

# Jet Air Coolers

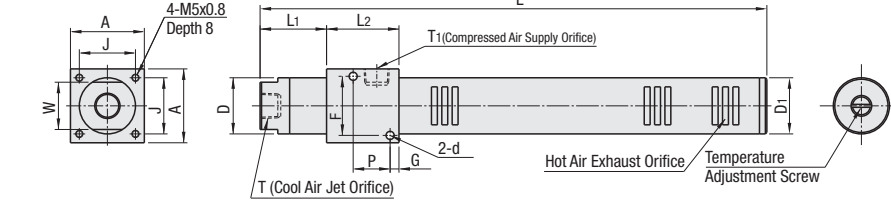
Standard / Compact, Low Temperature

# Jet Air Coolers

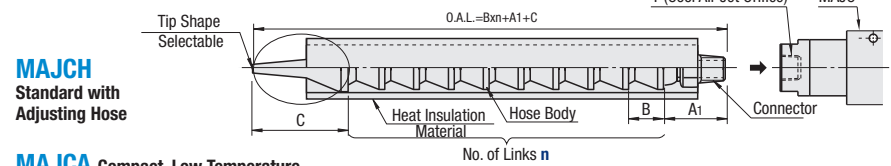
Standard / Compact, Low Temperature, *continued*

## Jet Air Coolers – Standard

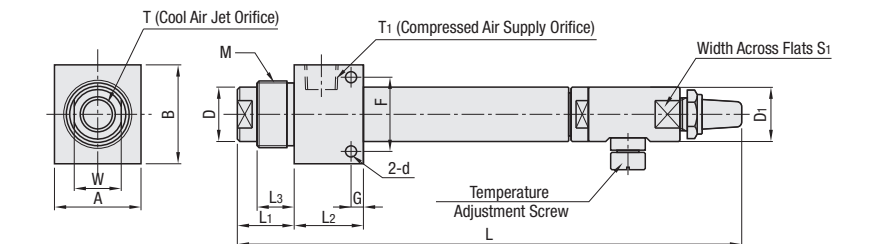
### MAJC Standard



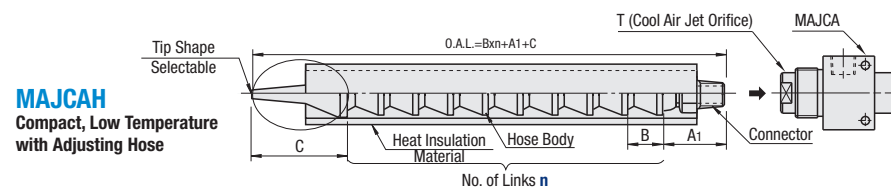
### MAJCH Standard with Adjusting Hose



### MAJCA Compact, Low Temperature



### MAJCAH Compact, Low Temperature with Adjusting Hose



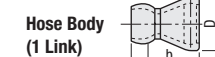
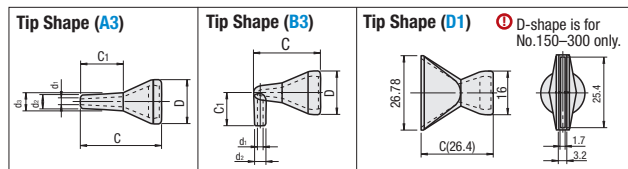
## Jet Air Coolers – Compact, Low Temperature

RoHS10

**Material:**  
Heat Resistance Temperature  
Adjusting Hose: -20~80°C  
Heat Insulation Material: -50~120°C

**Heater:**  
MAJC: 6063 Aluminum Alloy, Hose Body: Polyacetal (Blue)  
MAJCA: 6061 Aluminum Alloy Connector, Tip Nozzle: Polyacetal (Orange)

**Jet Orifice:** Polyacetal (White)  
**Heat Insulation Material:** EPDM Synthetic Rubber Synthetic Rubber



Hose Body & Connector Sizes	
No.	D A <sub>1</sub> B L <sub>1</sub>
150, 300	16 23 14.5 20.7
450, 600	24.5 28 17.0 30.0

No.	A <sub>3</sub>						B <sub>3</sub>					
	C	C <sub>1</sub>	D	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	C	C <sub>1</sub>	D	d <sub>1</sub>	d <sub>2</sub>	
150, 300	35	25.5	16	6.3	9.6	11.0	26.3	12	16	6.3	9.0	
450, 600	37.5	24.5	24.5	12.5	17.0	19.0	39.0	19.5	24.5	12.4	15.4	

Part Number	Type	No.	L	D <sub>1</sub>	L <sub>1</sub>	D	W	T		L <sub>2</sub>	F	P	G	T <sub>1</sub>		d	A	B	M	J	L <sub>3</sub>	S <sub>1</sub>	Operating Pressure (Mpa)	Pressure Resistance (Mpa)	Mass (kg)
								RC (PT)	RC (PT)																
Standard MAJC	150	228	25	26	22	19	1/8	31	26	12	5	1/8	4.5	35	—	—	25	—	—	—	—	—	—	—	0.25
	300	315	30	31	28	24	1/4	38	33	18	5	1/4	5.5	40	—	—	30	—	—	—	—	—	—	—	0.45
	600	343	38	45	38	32	3/8	49	40	25	6	3/8	5.5	50	—	—	38	—	—	—	—	—	—	—	0.85
Compact, Low Temperature MAJCA	150	198	20	21	20	17	1/8	24	24	—	5	1/8	4.5	30	35	M24 x 1.5	—	13	18	—	—	—	—	—	0.2
	300	204	22	23	22	19	1/4	28	30	—	5	1/4	4.5	35	40	M27 x 1.5	—	15	19	—	—	—	—	—	0.25
	450	272	32	27	30	26	3/8	37	36	—	7	3/8	6.6	40	50	M33 x 1.5	—	15	27	—	—	—	—	—	0.55
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Part Number	Type	Link No. n Configurable	Tip Shape Selectable	Hose Body			
				Hose Inner Dia.	D	B	L <sub>1</sub>
Standard with Adjusting Hose MAJCH	150	0-30	A3 B3 D1	1/4 Inch	16	14.5	20.7
	300			1/2 Inch	24.5	17.0	30.0
	600			1/2 Inch	24.5	17.0	30.0
Compact, Low Temperature with Adjusting Hose MAJCAH	150	0-30	A3 B3 D1	1/4 Inch	16	14.5	20.7
	300			1/2 Inch	24.5	17.0	30.0
	450			1/2 Inch	24.5	17.0	30.0
600	1/2 Inch	24.5	17.0	30.0	—	—	—

**Part Number Example**  
 Part Number: MAJC150  
 No. of Links: 10  
 Tip Shapes: D1

**Part Number Alterations**  
 Part Number: MAJCA150  
 No. of Links: 11  
 Tip Shapes: D1  
 (N / S): S

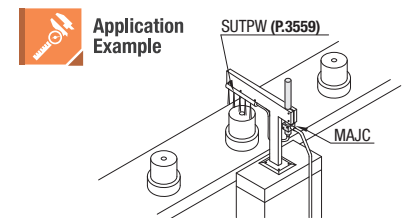
Alterations	With Hex Nut	With Silencer							
	<p>Width Across Flats S<sub>3</sub></p>								
Code	N	S							
Spec.	Hex nut is included. Ordering Code: N ⓧ Not applicable to MAJC and MAJCH.	A silencer is included. Ordering Code: S ⓧ Applicable to MAJCA (Compact, Low Temperature) only.							
Dimension of a Hex Nut		Silencer Dimensions							
No.	M	H	S <sub>3</sub>	No.	L	L <sub>1</sub>	D	D <sub>1</sub>	D <sub>2</sub>
150	M24x1.5	7	32	150	60	10	30	10	11
300	M27x1.5	7	36	300	63	10	32	12	13
450	M33x1.5	10	46	450	81	15	40	14	15
600	—	—	—	600	—	—	—	—	—

## Features

- The jet air cooler is a cool air generating device without moving part, which applies the principle of vortex theory.
- Supplied compressed air jets out air which is up to 40°C in MAJC and up to 60°C in MAJCA cooler than the temperature of the supplied air.
- Neither refrigerant nor electricity is used.

## Usage

- Forced cooling of solder
- Forced cooling of resin casting
- Cooling on plastic processing

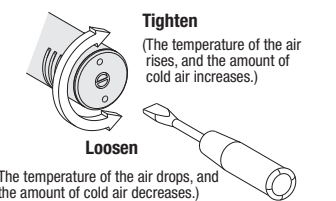


## Precautions for Use

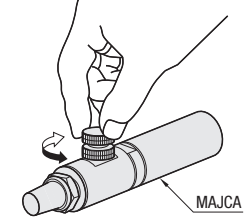
- In air supply, use the air filter and reducing valve.
  - Use an air dryer to avoid freezing when using at low temperature. Pay attention to the surrounding components when condensation on the tip of the hose occurs.
  - Adjusting Hose Type should be used at temperature -20°C or higher.
- When air flow volume is 100 L/min or less or supply air pressure is 0.2 MPa or less, effective cooling cannot be achieved.
- \*Especially for MAJCA and MAJCAH, the temperature of parts marked with mesh may rise up to 70°C, depending on conditions of use, when air temperature at the entrance is 20°C. Be sure to avoid burn injury.



## Temperature Adjustment Method MAJC / MAJCH



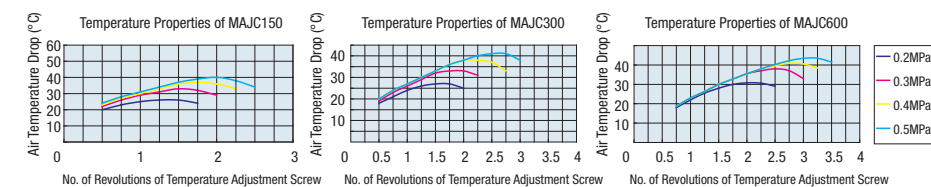
## MAJCA / MAJCAH



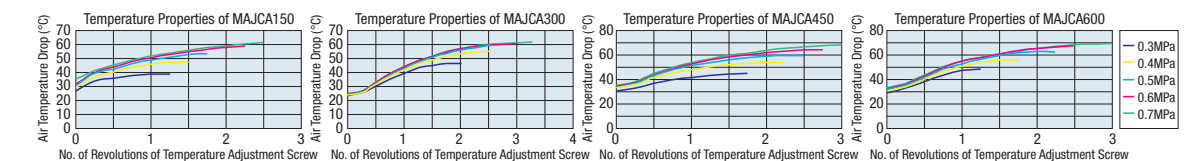
## Temperature Property

\*The air descent temperature is the descent temperature against the air temperature at the entrance.

### MAJC



### MAJCA



ⓧ Number of Revolutions of Temperature Adjustment Screw is obtained by turning a screw from the clockwise end to the counterclockwise end.

## Air Consumption

