



# IFIRE™

300 MBH    400 MBH  
500 MBH    650 MBH  
800 MBH    1000 MBH



COMMERCIAL

High Efficiency Commercial Modulating  
**CONDENSING BOILER** and **VOLUME WATER HEATER**



**IBC®**

# VERSA IC® Intelligence

The IFIRE Intuitive VERSA IC touchscreen controller enables precise modulating temperature control, monitors safety limits, and offers ignition programming in one user-friendly integrated control platform.

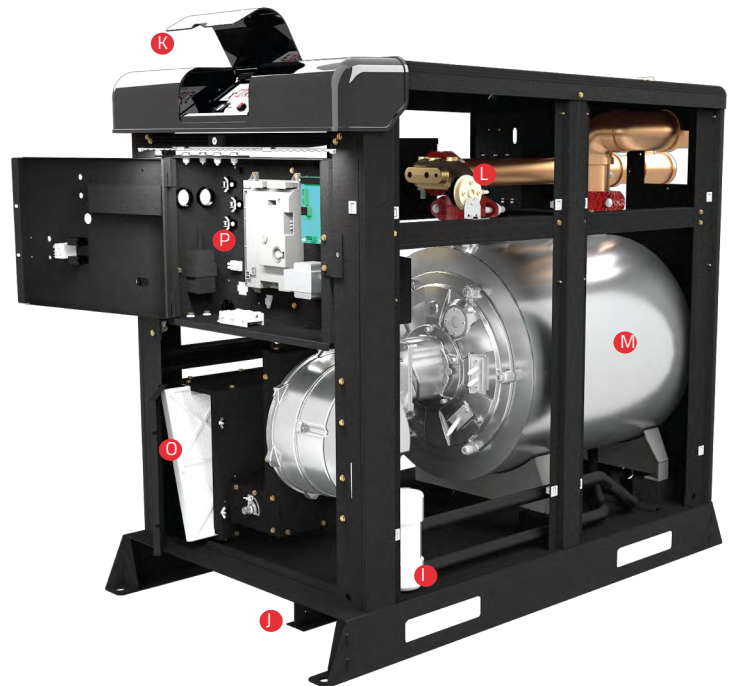
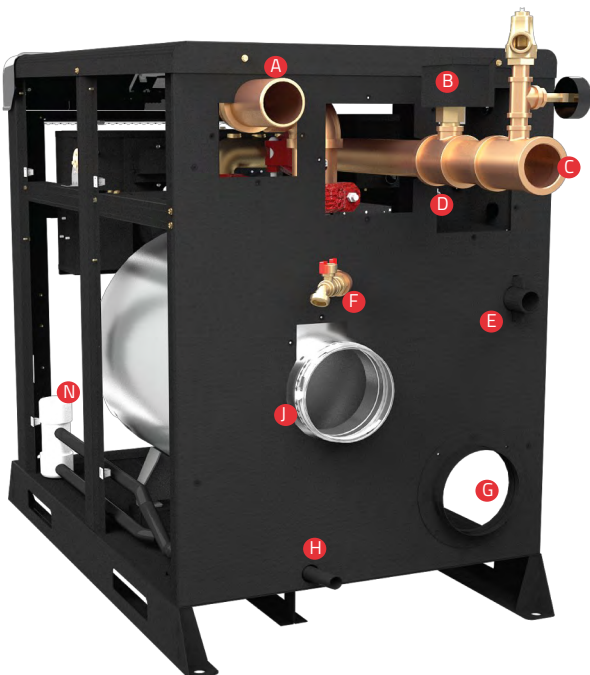
With self-learning features that prevent equipment damage, our automated controller is easy to set-up, understand, and use, making it as close to plug n' play as possible.

# SELF LEARNING



## Interior

- |                                |   |  |  |
|--------------------------------|---|--|--|
| A) Water inlet                 | F) Drain valve                          | K) Outdoor protective bezel                    | N) Condensate trap                         |
| B) Flow switch                 | G) Air Intake - optional                | L) Blocked vent pressure switch                | O) Air filter                              |
| C) Water outlet                | H) Condensate drain                     | M) Stainless steel heat exchanger (gasketless) | P) Junction box with PM and VERSA IC board |
| D) High voltage storage wiring | I) Forklift/pallet-jack accessible base |  | Q) VERSA IC® controller                    |
| E) Gas connection              | J) Vent                                 |  | R) Service light                           |





## Suitable for the following projects

- SCHOOLS
- HEALTHCARE FACILITIES
- RESTAURANTS
- HOTELS
- RECREATIONAL FACILITIES
- OFFICE BUILDINGS
- FACTORIES / WAREHOUSING / FARMS
- LARGE RESIDENCES / MULTI-FAMILY HOUSING
- APARTMENT BUILDINGS
- COMMERCIAL GARAGES



## CONDENSING BOILER or VOLUME WATER HEATER

Engineered for maximum performance, the IFIRE offers unprecedented value in the commercial new project or retrofit marketplace by providing stainless-steel water-tube construction, versatile design and adaptive controls on an intuitive Versa IC® self learning touchscreen control.

Both options have 6 models from 300,000 to 1,000,000 Btu/hr

### Features

#### Intelligent controls

- VERSA IC® touchscreen enables modulating temperature control, safety limits and ignition programming into one user-friendly integrated control platform.
- Fault history with full diagnostics
- Three pump control (DHW, system and boiler)
- Modbus RTU BMS port

#### Instant visibility

- Built-in service light. Aids in quick visual status of the boiler and acts as a service light for boiler maintenance of the heater

#### Maximum performance

- Up to 96.5% thermal efficiency at full rate
- Cascade up to 8 heaters
- 7:1 turndown
- No external controls required.
- SQAQMD certified ultra-low NO<sub>x</sub>, <20PPM

#### Easy to install and service

- Safety certified for indoor/outdoor installation
- More venting options. Every IFIRE is direct vent capable and comes standard with an outdoor air intake air cover
- CAT IV or direct vent
- PVC, CPVC, polypropylene or stainless-steel compatible up to 100ft
- Zero side clearances to combustibles for easy installation
- Drain valve allows for easier servicing and reduced time on the job
- Forklift and pallet-jack accessible base
- Easy access to all components in the boiler

#### Durability

- Stainless steel construction
- 100% factory tested, ASME Certified
- Galvanized steel jacket with UV-resistant powder coat
- All IFIRE models are designed, engineered and assembled in America



## Instant visibility

Built-in multi-function IBC status light not only adds to the IFIRE new sleek design, it also aids in quick visual status of the boiler and a service light for maintenance.



Power off



Power on



Burner on

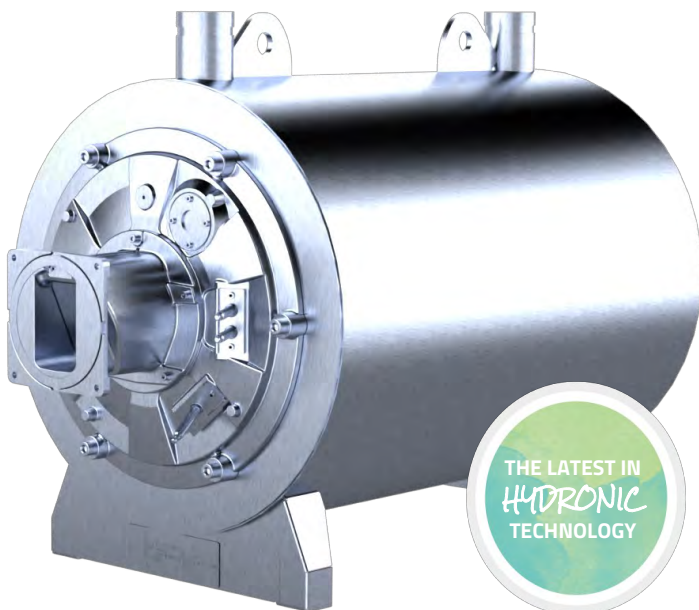


Error

## Welded SS heat exchanger

(No gasket)

Stainless steel conducts heat fast and saves energy. Higher temperature tolerances and better corrosion resistance guarantee a superior quality ASME certified heat exchanger that's 100% factory tested.



THE LATEST IN  
HYDRONIC  
TECHNOLOGY

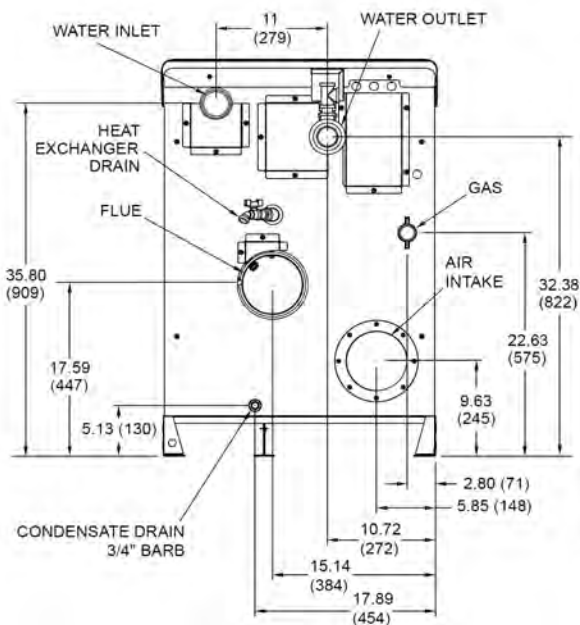
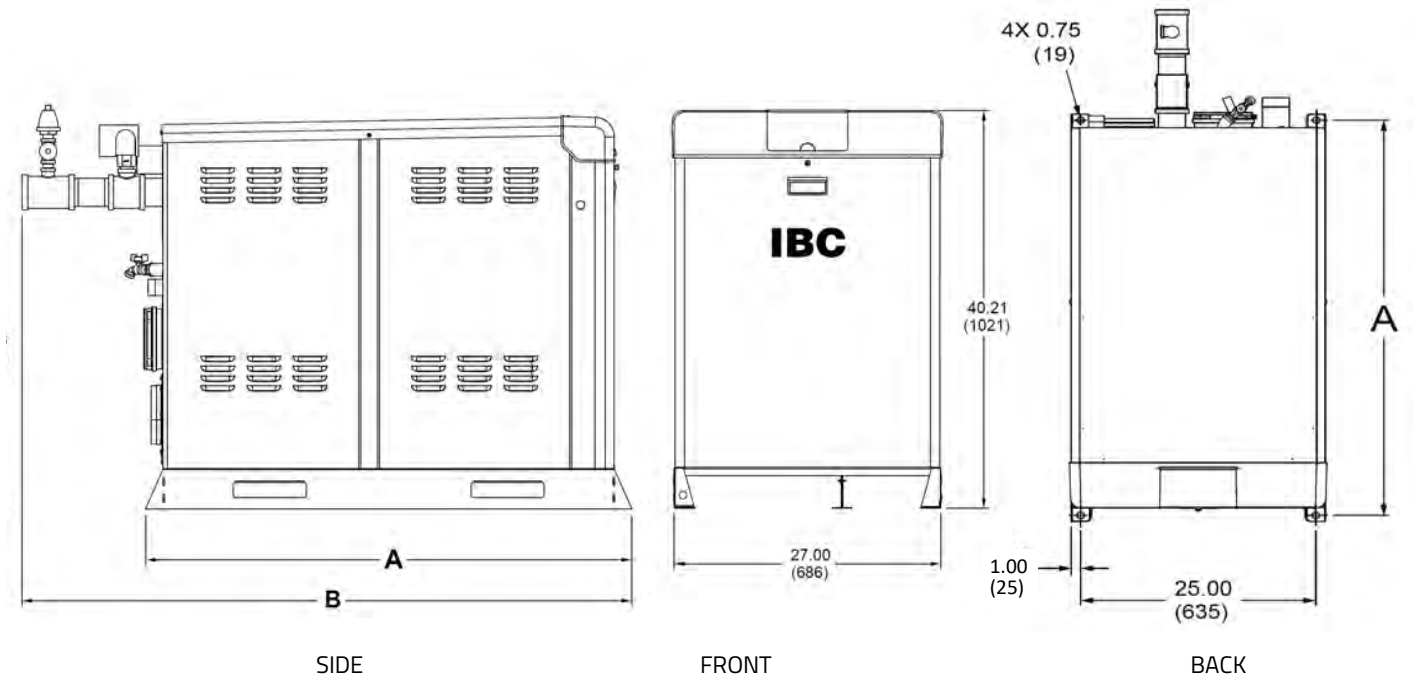


# Dimensions & Clearances

## DIMENSIONS

VOLUME WATER HEATING	HYDRONIC HEAT	A BASE DEPT	B	C HEIGHT	WATER INLET/ OUTLET NPT	FLUE Ø	AIR INTAKE Ø
IFIRE 300	IFIRE 300B	36.83 (935)	45.34 (1151)	35.33 (897)	2 (50)	4 (100)	4 (100)
IFIRE 400	IFIRE 400B	36.83 (935)	45.34 (1151)	35.33 (897)	2 (50)	4 (100)	4 (100)
IFIRE 500	IFIRE 500B	36.83 (935)	45.34 (1151)	35.33 (897)	2 (50)	4 (100)	4 (100)
IFIRE 650	IFIRE 650B	45.22 (1148)	54.66 (1388)	42.75 (1111)	2 (50)	6 (150)	6 (150)
IFIRE 800	IFIRE 800B	45.22 (1148)	54.66 (1388)	42.75 (1111)	2 (50)	6 (150)	6 (150)
IFIRE 1000	IFIRE 1000B	50 (1270)	62.75 (1593)	48.50 (1231)	2.5 (6.5)	6 (150)	6 (150)

Dimensions are shown in inches (mm)



## CLEARANCE FROM BOILER CABINET

Surface	Distance from combustible surfaces		Recommended distance for installation and service	
	INDOOR	OUTDOOR	INDOOR	OUTDOOR
Rear	24 (610)	24 (610)	24 (610)	24 (610)
Right Side	0	0	0	0
Left Side	0	0	0	0
Top	0	0	0	0
Front	Open	Open	30 (762)	30 (762)
Vent	1 (25)	Open	-25	Open

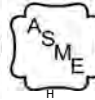
Dimensions are shown in inches (mm)



# Technical Information



Heat Only



## SPECIFICATIONS

MODEL NAME	MODEL#	IBC PART#	MBTUH (KW) INPUT	MBTUH (KW) OUTPUT	AHRI THERMAL EFFICIENCY	TURNDOWN	OPERATING WEIGHT IBS. (KG)
<b>VOLUME WATER HEATING</b>							
<b>IFIRE 300</b>	IBGWSF1-0300	016-061	300 (88)	289.5 (85)	96.5%	7:1	411 (186)
<b>IFIRE 400</b>	IBGWSF1-0400	016-071	399 (117)	383 (112)	96%	7:1	411 (186)
<b>IFIRE 500</b>	IBGWSF1-0500	016-081	500 (147)	480 (141)	96%	7:1	416 (189)
<b>IFIRE 650</b>	IBGWSF1-0650	016-091	650 (191)	624 (183)	96%	7:1	501 (227)
<b>IFIRE 800</b>	IBGWSF1-0800	016-101	800 (235)	768 (225)	96%	7:1	547 (248)
<b>IFIRE 1000</b>	IBGWSF1-1000	016-111	1000 (294)	960 (281)	96%	7:1	627 (284)
<b>HYDRONIC HEATING</b>							
<b>IFIRE 300B</b>	IBGWSF1-0300B	016-000	300 (88)	289.5 (85)	96.5%	7:1	411 (186)
<b>IFIRE 400B</b>	IBGWSF1-0400B	016-010	399 (117)	383 (112)	96%	7:1	411 (186)
<b>IFIRE 500B</b>	IBGWSF1-0500B	016-020	500 (147)	480 (141)	96%	7:1	416 (189)
<b>IFIRE 650B</b>	IBGWSF1-0650B	016-030	650 (191)	624 (183)	96%	7:1	501 (227)
<b>IFIRE 800B</b>	IBGWSF1-0800B	016-040	800 (235)	768 (225)	96%	7:1	547 (248)
<b>IFIRE 1000B</b>	IBGWSF1-1000B	016-050	1000 (294)	960 (281)	96%	7:1	627 (284)

All models ship natural gas and are propane field convertible



We are committed to delivering a *GREATER DEGREE OF GOOD* across the globe - through our intelligent products, responsible processes and inspired people.



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**Toll Free: 1-844-HEAT IBC / 1-844-432-8422**

All information contained in this brochure is subject to change without notice. Due to clerical error, regulation change or product development please confirm all information with IBC.

