

# ***Viuna*** ***HVAC***



Commercial Brochure

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## Introduction



Viuna HVAC has more than 30 years of scientific, research and experimental experience in the production of compression and absorption chillers, cooling towers, packages, air conditioners and etc. Due to the increasing level of global sensitivities regarding the optimal consumption of energy and water, Viuna has recently been successful in genetic modification and creation of the best model of absorption chillers from hybrid type which has significant effectiveness in reducing the destruction factors of ozone layer and greenhouse gases. In the main structure of Viuna ventilation absorption chillers, stainless steel is used in order to modify corrosion issues and also improved the cycle performance ratio in them by using additional converters.

With demonstrated history in research, development and production, Viuna has been in design of advanced cycle of double effect absorption chiller for both direct fired and double effect steam fired models. This exclusive design is the result of Viuna's engineering experiments and software design. With years of experience, the absorption cooling cycle, is mainly used as multi-purpose, reliable, effective, and environmental-friendly cooling type in the field



of air conditioning and industrial cooling that will face remarkable growth of consumer demand in near future. Viuna is trying its best to provide more prominent services to its customers with a view to the future and relying on the knowledge of its managers and employees at all levels, based on project management, in the direction of optimizing the contracted projects, from technical and economic point of view. All the officials and employees of Viuna HVAC strive to respect the moral and ethical values and behaviors, including respect for the laws related to moral properties, regulations, human dignity, compliance with safety regulations and environmental health to provide a healthy and thriving environment for their customers.

# Products

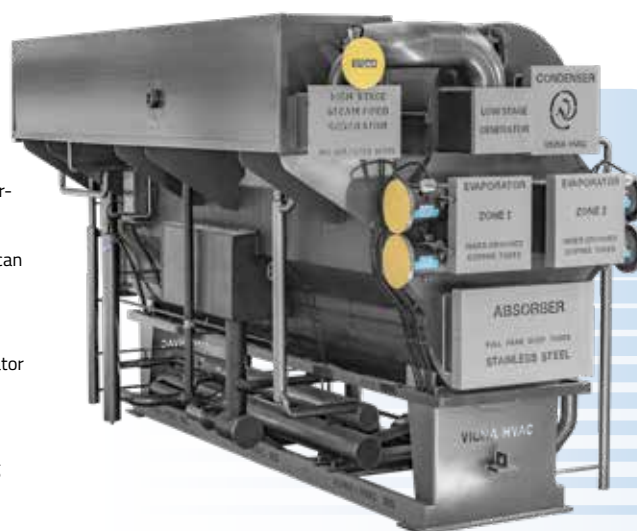
## Single Effect Steam Fired & Hot/Warm Water Absorption Chiller

- ▶ Cooling capacity from 50 to 1500 actual USRTons
- ▶ 304L stainless steel chiller body & pans, anti-corrosion and heavy duty.
- ▶ Equipped with highly advanced power, control circuit board, PLC, remote monitoring system and isolated transformer with BMS capability.
- ▶ It has an automatic purging system equipped with a special vacuum pump that can work automatically and periodically without the need of its user.
- ▶ The thickness of the tubes is from 1.24mm to 1.42mm in copper types and etc.
- ▶ It has inlet and outlet for fancoil water and cooling tower water from the side of the chiller without the need to remove them during service.
- ▶ Viuna's customized solution pump is Low NPSH type and its internal parts are made of stainless steel 316L and 304 and does not require an additional cooling line and also meets the required standards.



## Double Effects Steam Fired Absorption Chiller

- ▶ Cooling capacity from 30 to 3000 actual USRTons.
- ▶ 304L stainless steel chiller body & pans, anti-corrosion and heavy duty.
- ▶ Equipped with highly advanced power, control circuit board, PLC, remote monitoring system and isolated transformer with BMS capability.
- ▶ It has an automatic purging system equipped with a special vacuum pump that can work automatically and periodically without the need of its user.
- ▶ The thickness of the tubes is from 1.24mm to 1.73mm in copper types and etc.
- ▶ Equipped with professional system of uniform distribution of solution on generator tubes.
- ▶ Viuna's customized solution pump is NPSH Low type and its internal parts are made of stainless steel 316L and 304 and does not require an additional cooling line and also meets the required standards.
- ▶ Good performance for CCHP purposes.



## Double Effects Direct Gas Fired Absorption Chiller

- ▶ Cooling capacity of 30 to 1500 actual USRTons.
- ▶ 304L stainless steel chiller body & pans, anti-corrosion and heavy duty.
- ▶ Equipped with highly advanced power, control circuit board, PLC, remote monitoring system and isolated transformer with BMS capability.
- ▶ It has an automatic purging system equipped with a special vacuum pump that can work automatically and periodically without the need of its user.
- ▶ The thickness of the tubes is from 1.24mm to 1.42mm in copper types and etc.
- ▶ It has inlet and outlet for fancoil water and cooling tower water from the side of the chiller without the need to remove them during service.
- ▶ Equipped with high temperature generator with distinct case for steam and condensation separation. Also having a ceramic protector and a modular burner with the ability to control from PLC.
- ▶ Equipped with professional system of uniform distribution of solution on generator tubes.





### Air- Cooled and Water-Cooled Compression Chiller

- ▶ Cooling capacity of 25 to 500 USRTons & the ability to work with a hybrid cooling tower.
- ▶ Using a very advanced power and control circuit board equipped with PLC and isolated transformer, remote monitoring system and the ability to connect to the BMS network.
- ▶ Thickness of copper tubes is from 0.8mm to 1.42mm.
- ▶ Equipped with all common types of compressors in the cooling industry (screw, scroll, reciprocating) and new refrigerants according to global protocols.
- ▶ Reduce the noise sound by using very low-noise fans and soundproof cabins for compressors.
- ▶ V-shaped air-cooled/adiabatic condensers for air-cooled models.
- ▶ With the ability to design below zero degree celsius for industrial consumption and above zero for both industrial and domestic consumption.
- ▶ The possibility of installing a circulation pump and a water storage source.
- ▶ Equipped with axial fans with technology made in Europe
- ▶ Suitable for outdoor installation.



### Air- Cooled and Water-Cooled Compression Chiller

- ▶ 1500 to 100 USRTons of cooling capacity.
- ▶ UV resistant reinforced fiberglass body.
- ▶ Equipped with low-noise fan motor and is suitable for outdoor weather conditions.
- ▶ Available at two types of Counterflow and Crossflow models.
- ▶ Suitable for all industrial consumption.
- ▶ Suitable for all climates.
- ▶ Preventing the penetration of sediments and suspended particles and local dust in closed circuit types.
- ▶ Saving water consumption from 50 to 90 percent in the hybrid type.



### Vacuum Boiler

- ▶ Capacity of 250,000 to 2,000,000 kCal/hr.
- ▶ Without any sedimentation issues.
- ▶ Simultaneous supply of boiling water, hot water and consumptive water in four seasons.
- ▶ Designed in both domestic and industrial consumption types.
- ▶ Equipped with heating coil with tubes made of copper/nickel copper/stainless steel with required thicknesses.
- ▶ Without any limit on working pressure.
- ▶ The ability to work with all kinds of modular burners, etc.
- ▶ Equipped with a very advanced power and control circuit board with monitoring capability.
- ▶ which can be ordered with stainless steel body.



## Air Handling Units

- ▶ Aeration capacity from 2000 CFM to 40000 CFM.
- ▶ Available in both single-zone and multi-zone types, facing upwards and downwards.
- ▶ Equipped with cooling and heating coils with required capacity.
- ▶ Ability to choose the type of humidification (spray or steam).
- ▶ Ability to choose the types of required filters and sand trap.



## Rooftop Packages

- ▶ Cooling capacity from 10 to 120 tons with the ability to work with adiabatic condenser.
- ▶ Thickness of copper tubes is from 0.8mm to 1.42mm.
- ▶ Equipped with highly advanced power, control circuit board, PLC, remote monitoring system and isolated transformer with BMS capability.
- ▶ Equipped with axial fans with technology made in Europe.
- ▶ Equipped with centrifuge fans for using in the evaporator.
- ▶ Equipped with all common compressors in the refrigeration industry and new refrigerants according to global protocols.
- ▶ Suitable for outdoor installation.



## Services

- ▶ Design and production of all kind of industrial heat exchangers from shell and tube type to spiral coils.
- ▶ Viuna HVAC has been able to achieve high efficiency in heat transfer through the new generation tubes of this collection in addition to self-sufficiency in production by investing in the production of finned tubes, technical equipment and scientific research relating to it in cooperation with prestigious universities of the country.



## Our Customers

Future of HVAC Without Environmental Risks



نیپون کاسئی



شرکت پتروشیمی لاله



UNIVERSITY OF TECHNOLOGY, SYDNEY



DANONE  
ONE PLANET. ONE HEALTH



چاوش راه بنا



گوپله  
شرکت ساختمانی و مهندسی



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فرهنگی  
آموزش  
قلم چی

جمهوری اسلامی ایران  
وزارت تعاون، کار و رفاه اجتماعی



سازمان بازرسی کل کشور



سازمان پژوهش‌های علمی و صنعتی ایران



مرکز تجاری آپال

گروه بین المللی آباد راهان پارس  
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تهویه  
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