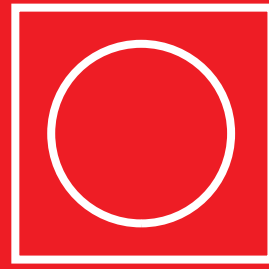
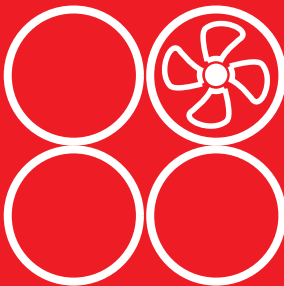
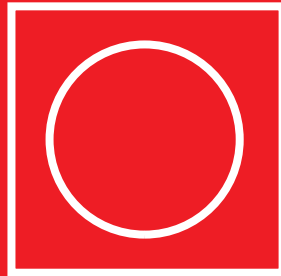
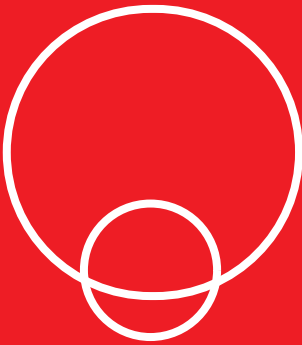


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Knowledge
Based



Since 1975



PACKMAN
Industrial Group



Condensing Boiler
(ATRISA Mega)

powered by PACKMAN industrial group



ATRISA Mega



Product Description

Eco-Friendly Efficiency, Enhanced Profitability for Your Business

The ATRISA Mega condensing boiler integrates advanced proprietary boiler and burner technologies, delivering a standout solution in the condensing boiler industry. This innovative blend of technologies ensures safe, efficient, reliable, and eco-friendly performance across a wide range of applications At a Glance .

The ATRISA Mega represents decades of expertise in boiler engineering. By integrating AtrisaPlus firetube core technology with key design elements of Optima condensing boilers, it delivers the most efficient dual-fuel condensing boiler available on the market.



The ATRISA Mega boiler offers the following advantages

- **Energy-efficient operation:** It reduces electrical consumption while maintaining a low waterside pressure drop.
- **Environmentally conscious burner design:** It achieves very low emissions when using natural gas (30 ppm NOx standard) and #2 oil (60 ppm NOx), with an optional 7 ppm NOx available for gas-only applications.
- **Enhanced efficiency:** Utilizing a state-of-the-art burner with low excess air levels, the ATRISA Mega improves boiler efficiency and condensing performance. It operates at lower flue gas dew-point temperatures, enabling condensing performance even at higher return-water temperatures.



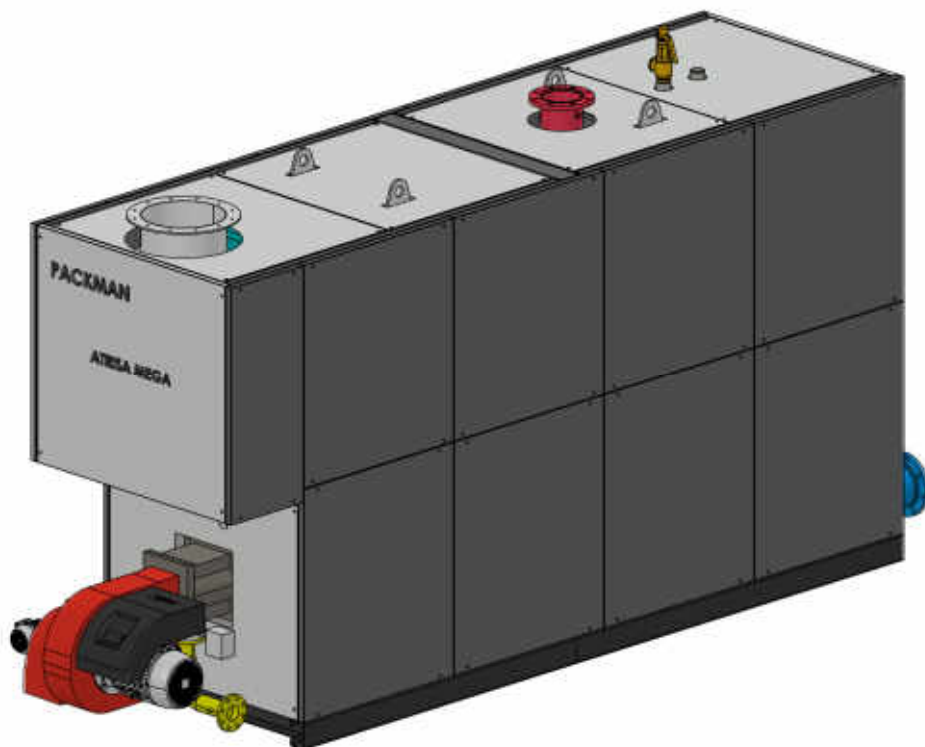
The ATRISA Mega hydronic boiler is designed for systems that require dual-fuel capabilities, such as healthcare facilities and other critical operations. It can run on natural gas or #2 fuel oil and offers a gas-only option for larger capacities.

Proprietary Firetube Heat Exchanger: Constructed from 316L stainless steel, the firetube heat exchanger guarantees optimal heat transfer and condensing performance. Its design is not only reliable but also easy to clean and maintain. This technology has been successfully utilized in Optima firetube boilers for over a decade and is now incorporated into our condensing model.

Large furnace: It features a large furnace that enables optimized combustion, delivering the lowest emissions on the market.

Advanced Heat Exchanger

Utilizing cutting-edge engineering techniques, ATRISA Mega has developed Heat Exchanger technology that enhances heat transfer by up to 85% compared to traditional boiler tubes. This advancement facilitates optimal furnace design and contributes to achieving the lowest possible emissions. Additionally, the Heat Exchanger delivers outstanding condensing performance at all firing rates when compared to standard tubes.





Ease of Maintenance

The ATRISA Mega floor-mounted burner provides convenient access for maintenance. The powder-coated steel casing panels are designed for easy removal, simplifying service and up keep.

Industrial Burner and Controls

Leveraging a Raadman burner and advanced control systems, the ATRISA Mega delivers exceptional efficiencies and performance when operating on both natural gas and #2 fuel oil.

Reliable Industrial Burner: The robust Raadman burner, combined with the Siemens controls platform, ensures optimized combustion and user-friendly operation.

Enhanced Condensing Capability: With low excess air levels, the boiler can condense effectively at higher return water temperatures compared to other condensing boilers, resulting in a more efficient system.

Low Emission Standards: The ATRISA Mega achieves emission levels as low as 7 ppm NO_x in the gas-only configuration, and 30 ppm NO_x for natural gas and 60 ppm NO_x for #2 oil in the dual-fuel version, making it a leading choice in the market for dual-fuel condensing boilers with excellent operational efficiency and minimal emissions.

Operating Efficiency

To ensure optimal operating efficiency, product engineers focus on maintaining consistent excess air across the firing range. Lowering excess air levels directly contributes to increased efficiency. The ATRISA Mega boiler is designed to provide low and consistent excess air from low to high fire, optimizing both combustion efficiency and condensing performance by keeping the flue gas dew point as high as possible.



Raadman Burner

Designed for ATRISA Mega: Specifically optimized for use with the ATRISA Mega boiler.

Flexible Turndown: Offers up to 6:1 turndown capability for both gas and #2 oil.

Dual-Fuel Capability: Combines gas and light oil fuels for versatile operation.

Pressure Atomization: Features pressure atomization for light oil, utilizing an integral oil pump.

Advanced Control Systems: Incorporates Siemens LMV controls for enhanced performance

Applications:

Reliability for Critical Systems like Healthcare

Manufacturing Processes

Building Heat

Campus Systems

Healthcare facilities represent a significant market for the ATRISA Mega boiler. Many facilities, in accordance with hospital code requirements, mandate a redundant fuel source, often #2 oil. As the industry transitions towards condensing hydronic boilers, the ATRISA Mega emerges as the ideal solution for a dependable and safe heating hot water boiler.

Dimensions and Ratings ATRISA Mega

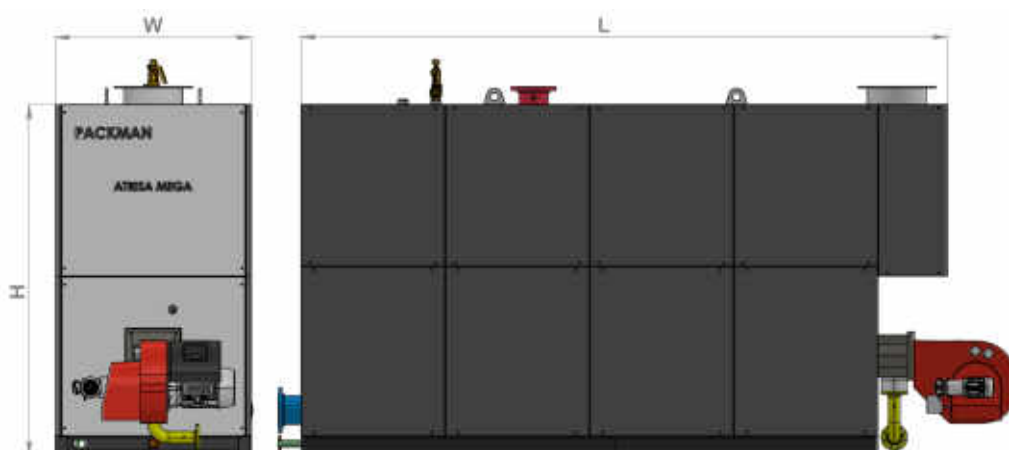
Exceptional Efficiency: Fully condensing design achieves up to 98% efficiency.

Flexible Modulation: Offers up to 6:1 fully modulating turndown for versatile operation.

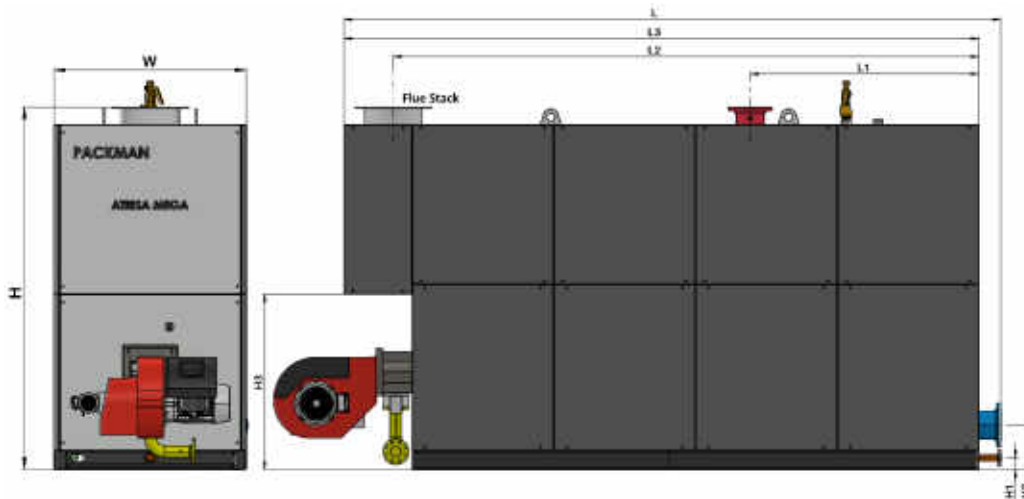
Low Emissions: Standard sub-30 ppm NO_x, with options for even lower emissions.

Maximum Efficiency: No minimum return water temperature requirement, ensuring optimal performance.

Versatile Fuel Options: Capable of dual-fuel and gas-only operation for added flexibility.



Model	Unit	Atrisa Mega-1500	Atrisa Mega-2000	Atrisa Mega-2500	Atrisa Mega-3000	Atrisa Mega-4000
Technical Data						
Max Heat Output	kW	1500	2000	2500	3000	4000
Min Heat Output	kW	375	500	625	750	1000
Max Heat Output (Oil)	kW	1500	2000	2500	3000	4000
Max Gas Consumption	m ³ /hr	138	184	230	276	368
Max Oil Consumption	lit/h	128	170	212	255	340
Efficiency at (30-50°C)	%	98				
Efficiency at (60-80°C)	%	91				
Max Working Pressure Range	bar	16				
Max. Allowable Temperature	°C	85				
Recommended Water Flowrate in T (10 °C)	m ³ /hr	129	172	215	258	344
Recommended Water Flowrate in T (20 °C)	m ³ /hr	65	86	108	129	172
Pressure Drop T (10 °C)	mH2O	2.5	3.2	3.1	3.7	4
Pressure Drop T (20 °C)	mH2O	0.9	1.2	1.2	1.5	1.7
Combustion Chamber Pressure Drop	mbar	3.5	4.5	5.7	5.5	6.4
Stack Material	-	Stainless Steel 304 L				
Max. Condensate	L/h	180	240	300	360	480
Condensate PH	-	4-4.5				
Water Content	Lit	2,775	3,197	3,855	4,454	4,873



Model	Unit	Atrisa Mega-1500	Atrisa Mega-2000	Atrisa Mega-2500	Atrisa Mega-3000	Atrisa Mega-4000
Dimension						
L	mm	4,100	4,100	4,100	5,130	5,130
W	mm	1,300	1,400	1,400	1,500	1,500
H	mm	2,450	2,610	2,610	2,825	2,825
L1	mm	1,585	1,585	1,585	1,785	1,785
L2	mm	3,655	3,655	3,655	4,570	4,570
L3	mm	4,015	4,015	4,015	4,955	4,955
H1	mm	90				
H2	mm	350				
H3	mm	1,270	1,270	1,370	1,370	1,370
Connection Size						
Inlet & Outlet Connection	in	6	6	6	8	8
Flue Stack	mm	350	400	400	450	450
Drain	in	1	1	1 1/4	1 1/4	1 1/4
Condensate Discharge	in	1	1	1	1	1
Relief Valve	in	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2
Weight						
Shipping Weight	Kg	4,600	5,300	6,400	7,400	8,100
Service Weight	kg	7,375	8,500	10,255	11,860	12,975

PACKMAN GROUP

History

The Packman Company was founded in February 1975, and was soon afterwards registered in companies Registration Office. In early years the Packman construction and service branch focused on building installations. Different mega power plants were built by cooperating with Brown Boveri and Asseck companies in 1976.

The company started its official activities in construction of High-Pressure Vessels such as Hot-Water Boilers, Steam Boilers , Storage Tanks, Softeners and Heat Exchangers from 1984.

Packman Company is one of the first companies which supplied the high quality and standard hot water boilers to the customers.

Packman has exported its products to countries such as Uzbekistan, United Arab Emirates and other countries in the Middle East. It is one of the largest producers of hot-water and steam boilers in the Middle East.

Now we are proud to announce that the Packman industrial group has five major sub-brands that have product titles in all field of HVAC equipment and engineering services, and we do not know this success except with the help and support of our customers.

1. Construction Services Industry Association
2. Industry Association
3. Construction Companies' Syndicate
4. Technical Department Association
5. Mechanical Engineering Association
6. Engineering Standard Association

Departements:

Sales Deps:

- ∩ Power Plant & Petrochemical
- ∩ Industrial
- ∩ Hospitally Service
- ∩ Commercial & Residential
- ∩ Sport Complex & Pool

Technical Deps:

- ≡ Manufacturing R&D
- ≡ Innovation Center
- ≡ EPC Execute Unit
- ≡ Product Develop Unit
- ≡ Sales Engineering Dep.

Others:

- ≈ After Sales Service
- ≈ Project Control
- ≈ Financial Office
- ≈ Commercial Office
- ≈ Marketing Department



PACKMAN GROUP Brands



PACKMAN
Industrial Group

Designer & manufacturer of Condensing, Hot Water, Steam, Hot Oil & Waste Heat Boilers, Heat Exchangers, Autoclave Pressure & Storage Vessels & etc



GREENMAN
Green mindset, green future

Engineering & Designing Commercial Greenhouse Plant, CO2 Dosing System, Flue gas Condenser & Special HVAC Systems, Sustainable Agriculture & etc



ROMAN
Water solution

Designer & manufacturer Reverse Osmosis Plant & Package, Water Treatment, Softener & Filters and Chemical Dosing Systems & etc



RAADMAN
a look to the future

Designer & manufacturer of Industrial Mono & Dual Block Gas, LPG, Light & Heavy Oil Burners, Premixed & Postmixed Burners, Watertube burners, Process burners, Special application burners & Combustion Solutions & etc

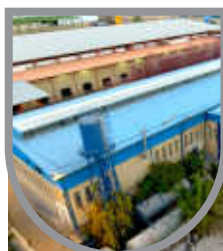


CHILLMAN
Coolest hvac around

Designer & manufacturer of Air & Water Cooled Chillers, Air Handling Units, Fancoil, HVAC Equipment, Cold Storage Room & etc



1. Isfahan Factory



2. Vilashahr Factory



3. Parand Factory



4. Parand (2) Factory



5. Bonyad Factory

SOME OF Certificates are



Knowledge Based



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