

PROPOSALS FOR CREATING A PLEASANT WORKPLACE ENVIRONMENT



For collecting dust generated by production equipment



PAGE 9-10



For collecting mist generated by machine tools

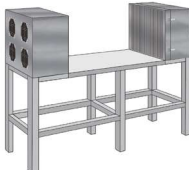


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Push-pull type ventilation system



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For distributing stable air flow long distances and even temperatures

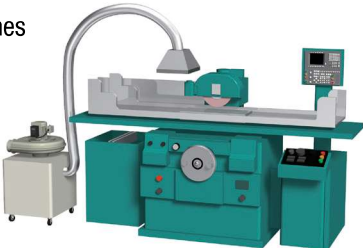


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Others



Mist & Dust Collector for Grinding / Polishing Machines



PAGE 5



Working table with Dust collectors



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Fume collection during laser marking



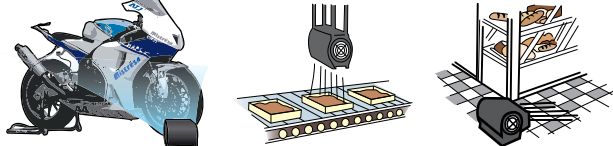
Fume collection during welding



PAGE 12



All-purpose for blowing, cooling and drying



PAGE 13

CHOOSE THE RIGHT MODEL FOR YOUR APPLICATION

CRM - H04 F

1

2

3

- 1 Series : CRM (Standard type) , CRMH (High temperature mist type (up to 80°C))
- 2 Output : H02(0.2kW), H04(0.4kW), H07(0.75kW), H15(1.5kW), H22(2.2kW)
- 3 Internal structure : F(Filter type), D(Demister type)

WATER-SOLUBLE MIST

D type (Demister type)

Ex : CRM-H□□D



FRONT
DEMISTER

Handles water-soluble mist.
No maintenance required.
For light mist.
Unsuitable for dust.



water-soluble
mist

low



Maintenance
easy

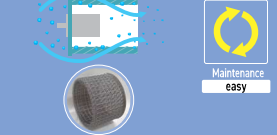
END
DEMISTER

Handles water-soluble mist.
No maintenance required.
For light mist.
Unsuitable for dust.



water-soluble
mist

low

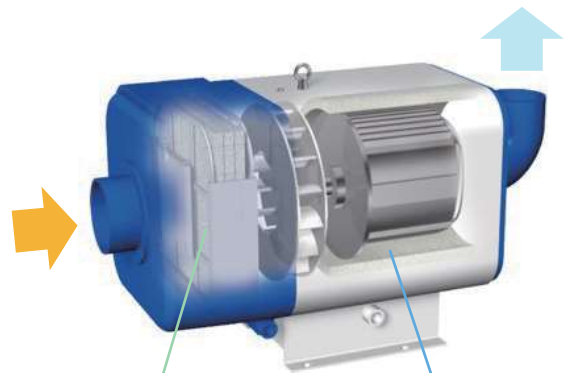


Maintenance
easy

OIL MIST

F type (Filter type)

Ex : CRM-H□□F



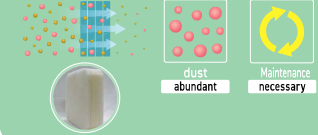
FRONT
FILTER

Handles mist containing dust
(chip fragments). Washable.
Requires replacement when
clogged.



oil mist

abundant



dust

abundant

Maintenance
necessary

END
FILTER

Catches fine oil mist
that was previously missed.
Not washable.



oil mist

abundant



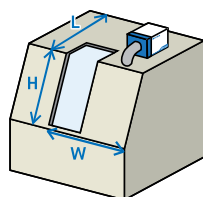
Maintenance
necessary

CHOOSE BY WORKING CHAMBER VOLUME

If the mist source
is covered

Working chamber volume (m³)
= W × L × H

Airflow volume (m³/min)
= Working chamber volume × test coefficient^{*1}



W: Working chamber width (m)

L: Working chamber length (m)

H: Working chamber height (m)

^{*1} Test coefficient

If door is open at least 15 sec. after work is complete: 4

If door is open at least 10 sec. after work is complete: 6

If door is open in less than 10 sec. after work is complete: 8

Contact us for more information if the mist source is exposed.

For more details



<https://www.sdg-eng.com>

SPECIFICATION

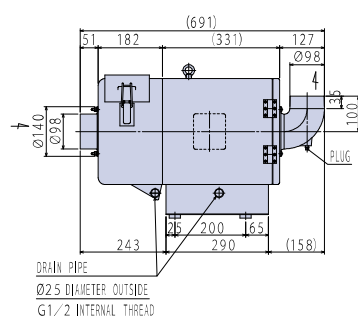
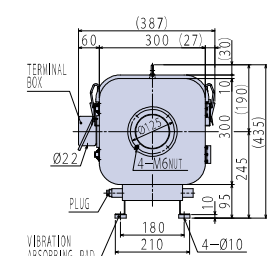
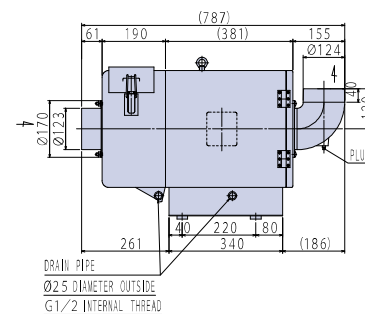
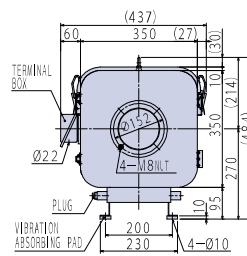
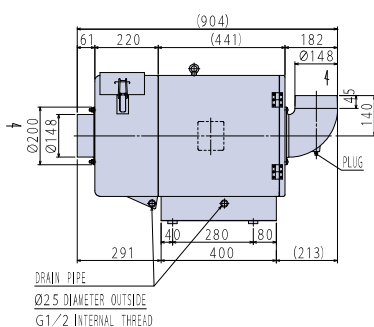
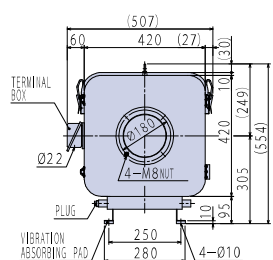
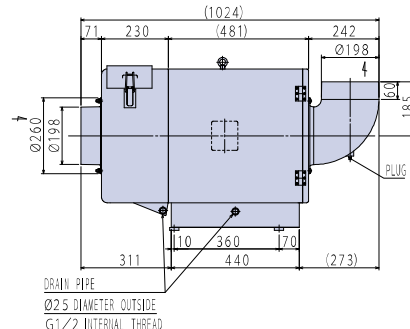
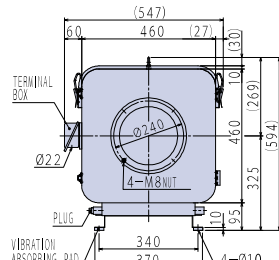
Model CRM-H□□□		Output (kW)	Power Supply*	Frequency(Hz) Current(A)	50Hz		60Hz		Collection Efficiency (%)	Max. Intake Temperature (°C)	Noise (dB(A)) 50/60Hz	Approx. Weight (kg)
					Max. Airflow (m³/min)	Max. Static Pressure (kPa)	Max. Airflow (m³/min)	Max. Static Pressure (kPa)				
CRM-H02	D	0.2	Three Phase 50Hz : 200V 60Hz : 200V/ 220V	50/60/60	5.4	0.55	6.2	0.8	99.2	50	64/67	27
	F			1.6/1.3/1.3	4.3	0.5	5.1	0.7	99.8		57/62	
CRM-H04	D	50/60/60		6	0.75	7	1.1	99.2	68/72		33	
	F	2.0/2.0/2.0		4.6	0.7	5.6	1	99.8	63/67			
CRM-H07	D	0.75		50/60/60	10	1.1	12	1.6	99.2		73/78	43
	F			3.0/3.3/3.3	7.6	1.05	9.2	1.5	99.8		69/76	
CRM-H15	D	1.5		50/60/60	18	1.6	21.5	2.3	99.2		81/83	67
	F			6.9/7.0/7.0	14.5	1.5	17.5	2.15	99.8		74/77	
CRM-H22	D	2.2		50/60/60	24.5	1.7	28.5	2.4	99.2		83/86	78
	F			10.2/10.4/10.4	18	1.55	21	2.25	99.8		76/79	

* Can change to another voltage: up to 480 V 50/60 Hz

Mistresa Model	Compatible Type	Compatible Model
CRM-H02D	Front Demister	3KFD-H04S
CRM-H04D	End Demister	3KED-H04D
CRM-H07D	Front Demister	3KFD-H07S
	End Demister	3KED-H07D
CRM-H15D	Front Demister	3KFD-H15S
	End Demister	3KED-H15D
CRM-H22D	Front Demister	3KFD-H22S
	End Demister	3KED-H22D

Mistresa Model	Compatible Type	Compatible Model
CRM-H02F	Front Filter set	3KFF-H04S
CRM-H04F	End Filter	3KEF-H04F
CRM-H07F	Front Filter set	3KFF-H07S
	End Filter	3KEF-H07F
CRM-H15F	Front Filter set	3KFF-H15S
	End Filter	3KEF-H15F
CRM-H22F	Front Filter set	3KFF-H22S
	End Filter	3KEF-H22F

OUTLINE DRAWING

CRM-H02 ☐CRM-H04 ☐CRM-H07 ☐CRM-H15 ☐CRM-H22 ☐



Choose between a filter (F type) or a demister (D type) option based on your usage environment.

SPECIFICATION

Model CRMH-H□□□		Output (kW)	Power Supply*	Frequency(Hz) Current(A)	50Hz		60Hz		Collection Efficiency (%)	Max. Intake Temperature (°C)	Noise (dB(A)) 50/60Hz	Approx. Weight (kg)	
					Max. Airflow (m³/min)	Max. Static Pressure (kPa)	Max. Airflow (m³/min)	Max. Static Pressure (kPa)					
CRMH-H04	D	0.4	Three Phase 50Hz : 200V	50/60/60	6	0.75	7	1.1	99.2	80	68/72	33	
	F			2.0/2.0/2.0	4.6	0.7	5.6	1	99.8		63/67		
CRMH-H07	D	0.75		50/60/60	10	1.1	12	1.6	99.2		73/78	43	
	F			3.0/3.3/3.3	7.6	1.05	9.2	1.5	99.8		69/76		
CRMH-H15	D	1.5		60Hz : 200V/ 220V	50/60/60	18	1.6	21.5	2.3		99.2	81/83	67
	F				6.9/7.0/7.0	14.5	1.5	17.5	2.15		99.8	74/77	
CRMH-H22	D	2.2	50/60/60		24.5	1.7	28.5	2.4	99.2		83/86	78	
	F		10.2/10.4/10.4		18	1.55	21	2.25	99.8		76/79		

* Can change to another voltage; up to 480 V 50/60 Hz

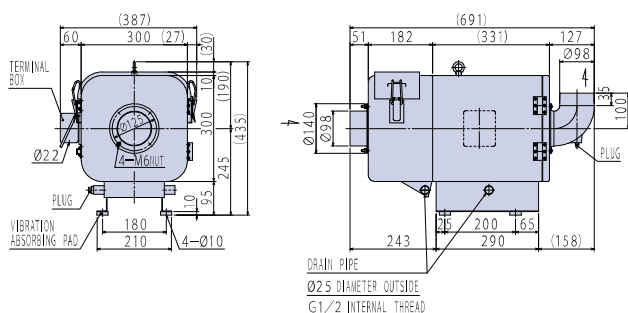
CONSUMABLE PARTS LIST

Mistresa Model	Compatible Type	Compatible Model
CRMH-H04D	Front Demister	3KFD-H04S
	End Demister	3KED-H04D
CRMH-H07D	Front Demister	3KFD-H07S
	End Demister	3KED-H07D
CRMH-H15D	Front Demister	3KFD-H15S
	End Demister	3KED-H15D
CRMH-H22D	Front Demister	3KFD-H22S
	End Demister	3KED-H22D

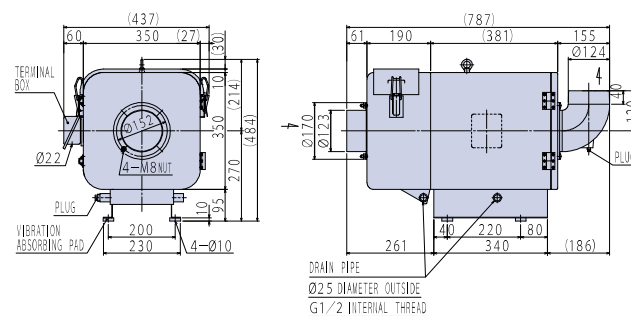
Mistresa Model	Compatible Type	Compatible Model
CRMH-H04F	Front Filter set	3KFF-H04S
	End Filter	3KEF-H04F
CRMH-H07F	Front Filter set	3KFF-H07S
	End Filter	3KEF-H07F
CRMH-H15F	Front Filter set	3KFF-H15S
	End Filter	3KEF-H15F
CRMH-H22F	Front Filter set	3KFF-H22S
	End Filter	3KEF-H22F

OUTLINE DRAWING

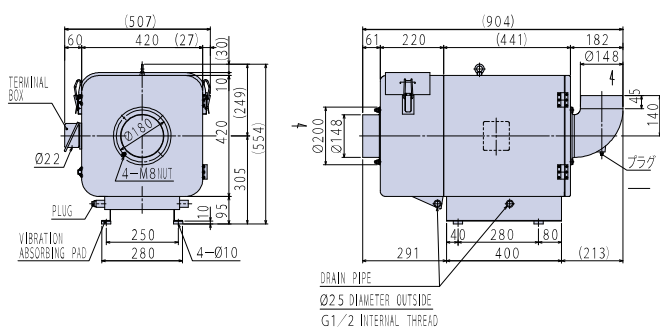
CRMH-H04□



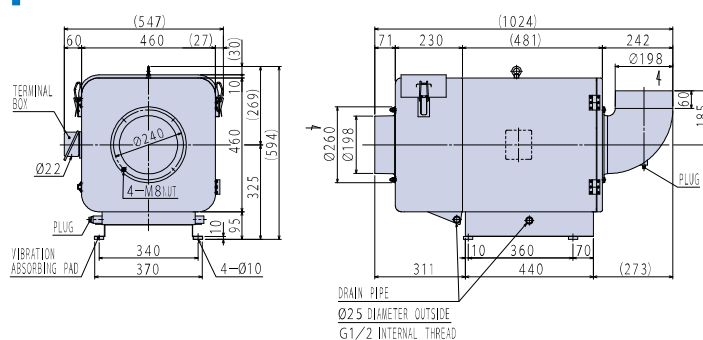
CRMH-H07□



CRMH-H15□



CRMH-H22□





PARTS WASHER



*Explosion-proof Japanese regulation only

SPECIFICATION

Model	Output (kW)	Power Supply*	Frequency(Hz) Current(A)	50Hz		60Hz		Collection Efficiency (%)	Max. Intake Temperature (°C)	Noise (dB(A)) 50/60Hz	Approx. Weight (kg)
				Max.Airflow (m³/min)	Max.Static Pressure (kPa)	Max.Airflow (m³/min)	Max.Static Pressure (kPa)				
CRH-100E	0.2	Three Phase 50Hz 200V 60Hz 200V/220V	50/60/60 1.2/1.1/1.0	2.1	0.3	2.4	0.42	99.4	80	56/60	13
CRH-200E	0.2		50/60/60 1.2/1.1/1.0	2.7	0.5	3.2	0.73	99.4	80	59/63	20
CRH-04E	0.4		50/60/60 2.0/1.8/1.7	4.8	0.82	5.7	1.18	99.4	80	58/64	26
CRH-07E	0.75		50/60/60 3.3/3.1/2.8	7.6	1.05	9.2	1.48	99.4	80	63/66	37
CRH-15E	1.5		50/60/60 6.2/5.8/5.4	13.6	1.47	16	2.08	99.4	80	68/72	57

* Can change to another voltage; up to 480 V 50/60 Hz

CONSUMABLE PARTS LIST

Mistresa Model	Compatible Type	Compatible Model
CRH-100E	Primary Filter	3K1-170A
	Secondary Filter	3K2-130B
	Tertiary Filter	3K3-715A
	End Filter	3K4-180A
CRH-200E	Primary Filter	3K1-170A
	Secondary Filter	3K2-133A
	Tertiary Filter	3K3-270A
	End Filter	3K4-240A

Mistresa Model	Compatible Type	Compatible Model
CRH-04E	Primary & Secondary Filter Set	3K12-300R
	End Filter	3K4-240A
CRH-07E	Primary & Secondary Filter Set	3K12-350R
	End Filter	3K4-315A
CRH-15E	Primary & Secondary Filter Set	3K12-420R
	End Filter	3K4-400A



MACHINING CENTER



SPECIFICATION

Model	Output (kW)	Power Supply	Frequency(Hz) Current(A)	50Hz		60Hz		Collection Efficiency (%)	Max. Intake Temperature (°C)	Noise (dB(A)) 50/60Hz	Approx. Weight (kg)
				Max.Airflow (m³/min)	Max.Static Pressure (kPa)	Max.Airflow (m³/min)	Max.Static Pressure (kPa)				
CRL-H22	2.2	* Three Phase 50Hz 200V 60Hz 200V/220V	50/60/60 8.5/9.2/8.4	30	1.8	30	1.8	98	40	69	174

* Can change to another voltage; up to 480 V 50/60 Hz

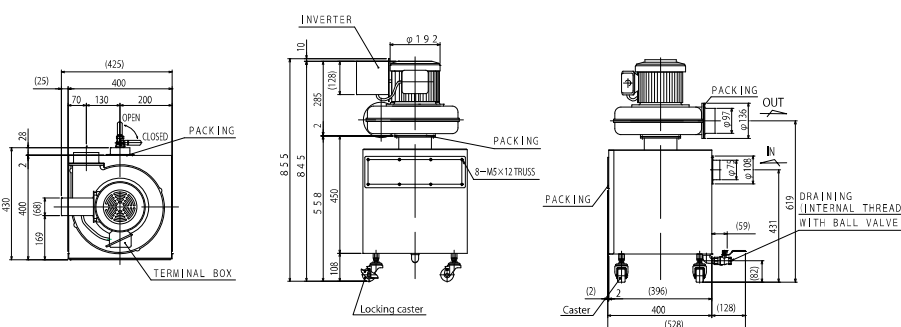


GRINDING MACHINES



SPECIFICATION

Model	Suction flange External diameter (mm)	Phase	Poles (P)	Output (kW)	Current (A)	50Hz		60Hz		Max. air Intake Temperature (°C)	Noise (dB (A))	Dust Collection Capacity (L)	Approx. Weight (kg)
						Max. Airflow (m³/min)	Max. Static Pressure (kPa)	Max. Airflow (m³/min)	Max. Static Pressure (kPa)				
GRM-H04T	φ75	Three	2	0.4	2.3/2.3/2.1	8.3	1.25	9.8	1.75	40	71	11.8	37

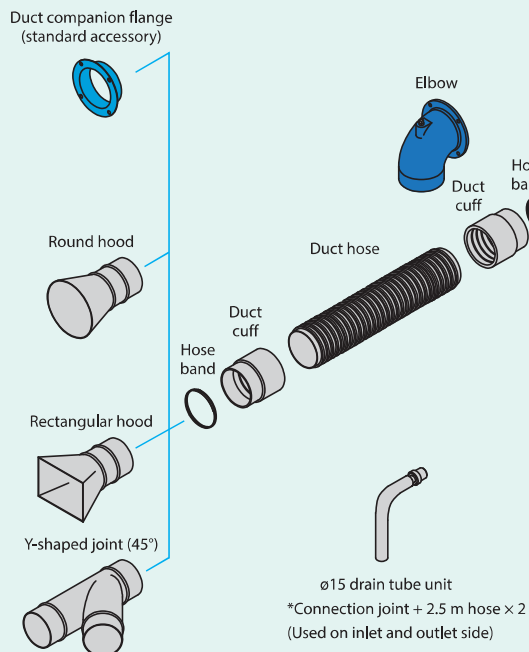


STANDARD OPTION PARTS

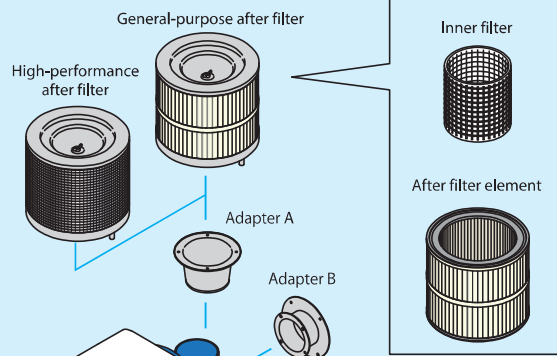
For more details



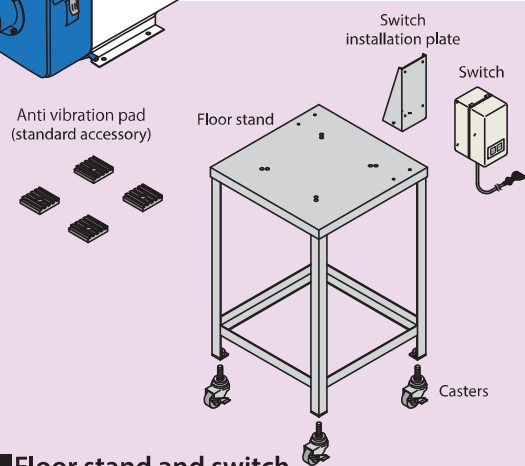
Intake side



Discharge side

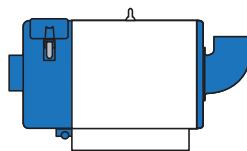


Floor stand and switch

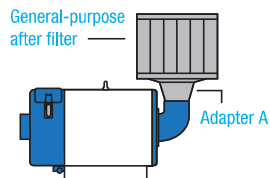


CAN BE COMBINED WITH EFFECTIVE AFTER-FILTER AND OTHER OPTIONS.

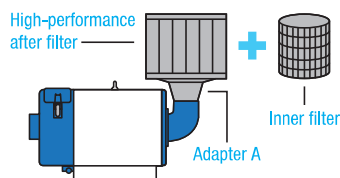
1 In standard configuration



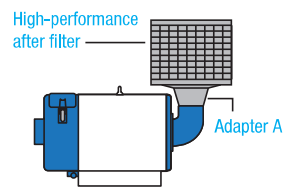
2 When there is a lot of water-soluble/oil mist



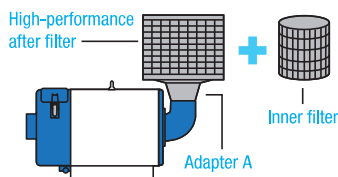
3 When there is more water-soluble/oil mist than in case 2 and there is leakage from the after filter



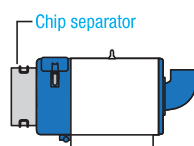
4 When soot is generated



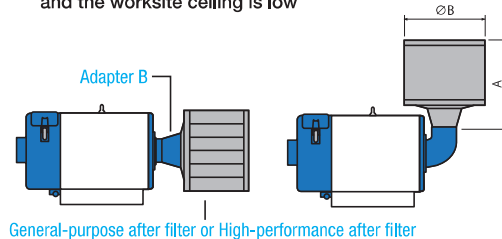
5 When soot is generated in large quantities



6 When the collected mist includes large quantities of dust or chip fragments



7 When there is a lot of water-soluble or oil mist, and the worksite ceiling is low

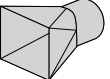
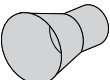


※ When using an after filter, we recommend the Mist Collector filter type (CRM-F).

Model	3AF-10A/E	3AF-20A/E	3AF-30A	3AF-30E	3AF-40E	3AF-41E
A	345	475	635	610	515	625
ØB	360	360	360	360	400	400



OPTION PARTS TABLE (Applicable modes indicated by "●")

Option Parts	Detail	Product Code	Model	CRM・CRMH					CRH				
				H02	H04	H07	H15	H22	100T/E	200T/E	04E	07E	15E
Rectangular hood 	Attaches to the end of the duct hose to efficiently suction mist, etc.	10002631	3S-100	●	●				●	●	●		
Round hood 		10002632	3S-125			●						●	
		10002633	3S-150				●						●
		10003699	3S-200					●					
		10002646	3R-100	●	●				●	●	●		
		10002647	3R-125			●						●	
		10002648	3R-150				●						●
10003700	3R-200					●							
Y-shaped joint 	Use when suctioning from two locations.	10002640	3Y-100	●	●				●	●	●		
10002641		3Y-125			●						●		
10002642		3Y-150				●						●	
10003701		3Y-200					●						
Elbow*1 	Attach on the Mistresa or machine tool side to connect the duct hose.	10002643	3E-100	●	●				●	●	●		
10002644		3E-125			●						●		
10002645		3E-150				●						●	
10003703		3E-200					●						
Duct mounting flange*1 	Attach on the Mistresa or machine tool side to connect the duct hose.	10013028	3T-100C	●	●				●	●	●		
10013029		3T-125F			●						●		
10013030		3T-150F				●						●	
10013031		3T-200C					●						
Duct hose (in 1 m units)  Please contact us for lengths exceeding 1 meter.	Use for water-soluble mist with low oil content.	61600300	3DH-100P	●	●				●	●	●		
Oil-resistant duct hose (in 1 m units)  Please contact us for lengths exceeding 1 meter.		61600305	3DH-125P			●						●	
		61600310	3DH-150P				●						●
		61600315	3DH-200P					●					
Oil-resistant duct hose (in 1 m units)  Please contact us for lengths exceeding 1 meter.	Use for oil mist, or any gases with high oil content. Reduces hardening caused by oil.	61600320	3DHT-100P	●	●				●	●	●		
		61600325	3DHT-125P			●						●	
		61600330	3DHT-150P				●						●
		61600335	3DHT-200P					●					
Duct cuff*2 	Installing dust cuffs on duct hoses helps to reduce oil leaks.	63540017	3DC-100P	●	●				●	●	●		
63540018		3DC-125P			●							●	
63540019		3DC-150P				●							●
63540020		3DC-200P					●						
Hose band 	Tightens and secures duct hoses and duct cuffs.	92170083	3HB-100P	●	●				●	●	●		
92170092		3HB-125P-1			●							●	
92170085		3HB-150P				●							●
92170086		3HB-200P					●						
Chip separator 	Use when there are a lot of chips present.	10002623	3CS-100	●	●				●	●	●		
10002624		3CS-125			●							●	
10002625		3CS-150				●							●
General-purpose after filter*3 	Use for thick mist or oil mist. Requires a separately available adapter.	10003619	3AF-10A	●	●				●	●	●		
		10003606	3AF-20A			●						●	
		10003608	3AF-30A				●						●
High-performance after filter*3*4 	Use for oil mist or soot. Requires a separately available adapter.	10007330	3AF-10E	●	●				●	●	●		
		10007331	3AF-20E			●						●	
		10007332	3AF-30E				●						●
		10007333	3AF-40E				●						●
		10007340	3AF-41E					●					

*1 The elbow comes with a gasket. The duct mounting flange and adapter B come with a gasket and bolts. Standard color: blue. Please contact us if white color is required.

*2 Use a bonding agent or liquid packing to prevent oil leakage in the threaded sections of the duct hose and duct cuff.

*3 3AD adapter required when using a 3AF after filter. (The 3AF-41E installs directly on the discharge port elbow, so the 3AD adapter is not required.)

*4 Use 3EF-40E for the 3AF-40E and 3AF-41E replacement filter element. 3AF-40E is a longer-lasting type with a larger filter area than 3AF-30E.

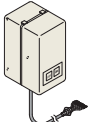
*5 Inner filters cannot be used on their own. Use the inner filter compatible with the after filter that you are using.

3IF-30A is for 3AF-30A, 3IF-30C is for 3AF-30E, 3IF-40S is for 3AF-40E, and 3IF-40 is for 3AF-41E.

*6 The CRH-E type uses a safety-enhancing explosion proof motor, but the switch is not an explosion-proof type.

3SW-020-S is designed for CRH models and does not include a thermal sensor cable.


OPTION PARTS TABLE (Applicable modes indicated by “●”)

Option Parts	Detail	Product Code	Model	CRM·CRMH					CRH				
				H02	H04	H07	H15	H22	100T/E	200T/E	04E	07E	15E
 Inner filter*5	Install inside the after filter to extend the life of the after filter.	10003677	3IF-10	●	●				●	●	●		
		10003678	3IF-20			●						●	
		10003679	3IF-30A				●						●
		10003680	3IF-30C				●						●
		10006560	3IF-40S				●						●
		10003681	3IF-40					●					
 Adapter A	Adapter for installing an after filter. (When there is an elbow)	10002603	3AD-100	●	●				●	●	●		
		10002604	3AD-125			●						●	
		10002605	3AD-150				●						●
 Adapter B*1	Adapter for installing after filter. (When there is no elbow)	10012707	3AD-100V	●	●				—				
		10012708	3AD-125V			●							
		10012709	3AD-150V				●						
		10012710	3AD-200V					●					
 General-purpose after filter element	A replacement filter.	10003633	3FE-10A	●	●				●	●	●		
		10003635	3FE-20A			●						●	
		10003637	3FE-30A				●						●
 High-performance after filter element*4	A replacement filter.	10007336	3FE-10E	●	●				●	●	●		
		10007337	3FE-20E			●						●	
		10007338	3FE-30E				●						●
		10007339	3FE-40E				●	●					●
 Replacement filter for inner filter*5	A replacement filter.	10003683	3IFK-10	●	●				●	●	●		
		10003684	3IFK-20			●						●	
		10003685	3IFK-30A				●						●
		10003686	3IFK-30C				●						●
		10006561	3IFK-40S				●						●
		10003687	3IFK-40					●					
 Switch (with 3 m cord)*6	Dedicated switch for Mistresa (built-in thermal relay prevents motor burnout).	10014347	3SW-020-S						●*6	●*6			
		10014348	3SW-020B-S	●									
		10014349	3SW-040-S		●						●*6		
		10014350	3SW-075-S			●						●*6	
		10014351	3SW-150-S				●						●*6
		10014352	3SW-220-S					●					
 Switch mounting plate	Use for installing to a floor stand.	10014353	3TS-2-S	●	●	●	●	●	●	●	●	●	●
 Floor stand	Dedicated stand for Mistresa.	10002612	3BD-2	●	●	●			●	●	●	●	
		10002613	3BD-3				●	●					●
 Floor stand casters	A set of four.	10002943	3CK-50	●	●	●	●	●	●	●	●	●	●
 φ15 drain tube unit	Use when connecting a drain tube with an inner diameter of φ15 mm.	10012751	3DC-15	●	●	●	●	●	—				