



PT. INDIRA MITRA BOILER

EXPERT IN INDUSTRIAL ENERGY



GENERAL CATALOG

PT. INDIRA MITRA BOILER

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Kosambi, Kec. Sukadiri, Kabupaten Tangerang, Banten 15530**



OUR PRODUCT



FIRE TUBE STEAM BOILER

Brand: Indira Mitra Boiler.
Firetube Boiler products supported by modern technology for the industrial market in Indonesia



WATER TUBE STEAM BOILER OUNCE TROUGH

Brand: Indira Mitra Boiler.
The main advantages are **rapid steam generation** (instant load response), **high efficiency at extreme pressures**, and **enhanced operational safety** due to the minimal water volume within the system



HOT WATER BOILER GENERATOR

Brand: Indira Mitra Boiler.
Hot Water Generator (Industrial Water Heater) is its efficiency and safety for applications that require hot water without the need to convert it into steam.

Firetube Steam Boiler

Model: IMB-FT

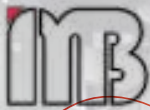
Winsketel is a legendary boiler brand in Indonesia that was founded by Ir. Gunawan, many steam boilers have been produced and have spread throughout Indonesia. One of its superior products is firetube type boiler with Gas fuel (LPG, CNG, PGN) and Light Oil.

At present, PT Indira Mitra Boiler (PT IMB) is present in partnership with Winsketel boiler into a joint team to realize superior Firetube Boiler products supported by modern technology for the industrial market in Indonesia. In this collaboration PT IMB will serve Firetube Steam Boiler fabrication which has a capacity ranging from 500kg to 10Ton / h with a working pressure of up to 20 barg.

Advantages of IDM-FT

- Easier access and lower maintenance cost.
- Three passes economic design.
- High heating surface.
- Lower metal temperature effect lower heat losses and cooler boiler room.
- Eliminate refractories, insulator and baffles.
- Increased radiant surface and bigger furnace diameter.
- Conformity with Rules, Standards and Regulations.
- Constructed and factory tested under a total Quality Management System.
- High quality fittings and components.
- Full year warranty provided by qualified after sales service.
- Large shell diameter and water line to dry steam production and large reserve.





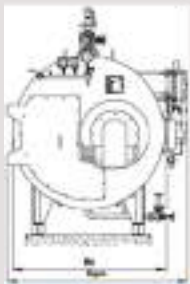
Data for Burner Determination Boiler Model: IMB-FT

Steam output kg/h	Heat output KW	Burner input kW	Length of flame tube w.o. rear reversing chamber mm	Length of rear reversing chamber mm	Inner flame tube diameter mm	Draught loss mbar
500	326	364	1400	350	576	5,8
800	522	583	1400	350	576	7,3
1000	652	728	1700	350	626	5,9
1250	815	910	1700	350	626	6,2
1600	1043	1165	1920	350	722	8,5
2000	1304	1457	2170	350	722	11,0
2500	1630	1820	2420	350	722	11,0
3200	2090	2335	2750	600	780	10,0
4000	2608	2914	3250	600	864	11,2
5000	3280	3640	3740	600	864	13,2
6000	3910	4369	4400	600	874	12,0
8000	5215	5828	4640	600	1060	14,1

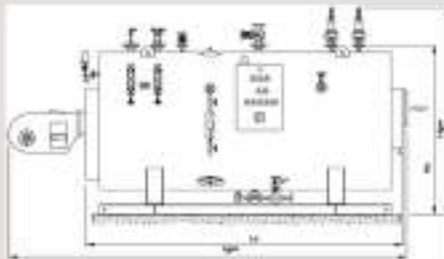


FIRETUBE STEAM BOILER – IMB-FT500 to IMB-FT8000

Boiler Dimension Three Pass Boiler Model: IMB-FT



FRONT VIEW



SIDE VIEW



 **WINSKETEL**
INDONESIA BOILER MAKER

Size	Steam output	Heat output	Water Content	Transport weight	Operating weight	H _{ges}	H _o	L _{ges}	L _o	B _{ges}	B _o
500	0.5 t/h	0.33 MW	0,9 m ³	2,3 t	3,8 t	1975 mm	1590 mm	3230 mm	2720 mm	1600 mm	1450 mm
800	0.8 t/h	0.52 MW	1,1 m ³	2,8 t	4,2 t	2125 mm	1740 mm	3230 mm	2720 mm	1750 mm	1600 mm
1000	1.0 t/h	0.65 MW	1,4 m ³	3,8 t	5,8 t	2285 mm	1900 mm	3600 mm	3020 mm	1850 mm	1710 mm
1250	1,25 t/h	0.82 MW	1,4 m ³	4,5 t	6,5 t	2285 mm	1900 mm	3700 mm	3020 mm	1850 mm	1710 mm
1800	1.6 t/h	1.05 MW	2,4 m ³	4,8 t	7,8 t	2535 mm	2090 mm	3700 mm	3220 mm	2050 mm	1900 mm
2000	2.0 t/h	1.31 MW	2,4 m ³	5,3 t	8,8 t	2535 mm	2090 mm	3900 mm	3480 mm	2050 mm	1900 mm
2500	2.5 t/h	1.63 MW	2,6 m ³	5,4 t	8,9 t	2620 mm	2090 mm	4000 mm	3730 mm	2050 mm	1900 mm
3200	3.2 t/h	2.09 MW	3,1 m ³	6,6 t	10,6 t	2720 mm	2190 mm	5100 mm	4230 mm	2200 mm	2000 mm
4000	4.0 t/h	2.61 MW	4,8 m ³	8,2 t	14,4 t	2925 mm	2340 mm	5000 mm	4730 mm	2400 mm	2150 mm
5000	5.0 t/h	3.27 MW	5,2 m ³	9,5 t	16,3 t	2925 mm	2340 mm	6130 mm	5230 mm	2400 mm	2150 mm
6000	6.0 t/h	3.92 MW	6,1 m ³	11,6 t	21,8 t	3175 mm	2590 mm	6450 mm	5750 mm	2600 mm	2350 mm
8000	8.0 t/h	5.23 MW	10,6 m ³	17,7 t	32,6 t	3605 mm	2890 mm	7320 mm	6250 mm	3000 mm	2700 mm

WATER TUBE STEAM BOILER

IMB 300 – IMB 5000



The main advantages of a Once-Through Water Tube Boiler are:

- Extremely Fast: Generates steam within minutes (instant load response).
- High Efficiency: Capable of operating at very high pressures (supercritical) to save fuel.
- Safe: Very low risk of major explosions because the water volume inside the tubes is minimal.
- Compact: Space-saving design that does not require a large steam drum.
- Automated: Usually equipped with advanced control systems for easy operation.

Technical Specifications – Capacity and Consumption

TECHNICAL DATASHEET								
Features	Unit	IMB 300	IMB 500	IMB 1000	IMB 1500	IMB 2000	IMB 3000	IMB 5000
Steam production	Kg/h	300	500	1000	1500	2000	3000	5000
Design pressure	bar	12	12	12	12	13	12	12
Max working pressure	bar	10	10	10	10	10	10	10
TOTAL ELECTRIC POWER								
Heavy fuel oil	KW	4,3	5,3	9,6	12,9	16,0	24,0	32
Natural gas or diesel oil	KW	2,3	2,3	4,6	5,9	7,0	12,0	18
FUEL CONSUMPTION AT 100% OF THE LOAD								
Heavy fuel oil	Kg/h	22	36	72	110	145	218	363
Natural gas	Nm ³ /h	25	41	81,5	124,5	164	247	411
Diesel oil	kg/h	23	36	76	116	153	230	383
FUEL CALORIFIC POWER								
Heavy fuel oil	Kcal/kg	9500						
Natural gas	Kcal/Nm ³	8400						
Diesel oil	Kcal/kg	9000						
Standard electric power data	380 V / 50 Hz / 3 phases with neutral							
Available voltage	220 V							

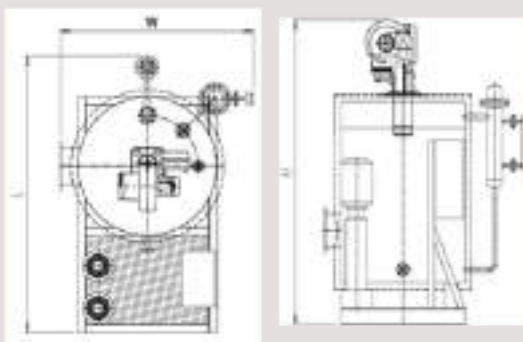


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Dimensions of flash coil steam generators IMB300-5000

Vertical Design



OVERALL DIMENSIONS AND CONNECTIONS OF STEAM GENERATORS IMB 300-5000								
MODEL		IMB 300	IMB 500	IMB 1000	IMB 1500	IMB 2000	IMB 3000	IMB 5000
VERTICAL VERSION DIMENSIONS								
L	Length	mm	1650	1900	2200			
W	Width	mm	1080	1180	1600			
H	Height	mm	1950	2400	3050			
HORIZONTAL VERSION DIMENSIONS								
L	Length	mm			2400	2900	3550	4100
W	Width	mm			1280	1400	1500	1750
H	Height	mm			1650	1700	1850	2200
GENERAL TECHNICAL DATA								
Stock connection	mm	250	250	320	385	385	485	485
Steam outlet	DN	25	40	50	65	80	100	125
	PN	16	16	16	16	16	16	16
Safety valve	DN	20/40	20/40	20/40	25/40	25/40	40/50	50/65
	PN	25/16	25/16	25/16	25/16	25/16	25/16	25/16
Natural gas connection	"G	1 1/2"	2"	2"	2"	2"	2 1/2"	2 1/2"
Feed water inlet	"G	1"	1"	1"	1"	1 1/2"	1 1/2"	2"
Total volume	l	208	370	420/850	1100	2400	2710	3100
Pipes diameter	mm	60.3	60.3	60.3/50.8	50.8	50.8	50.8	50.8
Heating surface	m ²	5	8.8	14	18	32	34	34
Empty weight	Kg	750	900	1100	2200	2800	3400	4300



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HOT WATER BOILER

IMB 70 TO IMB 5000



advantages of a Hot Water Generator can be summarized as follows:

- **Enhanced Safety:** It has a very low risk of explosion because it operates at low pressures and does not produce steam.
- **Energy Efficiency:** It is more efficient than steam systems because it doesn't require the extra energy (latent heat) needed to convert water into vapor.
- **Stable Temperature:** It is highly accurate at maintaining a consistent and uniform water temperature.
- **Easy Maintenance:** Its simple design, without complex components like steam drums or steam traps, makes it easier and cheaper to maintain.
- **Space-Saving:** It is typically more compact than traditional steam boilers, requiring less installation space

OVERALL DIMENSIONS AND CONNECTIONS OF STEAM GENERATORS IMB70-3000

MODEL		IMB 70	IMB 200	IMB 500	IMB 1000	IMB 1500	IMB 2000	IMB 3000
VERTICAL VERSION DIMENSIONS								
L	Length	mm	1350	1650	1900	2200		
W	Width	mm	900	1080	1180	1600		
H	Height	mm	1850	1950	2400	3050		
HORIZONTAL VERSION DIMENSIONS								
L	Length	mm				2400	2900	3550
W	Width	mm				1280	1400	1500
H	Height	mm				1650	1700	1850
GENERAL TECHNICAL DATA								
Stack connection	mm	250	250	250	320	320	385	385
Steam outlet	DN	25	25	40	50	50	65	80
	PN	16	16	16	16	16	16	16
Safety valve	DN	20/40	20/40	20/40	20/40	20/40	25/40	25/40
	PN	25/16	25/16	25/16	25/16	25/16	25/16	25/16
Natural gas connection		1" G	1" G	1 1/2" G	2" G	2" G	2" G	2" G
Feed water inlet		1" G	1" G	1" G	1" G	1" G	1" G	1 1/2" G
Total volume	l	208	208	370	620/850	620/850	1100	2400
Pipes diameter	mm	60,3	60,3	60,3	60,3/50,8	60,3/50,8	60,3	50,8
Heating surface	m ²	6	6	8,8	14	14	18	32
Empty weight	Kg	600	750	900	1100	1100	2200	2800



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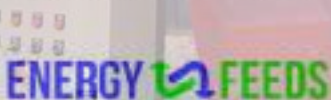
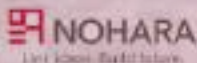
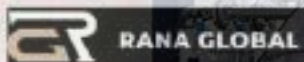
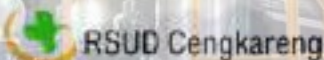
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CUSTOMER LIST



sahabat utama



Grand Zuri



posco M-TECH

nusantara terminal terpadu



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PROJECT REVERENSI

GENERAL INDUSTRY



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General Business Creation: Kuba S. Dasa, Jakarta, Kab. Tangerang, Banten (ACE) Indonesia



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