

Newly developed

Mistrésa®

Filterless series (CRN type)

No need maintenance for a long term!

Application

Machine tools

NC lathes, general-purpose lathes, cylindrical grinders, inside grinders, milling machines, machining centers, electro-discharge machines, die-casting machines

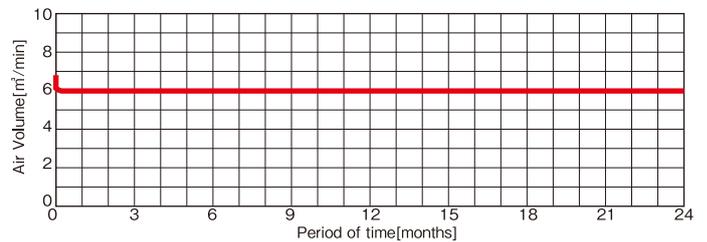
Other

Machines that generate mis

Features

1. Keep air volume in a long term

■ Elapsed graph of air volume (example: CRN-H07B)

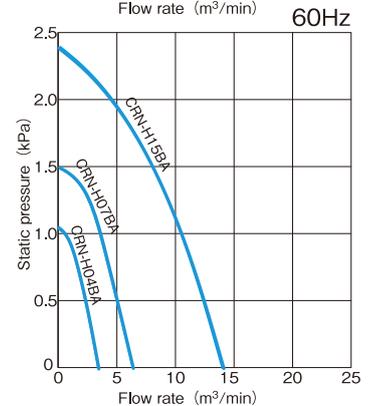
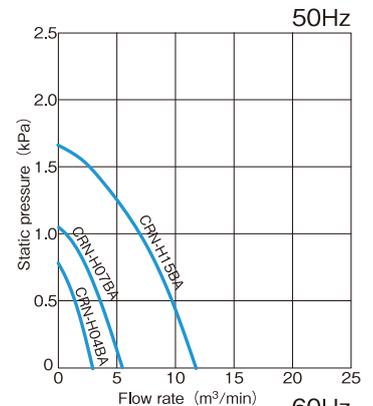


2. Free from filter or other waste!

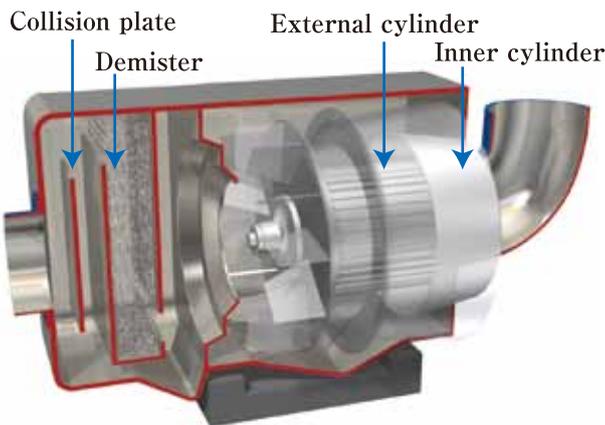
3. Global application

CE marking (Special order)

Performance curves



Internal Structure Diagram

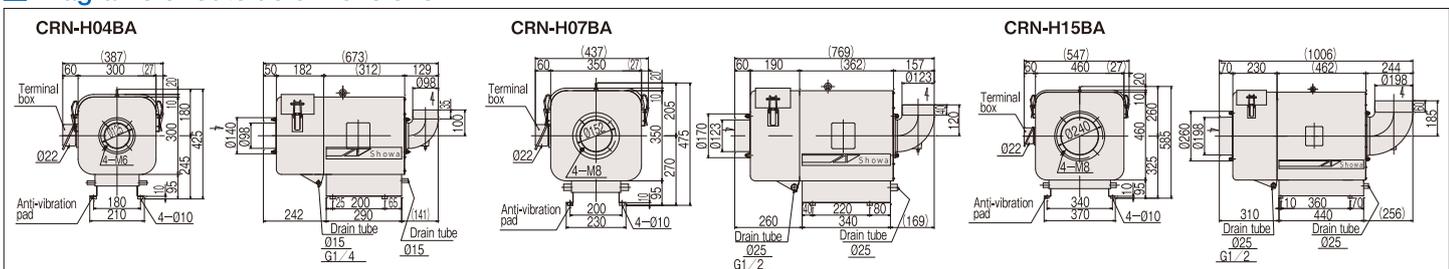


Standard specifications

Item	Model	CRN-H04BA	CRN-H07BA	CRN-H15BA
Power source		3-Phase 50Hz/60Hz Refer to the nameplate.		
Output (kW)		0.4	0.75	1.5
Frequency (Hz)		50/60/60	50/60/60	50/60/60
Maximum flow rate (m³/min)		2.9/3.4	5.5/6.4	11.8/13.9
Maximum static pressure (kPa)		0.75/1.05	1.05/1.50	1.65/2.40
Operating noise (1m from machine side; dB (A))		61/65	67/70	72/75
Collection efficiency (%)		99.2 (by weight : oil mist)		
Maximum intake air temperature (°C)		50		
Weight (kg)		31	41	74
Suction inlet diameter (mm)		Φ98	Φ123	Φ198
Ambient temperature (°C)		MAX.50		
Paint color		Main body: N8 (White); Box case: 2.5PB 3.5/10 (Blue)		
Standard accessories		Drain tubes (2.5m)2 Hose bands (for drain tube).....2 Crimp terminals (TMEV2Y-3.5).....7 Anti-vibration pads4	Mounting hole template1 Duct mating flange.....1 Bolts and nuts for attaching the duct mating flange.....1 set	

* Operating noise was measured according to JIS B8330 "Testing Methods For Turbo-Fans". Further, operating noise will vary depending on operating environment and operating conditions.

Diagrams of outside dimensions

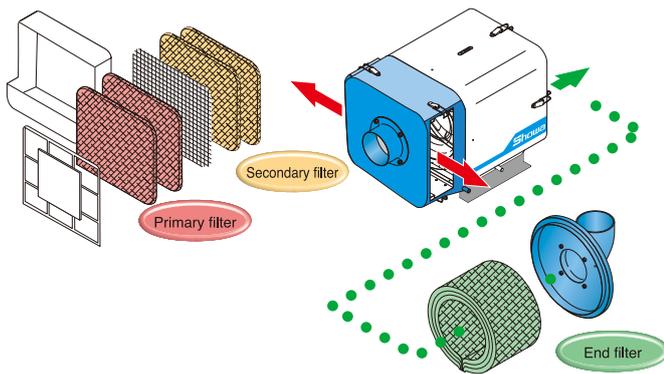


Mistresa® Mist- (dust-) handling series (CRD type)

Handles dust included in mist



Filter Structure



Application

Machine tools

NC lathes, general-purpose lathes, cylindrical grinders, inside grinders, milling machines, machining centers, electro-discharge machines, die-casting machines

Other

Machines that generate mist

Features

Also handles dust included in mists

Also handles the grinding dust (included in mist) generated by grinding machines and centerless grinders, so dust can be exhausted easily.



Simple, safe maintenance

Filter can be replaced without disconnecting the duct hose. In addition, since the rotating part (impeller) is not exposed, safety is ensured during maintenance.



Equipped with filter clogged indicator

The filter clogged indicator enables checking the filter clogged status during operation. (Can be mounted on either the left or right side.)

High collection efficiency

Achieves a mist collection efficiency of 99.8%.

Excellent motor performance

The motor which is used was developed within our company and has a protection class of IP65 (dust-tight, protected against water jets) to provide a worry-free design.

Equipped with motor burnout prevention terminal

To prevent burnout, a thermally reactive thermal protector is attached to the windings. Burnout can be prevented by connecting this terminal to the operating circuits of the motor relay.

Standard specifications

Item	Model	CRD-400RA	CRD-750RA	CRD-1500RA	CRD-2200RA
Power source		3-Phase 50Hz/60Hz		Refer to the nameplate.	
Output (kW)		0.4	0.75	1.5	2.2
Frequency (Hz)		50/60/60	50/60/60	50/60/60	50/60/60
Maximum flow rate (m ³ /min)		4.2/5.0	8.0/9.6	15/18	20/24
Maximum static pressure (kPa)		0.75/1.10	1.10/1.60	1.60/2.25	1.70/2.40
Operating noise (1m from machine side, dB (A))		59/63	64/68	70/74	71/75
Collection efficiency (%)		99.8 (by weight : oil mist)			
Maximum intake air temperature (°C)		50			
Weight (kg)		30	41	59	70
Suction inlet diameter (mm)		φ98	φ123	φ148	φ198
Ambient temperature (°C)		MAX.50			
Paint color		Main body: N8 (White); Side cover, etc.: 2.5PB 3.5/10 (Blue); Mounting stand: N-1 (Black)			
Standard accessories		Primary filter (for replacement) 1 Drain tubes (2.5m) 2 Hose bands (for drain tube) 2 Crimp terminals (TMEV2Y-3.5) 7 Anti-vibration pads 4		Mounting hole template 1 Duct mating flange, packing, and mounting bolts 1 set	

* Operating noise was measured according to JIS B8330 "Testing Methods For Turbo-Fans". Further, operating noise will vary depending on operating environment and operating conditions.

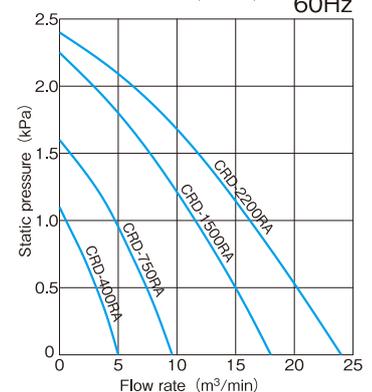
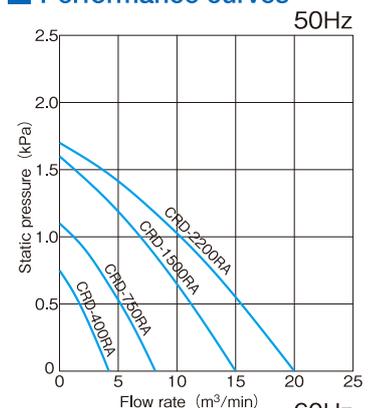
Consumables list

Product name		CRD-400RA	CRD-750RA	CRD-1500RA	CRD-2200RA
Primary/secondary filter set	Model	3K12-300R	3K12-350R	3K12-420R	3K12-460R
	Product code	10006491	10006498	10006501	10006505
End filter set	Model	3KE-175A	3KE-190A	3KE-235A	3KE-265A
	Product code	10002584	10002585	10002586	10003672

The primary/secondary filter set can be washed and reused.

● Please refer to dimensional outline drawing on page 6.

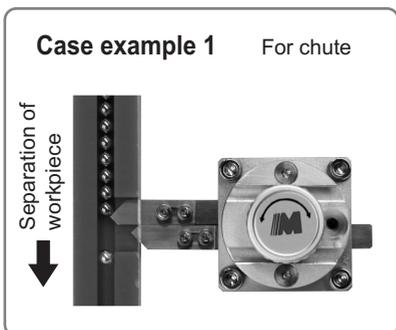
Performance curves



ESCAPEMENT (Escapement)

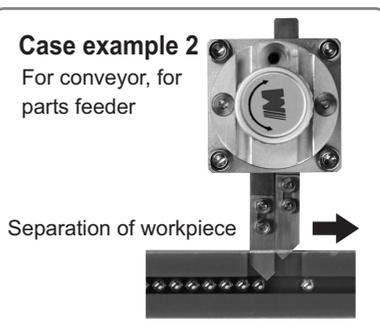
Model selection

Case example 1 For chute

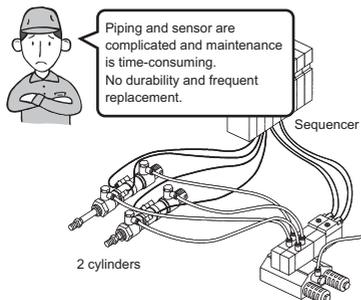


Case example 2

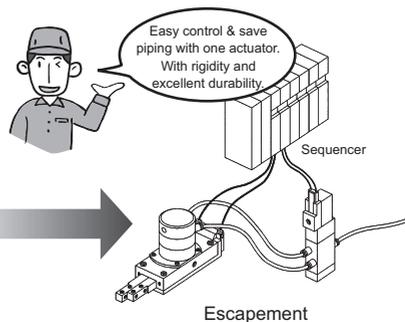
For conveyor, for parts feeder



Up until now



From now



Abundant lineups and wide range of applications

Perfect for small workpiece!

NEW



X9702A
Stroke: 5 mm



X9702B
Stroke: 5 mm



X9702C
Stroke: 5 mm

For large workpiece and pallet



X9706B
Stroke: 18 mm

Standard model with 30 years of actual achievement



X9703A
Stroke: 7 mm



X9704A
Stroke: 9 mm



X9705A
Stroke: 14 mm

■ Model list

Series	Model No.	Stroke	Drive		Maximum frequency	Mass	Sensor	Manual handle	Page
		(mm)	Air	External	(cpm)	(g)			
Micro 	X9702A 	5	×		180	106		×	B-4
	X9702B 	5	×		180	106	×	×	
	X9702C 	5		×	300	76			
Standard	X9703A 	7	×		40	250	×	×	B-10
	X9704A 	9	×		40	400	×	×	
	X9705A 	14	×		40	650	×	×	
High rigidity	X9706B 	18	×		120	550	×	×	B-16

Product specification list

Plate fan

Ideal for air that contains dust or powder

Blower that is ideal for moving air that contains dust or particles or for treating high-temperature dust-containing gas. Large-flow-volume/low-pressure P1 type and medium-pressure GP type are available.



Model	Outlet (height x width) (mm)	Intake (mm)	Flow volume (m ³ /min)	Output (kW)	Maximum intake air temperature (°C)		
					Standard type	Heat-resistant type	Heat-resistant type (air-cooled type)
P1V08	200×200	240	15-65	0.75-3.7	50	150	350
P1V10	250×250	300	20-100	0.75-5.5	50	150	350
P1V12	300×300	360	30-140	1.5-11	50	150	350
P1V14	350×350	420	50-200	2.2-11	50	150	350
P1V16	400×400	475	70-300	3.7-22	50	150	350
P1V18	600×365	600	100-370	5.5-30	50	150	350
P1V20	670×410	660	140-480	7.5-37	50	150	350
P1V22	730×450	750	150-540	11-37	50	150	350
P1V24	800×490	810	170-700	11-45	50	150	350
P1V28	930×570	940	170-980	18.5-75	50	150	350
GP-20	224×140	212	24-57	2.2-7.5	50	150	350
GP-25	250×160	236	36-77	3.7-11	50	150	350
GP-30	280×180	265	44-101	5.5-15	50	150	350
GP-35	315×200	300	68-124	5.5-18.5	50	150	350
GP-40	355×224	335	76-168	11-30	50	150	350
GP-45	400×250	375	100-209	15-37	50	150	350
GP-50	450×280	425	132-265	18.5-45	50	150	350

Axial flow fan with variable-pitch blades Kairyu

Blade attachment angle can be changed to achieve diverse capabilities.

Each blade is made individually with the ideal shape for an axial fan to achieve high efficiency and low drive noise. Low-drive-noise A1D type and high-pressure A2D type are available.



Model	Diameter (mm)	Output (kW)	Recommended flow volume (m ³ /min)	Static pressure (kPa)	Maximum intake air temperature (°C)	Schematic weight (kg)
A1D3	300	0.4	11-42	0.06-0.14	40	35
A1D4	400	0.4-0.75	16-102	0.14-0.24	40	50-55
A1D5	500	0.4-1.5	29-192	0.15-0.27	40	65-70
A1D6	630	0.75-5.5	39-410	0.25-0.44	40	90-120
A1D7	710	1.5-11	42-546	0.37-0.61	40	155-225
A1D8	800	1.5-5.5	46-604	0.24-0.36	40	190-225
A1D9	900	2.2-11	54-818	0.28-0.49	40	280-370
A1D10	1000	2.2-15	67-1017	0.28-0.52	40	310-460
A2D3	300	0.4-1.5	21-83	0.24-0.54	40	35-40
A2D4	400	0.75-3.7	31-176	0.56-0.87	40	55-70
A2D5	500	1.5-7.5	59-319	0.59-1.06	40	70-105
A2D6	630	3.7-18.5	78-610	1.03-1.58	40	105-175
A2D7	710	5.5-30	85-776	1.47-1.71	40	180-350
A2D8	800	2.2-18.5	68-850	0.44-0.81	40	185-350
A2D9	900	3.7-30	80-1194	0.61-1.09	40	280-470
A2D10	1000	3.7-45	100-1469	0.63-1.16	40	310-580

Abnormality detector for rotating equipment

Troubleresa II

Continually monitors 4 conditions (vibration value trends, bearing temperature trends, V-belt breakage monitoring, grease supply timing) to prevent malfunctions of blowers, etc.



Model	FCM-BM2 (Monitoring Software)
Features	Can be connected to up to 100 slave units Separate Windows PC required. (Windows 7, Windows 8 compatible) Frequency of data saving can be set to 5 intervals: 1 minute, 5 minutes, 10 minutes, 30 minutes, 60 minutes 9 types of units can be displayed. Up to 5 additional user-defined units can be set.
Model	Slave unit
Voltage	AC100~240V 50/60Hz
Measurement points	8 channels (0 to 5V/4 to 20mA (switchable): 6 points; Temperature: 2 points)
Ambient temperature	-10~+50°C
Outside dimensions	D280×W190×H100mm(Excluding projections)
Weight	Approx. 1.5kg

Environmental equipment

Collects mists generated by machine tools

Mist collector *Mistrésá*

Filterless series (CRN type)

Long intervals between periodic maintenance



Model	Intake flange outside diameter (mm)	Phase	Output (kW)	50Hz		60Hz		Collecting efficiency (%)	Schematic weight (kg)
				Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)	Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)		
CRN-H04BA	φ98	3	0.4	2.9	0.75	3.4	1.05	99.2	31
CRN-H07BA	φ123	3	0.75	5.5	1.05	6.4	1.50	99.2	41
CRN-H15BA	φ198	3	1.5	11.8	1.65	13.9	2.40	99.2	74

Mist (dust) compatible series (CRD type)

Capable of handling dust contained in mists.



Model	Intake flange outside diameter (mm)	Phase	Output (kW)	50Hz		60Hz		Collecting efficiency (%)	Schematic weight (kg)
				Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)	Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)		
CRD-400RA	φ98	3	0.4	4.2	0.75	5.0	1.10	99.8	30
CRD-750RA	φ123	3	0.75	8.0	1.10	9.6	1.60	99.8	41
CRD-1500RA	φ148	3	1.5	15	1.60	18	2.25	99.8	59
CRD-2200RA	φ198	3	2.2	20	1.70	24	2.40	99.8	70

High-temperature mist compatible series (CRH type)

Capable of handling high-temperature mists from parts washers.



Model	Intake flange outside diameter (mm)	Phase	Output (kW)	50Hz		60Hz		Collecting efficiency (%)	Schematic weight (kg)
				Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)	Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)		
CRH-100TA	φ98	3	0.2	2.1	0.30	2.4	0.42	99.4	13
CRH-200TA	φ98	3	0.2	2.7	0.50	3.2	0.73	99.4	20
CRH-04TA	φ98	3	0.4	4.8	0.82	5.7	1.18	99.4	26
CRH-07TA	φ123	3	0.75	7.6	1.05	9.2	1.48	99.4	37
CRH-15TA	φ148	3	1.5	13.6	1.47	16	2.08	99.4	57

The final character in the model number indicates the type of motor protection. T: Fully enclosed fan type; E: Increased safety explosion-proof type

High air volume type (CRL-2200)

Large-flow-volume type for handling mists from open-type machining centers.



Model	Intake flange outside diameter (mm)	Phase	Output (kW)	50Hz		60Hz		Collecting efficiency (%)	Schematic weight (kg)
				Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)	Maximum flow volume (m ³ /min)	Maximum static pressure (kPa)		
CRL-2200	φ200	3	2.2	30	1.80	30	1.80	98.0	174

Wind Bag (WB-200)

Versatile product for air-blowing, cooling, and drying applications

Portable fan suitable for diverse applications (cooling, drying, circulating).



Model	Phase	Output (kW)	Maximum flow volume (m ³ /min)		Maximum intake air temperature (°C)	Schematic weight (kg)
			50Hz	60Hz		
WB-200	Single	0.2	9.0	10.5	40	9.5

Dust collector

Collects dust at factories and other work places.

Dust collector Dustresa

Compact series (CFA type)

Low-drive-noise, space-conserving dust collector



Model	Shaking method	Intake flange outside diameter (mm)	Phase	Output (kW)	Flow volume (m ³ /min) 50/60Hz	Static pressure (kPa) 50/60Hz	Filter surface area (m ²)	Dimensions (mm)			Schematic weight (kg)
								Depth	Width	Height	
CFA-110	None	75	Single	0.2	4	0.8/1.18	0.8	405	380	570	25
CFA-215SC	Manual mechanism	75	Single	0.4	5	1.57	1.5	452	492	744	47
CFA-215ST	Manual mechanism	75	3	0.4	5	1.57	1.5	452	492	744	47
CFA-220S	Manual mechanism	97	3	0.75	8	1.96	2	452	492	744	55
CFA-240S	Manual mechanism	148	3	1.5	16	2.35	4	681	636	1228	135
CFA-410	Manual mechanism	198	3	2.2	30	2.45	10.6	680	786	1462	182
CFA-515	Manual mechanism	225	3	3.7	40	2.45	14.1	750	876	1612	240

Compact pulse-jet series (CFM type)

Pulse-jet-type dust collector with compact design and low drive noise



Model	Shaking method	Intake flange outside diameter (mm)	Phase	Output (kW)	Flow volume (m ³ /min) 50/60Hz	Static pressure (kPa) 50/60Hz	Filter surface area (m ²)	Dimensions (mm)			Schematic weight (kg)
								Depth	Width	Height	
CFM-10R	Pulse	150	3	1.5	20	1.96	10.4	720	650	1450	179
CFM-20R	Pulse	200	3	2.2	30	2.45	15.6	720	870	1410	218
CFM-30R	Pulse	225	3	3.7	40	2.45	23.4	1000	870	1495	281
CFM-40R	Pulse	250	3	5.5	60	2.45	31.2	1060	1160	1640	392

Movable open series

Movable open-filter-type dust collector



Model	Shaking method	Intake flange outside diameter (mm)	Phase	Output (kW)	Flow volume (m ³ /min) 50/60Hz	Static pressure (kPa) 50/60Hz	Filter surface area (m ²)	Dimensions (mm)			Schematic weight (kg)
								Depth	Width	Height	
CFO-2200	None	148	3	2.2	28/35	1.08/1.57	4	987	630	2600	90

Fume collector Fumeresa

For collecting fumes and odors.

Collects the fumes and odors generated by laser markers, etc.



Model	Shaking method	Intake flange outside diameter (mm)	Output (kW)	Static pressure (kPa) 50/60Hz	Filter surface area (m ²)	Dimensions (mm)			Schematic weight (kg)
						Depth	Width	Height	
CKU-050-ACC	None	65	0.05	2.0	1.35	264	264	515	17.5
CKU-060AT2-ACC	None	65	0.15	2.4	1.80	264	264	515	21.5
CBA-1000AT2-HC-DSA-V1	Automatic shaking	75	0.45	3.2	9.50	404	360	491	31.0