

4. Mini Hit Pump Heat Pump

An individual might wonder , why is water heat pump required at all? Here's the answer to that! We all are aware about the power consumption by electric water heaters in domestic usage. It accounts almost 30% of your total water bill. The water heat pumps are very efficient in such cases as it has COP which is more than 5 where as regular heating equipment offers COP lesser than 1 . This makes this product substitute the other heating equipment like geysers as the prior is 5 times more effective than the latter. Following are few of the features of the product:-

- The heat pumps lead to energy conservation as they can produce 3-4 kW of heat for every 1kW consumed.
- One of the best medium to heat water through out year irrespective of the season, these heat pumps are very Eco friendly and has zero ozone depletion potentiality.
- The usage and regulating these pumps is very easy which allows the user to adjust temperature with a touch button.
- Hot water heat pumps offer the cheapest available kW/h rate for hot water heating.
- Due to the absence of direct electrical water heating or hot surfaces, these heating pumps are absolutely safe.
- The pumps are suitable through out the seasons and year, which includes effective regulation both high and low outdoor climate.
- Very low maintenance is required by these pumps as there are no fuel residue, chimneys or ashes to be cleaned off.

Working of Heat Pumps:-

Owing to the latest technologies and with idea of renewed sources , the heat water pump follows the work pattern same as refrigerators. They suck the energy from the air surrounding itself and then converts it into refrigerant. Heat energy enhances with help of refrigerant cycle and the newly formed energy gets transferred to hot water.

APPLICATION

Used in various places like spa, Jacuzzi, Rain water showers, Daily bath and kitchen needs , Hot water heat pumps are making their places globally with passing time. In order to avail hot water with less usage of resources these pumps are required in Hotels, Restaurants, Hostels, Hospitals, Process Industry and Swimming Pool to Spa Pool heating. 3 to 4 times power consumption can be reduced.

Benefits of Heat Pumps:-

- Combustion Free Technology.
- Reduces CO2 emissions.
- Replaces consumption of Fossil Fuels,
- Safe Technology and No Government approval required.

5. Bowler

Three Pass Reverse Flue
Oil / Gas Fired Steam Boilers
RSR Series Steam Boilers

Available in IBR and Non- IBR version , 3 pass reverse flue compact horizontal boiler is suitable for vaporizing light oil, heavy oil, NG or LPG with the help of its imported burners. It has hinged front door which eases the reach to furnace and smoke tubes. The machine is completely automatic which comes with computerized controls and safeties. Spirals present in the flue tubes provides high thermal efficiency which leads to better heat transfer.

Coil Type Oil / Gas Fired Steam Boilers
RSB Series

Customers can avail 3 pass reverse flue coil type steam boiler in numerous models ranging from 100 to 800. The product comes with combustion air pre-heat and economizer which is completely optional and would lead to high thermal efficiency. It has the ability to work along with light as well as heavy oil NG or LPG fuel with rugged in-house or European burner. The boiler is highly easy to operate and maintain with quick emission of steam within a few minutes.

Three Pass Steam Boiler
Solid Fuel Fired Twin Furnace
RSW Series

Below are the features of the product-

- Rugged design of the product is commendable.
- Twin furnace design provides High thermal efficiency .
- quick and easy cleaning of tubes due to hinged doors.
- Easy maintenance and operations.
- Can fire a variety of fuels, such as coal, wood, agrowaste, etc.
- High steam and water storage to serve the fluctuating steam demands.

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Electric Steam Boilers RSBE Series

- Compact in design which requires less space.
- Operating the machine is easy as it is fully automatic.
- Fully packaged unit, minimizes site work
- Fuel tank & chimney is not required.

RM Series Smoke-cum-Water Tube Boilers

- High combustion chamber volume leads to Very high thermal efficiency.
- Minimum radiation losses & minimum air leakage due to membrane water wall panelled radiant furnace.
- It has commendable large water holding and steam space.
- Automatic operation for consistent & uninterrupted steaming.
- Minimum usage of refractory in furnace hence lower maintenance costs.

RS Series Shell Type Conventional 3 Pass Fully Wet Back Steam Boilers

- Operating and using the machine is very easy and has Straight three pass design.
- It has the tendency to burn light oil, heavy oil, NG, LPG & biogas.
- Fully automatic operation with field proven controls & safeties.
- Higher radiation as well as convective heat transfer areas.
- Enhanced safety and higher efficiency is confirmed due to Large combustion volume.
- It has quick erection and commissioning.

THERMIC FLUID HEATERS

Gas Fired Thermic Fluid Heaters/ ALFA Series Oil

- High temperature which rises until 300°C at low pressure ranging from 1 to 3 bars.
- Heat loss is prohibited due to hot condensate and flash steam discharge.
- Corrosion related issue is not to be worried about.
- Requires very low maintenance.
- No steam boiler certified operator is required.

- Provides higher efficiency due to large heating surface area it has.
Hinged front door for easy cleaning & inspection

DELTA Series Solid Fuel Fired Thermic Fluid Heaters

- Requires low maintenance and operating cost
- Highly Reliable .
- Ensures user's safety during low thermic fluid flow
- Thermic fluid temperature Control is commendable.

Gas Fired Thermic Fluid Heaters / RTH Series Vertical Oil

RTH series heaters have compact design and are vertical, factory-assembled fired equipment for the scenarios in which temperature is very high, closed loop thermal oil process heat applications.

Thermal oils which are synthetic or mineral based have stable characteristics under very high temperatures that may range from 10 to 300 degrees and are extensively used as mode and tool for heating even at pressures of 3-4 kg/cm. Pre-heated air burners in three-pass combustion present in TF Heaters improve the thermal efficiency. The components used in these heaters are standardized and are very easy to operate and use. Moreover, customer have large number of options in fuel, addition of standby TF pump, sizing of De-aerator tank etc to meet their process requirements.

Thermal oils with smaller capacity ranges from 100 to 300 x 1000 kcal/hr needs very light fuels for combustion and are very easy to use and maintain. They have single stage burners and large capacities. These heaters are suitable for light along with heavy fuels which can be customized as per the customers requirement. Heaters are shop-assembled & tested, which reduces the installation time.

RTHE Series Electric Thermic Fluid Heaters

Electric operated thermionic fluid heaters are made using latest technologies and manufactured using high quality heating elements which has precise dimensions . Team responsible for quality check controls and guarantees highest safety and durability. The heater requires less installation time and consumes less voltage and power.

HOT WATER GENERATORS

Gas Fired Hot Water Generators / ASTRA Series Reverse Flue Shell Type Three Pass

Oil

- It has large water volume
- highly demanded to burn light oil, heavy oil, NG or LPG with imported burners
- User can access furnace & smoke tubes easily and directly due to Hinged front refractory door.
- Ensures safety due to fully automation feature.
- Spirals given in the flue tubes leads to high thermal efficiency for better heat transfer.
- Has pressurized hot water system which accounts to be 140 deg C max outlet temperature.

RHBC Series Coil Type Water Tube Hot Water Generators

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- Efficient combustion of fuel with compact design which serves closed loop process heating at maximum 160°C temperature.
- It has single as well as multi-start coils designed to accommodate customer-specific larger hot water flow at lower pr drops which ensures demand of low electric power and pumping water.
- Product is is non-contaminating, non-polluting & non-hazardous.
- The fluid processed can be recycled which leads to energy conversation.
- Requires very low cost of maintenance and re fixing the equipment.
- Water remains liquid in state even at 160 degrees due to which corrosion or scaling of HWG coil is prohibited.

RHBE Series Electric Hot Water Generators

Due to the high thermal efficiency and low maintenance , these units are very easy and effortless when it comes to instal and use. The heaters are very Eco friendly and does not emit any kind of pollution. Company provides wide range of units which are capable of enduring power ranging from 9 Kw up to 1000 Kw. Used both in domestic life along with industrial application s unit provides great quantity of hot water. They require less space due to their compact size and are tested by professionals before being out for deliveries.

SIGMA Series Horizontal Solid Fuel Fired Hot Water Generators

- has the capacity to burn out various agro-waste fuels like wood, bagasse, coal, etc.

- Easily accessible due to hinged front refractory door for maintaining flue tubes
- Issue of varying heat loads is taken care by large water volume.

RAHW Series Wood Fired Hot Air Generators

- Design ensures longer service span and durability.
- Less maintenance is required and usage is effortless.
- Promises high reliability and safety during functioning.
- In order to improve overall thermal efficiency optional recirculation system is available.

RAH Series Oil/Gas Fired Hot Air Generators

- Construction is reliable and durable due to robust structure.
- Effortless usage and maintenance is ensured.
- Very safe to regulate.
Thermal efficiency is commendable.
- Temperature is controllable and entire structure is automatic.

EDIBLE OIL HEATERS

REOH Series Edible Oil Heaters

Such heaters are built as per the requirements of the customers made with food grade quality stainless steel materials, pumps & other equipment. The product ensures thermal efficiency and its prevention from any kind of contamination. It utilizes cooking oil in enhanced and better way.

- Ratio of heat release is very low.
- Choices can be made in oil / gas / solid fuel fired
- Operation and maintenance is very easy
- Structure is tough and reliable.

INDIRECT STEAM BOILERS

RTS Series Thermal Oil Heated Steam Boilers

These heaters are custom-built media heated steam boilers which are suitable for utilization of spare heating with the capacity of existing thermal oil heaters in order to supply or augment plant steam. As it has un-fired pressure vessels, that makes it

silent, and also has stationery boilers which are easy to operate & maintain. These are horizontal shell and tube type heat exchangers which are built as per SIB or Class 1 IBR steam boiler codes, having the addition of feed water pump. Large boiling water & steam storage capacity of the shell helps in achieving the steady dry steam generation fun.

These heaters are made as assembled packaged boilers which are all set to be installed without nay fuss and difficulty. It is very easy to maintain and operate due to the absence of fuel burning hassles.