

For compressors

- The compact, multi-orifice design achieves a flat blow with large coverage area.
- Available in three models: HF 7-012 (having 7 orifices), HF 7-014 (14 orifices), and HF 19-012 (19 orifices).
- Low noise level.
- Nozzle can be disassembled into three parts for easy cleaning of the orifices.

7 orifices

HF 7-012



14 orifices

HF 14-010

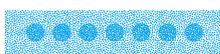
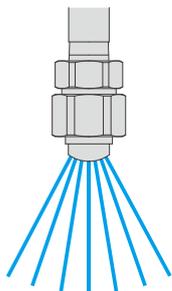


19 orifices

HF 19-010

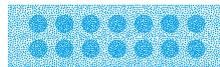
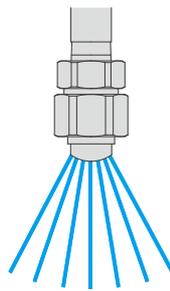


7 orifices



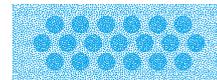
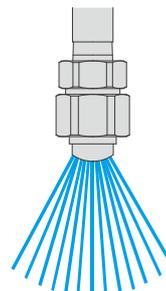
Blow pattern

14 orifices



Blow pattern

19 orifices



Blow pattern



Material
S303 (Optional material: S316)



Max. temperature
400°C (750°F)



Weight
Pipe conn. size R1/4: 70 g
Pipe conn. size R3/8: 75 g



Noise level
78–84 dBA at 0.3 MPa



Max. operating pressure
1.0 MPa (140 psi)



Air consumption
300–550 L/min, Normal at 0.3 MPa

Drawing

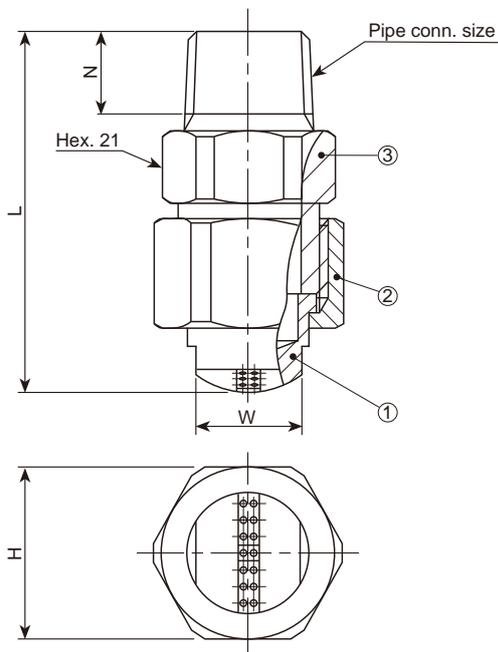
■ 1/4M (or 3/8M) HF 14-010 S303

HF 7-012 and HF 19-010 have the same outer dimensions as HF 14-010 (but differ in the number of orifices as shown in the images on page 22.)



3D CAD models

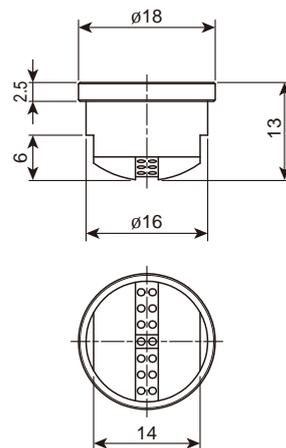
Complete Assembly



1. Nozzle tip 2. Cap 3. Adaptor

Unit: mm

Nozzle Tip

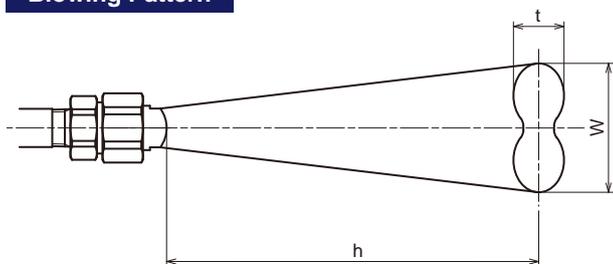


Weight of nozzle tip: approx. 11 g

■ Complete Assembly

Pipe conn. size	Outer dimensions (mm)				Weight (g)
	L	H	W	N	
R1/4	47.0	23.0	14.0	10.5	70
R3/8	47.5	23.0	14.0	11.0	75

Blowing Pattern



■ HF 7-012 (7 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	65	70	80	25	30	40
150	115	125	145	65	80	85
300	150	185	210	105	135	150

■ HF 14-010 (14 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	65	70	80	25	30	40
150	115	135	150	70	90	95
300	160	205	220	115	150	160

■ HF 19-010 (19 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	70	75	80	25	30	40
150	115	135	150	70	90	100
300	165	210	230	125	160	170

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

■ HF 7-012

Pressure (MPa)	Noise level (dBA)
0.1	66
0.3	78
0.5	83

■ HF 14-010

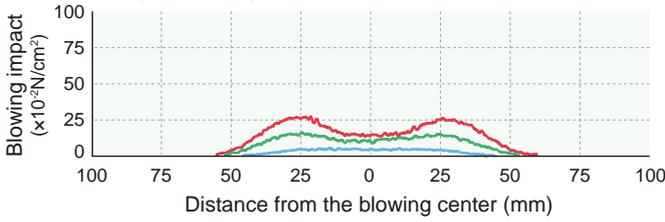
Pressure (MPa)	Noise level (dBA)
0.1	69
0.3	81
0.5	88

■ HF 19-010

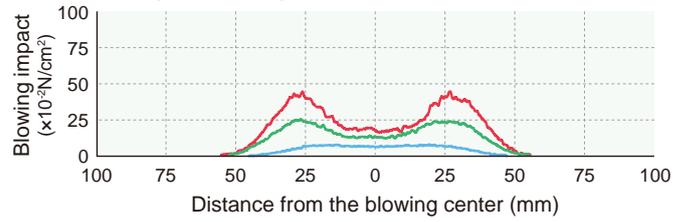
Pressure (MPa)	Noise level (dBA)
0.1	72
0.3	84
0.5	90

Blowing Impact Distribution at 100 mm from the nozzle orifice

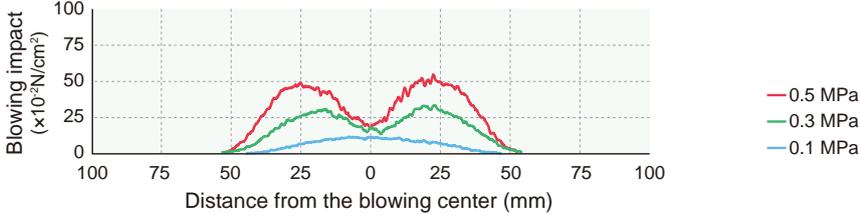
■ HF 7-012 (7 orifices)



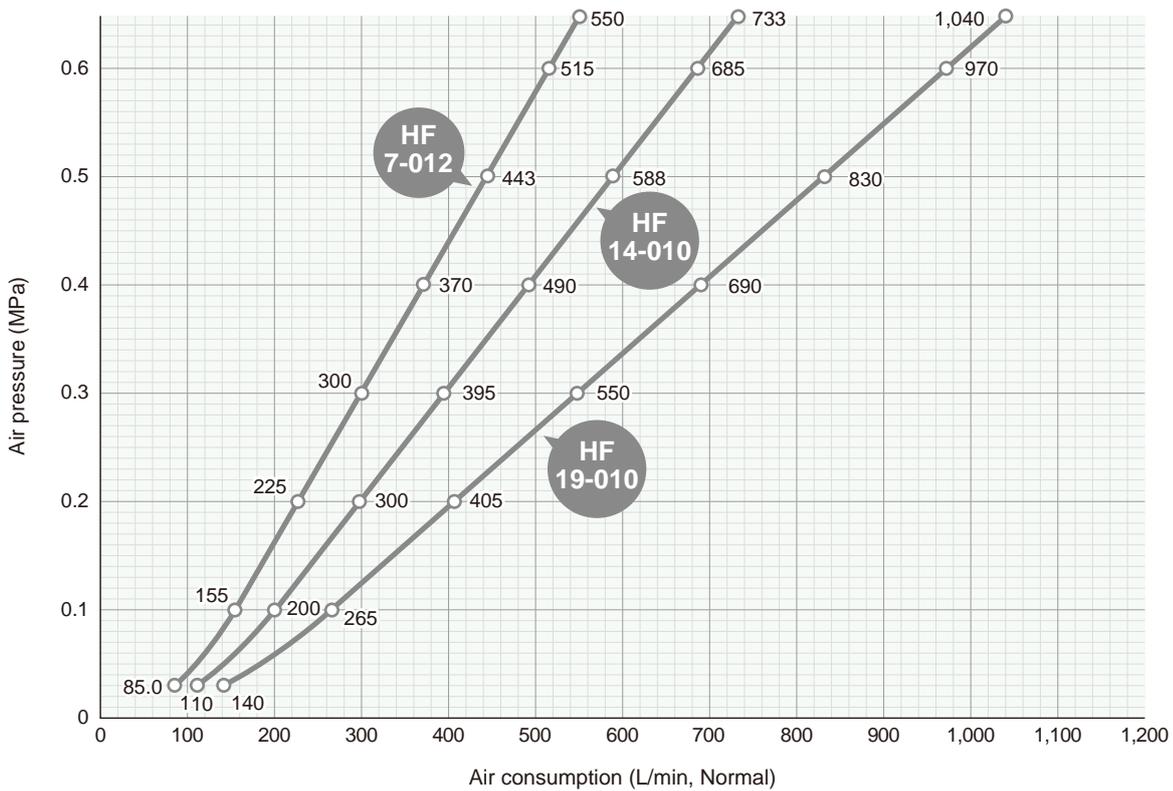
■ HF 14-010 (14 orifices)



■ HF 19-010 (19 orifices)



Air Consumption



HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system. See page 23 for selection.

Complete Assembly

<Example> 1/4M HF 7-012 S303
1/4M HF 7-012 S303

Pipe Conn. Size*

- 1/4M
- 3/8M

Orifice Code

- 7-012
- 14-010
- 19-010

Nozzle Tip

<Example> HF 7-012 Nozzle Tip S303
HF 7-012 Nozzle Tip S303

Orifice Code

- 7-012
- 14-010
- 19-010

*"M" indicates male thread ("R" of the ISO standard), e.g. 1/4M = R1/4.

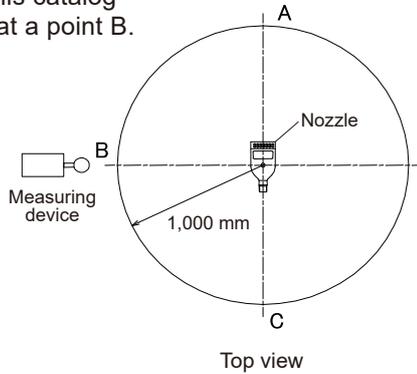
Technical Information

Noise Level Measurement

Noise levels are generally measured at three points A, B, and C, at a distance of 1,000 mm from the nozzle.

The nozzle is installed at a height of 1,000 mm.

Noise levels in this catalog were measured at a point B.

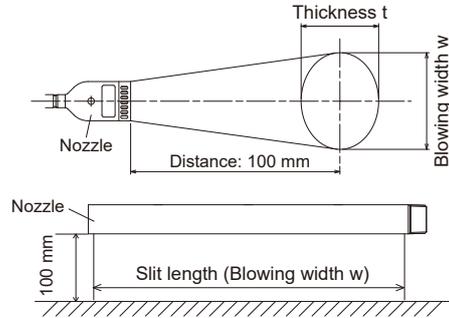


Blowing Pattern Measurement

Blowing air spread is measured at 100 mm from the nozzle orifice.

The blowing width can be used as a guide for spacing nozzles.

The shape of the blow pattern is generally closer to a circle as the distance from the nozzle increases.



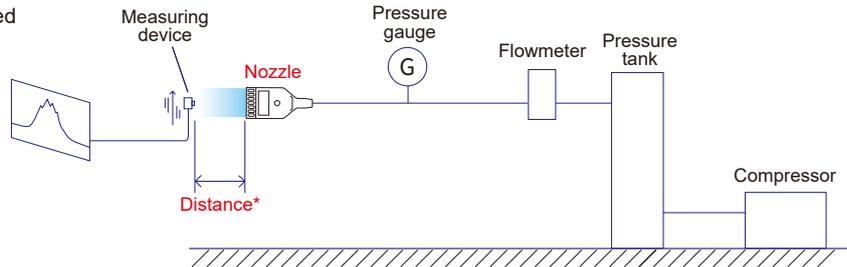
Blowing Impact Measurement

Blowing impact (blowing force) indicates the intensity of air applied to the target surface.

Air blown from the nozzle is measured by a sensor.

The blowing impact increases with an increase of the air pressure supplied.

*The blowing impact in this catalog is measured at a distance of 100 mm from the nozzle orifice except for SLNHA-H, SLNHA-NA, and SLNB series.



Nozzle Materials

The standard and optional materials available for nozzles are shown in the material section of each nozzle series, using the material codes listed here.

	Material code	Material
Plastics	ABS	Acrylonitrile butadiene styrene
	FRPP	Glass-fiber reinforced polypropylene
	HTPVC	Heat-treated polyvinyl chloride
	POM	Polyacetal
	PP	Polypropylene
	PPS	Polyphenylene sulfide
	PTFE	Polytetrafluoroethylene
	PVC	Polyvinyl chloride

	Material code	Material
Metals	S303	Stainless steel 303
	S304	Stainless steel 304
	S316	Stainless steel 316
	S316L	Stainless steel 316L
	B	Brass C3604
Rubbers	EPDM	Ethylene propylene rubber
	FKM	Fluororubber
	NBR	Nitrile rubber

Description of Thread Size and Type

In this catalog, the connection thread size and type are described according to the ISO standard. Threads noted in this catalog are tapered pipe threads unless otherwise specified.

When ordering our nozzles, please specify the thread size using our thread code. For example, "1/4M" is used instead of R1/4 and "1/4F" instead of Rc1/4 as shown right.

Thread type	ISO standard	Our thread code
Male tapered pipe threads	R1/4	1/4M
Female tapered pipe threads	Rc1/4	1/4F

IKEUCHI Air Nozzle Lineup



Type	Flat Jet					
Page	pp. 11–12	pp. 13–15		pp. 16–17	pp. 18–19	pp. 20–21
Nozzle series	TF-F24	TF-FS42		TF-F42	TF-F50	TF-F121
Product photo						
Air supply	Compressor	Compressor		Compressor	Compressor	Compressor
Main material	PPS	PPS	S316L equiv.	PPS	S304	PPS
Weight	4 g	9 g	38 g	30 g	140 g	62 g
Max. operating pressure	0.7 MPa	0.7 MPa	1.0 MPa	0.7 MPa	1.0 MPa	0.7 MPa
Max. temperature	120°C [240°F]	80°C ² [170°F]	400°C [750°F]	80°C ² [170°F]	400°C [750°F]	80°C ² [170°F]
Noise level at 0.3 MPa ¹	76 dBA	79 dBA	60–82 dBA	77 dBA	82 dBA	82 dBA
Air consumption at 0.3 MPa ¹	225 NL/min	440 NL/min	110–630 NL/min	440 NL/min	730 NL/min	1,250 NL/min
Features	<ul style="list-style-type: none"> • Compact • Low noise level • Uniform impact distribution 			<ul style="list-style-type: none"> • Low noise level • Uniform impact distribution 		

Type	Round Jet					
Page	pp. 31–33		pp. 34–35	pp. 36–37	pp. 63–64	
Nozzle series	TF-R		TF-M5R	CCP-A	TF-BR	
Product photo						
Air supply	Compressor		Compressor	Compressor	Blower	
Main material	PP	S316L equivalent & S303	S303	S303	ABS	Aluminum A5052
Weight	2 g	7 g or 12 g	800 g	7.5 g or 19 g	8 g	20 g
Max. operating pressure	0.7 MPa	1.0 MPa	1.0 MPa	1.0 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]
Max. temperature	60°C [140°F]	400°C [750°F]	216°C [420°F]	400°C [750°F]	80°C [170°F]	150°C [300°F]
Noise level at 0.3 MPa ¹	78 dBA	71–87 dBA	83–91 dBA	66–84 dBA	86 dBA	86 dBA
Air consumption at 0.3 MPa ¹	245 NL/min	157–627 NL/min	1,151–2,632 NL/min	35–215 NL/min	478 NL/min	478 NL/min
Features	<ul style="list-style-type: none"> • Low noise level • Powerful, high impact air stream 		<ul style="list-style-type: none"> • Low noise level • High volume and powerful air flow 	<ul style="list-style-type: none"> • Targeted, high impact solid air stream 	<ul style="list-style-type: none"> • Low noise level • Powerful, high impact air stream • Minimal air use 	

Type	Full Cone Jet	Air Amplifier	Air Blow Gun
Page	pp. 47–49	pp. 50–55	pp. 56–57
Nozzle series	JAN	EJA	TF-GUN
Product photo			
Air supply	Compressor	Compressor	Compressor
Main material	S303	S303	PP
Weight	13 g	405–2,370 g	94 g
Max. operating pressure	1.0 MPa	0.6 MPa	0.7 MPa
Max. temperature	400°C [750°F]	*3	50°C [120°F]
Noise level at 0.3 MPa	57–82 dBA	83 dBA or less	—
Air consumption at 0.3 MPa	49–456 NL/min	150–750 NL/min	225 NL/min ⁵
Features	<ul style="list-style-type: none"> • Full cone air blow for wide coverage 	<ul style="list-style-type: none"> • Air amplifying nozzle • Applicable for powder transfer 	<ul style="list-style-type: none"> • Air duster gun with TAIFUJet nozzle

Scan to watch our video:
"Introduction to All Our Air Nozzles".

Flat Jet							
pp. 22–24	pp. 58–59		pp. 25–30		pp. 60–62		
HF	TF-BF		TF-PF		TF-BPF		
							
Compressor	Blower		Compressor		Blower		
S303	ABS	Aluminum A5052	S304	PPS & S304	PPS & HTPVC	Aluminum A5052	
70 g or 75 g	26 g	65 g	360–13,800 g	950–3,800 g	220–4,360 g	—	
1.0 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]	1.0 MPa	0.7 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]	
400°C [750°F]	80°C [170°F]	150°C [300°F]	400°C [750°F]	80°C ² [170°F]	80°C ² [170°F]	150°C [300°F]	
78–84 dBA	85 dBA	85 dBA	84 dBA or more	86 dBA or more	*3	*3	
300–550 NL/min	565 NL/min	565 NL/min	1,150–15,100 NL/min	2,172–13,034 NL/min	2,940–14,100 NL/min	2,940–14,100 NL/min	
<ul style="list-style-type: none"> • Low noise level • Thick blow pattern • Disassemblable 	<ul style="list-style-type: none"> • Low noise level • Uniform impact distribution • Minimal air use 		<ul style="list-style-type: none"> • Long flat nozzle • Low noise level • Uniform impact distribution 		<ul style="list-style-type: none"> • Long flat nozzle using blower air • Uniform impact distribution • Minimal air use 		

Slit Jet						
pp. 41–43		pp. 44–46	pp. 68–70	pp. 38–40	pp. 65–67	
SLNHA-H		SLNHA-NA	SLNB	VZ	SAP	
						
Compressor		Compressor	Blower	Compressor	Compressor	Blower
PVC	S304	S304	S304	S303	S304	S304
1.5–4.0 kg	5.0–12.0 kg	4.6–12.0 kg	1.9–7.4 kg	41 g or 69 g	10 g or 16 g	10 g or 16 g
0.1 MPa	0.3 MPa	0.1 MPa	30 kPa [0.03 MPa]	0.7 MPa	0.7 MPa	
*3	*3	*3	100°C [210°F]	*3	400°C [750°F]	400°C [750°F]
*3	*3	*3	90 dBA at 20 kPa ⁴	70–94 dBA	*3	75 dBA or 76 dBA
656–1,733 NL/min at 0.05 MPa		545–2,881 NL/min at 0.05 MPa	970–5,730 NL/min at 5 kPa	154–1,122 NL/min	736–1,016 NL/min	208–287 NL/min
<ul style="list-style-type: none"> • Long slit nozzle • Uniform impact distribution 		<ul style="list-style-type: none"> • No need to adjust slit opening after maintenance 	<ul style="list-style-type: none"> • Long slit nozzle using blower air • Minimal air use 	<ul style="list-style-type: none"> • Tip replaceable • Wide-angle flat blow pattern • Possible to use steam 	<ul style="list-style-type: none"> • Low cost, suitable for mass use • Suitable for use in tight spaces 	

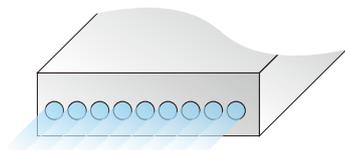
¹The blower type (nozzle using blower air) was measured at 30 kPa. ²Heat resistance depends on the pressure applied. ³Inquire with us.

⁴Value for slit length of 800 mm. ⁵When air flow regulator valve is set to Max.

Type of Nozzle Orifices

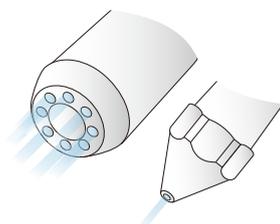
Flat Jet

Nozzle orifices are arranged in one row or multiple rows. TAIFUJet flat type (using compressed air) is designed with a staggered alignment of nozzle orifices and intake holes, which results in a uniform impact distribution.



Round Jet

Single or multiple orifices are arranged in a circle, producing a directed round blowing pattern.



Slit Jet

Wide flat blow or uniform sheet of air (like a curtain) is created from the thin slit nozzle orifice.

