

# IF Series Gas Fired

## Boiler Specifications (IF Series - Gas fired)

Boiler model		IF-3000CGE	IF-4000CGE	IF-5000CGE	IF-6000CGE	
		Equivalent evaporation	kg/h	3,000	4,000	5,000
Actual evaporation	kg/h	2,516	3,354	4,192	5,031	
Maximum working pressure	MPa	0.98				
Heat surface	m <sup>2</sup>	18.6		29.4		
Combustion control		PID continuous				
Feed water control		PID continuous				
Used fuel		Natural Gas, LPG				
Gas supply pressure	MPa	0.078~0.294 (NG)		0.098~0.294 (NG)		
Boiler efficiency	%	98				
Fuel consumption	m <sup>3</sup> /h	170.3	227.0	283.7	340.4	
Feed water temperature	°C	15 ~ 100				
Holding water quantity	L	620		990		
Dry weight	kg	5,000		7,800		
Power supply		AC380V·50Hz·3φ				
Power capacity	Forced draft fan	kW	11	15	15	22
	Feed water pump	kW	3.0	3.0	4.0	5.5
	Control panel	kW	0.5			

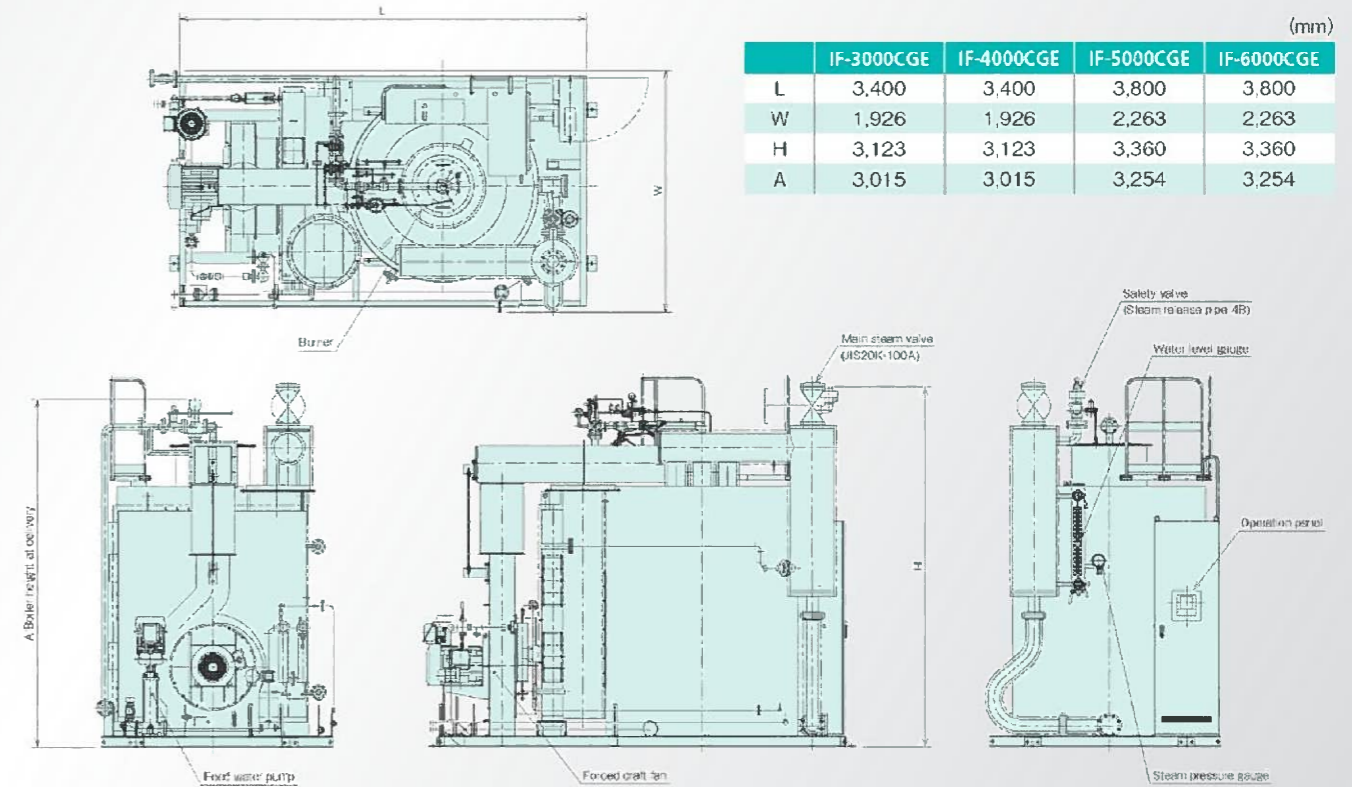
**[NOTE]**

- The fuel gas consumption is shown based on the fuel's lower heating value at 40.6 MJ/m<sup>3</sup> (NG).
- Equivalent evaporation is specified on condition that feed water of 100°C change into steam of 100°C.
- Actual evaporation is indicated based on the steam pressure of 0.49MPa and the feed water temperature of 15°C.
- Boiler efficiency is indicated based on the steam pressure of 0.49MPa, the feed water temperature of 15°C and the room temperature of 35°C.
- Boiler efficiency shall have the following tolerance, boiler efficiency: ±1%, fuel consumption: ±3.5%.
- Gas supply pressure is the value required to operate at the rated fuel consumption.
- When planning the fuel gas piping, check to see if this gas supply pressure is kept in advance.
- Feed water temperature exceeding 100°C can be applied as option.
- Maximum working pressure exceeding 0.98MPa can be applied as option.

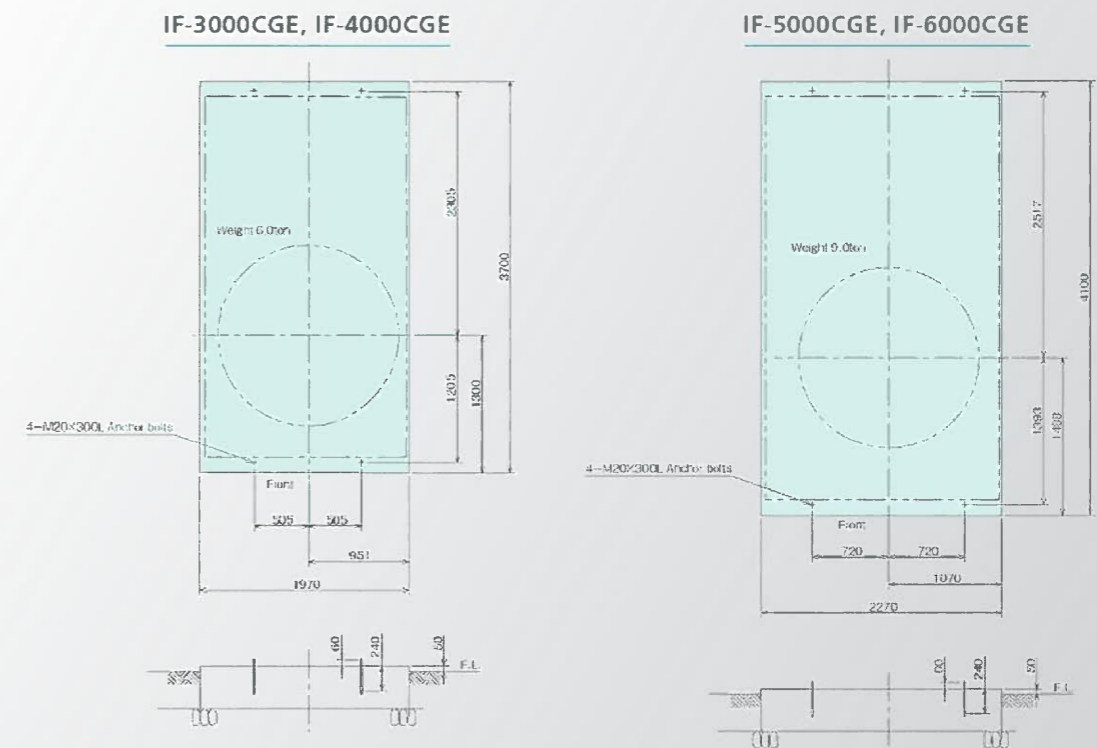
[OPTION] 1.56MPa, 1.96MPa, 2.35MPa, 3.2MPa

· The parameters described in this table list of specification can be changed by the manufacturer for the purpose of technical improvement without notice.

### Dimension



### Foundation





# IF Series Oil Fired

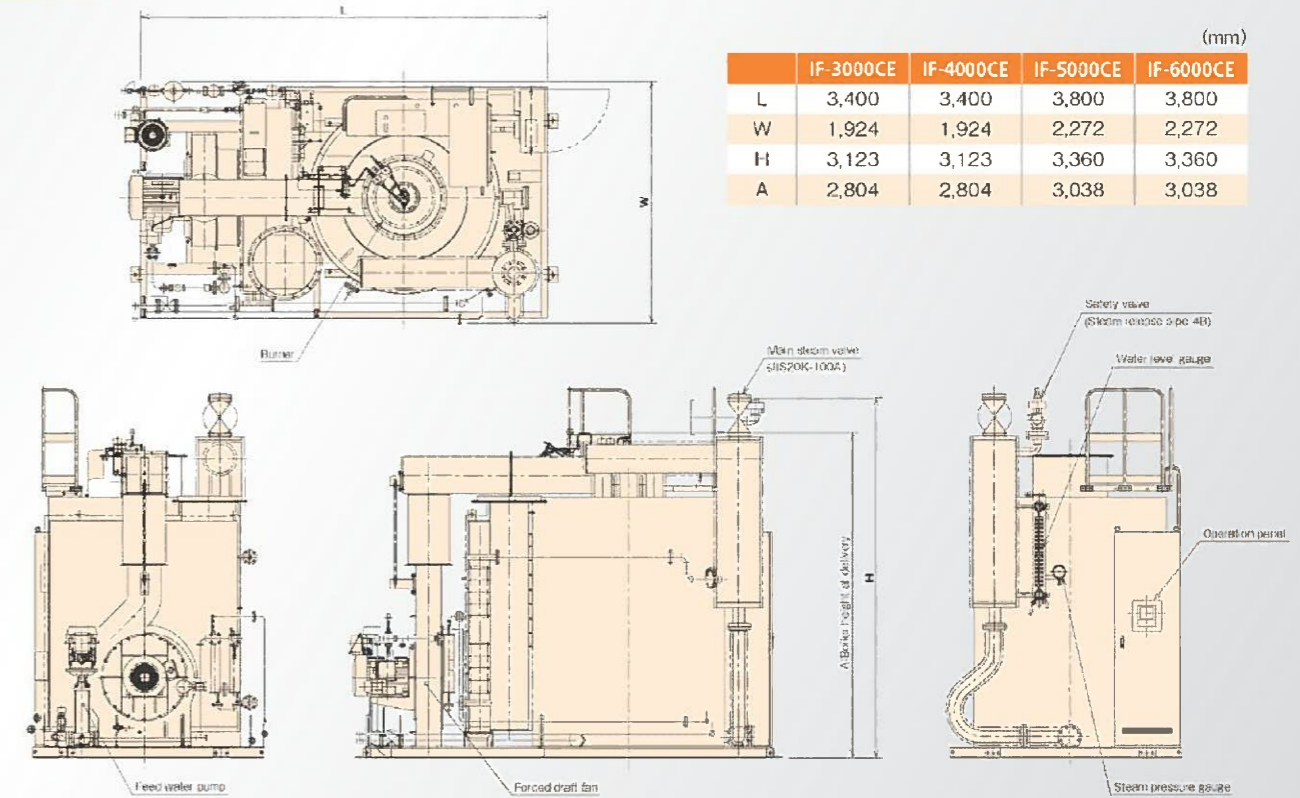
## Boiler Specifications (IF Series - Oil fired)

Boiler model		IF-3000CE	IF-4000CE	IF-5000CE	IF-6000CE	
Equivalent evaporation	kg/h	3,000	4,000	5,000	6,000	
Actual evaporation	kg/h	2,516	3,354	4,192	5,031	
Maximum working pressure	MPa	0.98				
Heat surface	m <sup>2</sup>	18.6		29.4		
Combustion control		PID continuous				
Feed water control		PID continuous				
Used fuel		Diesel Oil				
Boiler efficiency	%	95				
Fuel consumption	kg/h	167.0	222.6	278.2	333.9	
Feed water temperature	°C	55 ~ 100				
Holding water quantity	L	620		990		
Dry weight	kg	5,000		7,800		
Power supply		AC380V-50Hz-3φ				
Power capacity	Forced draft fan	kW	11	15	15	22
	Feed water pump	kW	3.0	3.0	4.0	5.5
	Feed oil pump	kW	1.5			
	Control panel	kW	0.5			

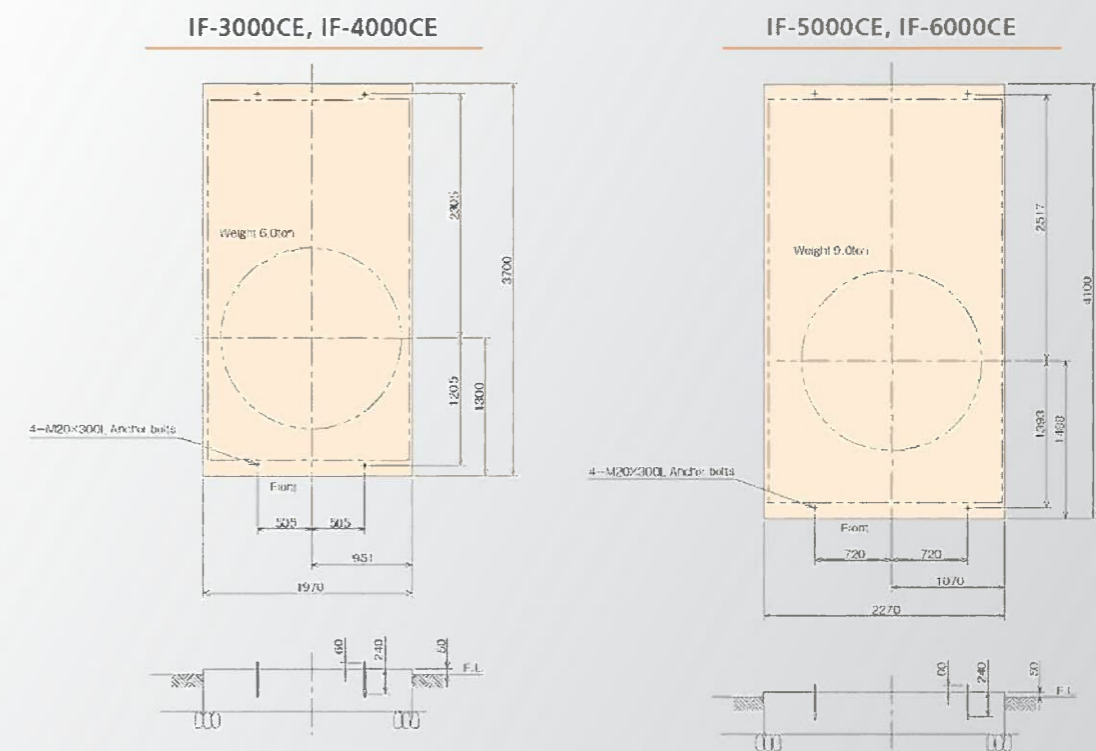
**[NOTE]**

- The fuel oil consumption is shown based on the fuel's lower heating value at 42.7 MJ/kg.
- Equivalent evaporation is specified on condition that feed water of 100°C change into steam of 100°C.
- Actual evaporation is indicated based on the steam pressure of 0.49MPa and the feed water temperature of 15°C.
- Boiler efficiency is indicated based on the steam pressure of 0.49MPa, the feed water temperature of 15°C and the room temperature of 35°C.
- Boiler efficiency shall have the following tolerance, boiler efficiency: ±1%, fuel consumption: ±3.5%.
- Feed water temperature exceeding 100°C can be applied as option.
- Maximum working pressure exceeding 0.98MPa can be applied as option.  
[OPTION] 1.56MPa, 1.96MPa ( 2.35MPa, 3.2MPa)
- The parameters described in this table list of specification can be changed by the manufacturer for the purpose of technical improvement without notice.

### Dimension



### Foundation





# IF Series Gas Fired Oil Fired

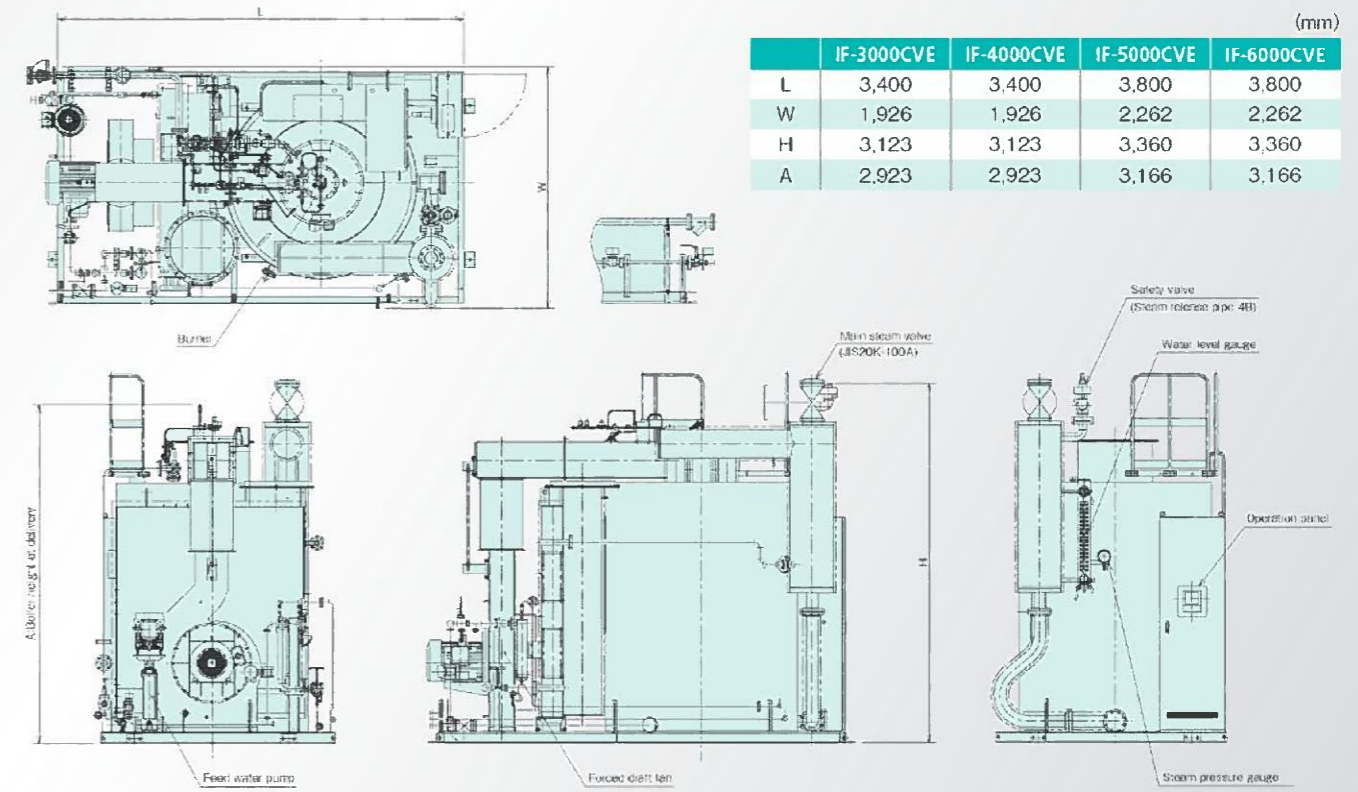
## Boiler Specifications (IF Series - Dual fuel fired)

Boiler model		Boiler model				
		IF-3000CVE	IF-4000CVE	IF-5000CVE	IF-6000CVE	
Equivalent evaporation	kg/h	3,000	4,000	5,000	6,000	
Actual evaporation	kg/h	2,516	3,354	4,192	5,031	
Maximum working pressure	MPa	0.98				
Heat surface	m <sup>2</sup>	18.6		29.4		
Combustion control		PID continuous				
Feed water control		PID continuous				
Used fuel		Natural Gas & Diesel Oil				
Gas supply pressure	MPa	0.078~0.294 (NG)		0.098~0.294 (NG)		
Boiler efficiency	%	95				
Fuel consumption (Gas)	m <sup>3</sup> /h	175.6	234.1	242.6	351.1	
Fuel consumption (Oil)	kg/h	167.0	222.6	278.2	333.9	
Feed water temperature	°C	55 ~ 100				
Holding water quantity	L	620		990		
Dry weight	kg	5,000		7,800		
Power supply		AC380V·50Hz·3φ				
Power capacity	Forced draft fan	kW	11	15	15	22
	Feed water pump	kW	3.0	3.0	4.0	5.5
	Feed oil pump	kW	1.5			
	Control panel	kW	0.5			

**[NOTE]**

- The fuel consumption is based on the following fuels lower heating value: 40.6 MJ/m<sup>3</sup> (NG), 42.7 MJ/kg (Diesel Oil)
- Equivalent evaporation is specified on condition that feed water of 100°C change into steam of 100°C.
- Actual evaporation is indicated based on the steam pressure of 0.49MPa and the feed water temperature of 15°C.
- Boiler efficiency is indicated based on the steam pressure of 0.49MPa, the feed water temperature of 15°C and the room temperature of 35°C.
- Boiler efficiency shall have the following tolerance: boiler efficiency: ±1%, fuel consumption: ±3.5%.
- Gas supply pressure is the value required to operate at the rated fuel consumption. When planning the fuel gas piping, check to see if this gas supply pressure is kept in advance.
- Feed water temperature exceeding 100°C can be applied as option.
- Maximum working pressure exceeding 0.98MPa can be applied as option.  
[OPTION] 1.56MPa, 1.96MPa ( 2.35MPa, 3.2MPa)
- The parameters described in this table list of specification can be changed by the manufacturer for the purpose of technical improvement without notice.

### Dimension



### Foundation

