original cost of the product and shall not include any transportation fee, the cost of installation or any liability for direct, indirect or consequential damage or delay resulting from the defects.

- KOGANEI CORP. shall in no way be liable or responsible for injuries or damage to persons or property arising out of the use or operation of the manufacturer's product.
- This warranty shall be void if the engineered safety devices are removed, made inoperative or not periodically checked for proper functioning.
- Any operation beyond the rated capacity, any improper use or application, or any improper installation of the product, or any substitution upon it with parts not furnished or approved by KOGANEI CORP., shall void this warranty.
- This warranty covers only such items supplied by KOGANEI CORP. The products of other manufacturers are covered only by such warranties made by those original manufacturers, even though such items may have been included as the components.

The specifications are subject to change without notice.

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