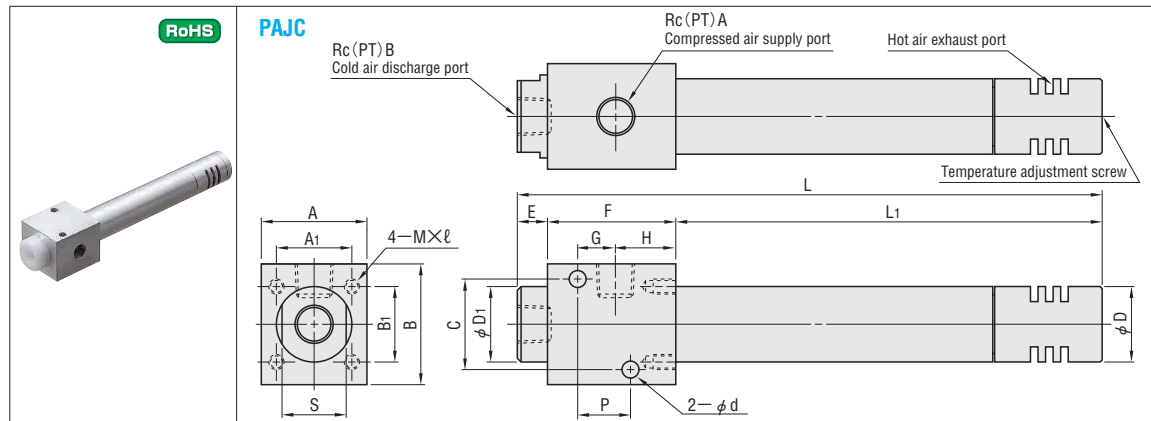


# AIR JET COOLERS FOR DIES



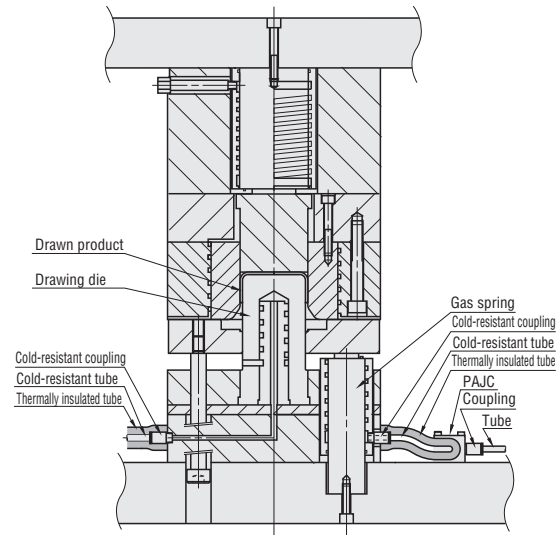
L	E	F	L1	G	H	C	D	D1	P	d	A	A1	B	B1	M×l	S	Rc (PT) A	Rc (PT) B	Catalog No. Type	Base unit price
156	8	34	114	11	15	24	20	20	14	4.5	28	20	32	20	4×6	17	1/8	1/8	PAJC	150
218	12	52	154	19	23	36	32	30	24	6.6	40	30	46	30	5×8	26	3/8	3/8	PAJC	600

**Order** Catalog No. **PAJC150**

**Days to Ship** **Quotation**

**Price** **Quotation**

**Example** Prevents reduction in die lifetime due to high die temperatures.  
 • Prevents reduction of the lifetime of pressure-resistant seals due to high gas spring temperatures.  
 • Prevents die temperature rise during deep drawing.



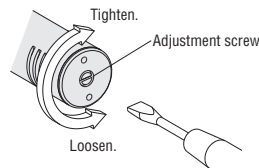
### Precautions for use

- Use these products only for their intended purpose and do not use them outside of the designated operating ranges.
- Do not use any gas other than air.
- While the cooler is in use, hot air will be discharged from the exhaust port and the area around the exhaust port will be hot. Take care to avoid getting burned.
- If cooled too much, condensation may occur on the die. Be sure to create a drainage channel.
- When connecting a hose or other tube to the cold air discharge port, use an insulated hose or insulating tape in order to prevent condensation.

### Features

- Simply by supplying compressed air, this product generates cold air at a maximum of -70°C below the intake temperature.
- Effective for localized cooling.
- Installation and air temperature adjustment can be done easily.
- The special structure results in an extremely compact cooler unit, allowing this product to be used in confined spaces.

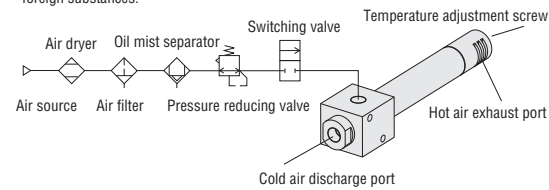
### Adjusting the cold air temperature



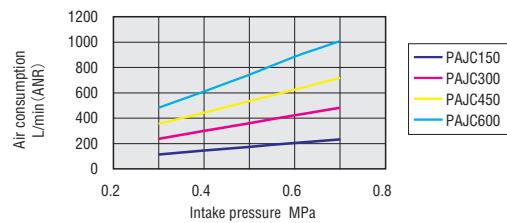
To adjust the cold air temperature, use the adjustment screw located on the side of the unit. Loosening the adjustment screw lowers the cold air temperature and reduces the flow of cold air. Conversely, tightening the adjustment screw raises the cold air temperature and increases the airflow.

### How to use

- Use with a supplied pressure in the range of 0.3~0.7MPa.
- Use an air dryer and supply dehumidified air.
- Be sure to install an air filter (filtering to 40 μm or smaller) and an oil mist separator before the air jet cooler in order to prevent the intrusion of foreign substances.



### Air consumption

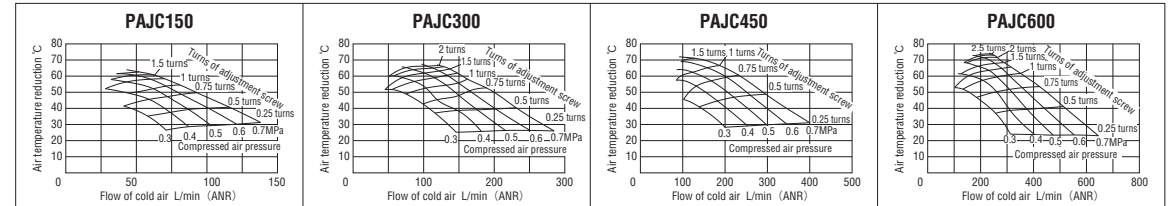


### Troubleshooting

- If the cooling effects become diminished, inspect the cooler following the procedure listed below.
  - ① Re-adjust the temperature adjustment screw.
  - ② Check to see if the filter and mist separator are clogged, causing a drop in the supplied pressure.
  - ③ Check that the full air consumption shown in the graph above is being supplied.
- Be aware that MISUMI accepts no responsibility for a product that has been disassembled.

### Temperature and heat quantity characteristics

- The air cooling temperature is the temperature reduction relative to the intake air temperature.
- The indicated number of turns of the adjustment screw is relative to 0 when the screw is fully tightened.
- The graphs below show the characteristics of the air jet cooler on its own.
- The heat quantity (W) is the power for taking heat from the target object by means of the jet of cold air from the discharge port. 1 (W) = 0.86 (kcal/h)

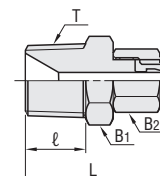


### Air jet cooler accessories

#### Straight coupling for fluororesin tubes



#### MCPTK



Catalog No. Type	Outer dia. of tube used (mm)	R (PT) selection	R (PT)	Inner dia. of tube used (mm)	L	ℓ	B1 (with cross flats)	B2 (with cross flats)	Base unit price
MCPTK	6	1	1/8	4	26	9	12		Quotation
		2	1/4	4	28.5	11	14		
	10	3	3/8	8	30	12	17		
		4	1/2	8	32	11	17		

**Order** Catalog No. — T  
**MCPTK6** — 1  
**Days to Ship** **Quotation**

**Specifications**  
**Fluid used** Compressed air + water  
**Service temperature range** Air: -65 ~ 260°C, Water: 0 ~ 100°C  
**Maximum operating pressure** Determined by the maximum operating pressure of the tube.  
**Operating vacuum** —100kPa

#### Fluororesin tube PUTF/PUTFL



Catalog No. Type	Outer dia. (mm)	Fixed length type (m)	Configurable length type (0.1mm increments)	Inner dia. (mm)	Min. bend radius (mm)	Outer dia. precision (mm)	Max. operating pressure (MPa)	Burst pressure (MPa)	Weight (kg/m)	Fixed length type (1~4 pieces)	Volume discount unit price (5~9 pieces)	Configurable length type (1~4 pieces/5~9 pieces)
PUTF (Fixed length type)	6	10	0.5 ~ 20	4	50	±0.1	1.7	7	0.034	1~4 pieces	5~9 pieces	Quotation
		20										
PUTFL (Configurable length type)	10	10	0.5 ~ 20	8	120	+0.1	0.8	3	0.061	1~4 pieces	5~9 pieces	Quotation
		20										

The maximum operating pressure and burst pressure shown are those when used at normal temperatures.

#### Air tubes M-UB

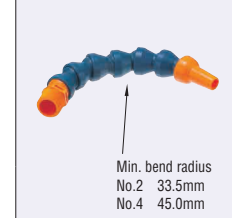


Tube outer dia.	Tube inner dia.	Min. bend radius	Operating pressure range	Catalog No. Type	No.	Full length L (M)	Color	Base unit price
6	4	15	0 ~ 700 kPa (0 ~ 7 kgf/cm <sup>2</sup> )	M-UB	0640	20	B (Black)	Quotation
10	6.5	27			1065		C (Clear)	

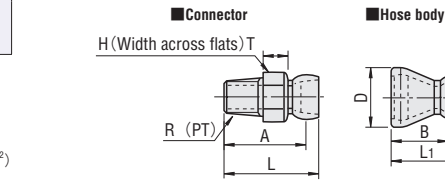
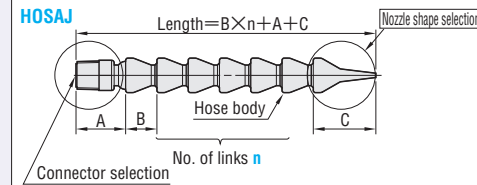
Full length L is in units of meters.

**Order** Catalog No. — L — Color  
**M-UB 0640** — 20 — B  
**Days to Ship** **Quotation** **Price** **Quotation**

#### Adjustment hoses



- Polyacetal (blue)
- Heat resistance: 80°C
- Pressure resistance: 0.59MPa (6kgf/cm<sup>2</sup>)



No.	Nozzle shape A3				
	C	C1	D	d1	d2
2	35.0	25.5	16.0	6.3	9.6
4	37.5	24.5	12.5	17.0	19.0

No.	Nozzle shape B3				
	C	C1	D	d1	d2
2	26.3	12.0	16.0	6.3	9.0
4	39.0	19.5	24.5	12.4	15.4

Hose inner dia. (inches)	Catalog No. Type	No.	Selected No. of links n	Connector selection	Nozzle shape	Hose body			Connector			No.	Link base unit price	Connector base unit price	Nozzle base unit price A3 shape B3 shape
						D	B	L1	A	L	H				
1/4	HOSAJ	4	0 ~ 30	1 (R1/8)	A3 B3	16	14.5	20.7	23	26.3	14	7	2	Quotation	Quotation
1/2						24.5	20.3	30	28	38.3	18.8	7.5			

**Order** Catalog No. — No. of links n — Connector (PT) — Nozzle shape  
**HOSAJ2** — 30 — 1 — A3  
**Days to Ship** **Quotation**

**Price** **Quotation**