



Product

Incinerator

Shipboard Incinerator Type VIM/VIRM with IMO type approval certificate and CE marking



Type VIM



Type VIRM

VOLCANO's design is based on the shipboard incinerator standard specification MEPC76 (40) prescribed by the IMO. The Incinerator has a reputation for "refractory material's durability". We have delivered more than 3,000 units to date.

- Air atomizer type or Rotary cup type can be selected for the waste oil burner.

If air atomizer type is selected, the merit are "easy maintenance because of simple structure" and "superior durability because of no mechanical part in the burner".

If rotary cup type is preferred, it is also available.

- An independent furnace structure can provide stable and safe burning of waste oil and solid materials generated on board the vessel.
- The system uses a double-door, bucket mechanism to dump solid materials into the incinerator, making it possible to dump in materials during operation.
- The system uses a diluted air method to quickly cool the emissions temperature to as low as 200°C in order to reduce the level of dioxins that are generated.

- The horizontal and cylindrical furnace configuration helps prevent the refractory materials from falling down.
- The compact structure integrates the incinerator body, control board and induced draft fan into one unit.
- A sequencer is used to provide safe control with automatic operation.

TYPE : VIM & VIRM

Max. Dis. Cal.	kcal/h	300,000	500,000	700,000	1,000,000	1,500,000	2,000,000				
Value	kW	349	581	814	1,162	1,760	2,324				
Type		VIM-30	VIRM-30	VIM-50	VIRM-50	VIM-70	VIRM-70	VIM-100	VIRM-100	VIM-130	VIRM-200
Waste Oil Disposal Capacity	kg/h	40	56	81	116	176	232				
Solid Waste Disposal Capacity	kg/h	17	30	42	60	90	120				
Burner type		Air Jet	Rotary	Air Jet	Rotary	Air Jet	Rotary	Air Jet	Rotary	Rotary	Rotary
Burner Capacity	kg/h	Max. 42	Max. 56	Max. 81	Max. 116	Max. 176	Max. 232				
Atomizing Air Pressure	MPa	0.15	0.20	0.25	0.30	0.35	0.40				
Atomizing Air Consumption	Nm ³ /h	18.5	26.5	38.5	54.5	81.5	108.5				
Burner Motor	kg x x x	0.4 x 4	0.6 x 4	0.8 x 4	1.1 x 4	1.6 x 4	2.1 x 4				
Primary Air Fan	HP	1	1	1	1	1	1				
Flue Gas											
Burner	Capacity	9	9	9	9	9	9				
Flue Gas	Pressure	0.09	0.09	0.09	0.09	0.09	0.09				
Waste Oil	Capacity	120	200	270	370	540	720				
Discharge Plate	kg/h	0.2	0.35	0.5	0.7	1.0	1.3				
Capacity	kg/h	180	265	385	545	815	1085				
Induced Draft Fan	Capacity	2.5 x 4	3.5 x 4	4.5 x 4	6.5 x 4	9.5 x 4	12.5 x 4				
Static Pressure	MPa	0.08	0.08	0.08	0.08	0.08	0.08				
Waste Temp.	°C	200	200	200	200	200	200				
Depth	mm	2,295	2,490	2,685	2,880	3,075	3,270				
Width	mm	1,460	1,550	1,640	1,730	1,820	1,910				
Height	mm	2,030	2,100	2,170	2,240	2,310	2,380				
Exhaust Gas Outlet Dia		Ø1,450A	Ø1,700B	Ø1,950C	Ø2,200D	Ø2,450E	Ø2,700F				
Weight (approx.)	kg	2,500	3,000	3,500	4,000	4,500	5,000				

Based on IMO standard fuel/water specification: *1) CV 8000 kcal/kg, *2) CV 2800 kcal/kg

After-sales service

We offer our users with our after-sales service including maintenance of equipment after our delivery in many countries all over the world. Our service system will satisfy your consulting service request to any place at any time.

Maintenance and inspection of burner

Burner inspection and combustion adjustment. Burner disassembly, inspection and cleaning. Checking and inspection of combustion. Inspection and adjustment of combustion exhaust gas measurement (CO, O₂, smoke scale, etc.).

OVERSEAS TECHNICAL AGENTS

SINGAPORE / PHILIPPINES / UAE / GERMANY / USA / UK

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Record

We have a number of sales records for various type of vessels since foundation in 1928.

Volcano incinerator have the total sales records of 3300unit. Volcano is first manufacturer of marine incinerator in JAPAN.

For more details, please feel free to contact with us via E-mail.

E-mail: info-m@volcano.co.jp

Package

VOLCANO has a wealth of experience dealing with burners and other systems used on vessels: from boiler burners used for the main propulsion engine on large LNG carriers, to auxiliary boiler burners used as heat sources within the vessel, as well as waste oil incinerators, and bilge / sludge treatment systems. We offer products with excellent energy savings and environmental performance in conjunction with a global service network in order to support safe and efficient marine transport.

VOLCANO "TCS (Technical Client Service)" provides after-sales technical support, engineering services, and other solutions.

Certifications/Applicable rules

ISO
9001

All of Classification Societies
(ex. NK, LR, ABS, DNV·GL, BV etc)

Volcano incinerators of the VIM and VIRM series are designed and built in compliance with standard specification for shipboard incinerators, MEPC 76(40), released by IMO.

no.
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AHTS	PSV	FPSO	Drill Ship	Semi-sub
				

Product



Heat Exchanger

Shell / Carbon Steel

Tube/Aluminum Brass

Tube Sheet/Naval Brass

Baffle/Carbon Steel Plate

Water Chamber/Cast

Gasket/Asbestos free

Cooling Surface Area : LO/12 ~ 80㎡

FW / 5 ~ 25㎡

Low Compact Type that snugly fits to narrow engine rooms, with a featured structure for easy maintenance. Inside of tubes can be washed just by removing the water chamber. Since the tube bundle only can be drawn out from the shell, it can be washed or replaced separately.

Many Heat Exchangers (Oil cooler/Freshwater cooler) have been delivered to the Japanese engine makers quoted in this catalogue (DAIHATSU DIESEL MFG. CO., LTD., NIIGATA POWER SYSTEMS CO., LTD., THE HANSHIN DIESEL WORKS, LTD, YANMAR CO., LTD.).

List of main products:

1. Oil Cooler, 2. Freshwater Cooler, 3. Drain Cooler, 4. Freshwater Heater, 5. Turbine Generator Condenser, 6. Tank Cleaning Heater, 7. Air Ejector, 8. Cargo Oil Pump Turbine Condenser

After-sales service

Engineers will be dispatched as required.

DVD that records the tube replacement procedure is available separately.

Record

Our products have been installed on PSV's destined to sea areas of Brazil. Many Heat Exchangers (Oil cooler/Freshwater cooler) have been delivered to the Japanese engine makers quoted in this catalogue (DAIHATSU DIESEL MFG. CO., LTD., NIIGATA POWER SYSTEMS CO., LTD., THE HANSHIN DIESEL WORKS, LTD, YANMAR CO., LTD.). These products are used also at many offshore facilities.

Certifications/Applicable rules

Adaptable to the class survey at various countries.
Certified by ISO9001 and ISO14001. Accredited by ASME.