Non-filter oil mist collector

Electrostati oil mist collector

Filter oil mist collector

Option

Auto-cleani

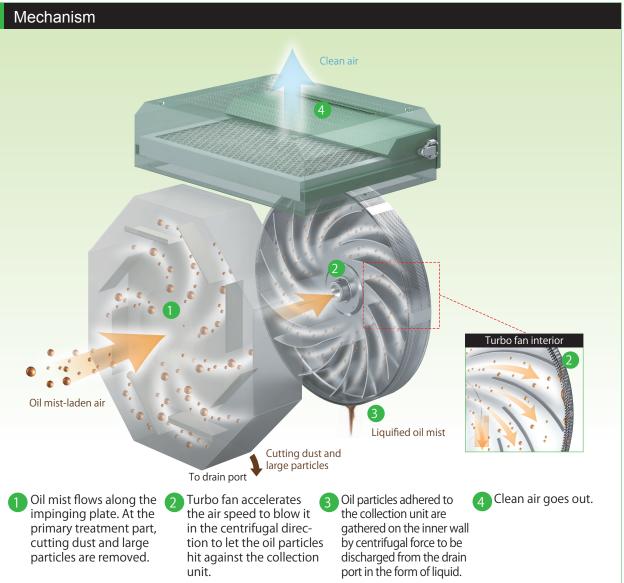
Non-filter oil mist collector **OMC-N2 series**

Structure & mechanism '

Original technology enabled high collection rate with no filter









then rotates along the inner wall of the primary

from the air during this process.

treatment part. Large particles and dust are separated



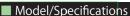
Non-filter oil mist collector

Non-filter Oil mist collector

Industry-leading collection efficiency as a non-filter unit







	, орсеньев				
Model		OMC-N20	5	OMC-N205H	
Max. airflow *1		4.5 \(\sum 5 \text{m}^3 \text{/min} \)			
Max. static pressure*1		0.59 / 0.85kPa			
Collection efficiency		99% or more	(2µm or larger)	99% or more (1µm or larger)
Rated voltage		3-phase, 200VAC, 50Hz/200-220V, 60Hz			
Motor output rating		0.4kW (2P)			
Motor efficiency *2		76.0/76.0-77.0%			
Current consumption *1		1.9/1.7 -1.7A			
Working temperature		0 to +40°C			
Max. working humidity		85%RH, free from condensation			
Noise		66/70dB (A)			
Max. suction air temp.		+80℃			
0 (EMC directive	EMI:EM61000-6-4 EMS:EN61000-6-2			
Confor- mity	EMD	EN ISO/12100: 2010	EN60204-1: 2006+A1	2009 Overvoltage category II, Pollution	n level 3
	Environment	RoHS			
Suction port diameter		φ98mm			
Paint color		Powder coating, Ivory (10GY9/1 equivalent) and Light green (10GY8/4 equivalent)			
Weight		25.0kg			
Drain port		φ31 pipe			
Standard accessory		$2m \phi 32$ drain hose, 1 drain hose band, 4 anti-bibration rubber, 1 maintenance sticker, 1 instruction manual			

- *1 Rated value in 25°C air temperature
- *2 Efficiency value in a motor single body

- Be sure to read the instuction manual carefully before use.
 This product is intended for collecting general watersoluble and oil mist that generates during production process using various machine tools. Never have it inhale the following substances.
- Ignition sources and fire sparks generated in machine processing Flammable substances such as gasoline, thinner, benzin, kerosene and others as well as oil and cleaning liquid with an ignition point 80 degrees C or below,
 - Explosive substances such as aluminium, magnesium and titan as well as
- materials ridden with those substances,
 Flammable liquid, mist and materials ridden with these substances,
- Corrosive and adhesive substances and hazardous gas or air with a lot of unusual
- substances Dust
- Hot air exceeding 80 deg. C.
- Large amount of liquid
 Substances that remarkably accelerate rusting of metals or againg of plastics

- This product should not be used in an atmosphere which contains chlorine, sulfuric or fluorine gasses, oxalic acid, xylene, or methyl tetrachloride and the like.
 Tampering or repairing the product should be strictly avoided. Please contact us for repairing service.
- Precision apparatuses should not be arranged near the exhaust port where fine particles may fall on.
 Do not operate the product with its terminal box uncovered.
 Electrical connection should be done via an appropriate circuit breaker
 Indoor use only. The altitude of the site of use should be lower than 1000m.
 The site of use should be free from vibration or impact.
 Electrical works required for mounting the product should be done by professional.

- Electrical works required for mounting the product shoulbe be done by professionals or qualified personnel.
- Make sure that the packaging is not damaged on delivery. Damages during transportaion may lead to product failure. In case any damage is found, contact us immediately.

Maintenance





Remove the screw with a screw driver.



Unlatch the door to open.



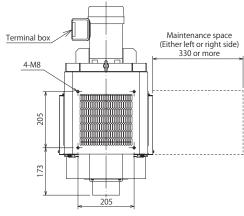
Unfix the fasters of the collection unit.

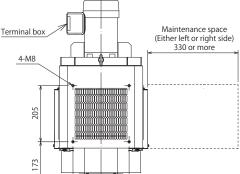


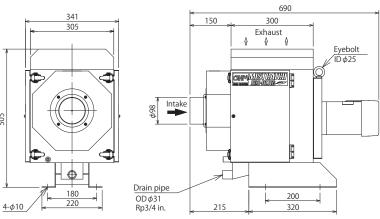
Take out the collection unit to clean using a brush or compressed air.

■ Outline drawing

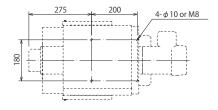
[Main unit]



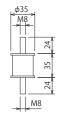




■ Mounting cutout



■ Anti-vibration rubber (Accessory)

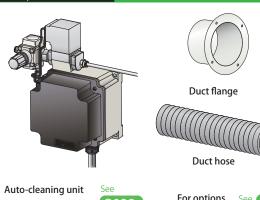


■ Collection rate

505

: Water-insoluble cutting oil Measured by: Low Volume Air Sampler type AN-200 100% 90% 80% 70% 60% 50% Non-filter type 40% → OMC-N205H - OMC-N205 30% 20% 100,10 Particle diameter (μ m)

Option



Keeps MISTCATCH interior clean using water and compressed air.

(P033)

For options



Non-filter oil mist collector

Non-filter Oil mist collector

Industry-leading collection efficiency as a non-filter unit













■ Model/Specifications

Model		OMC-N210	OMC-N210H	
Max. airflow *1		8 / 10 m ³ /min		
Max. static pressure *1		1.13 / 1.55kPa		
Collection efficiency		99% or more (2µm or larger)	99% or more (1µm or larger)	
Rated voltage		3-phase, 200VAC, 50Hz/200-220V, 60Hz		
Motor output rating		0.75kW (2P)		
Motor efficiency *2		81.5/81.1-82.5% IE3/IE3-IE3		
Current consumption *1		3.1/3.0-2.8A		
Working temperature		0 to +40℃		
Max. working humidity		85%RH, free from condensation		
Noise		70/74dB(A)		
Max. suction air temp.		+80℃		
	EMC directive	EMI:EM61000-6-4 EMS:EN61000-6-2		
Confor- mity	EMD	EN ISO/12100: 2010 EN60204-1: 2006+A	1: 2009 Overvoltage category II, Pollution level 3	
	Environment	RoHS		
Suction port diameter		φ123mm		
Paint color		Powder coating, Ivory (10GY9/1 equivalent) and Light green (10GY8/4 equivalent)		
Weight		40.0kg		
Drain port		φ 31 pipe		
Standard accessory		2m ϕ 32 drain hose, 1 drain hose band, 4 anti-bibration rubber, 1 maintenance sticker, 1 instruction manual		

- *1 Rated value in 25℃ air temperature
- *2 Efficiency value in a motor single body

- Be sure to read the instuction manual carefully before use.
 This product is intended for collecting general watersoluble and oil mist that generates during production process using various machine tools. Never have it inhale the following substances.
- Ignition sources and fire sparks generated in machine processing Flammable substances such as gasoline, thinner, benzin, kerosene and others
- as well as oil and cleaning liquid with an ignition point 80 degrees C or below,
 Explosive substances such as aluminium, magnesium and titan as well as
- materials ridden with those substances,
 Flammable liquid, mist and materials ridden with these substances,
- Corrosive and adhesive substances and hazardous gas or air with a lot of unusual substances - Dust
- Hot air exceeding 80 deg. C.
- Large amount of liquid
 Substances that remarkably accelerate rusting of metals or againg of plastics

- This product should not be used in an atmosphere which contains chlorine, sulfuric or fluorine gasses, oxalic acid, xylene, or methyl tetrachloride and the like.
 Tampering or repairing the product should be strictly avoided. Please contact us for repairing service.
- Precision apparatuses should not be arranged near the exhaust port where fine particles may fall on.
 Do not operate the product with its terminal box uncovered.
 Electrical connection should be done via an appropriate circuit breaker
 Indoor use only. The altitude of the site of use should be lower than 1000m.
 The site of use should be free from vibration or impact.
 Electrical works required for mounting the product should be done by professional.

- Electrical works required for mounting the product shoulbe be done by professionals or qualified personnel.
- Make sure that the packaging is not damaged on delivery. Damages during transportaion may lead to product failure. In case any damage is found, contact us immediately.

■ Maintenance





Remove the screw with a screw driver.



Unlatch the door to open.



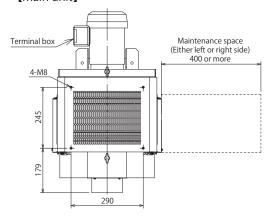
Unfix the fasters of the collection unit.



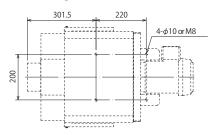
Take out the collection unit to clean using a brush or compressed air.

■ Outline drawing

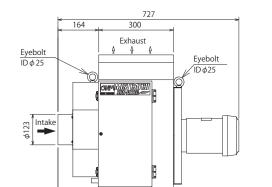
[Main unit]



■ Mounting cutout

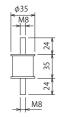


■ Anti-vibration rubber (Accessory)



244

10,10



■ Collection rate

4-φ10

630

Measured by: Low Volume Air Sampler type AN-200 100% 90% 80% 70% 60% 50% Non-filter type 40% → OMC-N210H - OMC-N210 30% 20%

Particle diameter (μ m)

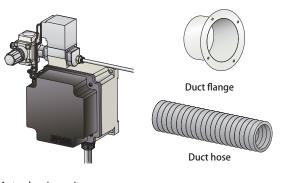
: Water-insoluble cutting oil

Drain pipe

OD φ31 Rp3/4 in.

Option

220



Auto-cleaning unit

P033 Keeps MISTCATCH interior clean using water and compressed air.

For options



Non-filter oil mist collector

Non-filter Oil mist collector

Industry-leading collection efficiency as a non-filter unit











■ Model/Specifications

	ас., орссса.			
	Model	OMC-N215		OMC-N215H
Max. airflow *1		14.5 / 16.5 m ³ /min		
Max. static pressure *1		1.57/2.17kPa		
Collection efficiency		99% or more (2µm or	· larger)	99% or more (1µm or larger)
Rated voltage		3-phase, 200VAC, 50Hz/200-220V, 60Hz		
Motor output rating		1.5kW (2P)		
Motor efficiency *2		85.8 / 85.6-86.0% IE3/IE3-IE3		
Current consumption *1		5.6/5.6-5.1A		
Working temperature		0 to +40℃		
Max. working humidity		85%RH, free from condensation		
Noise		72/76dB(A)		
Max. suction air temp.		+80℃		
	EMC directive	EMI:EM61000-6-4 EMS:EN61000-6-2		
Confor- mity	EMD	EN ISO/12100: 2010 EN60	0204-1:2006+A1:2009	Overvoltage category II, Pollution level 3
	Environment	RoHS		
Suction port diameter		φ 148mm		
Paint color		Powder coating, Ivory (10GY9/1 equivalent) and Light green (10GY8/4 equivalent)		
Weight		57.0kg		
Drain port		φ 31 pipe		
Standard accessory		2m ϕ 32 drain hose, 1 drain hose band, 4 anti-bibration rubber, 1 maintenance sticker, 1 instruction manual		

- *1 Rated value in 25°C air temperature
- *2 Efficiency value in a motor single body

- Be sure to read the instuction manual carefully before use.
 This product is intended for collecting general watersoluble and oil mist that generates during production process using various machine tools. Never have it inhale the following substances.
- Ignition sources and fire sparks generated in machine processing Flammable substances such as gasoline, thinner, benzin, kerosene and others
- as well as oil and cleaning liquid with an ignition point 80 degrees C or below,
 Explosive substances such as aluminium, magnesium and titan as well as
- materials ridden with those substances, Flammable liquid, mist and materials ridden with these substances,
- Corrosive and adhesive substances and hazardous gas or air with a lot of unusual substances - Dust
- Hot air exceeding 80 deg. C.
- Large amount of liquid
 Substances that remarkably accelerate rusting of metals or againg of plastics

- This product should not be used in an atmosphere which contains chlorine, sulfuric or fluorine gasses, oxalic acid, xylene, or methyl tetrachloride and the like.
 Tampering or repairing the product should be strictly avoided. Please contact us for repairing service.
- Precision apparatuses should not be arranged near the exhaust port where fine particles may fall on.
 Do not operate the product with its terminal box uncovered.
 Electrical connection should be done via an appropriate circuit breaker
 Indoor use only. The altitude of the site of use should be lower than 1000m.
 The site of use should be free from vibration or impact.
 Electrical works required for mounting the product should be done by professional.

- Electrical works required for mounting the product shoulbe be done by professionals or qualified personnel.
- Make sure that the packaging is not damaged on delivery. Damages during transportaion may lead to product failure. In case any damage is found, contact us immediately.

Maintenance





Remove the screw with a screw driver.



Unlatch the door to open.

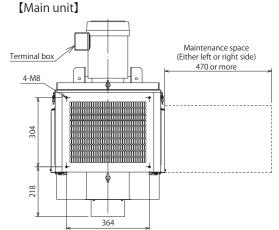


Unfix the fasters of the collection unit.

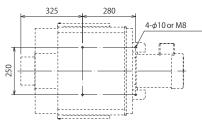


Take out the collection unit to clean using a brush or compressed air.

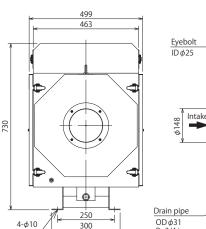
■ Outline drawing

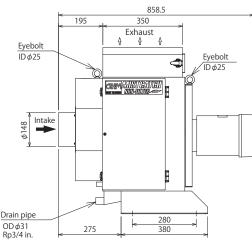


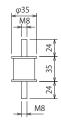
■ Mounting cutout



■ Anti-vibration rubber (Accessory)







■ Collection rate

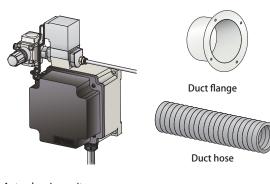
Test oil : Water-insoluble cutting oil

Measured by : Low Volume Air Sampler type AN-200

100%
90%
80%
70%
60%
30%
40%
30%
10%
90%
Particle diameter (µm)

Reserved
Particle diameter (µm)

■ Option



P033

Auto-cleaning unit

Keeps MISTCATCH interior clean using water and compressed air.

For options



Non-filter oil mist collector

Non-filter Oil mist collector

Industry-leading collection efficiency as a non-filter unit





■ Model/Specifications

Model		OMC-N225	OMC-N225H	
Max. airflow *1		21.5 / 24.5 m³/min		
Max. static pressure *1		1.88/2.57kPa		
Collection efficiency		99% or more (2µm or larger)	99% or more (1µm or larger)	
Rated voltage		3-phase, 200VAC, 50Hz/200-220V, 60Hz		
Motor output rating		2.2kW (2P)		
Motor efficiency *2		86.0/86.8-86.9% IE3/IE3-IE3		
Current consumption *1		8.3/8.1-7.4A		
Working temperature		0 to +40°C		
Max. working humidity		85%RH, free from condensation		
Noise		74/78dB(A)		
Max. suction air temp.		+80℃		
	EMC directive	EMI:EM61000-6-4 EMS:EN61000-6-2		
Confor- mity	EMD	EN ISO/12100: 2010 EN60204-1: 2006+A	1 : 2009 Overvoltage category II, Pollution level 3	
	Environment	RoHS		
Suction port diameter		φ 198mm		
Paint color		Powder coating, Ivory (10GY9/1 equivalent) and Light green (10GY8/4 equivalent)		
Weight		68.0kg		
Drain port		ϕ 31 pipe		
Standard accessory		2m ϕ 32 drain hose, 1 drain hose band, 4 anti-bibration rubber, 1 maintenance sticker, 1 instruction manual		

- *1 Rated value in 25°C air temperature
- *2 Efficiency value in a motor single body

- Be sure to read the instuction manual carefully before use.
 This product is intended for collecting general watersoluble and oil mist that generates during production process using various machine tools. Never have it inhale the following substances.
- Ignition sources and fire sparks generated in machine processing Flammable substances such as gasoline, thinner, benzin, kerosene and others as well as oil and cleaning liquid with an ignition point 80 degrees C or below,
 - Explosive substances such as aluminium, magnesium and titan as well as
- materials ridden with those substances,
 Flammable liquid, mist and materials ridden with these substances,
- Corrosive and adhesive substances and hazardous gas or air with a lot of unusual substances - Dust
- Hot air exceeding 80 deg. C.
- Large amount of liquid
 Substances that remarkably accelerate rusting of metals or againg of plastics

- This product should not be used in an atmosphere which contains chlorine, sulfuric or fluorine gasses, oxalic acid, xylene, or methyl tetrachloride and the like.
 Tampering or repairing the product should be strictly avoided. Please contact us for repairing service.
- Precision apparatuses should not be arranged near the exhaust port where fine particles may fall on.
 Do not operate the product with its terminal box uncovered.
 Electrical connection should be done via an appropriate circuit breaker

- The altitude of the site of use should be lower than 1000m.
 Indoor use only. The site of use should be free from vibration or impact.
- Electrical works required for mounting the product shoulbe be done by professionals or qualified personnel.
- Make sure that the packaging is not damaged on delivery. Damages during transportaion may lead to product failure. In case any damage is found, contact us immediately.

Maintenance



a screw driver.

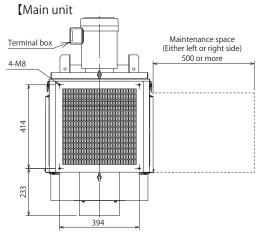
Remove the screw with Unlatch the door to open.

Take out the collection

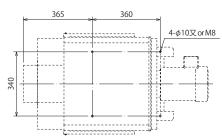
Unfix the fasters of the collection unit.

unit to clean using a brush or compressed air.

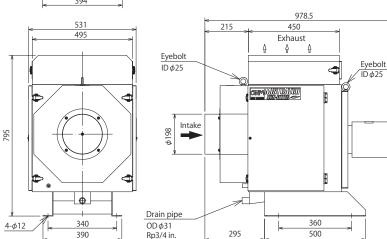
■ Outline drawing

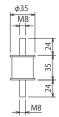






■ Anti-vibration rubber (Accessory)

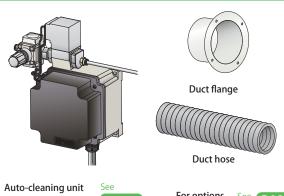




■ Collection rate

: Water-insoluble cutting oil Measured by: Low Volume Air Sampler type AN-200 100% 90% 70% 60% 50% Non-filter type 40% → OMC-N225H - OMC-N225 30% 20% Particle diameter (μ m)

Option



P033 Keeps MISTCATCH interior clean using water and compressed air.



Non-filter oil mist collector

Non-filter Oil mist collector

(10m³/min)

Energy saving, high power and compact!







Model	OMC-11
Max. airflow	8/10m³/min
Collection efficiency	83% ±% (2µm or larger)
Rated voltage	3-phase, 200VAC, 50Hz/200-220V, 60Hz
Motor output rating	0.2kW(2P)
Current consumption *1	1.0 / 1.3-1.3A or less
Working temperature	0 to +40°C
Max. working humidity	85%RH, free from condensation
Noise	77dB(A)
Max. suction air temp.	+50℃
Suction port diameter	φ123mm
Paint color	Ivory (10GY9/1 equivalent)
Weight	13.0kg
Standard accessory	2m ϕ 18 drain hose, 1 drain hose band, 1 instruction manual

^{*1} Rated value in 25°C air temperature

- Be sure to read the instuction manual carefully before use.
 This product is intended for collecting general watersoluble and oil mist that generates during production process using various machine tools. Never have it inhale the following substances.
- Ignition sources and fire sparks generated in machine processing Flammable substances such as gasoline, thinner, benzin, kerosene and others
- as well as oil and cleaning liquid with an ignition point 80 degrees C or below,
 Explosive substances such as aluminium, magnesium and titan as well as
- materials ridden with those substances, Flammable liquid, mist and materials ridden with these substances,
- Corrosive and adhesive substances and hazardous gas or air with a lot of unusual substances
 Dust
- Hot air exceeding 50 deg. C.
- Large amount of liquid
 Substances that remarkably accelerate rusting of metals or againg of plastics

- This product should not be used in an atmosphere which contains chlorine, sulfuric or fluorine gasses, oxalic acid, xylene, or methyl tetrachloride and the like.
 Tampering or repairing the product should be strictly avoided. Please contact us for repairing service.
- Precision apparatuses should not be arranged near the exhaust port where fine particles may fall on.
 Fine particles like fume or gasses are discharged with air.
 Electrical connection should be done via an appropriate circuit breaker
 Indoor use only. The altitude of the site of use should be lower than 1000m.
 The site of use should be free from vibration or impact.
 Electrical works required for mounting the product should be done by professionals.

- Electrical works required for mounting the product shoulbe be done by professionals or qualified personnel.
- Make sure that the packaging is not damaged on delivery. Damages during transportaion may lead to product failure. In case any damage is found, contact us immediately.

■ Mechanism



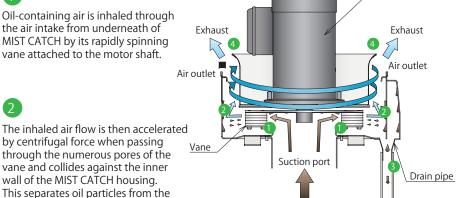
Oil-containing air is inhaled through the air intake from underneath of MIST CATCH by its rapidly spinning vane attached to the motor shaft.

by centrifugal force when passing

through the numerous pores of the

vane and collides against the inner

wall of the MIST CATCH housing. This separates oil particles from the



Oil mist-laden air

3

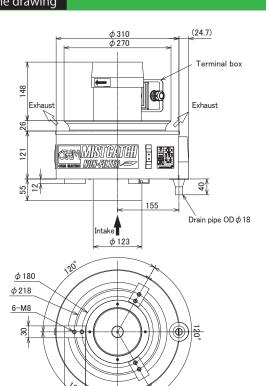
By air spirals around the wall, oil particles sit on the inner wall drip along the wall surface down to the slits to be discharged from the drain pipe.

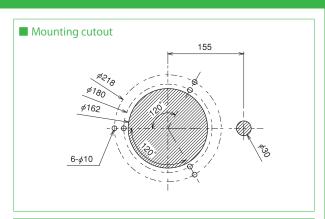


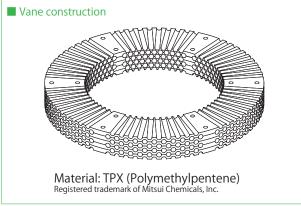
The outgoing air is returned to the atmosphere out of the air outlet.

■ Outline drawing

outgoing air.







■ Collection rate

