Thermax Indirect Fired Water Bath (IFWB) Vaporizers are typically used for LNG satellite plants, LNG peak shaving, LNG virtual pipeline, oxygen, nitrogen, argon or carbon dioxide (CO₂) gas supply installations and large scale oxygen and nitrogen plant back-up systems.

The water bath ensures smooth and continuous operation, even in case of power failure.

Product range includes stationary and trailer mounted mobile units.

IFWB vaporizers consist of a Thermax Vortex-Flow™ vaporizing tube bundle that is submerged in a water bath. The water bath is indirectly heated and temperature controlled by hot combustion gases flowing through the Thermax Vortex-Flow™ submerged fire tube. The unit comes complete with fuel train burner(s), blower(s), ASME code stamped tube bundle, water bath shell and controls. The burner and blower are enclosed in a weather proof protective shield.

**Standard features**

- ASME Sect VIII Div. 1 code stamp on bundle
- Auto-fill water level switch & valve
- Fully assembled with fuel train, blower and burner automatic control system
- NEMA 4 electrical cabinet & gas train
- On demand spark ignition with auto-rerest after power outage
- Stainless steel removable tube bundle
- Temperature gauge & Sight glass
- Man-way for easy access
- NFPA 87 – Integrated controls
- High/low water temperature sensor
- First Out Annunciation Burner Controls

**Options**

- Low NOX and Ultra-Low NOX Emission Combustion Systems
- Approval for CSA components, CRN registration
- Low/high temperature kit
- Coil bundle made from Hasteloy, Monel, Duplex or Titanium
- Fail safe process gas shut down valve
- Dual redundant burner system (lead lag or standby)
- Low temperature process gas sensor
- Oversized tanks for up to 30 minutes of ballast
- Dual process bundle
- Pressure build circuit
- Tank insulation
- Trailer Mounted Mobile Units
- Digital Output to Plant Control Room
INDIRECT FIRED WATER BATH
IFWB VAPORIZERS

PERFORMANCE:
Thermax IFWB vaporizers offer a safe and reliable cryogenic or liquefied gas source for standby or continuous operation. IFWB vaporizers go from cold start to full capacity within ten minutes of start-up or instantaneously when left in standby mode.

The large capacity vaporizers have rated flows up to 6,000 MSFH (O2, N2, or LNG) in standard models.

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<tr>
<th>IFWB Product Line</th>
<th>Min</th>
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<th>Min</th>
<th>Max</th>
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All tables shown on this Datasheet are intended as a guide that reflect our experience on these models. Actual performance may vary. Please call Chart Inc. for specific applications. This product and/or data was designed and/or developed by Thermax Inc. and shall not be used in any way injurious to the interests of Chart Inc.