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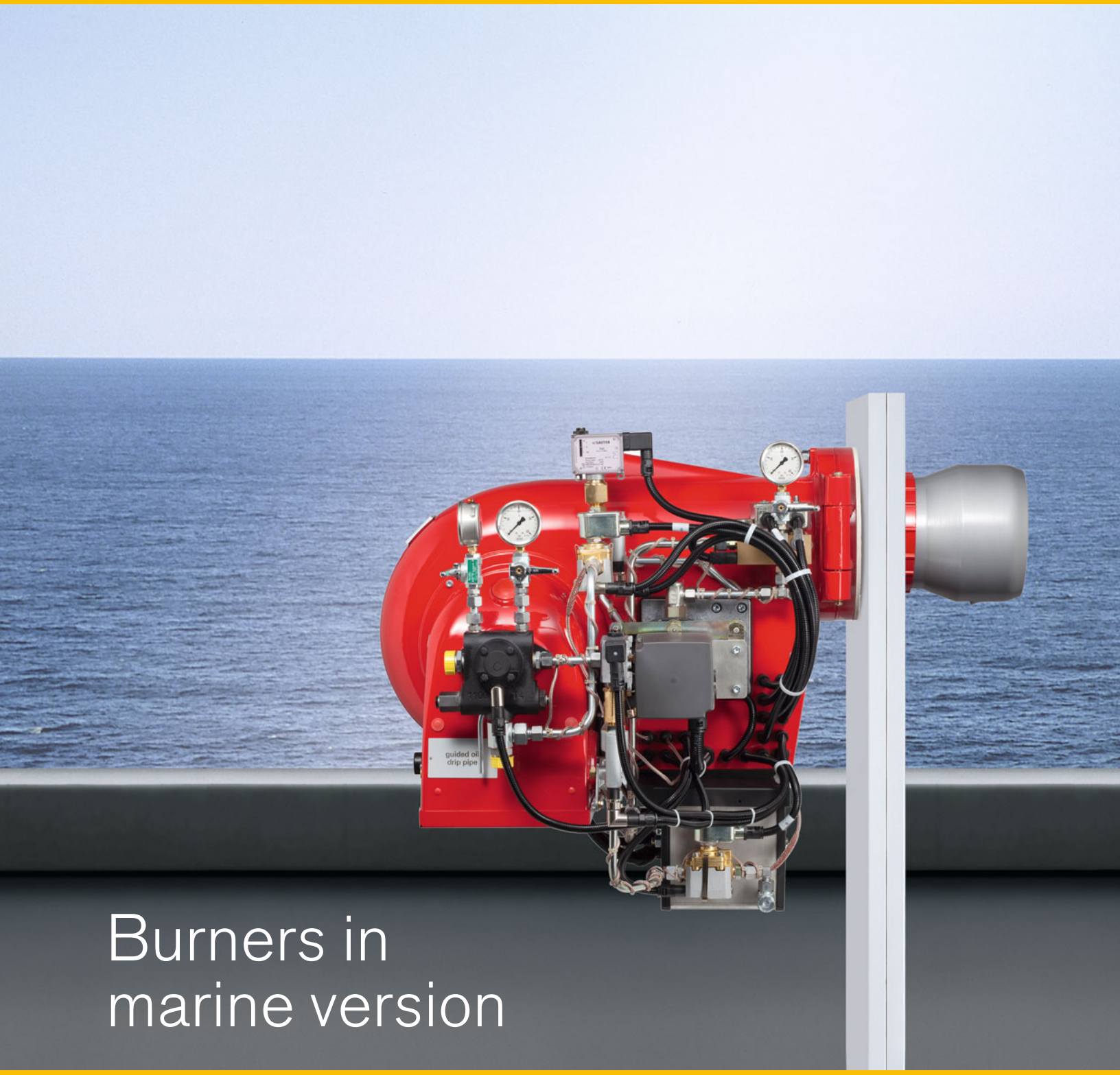
info

Information on burners in marine version



Burners in marine version

For ship and offshore applications up to 75,000 MBH

Progress and Tradition: Burners in marine version

Weishaupt products can be found everywhere where reliability is essential

For over 40 years Weishaupt has designed and produced burners in marine version for various applications such as auxiliary and hot water boilers for ships and offshore installations. The in-house Research and Development Centre is constantly working on innovative new developments.

The burners are distinguished by their robust and compact design. They are easy to install and maintain. Total care is taken in the development and production especially when it comes to making servicing easy.

Our commitment to quality goes beyond product and service. Weishaupt offers individual solutions for the control of burners, boilers and supply equipment. This provides you with expertise from a single source.

GREEN PASSPORT

Weishaupt burners are equipped to meet the Eco Standards of tomorrow
Materials and products on ships, whose recycling process does not pose a risk to humans and the environment, are awarded with the "Green Passport", an Eco Pass for ships. Of course, all Weishaupt burners and accessories in marine version comply with this requirement.

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Modular.

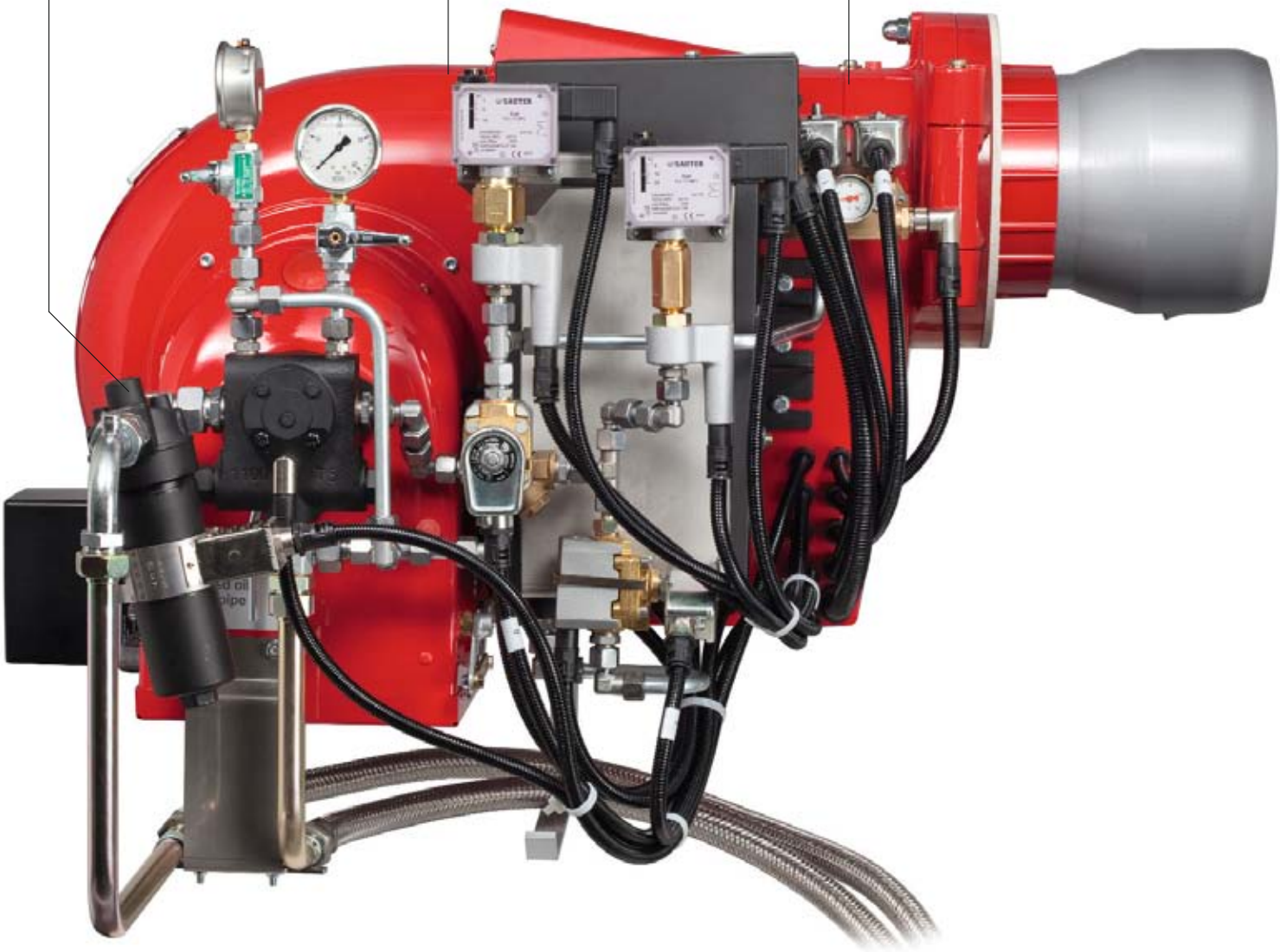
Thanks to their modular construction, Weishaupt burners can meet almost all requirements for ships and offshore operations.

Robust.

For many decades Weishaupt marine burners with their compact design have proven themselves under the most severe conditions.

Reliable.

Highest quality is our goal.
Each burner is therefore fully tested and approved by Classification Societies.



Equipped for all ports in the world: A Weishaupt burner for almost any fuel

Marine Fuel Oils are available in various qualities. MARPOL 73/78 Annex I to VI regulates the usage, as well as the emissions of sulphurous combustion products in certain marine territories. This has resulted in oils with a lower sulphur content than required by the regulations being produced.

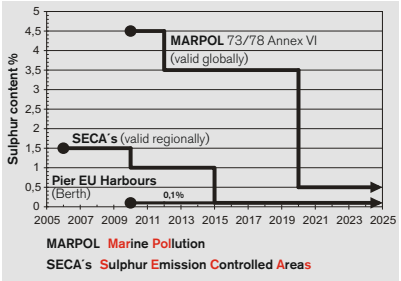
The standard ISO 8217 for marine fuels differentiates between Marine Distillate Fuel Oil and Marine Residual Fuel Oil, whereby Residual Fuels are commonly known as heavy oils (HFO).

The most important specifications limit the density, the viscosity, the water content and the flash point.

In accordance with MARPOL regulations, a sample of each fuel delivered must be available on board. The fuel can only be used once the specification (Bunker Delivery Note) has been released by the test laboratory.

Weishaupt burners in marine version are approved for Marine Fuel Oils to ISO 8217 2010-06-15 and DIN ISO 8217 2011-09.

For safety reasons, due to its low flash point of 45 °C, DMX quality oil is not approved for combustion in shipping.



Limit values for sulphur content in the fuel

Source: DIN ISO 8217 : 2011-09

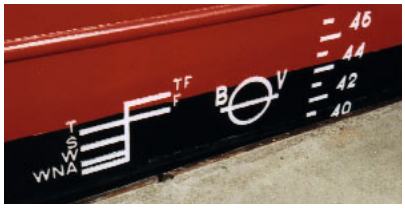
Commercial designations*			Distillate fuels (MDF) e.g. MGO* / MDO*				Residual oils (RFO) e.g. HFO* / Bunker oils*										
Characteristics	**Unit**	**Limit**	**DMX** 1)	**DMA**	**DMZ**	**DMB**	**RMA** 10	**RMB** 30	**RMD** 80	**RME (IFO)** 180	**RMG (IFO)** 180	380	500	700	**RMK** 380	500	700
Viscosity at 40 °C / 50 °C	**cSt (mm²/s)**	**min.**	1.4	2.0	3.0	2.0											
		max.	5.5	6.0	6.0	11.0	10.0	30	80	180	180	380	500	700	380	500	700
Density at 15 °C	**kg/m³**	**max.**	–	890	890	900	920	960	975	991	991				1010		
Sulphur	**mass %**	**max.**	1.0	1.5	1.5	2.0	Statutory requirements										
Flash point	**°C**	**min.**	43	60	60	60	60	60	60	60	60				60		
Hydrogen sulfide	**mg/kg**	**max.**	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0				2.0		
Carbon residue	**% (m/m)**	**max.**	–	–	–	0.3	2.5	10	14	15	18				20		
Pour point	**winter °C**	**max.**	–	-6	-6	0	0	0	30	30	30				30		
	summer °C	**max.**	–	0	0	6	6	6	30	30	30				30		
Water	**% (V/V)**	**max.**	–	–	–	0.3	0.3	0.5	0.5	0.5	0.5				0.5		
Ash	**mass %**	**max.**	0.01	0.01	0.01	0.01	0.04	0.07	0.07	0.07	0.10				0.15		
Weishaupt guide values for the atomizing temperature °C				20-40	20-40	20-50	60	90	115	135	135	150	155	160	150	155	160
Weishaupt Burner				**L / RL** 2) **Burners**			**MS** 2) **Burners (two stage)**								**MS** 2)		
				MS 2) **Burners (two stage) w. fuel change-over operation**													
							RMS 2) **Burners (sliding two stage/ modulating)**										
				RMS 2) **Burners (sliding two stage/ modulating) with fuel change-over operation**													

1) DMX not approved for marine burner operation 2) L / RL Burners: multi-stage / modulating light oil burners 3) MS / RMS Burners: multi-stage / modulating heavy oil burners

Class approved:
Weishaupt burners meet all classifications

The Classification Society creates, monitors and documents the compliance of technical regulations on ships and offshore installations.

The so-called Plimsoll line shows by which Society the ship has been classified. On merchant ships this can be found at half ship's lengths on both sides of the hull.



Classification identification by Plimsoll line

The burner can be matched to the ship using the registration code.

Registration code on the burner hinge flange

It is not a legal requirement for the owner of a ship to classify his ship. However, there are only a few states that permit the operation of unclassified ships in their territorial waters. To make the operational radius of a ship as flexible as possible, classification is inevitable.

Ships without classification are not permitted in European waters or ports.

Burners and components, which are approved for use in shipping and on offshore installations are controlled by the **Type Approval** (design approval). This approval is the basis for the final inspection (Final Approval) at the test facility or on site.

Internationally recognized Societies

IACS International Association of Classification Societies

1.	**ABS**	American Bureau of Shipping
2.	**BV**	Bureau Veritas
3.	**CCS**	China Classification Society
4.	**DNV**	Det Norske Veritas
5.	**GL**	Germanischer Lloyd
6.	**KR**	Korean Register of Shipping
7.	**LR**	Lloyd's Register
8.	**NKK**	Nippon Kaiji Kyokai
9.	**RINA**	Registro Italiano Navale
10.	**RS**	Russian Maritime Register

Type Approval

Classification	Country	Approval Code No.	Burner type
ABS	USA	07-HG211243/1-PDA	L / RL / M / MS / RMS / 1 – 11 + 30 – 70
BV	France	02396/GO BV	L / RL / M / MS / RMS / 1 – 11 + 30 – 70
		SMS.W.II/761/B.O	
CCS	China	HB05A00054	L1 / L3
		HB95A960	L / RL / M / MS / RMS / 5 – 11
		HBA03190125	L / RL / RMS / 30 – 70
DNV	Norway	submitted	
GL	Germany	Drawing approval	L / RL / M / MS / RMS / 5 – 11 + 30 – 70
KR	Korea	HMB04961-BR001	L / RL / M / MS / RMS / 5 – 11
LR	England	Service agreement	
NKK	Japan	Approval by GL	
RINA	Italy	not required	
RS	Russia	09.04031.250	L / M 1 – 3
		09.04030.250	L / RL / M / MS / RMS / 5 – 11
		09.04029.250	L / RL / RMS / 30–70
		10.05019.250	

Other classifications can be met on request

You have a demanding requirement: Weishaupt has a suitable burner

Step by step to your tailor-made burner

We require the following information from you to select your burner:

1. Fuel

Marine Gases		Marine Oils								
LNG	**LPG**	**DMA**	**DMZ**	**DMB**	**RMA**	**RMB**	**RMD**	**RME**	**RMG**	**RMK**

2. Boiler type and construction (combustion chamber geometry)

Heating and hot water (warm water / hot water / steam)	**Auxiliary boiler** (steam / thermal fluid)	**Process plant** (e.g. waste incineration/oil refining processes)

3. Installation position of the burner

Horizontal	**Horizontal deviation (10 to 30°)**	**Vertical**

4. Burner rating required and combustion chamber pressure

Monoblock burners		**Duoblock burners**
Monarch 1 – 11 (680 - 17,750 MBH)	**Industrial burners (up to 37,000 MBH)**	**WK burners (4,000 - 75,000 MBH)**

5. Type of regulation required

multi-stage	▪ (viscosity up to 570 mm^2/s at 50 °C) ▪ (viscosity up to 380 mm^2/s at 50 °C in conjunction with MFO-Fuels alternating operation)	**modulating**	▪ (viscosity up to 700 mm^2/s at 50 °C)

6. Classification required

ABS	**BV**	**CCS**	**DNV**	**GL**	**KR**	**LR**	**NKK**	**RINA**	**RS**

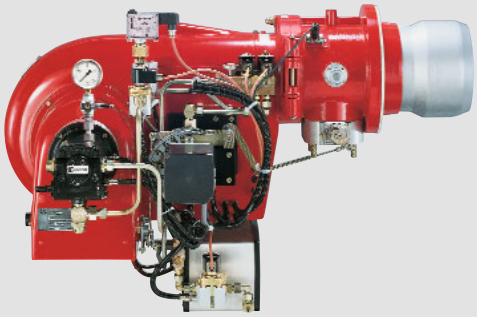
Our modular burner program offers optimum flexibility and maximum individuality

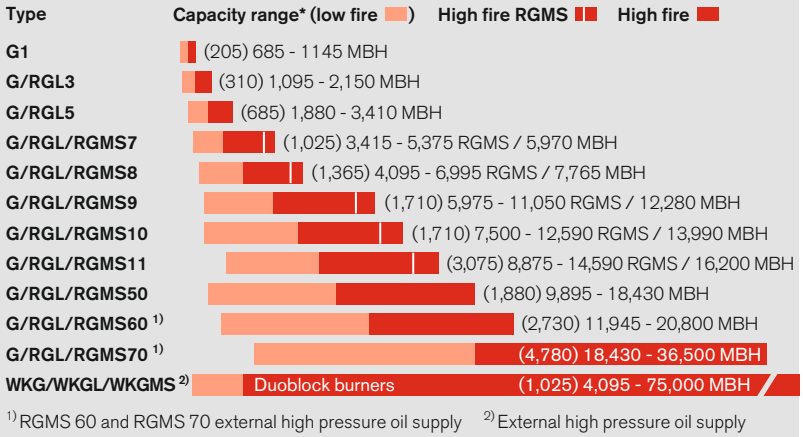
Index type of regulation / fuel

L / M / MS	Oil burners	two stage
RL / RMS / WKMS	Oil burners	sliding two stage or modulating
G / RGL / RGMS / WKG / WKGL / WKGMS	Gas / dual fuel burners	sliding two stage or modulating

Gas and dual fuel burners

Version LNG and LNG/MFO
Version LPG and LPG/MFO





1) RGMS 60 and RGMS 70 external high pressure oil supply 2) External high pressure oil supply

** A detailed capacity selection must be made taking into account the combustion chamber resistance with the relevant capacity graph (product brochure / manual)*

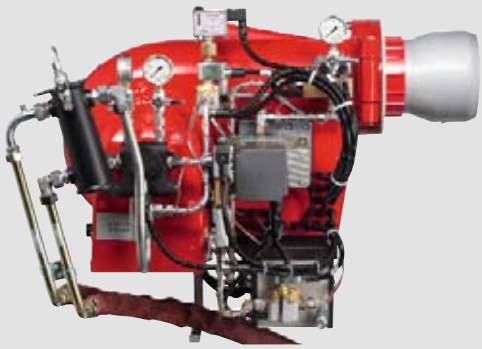
Oil burners

Type	Capacity range* (low fire) High fire
Version for distillate fuels	
L1	(240) 680 - 1,415 MBH
L/RL3	(410) 1,090 - 2,645 MBH
L/RL5	(615) 1,875 - 4,060 MBH
L/RL7	(1,095) 3,175 - 6,700 MBH
L/RL8	(2,030) 4,435 - 9,350 MBH
L/RL8/2	(2,115) 5,460 - 10,970 MBH
RL9	(2,440) 6,380 - 12,590 MBH
RL10	(3,260) 7,500 - 15,445 MBH
RL11	(4,880) 8,875 - 17,880 MBH
RL50	(2,440) 10,240 - 21,050 MBH
RL60	(4,470) 13,650 - 24,795 MBH
RL70	(6,500) 19,110 - 37,200 MBH
WKL/WKMS	Duoblock burners (1,025) 4,095 - 75,000 MBH

Version for residual oils (RM..)[1)]	
M1	(310) 680 - 1,415 MBH
M3	(410) 1,090 - 2,645 MBH
M5	(770) 1,875 - 4,060 MBH
MS/RMS7	(1,540) 3,175 / 3,410 RMS - 6,700 MBH
MS/RMS8	(2,300) 4,435 - 9,350 MBH
MS/RMS8/2	(2,300) 5,460 - 10,765 MBH
RMS9	(3,075) 6,380 - 12,590 MBH
RMS10	(3,450) 7,500 - 15,445 MBH
RMS11	(4,985) 8,875 - 17,880 MBH
RMS50	(2,440) 10,240 - 21,050 MBH
RMS60 [2)]	(4,470) 13,650 - 24,795 MBH
RMS70 [2)]	(6,500) 19,110 - 37,200 MBH
WKL/WKMS [2)]	Duoblock burners (1,025) 4,095 - 75,000 MBH

[1)] DM.. only as auxiliary fuel for startup and shutdown of the boiler and burner purging
[2)] External high pressure oil supply

Version for distillate fuels (DM..) and residual oils (RM..) for alternating fuel operation (an oil side adjustment is not required)	
MS/RMS7	(1,540) 3,175 / 3,410 RMS - 6,700 MBH
MS/RMS8	(2,300) 4,435 - 9,350 MBH
RMS9 [2)]	(3,075) 6,380 - 12,590 MBH
RMS10 [2)]	(3,450) 7,500 - 15,445 MBH
RMS11 [2)]	(4,985) 8,875 - 17,880 MBH
RMS50 [3)]	(2,440) 10,240 - 21,050 MBH
RMS60 [3)]	(4,470) 13,650 - 24,795 MBH
RMS70 [3)]	(6,500) 19,110 - 37,200 MBH
WKL/WKMS [3)]	Duoblock burners (1,025) 4,095 - 75,000 MBH



[2)] Available from March 2012
[3)] In conjunction with external high pressure oil supply per fuel

** A detailed capacity selection must be made taking into account the combustion chamber resistance with the relevant capacity graph (product brochure / manual)*

In detail:
Weishaupt burners offer many advantages

Weishaupt burners are manufactured to individual requirements. This means we deliver a product, which has been exactly matched to the customer's needs.

But Weishaupt burners also stand out through a multitude of innovative ideas:

Reliable and convenient fuel change-over

Whether switching from Gas (LNG) to MFO or from a high viscosity fuel to a low viscosity fuel, regardless of the type of fuel change-over required, we have the right solution.

The key advantage of the Weishaupt design is that no fuel-side adjustment is needed for fuel change-over.

Alternating operation with different MFO fuels:
A high degree of operational reliability is achieved by using standard pressure monitoring, even when switching between liquid fuels of different viscosity.

To ensure that our high standards for operational reliability are met when switching from a high viscosity fuel to a low viscosity fuel, the temperature of the oil supply system must be reduced to a temperature of 104-140F (40-60°C) prior to switching to the low viscosity fuel. This is usually achieved with an auxiliary fuel with a viscosity of > 3 cSt (3 mm^2/s) at 40°C.

In order to prevent a possible explosion caused by the overheating of the low viscosity fuel, a temperature switch is required in the oil supply.

No matter which port you are heading for, Weishaupt offers a convenient and practical solution with this reliable fuel change-over.

Precise leakage diversion ensures maximum safety (standard for version with different MFO fuels in alternating operation)

Maximum safety provided by precise leakage diversion

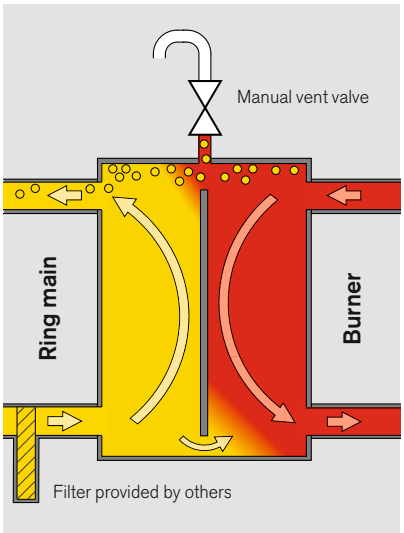
When using MFO fuel the shaft seal is placed under extreme mechanical strain. Weishaupt offers an optimum solution with an innovative design and the use of high quality materials.

With the multi-fuel pumps UHE-WH, the oil is diverted into a separate reservoir by precise leakage diversion in the event that the shaft seal fails. This prevents a possible explosion caused by oil entering the air inlet.

The integrated dual circuit oil reservoir provides greater reliability and convenience (standard on RMS burners version with different MFO fuels in alternating operation)

Energy saving provided by dual circuit oil reservoir

The separation into different temperature zones from ring main to burner supply ensures that the oil preheater is used in the most efficient way. This saves energy and operating costs. The straightforward connection to the oil supply also minimises installation costs.

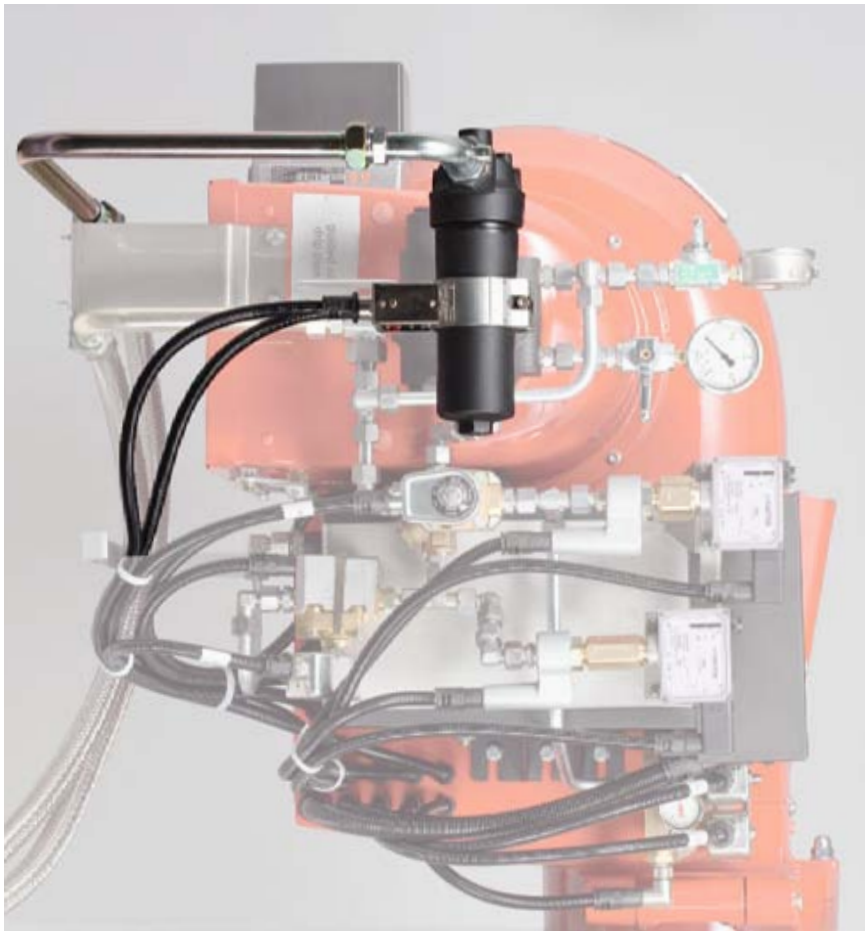


The separation into different temperature zones saves energy and costs

The integrated oil filter is easily accessible (standard on MS burners version with different MFO fuels in alternating operation)

Oil filter fitted as standard

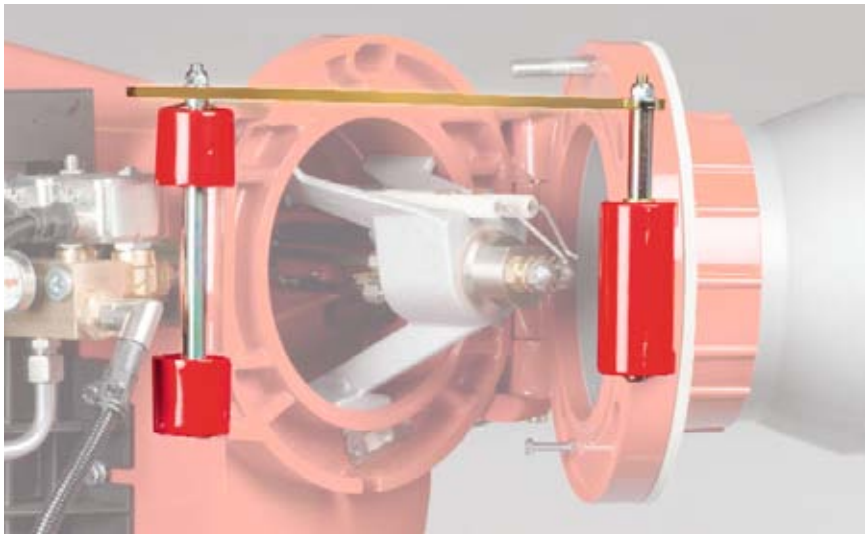
The heated, integral oil filter is easily accessible and easy to service. Due to the flexible construction of the oil filter the burner can be positioned as required.



Due to the flexible construction of the heated oil filter the burner can be installed in any position required from horizontal to vertical

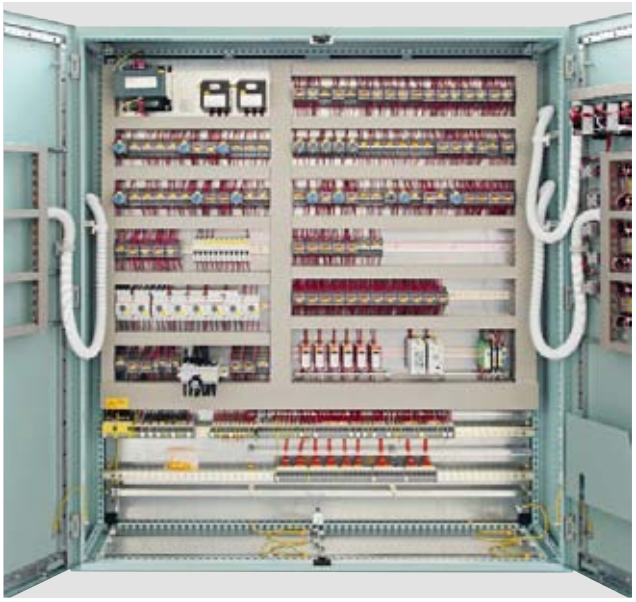
Increased safety during servicing

The hinge securing mechanism supplied as standard ensures that the burner can not swing close during servicing.



Increased safety during servicing provided by the integrated hinge flange with securing mechanism

We control to your requirements: Analog or digital

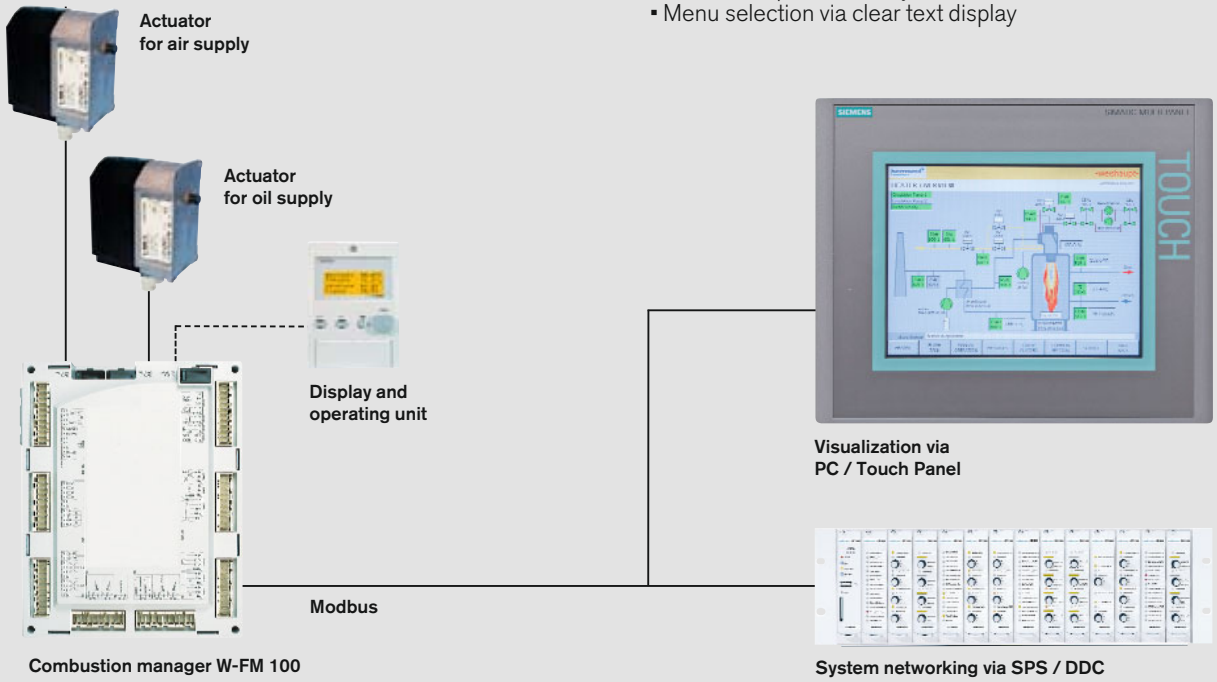


Weishaupt offers individual control systems to meet all requirements of the ship's classification

Highest safety provided by 100% redundancy of burner control systems

Digital combustion management offers:

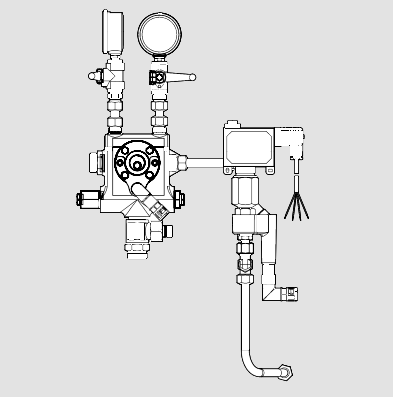
- Precise setting accuracy
- Reproducible setting values
- Convenient handling
- Flexible communication
- Data backup / fault analysis
- Menu selection via clear text display



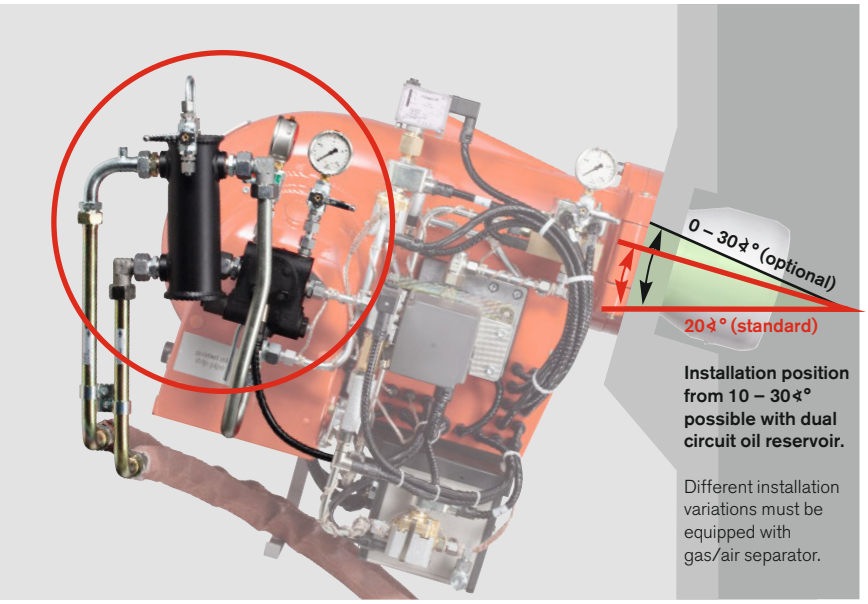
In conjunction with Lloyd's Register: Digital combustion management makes burner operation convenient and reliable

Simple and time saving conversion with ready-to-install conversion kits

Ready-to-install conversion kits
for example for conversion from residual oils to distillate/residual oils, offer a time saving and service friendly possibility to adapt burners already installed to meet changing requirements.

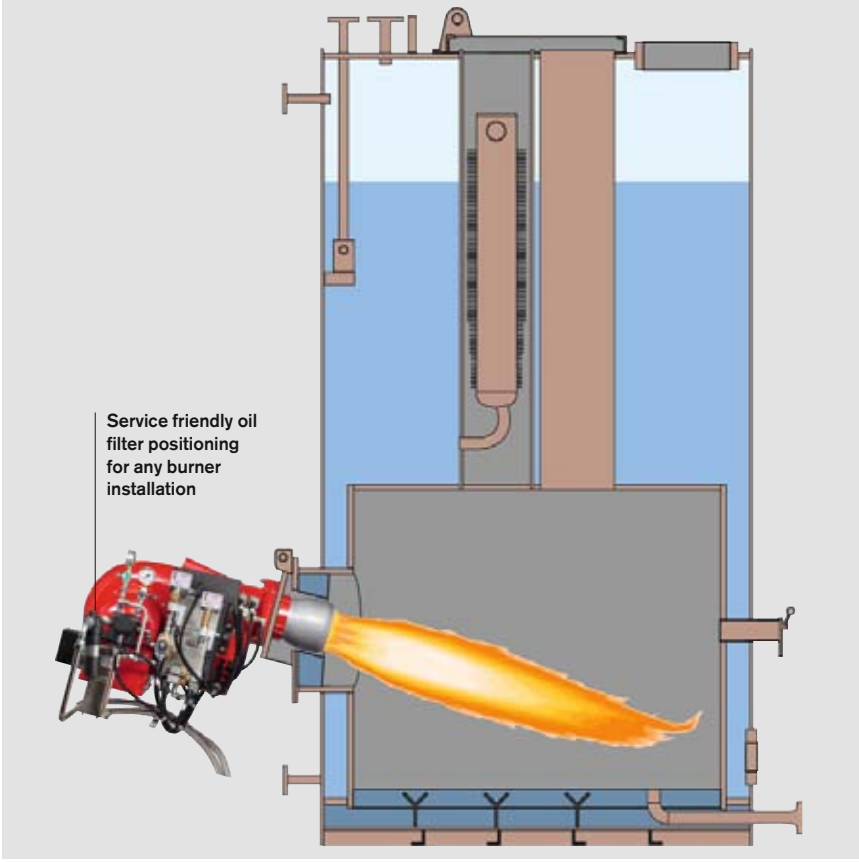


Conversion kit for RMS7 / RMS8



Ready-to-install conversion kits facilitate the conversion of an existing burner and are easy to install (example RMS7 / RMS8)

Conversion kit for MS7 Z / MS8 Z



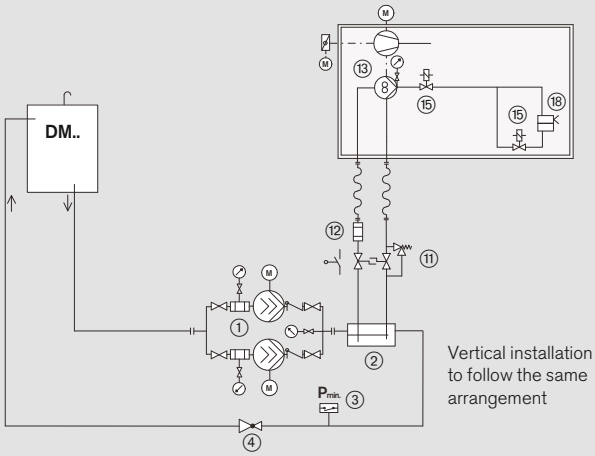
With the MS conversion kit (example MS7 / MS8) installation is possible from horizontal to vertical

Technology in detail:
Fuel supply /fuel change-over

Version for distillate fuels (DM..)

L burners

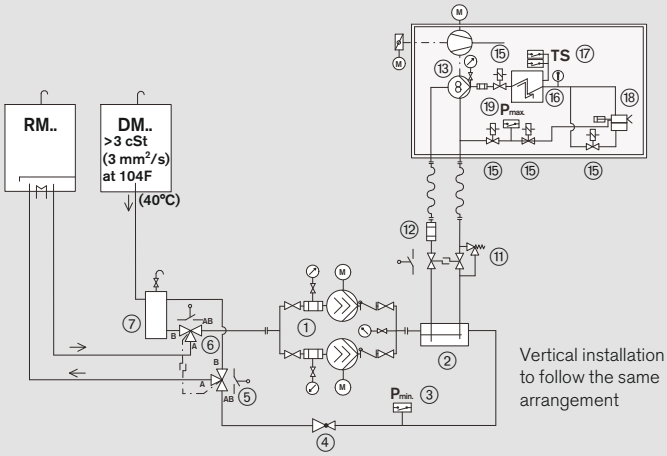
① Suction pump assembly
② Dual circuit oil reservoir / gas/air separator
③ Low pressure switch
④ Pressure regulating valve
⑤ 3 way ball valve (return)
⑥ 3 way ball valve (supply)
⑦ Venting vessel
⑦a Cooler (68-104F/ 20-40°C) for operation with viscosities < 3 cSt (3 mm²/s) at 104F/ 40°C
⑧ 3 way ball valve (DM../DM..)
⑨ Heating (140-194F/ 60-90°C)
⑩ Temperature switch (104-140F/ 40-60°C)
⑪ Shut off combination
⑫ Oil filter
⑬ Burner pump
⑭ Strainer
⑮ Solenoid valve
⑯ Oil preheater
⑰ Temperature monitor/switch
⑱ Two stage nozzle assembly
⑲ High pressure switch



Vertical installation to follow the same arrangement

Version for residual oils (RM..) [1)]

MS burners

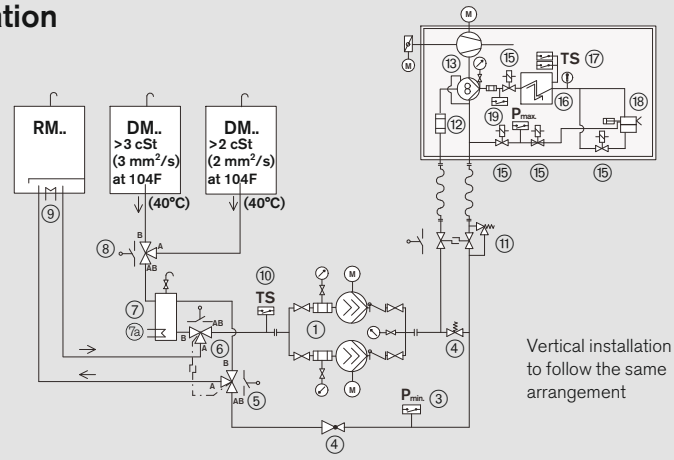


Vertical installation to follow the same arrangement

Version for distillate fuels (DM..) and residual oils (RM..) in alternating operation

MS7 and MS8 burners [2)]

(an oil side adjustment is not required)



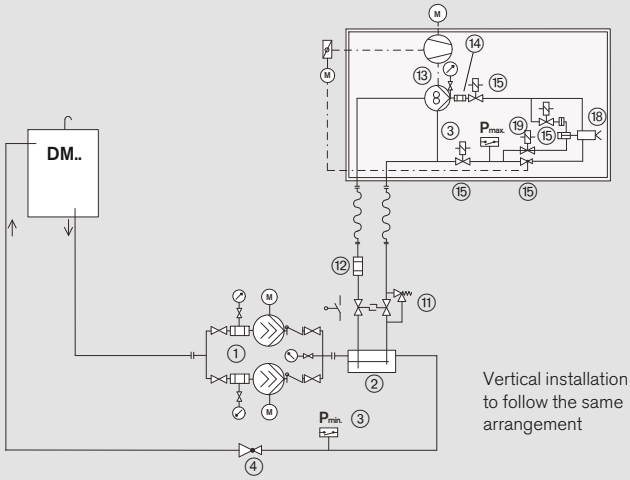
Vertical installation to follow the same arrangement

[1)] MDO only as an auxiliary fuel for startup and shutdown of the boiler and burner purging [2)] Except for burner size 8/2

Version for distillate fuels (DM..)

RL3 – RL11 burners

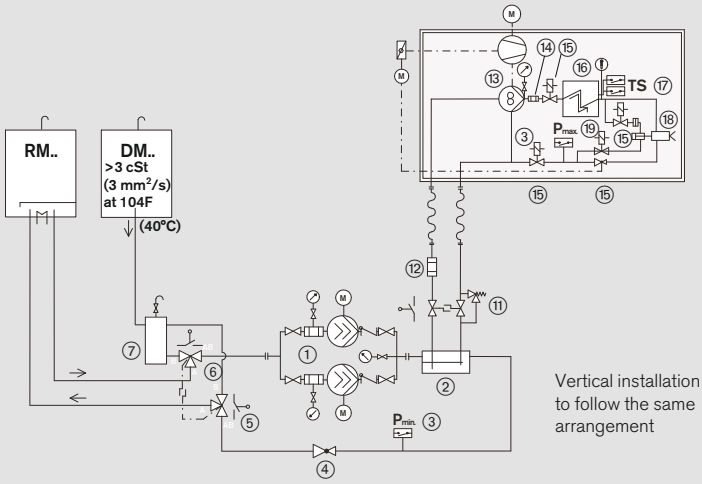
① Suction pump assembly
② Dual circuit oil reservoir / gas/air separator
③ Low pressure switch
④ Pressure regulating valve
⑤ 3 way ball valve (return)
⑥ 3 way ball valve (supply)
⑦ Venting vessel
⑦a Cooler (68-104F/ 20-40°C) for operation with viscosities < 3 cSt (3 mm²/s) at 104F/ 40°C
⑧ 3 way ball valve (DM../DM..)
⑨ Heating (140-194F/ 60-90°C)
⑩ Temperature switch (104-140F/ 40-60°C)
⑪ Shut off combination
⑫ Oil filter
⑬ Burner pump
⑭ Strainer
⑮ Solenoid valve
⑯ Oil preheater
⑰ Temperature monitor/switch
⑱ Two stage nozzle assembly
⑲ High pressure switch



Vertical installation to follow the same arrangement

Version for residual oils (RM..) [1)]

RMS7 – RMS11 burners

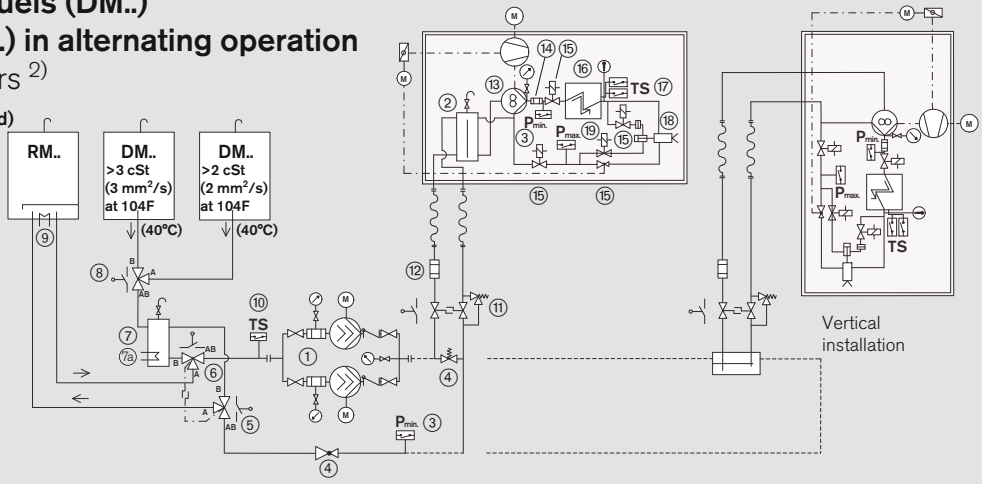


Vertical installation to follow the same arrangement

Version for distillate fuels (DM..) and residual oils (RM..) in alternating operation

RMS7 – RMS11 Burners [2)]

(an oil side adjustment is not required)



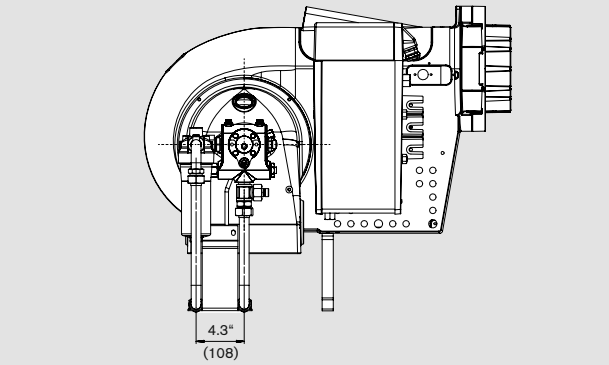
Vertical installation

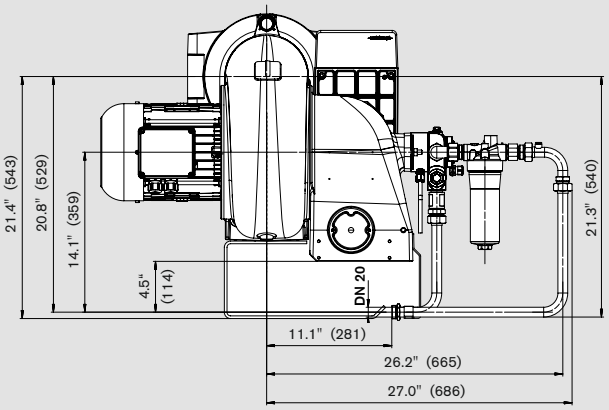
[1)] MDO only as an auxiliary fuel for startup and shutdown of the boiler and burner purging

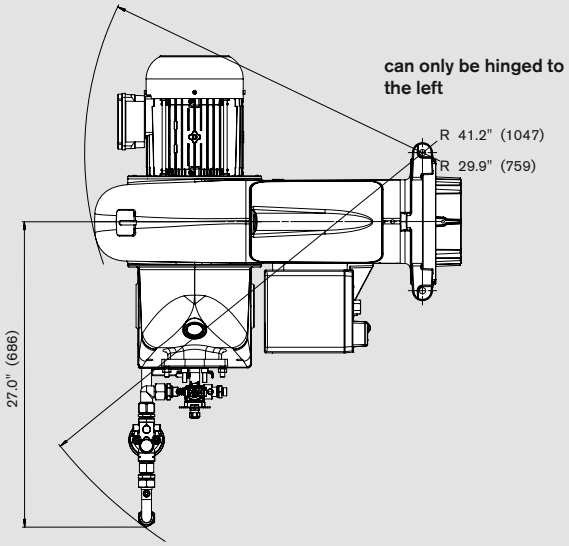
[2)] Except for burner size 8/2

Dimensions and hinge radius for series 7/8 version MGO-MDO-HFO

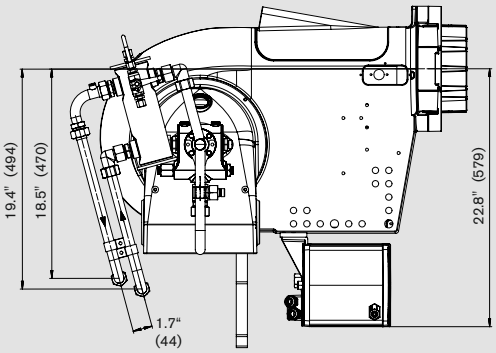
Oil burners MS 7

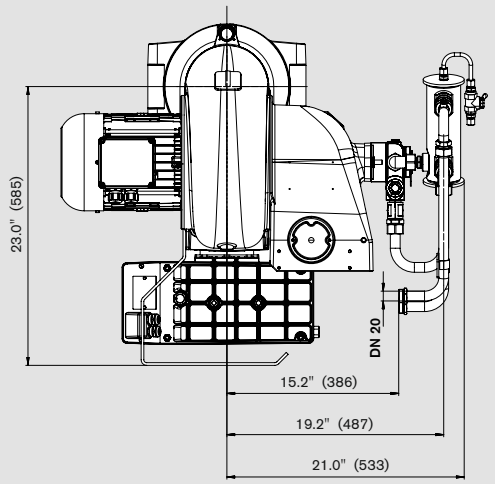


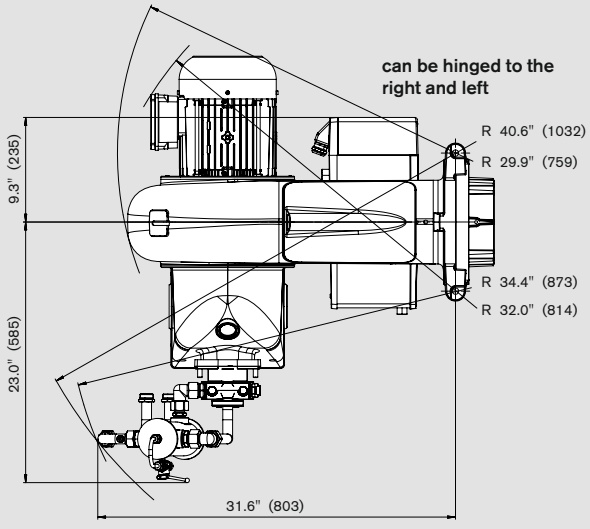




Oil burners RMS 7







Other dimensions can be found in the product documentation

Our suggestion:
Weishaupt equipment versions

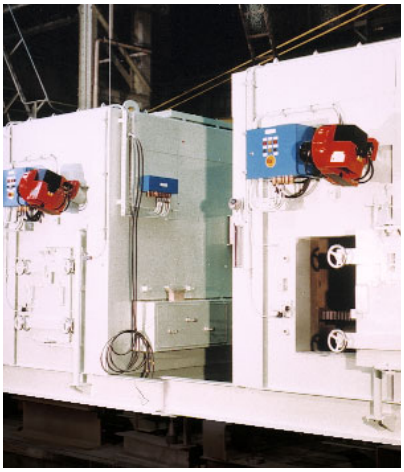
Classification Society			ABS	BV	CCS	DNV	GL	KR	LR	NKK	PRS	RINA	RS
Burners general	Marine version	▪ All burner castings painted inside ▪ Motor terminal box sealed with captivated screws ▪ Cable protection provided by flame retardant conduit ▪ Marine cable entries to DIN 89280 ▪ Fully wired to terminal strip ▪ Type tested stainless steel oil hoses[1)] ▪ Hinge securing mechanism for servicing ▪ Burner motor in IP 54, F, IE2	●	●	●	●	●	●	●	●	●	●	●
	optional	▪ Oil filter in spheroidal cast iron or cast steel [1) 2)]	○	○	○	○	○	○	○	○	○	○	○
Oil burners													
Control	Controller/ combustion manager	▪ 2x LAL2.25 (selectable) in control panel	●	●		●	●[3)]	●	●	●	●	●	●
		▪ 1x LOK16.250 in control panel			●		●						
		▪ 1x W-FM100 on burner							●				
	Flame sensor	▪ 1x RAR9			●		●						
		▪ 2x RAR9 (selectable)	●	●		●		●	●	●	●	●	●
		▪ 1x QRI2 (in conjunction with W-FM100)							●				
Monitoring	Oil pump fitted	▪ LGW air pressure switch		●	●								●
		▪ Low oil pressure switch (vers. HFO-MDO-MGO) ▪ High oil pressure switch (MS / RL / RMS burners) ▪ Oil pressure gauge with ball valve	●	●	●	●	●	●	●	●	●	●	●
	Oil pump external	▪ Air pressure switch ▪ Low oil pressure switch in oil supply ▪ Oil pressure gauge with ball valve in supply	●	●	●	●	●	●	●	●	●	●	●
Component heating	Version HFO	▪ Oil solenoid valves /oil pressure switch (22W) ▪ Nozzle assembly 110W ▪ Oil quantity regulator 22W (on RMS burners) ▪ Filter fitted 300W[2)]	●	●	●	●	●	●	●	●	●	●	●
	Oil pump	▪ E4-7 80W, T/TA/UHE-WH.. 110W	●	●	●	●	●	●	●	●	●	●	●
	500-700 cSt (mm^2/s) at 122F (50°C)	▪ Heated oil line and oil distributor 22W ▪ Heated oil hoses 62W	●	●	●	●	●	●	●	●	●	●	●
Gas and dual fuel burners (Gas/Oil)													
Control	Controller/ combustion manager	▪ 2x LFL1.333 (select. via switch) in control panel	●	●		●	●[3)]	●	●	●	●	●	●
		▪ 1x LGK16.333 in control panel			●		●						
		▪ 1x W-FM100 on burner							●				
	Flame sensor	▪ 2x QRA2 (select. via switch)	●	●		●		●	●	●	●	●	●
		▪ 1x QRA53/55			●		●						
		▪ 1x QRI2 (in conjunction with W-FM100)							●				
Monitoring		▪ Air pressure switch ▪ Magnetic coupling (RGL / RGMS burners) ▪ High oil pressure switch in oil return (on RGL / RGMS Brenner)	●	●	●	●	●	●	●	●	●	●	●
		▪ Low oil pressure switch in oil supply (with magnetic coupling and/or external pump) ▪ Oil pressure gauge with ball valve	●	●	●	●	●	●	●	●	●	●	●
Component heating	HFO (vers. RGMS)	▪ Oil solenoid valves / oil pressure switch 22W ▪ Nozzle assembly 110W ▪ Oil quantity regulator 22W (on RMS Brenner)	●	●	●	●	●	●	●	●	●	●	●
	Oil pump	▪ E4-7 80W, T/TA/UHE-WH.. 110W	●	●	●	●	●	●	●	●	●	●	●
	500-700 cSt (mm^2/s) at 122F (50°C)	▪ Heated oil line and oil distributor 22W ▪ Heated oil hoses 62W	●	●	●	●	●	●	●	●	●	●	●
Optional	Add. solenoid valve in supply/return as third shut off device		○	○	○	○	○	○	○	○	○	○	○
Gas valve train		▪ Version on request	●	●	●	●	●	●	●	●	●	●	●

[1)] Oil and dual fuel burners (Gas/Oil) [2)] Standard on MS7 and MS8 burners in version HFO-MDO-MGO [3)] Except for ships flying the German flag

Weishaupt burners in operation: Everywhere where quality is essential

Photo: M. Tripp Source: Alfred-Wegener-Institute

A Weishaupt RGL5 burner provides steam on the Research Ship Polarstern



Waste incinerator on the luxury liner "MS Empress" with two L1 burners

Thermal fluid oil is heated by a heavy oil burner type MS8 from Weishaupt

Many of the tanker from the shipyard Odense are equipped with Weishaupt burners such as MS / RMS 7-8

At home on all oceans
The demands on marine applications are high. Highest reliability and operational safety are therefore imperative.

Decades of experience coupled with the highest product quality and service makes us one of the leading companies in the industry.

Weishaupt burners in marine version are used around the world under the harshest conditions, for example on:
- Cruise Ships
- Ferries
- Tankers
- Container Ships
- Bulk Carriers
- Floating platforms
- Drilling rigs

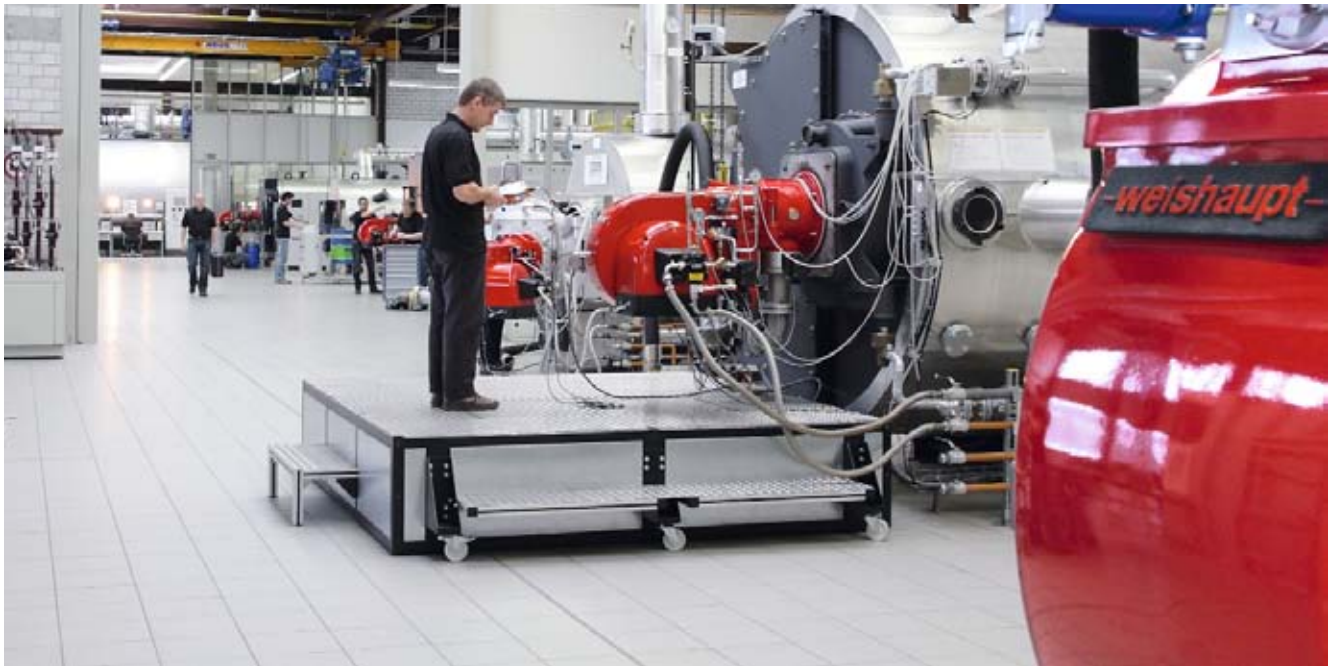
Applications:
- Auxiliary and hot water boilers
- Process plant, e.g. for
  - waste incineration
  - oil refining processes

Crude oil from the drilling rigs in the South China Sea is stored temporarily on central ship depots

Four RGL 70 burners on thermal fluid boilers ensure the crude oil can be pumped

Two RGMS70/2 burners with digital combustion management provide the necessary process heat on the oil production platform CNOOC LUDA 27-2

Our recipe for success: Innovation and modern production



The burner technology of tomorrow is tested in the Research and Development Centre

Innovative strength is provided by the in-house Research and Development Centre, which for decades has been setting standards with new product developments. Cleaner, more economical and convenient are the demands placed on new burners and heating systems.

At present, around 100 specialists are committed to fulfilling this task in Schwendi. A team, which combines special training, experience, craftsmanship, skill and creativity and is second to none in the industry.

Skill and knowledge for Weishaupt's future-proof workshops is also provided by reference sites in the field and continued customer interface. The work is carried out using modern test equipment and design offices.

Modern production methods combine optimum working conditions and maximum conservation of resources. Automated manufacturing centres, bright manufacturing facilities and efficient work processes are essential ingredients. Highest reliability of our products is the goal.

A willingness to invest ensures a modern manufacturing facility and thus quality and efficiency. Burners for worldwide use are manufactured at the parent company in Schwendi.

Care, diligence and discipline shape our business. Every action and the smallest of items is important, if the high level of customer care is to be 'built' into the burners and heating systems.

It's about the effectiveness of the test and control systems, the use of modern technology and the quality of materials as well as logistics and organisation. And it is decided by the human factor: "We deliver precision work," the motto of every Weishaupt employee.

Burners for worldwide use are manufactured in a modern workshop

All burners in marine version are fully tested on special test beds prior to delivery

– weishaupt –

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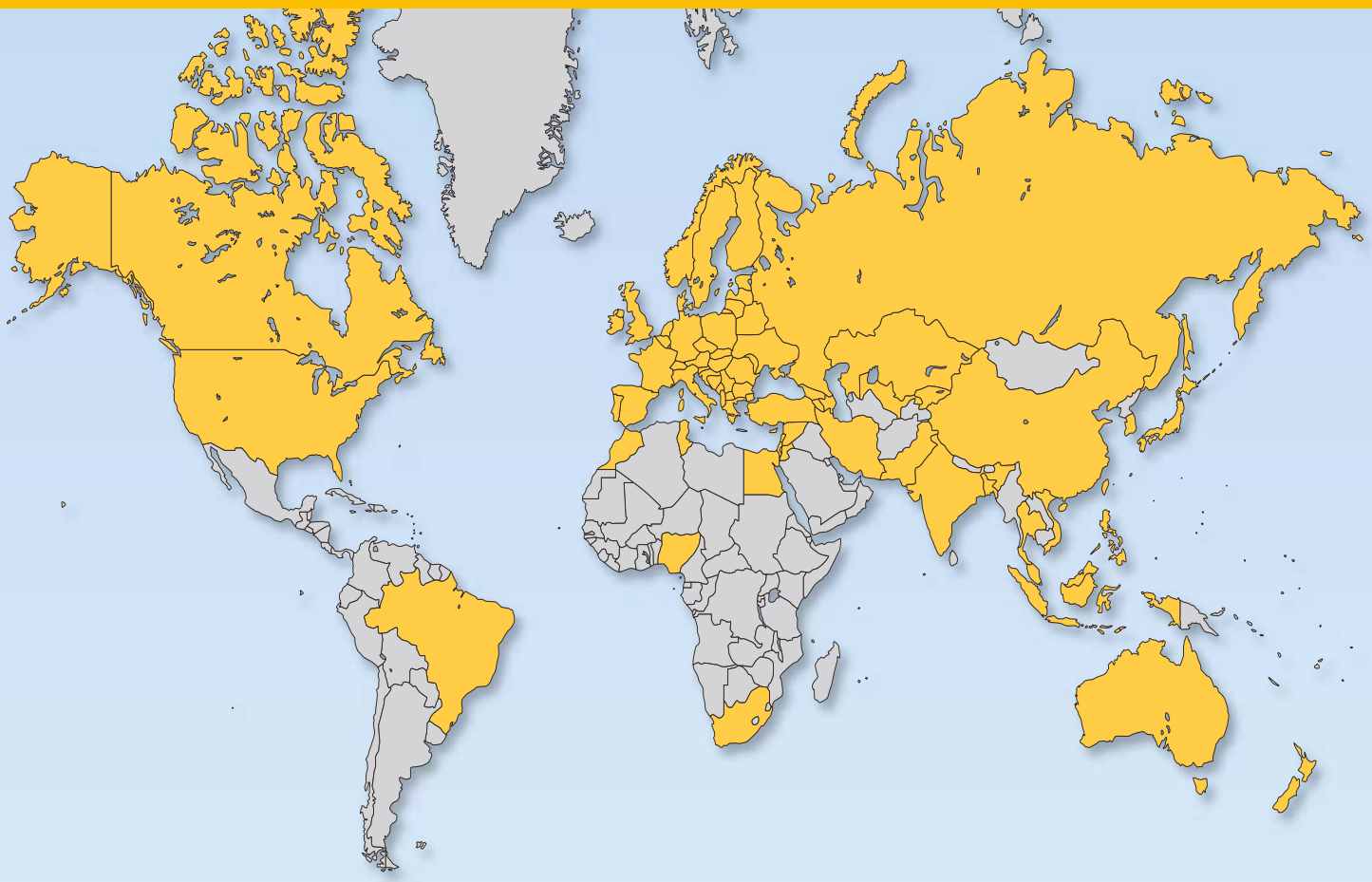
Weishaupt service worldwide: 24 hours, 365 days



Weishaupt worldwide:
The Branch Offices in Germany and the Daughter Companies, representatives and agencies abroad provide local expertise.

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