

## Cooling & Heating



**QUICK HEAT**

Instant hot water, anytime, for every need

## Improving your business is our business

Thermax offers products, systems and solutions in energy and environment engineering to industrial and commercial establishments around the world. Its business expertise covers heating, cooling, waste heat recovery, captive power, water treatment & recycling, air pollution control & waste management and performance chemicals. Thermax brings to customers extensive experience in industrial applications, and expertise through technology partnerships and strategic alliances.

Operating from its headquarters in Pune (Western India), Thermax has built an international sales & service network spread over South East Asia, Middle East, Africa, Russia, UK and the US. It has a full fledged manufacturing set up that is certified for ISO 9001:2000, ISO 14001 and safety management according to OSHAS (ISO 18000).

In **process heat**, Thermax offers a wide range of steam boilers, thermal oil heaters and hot water generators. It has expertise in a wide range of fuels - oil, gas, solid and agro-waste/ biomass. Supporting a broad array of industries in generating, transferring and conserving heat across a host of applications, Thermax process heat products and systems are exported to North and South America, South East Asia, Middle East, Africa, Europe, CIS, Australia, Antarctica and SAARC.

## Instant hot water, anytime, for every need

Quick Heat, an instant hot water generator using steam as heating medium, is yet another product from Thermax to fulfill customer's need.

Quick Heat generates hot water at right quantity, quality and temperature and that too instantaneously. It is ideally suited for industries having a requirement for both steam and hot water.

Quick Heat is the nextgen hot water generator delivering hot water in no time. It delivers solution which other conventional methods just can not match. Gone are the limitations that existed with conventional methods like

- High installation and maintenance costs
- Slow response making them unsuitable for fluctuating loads
- Noise in steam sparging systems
- High wastage of energy due to excess generation and storage
- High thermal inertia making these systems unable to generate instantaneously

## Quick Heat Basics

Quick Heat is a packaged instantaneous hot water generator using steam as an indirect heating medium in a heat exchanger. The assured performance is due to

### Effective Heat Transfer

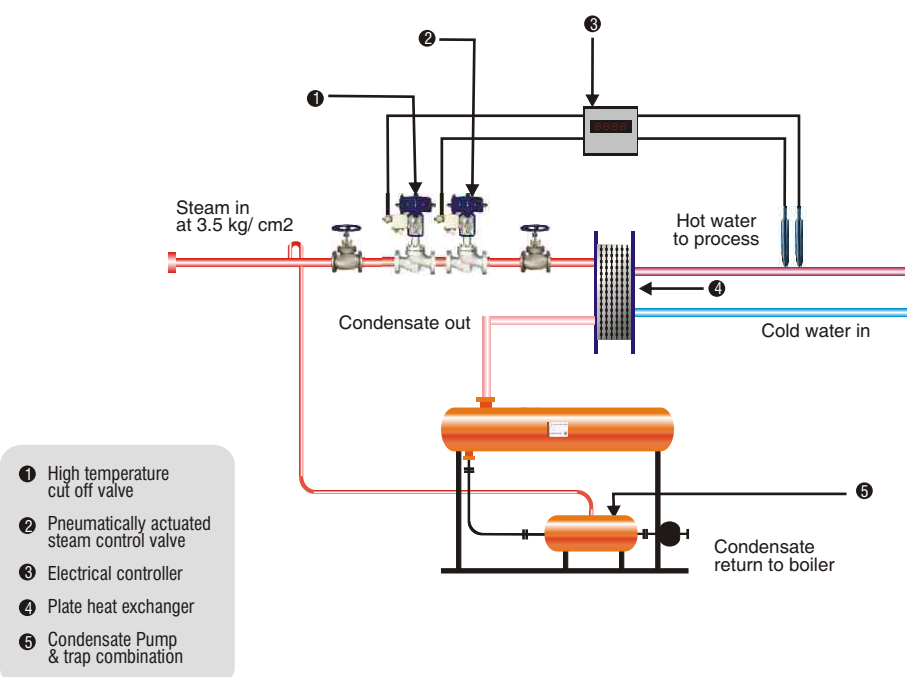
- Through compactly designed Plate Heat Exchanger (modular in construction)

### Precise Temperature Control

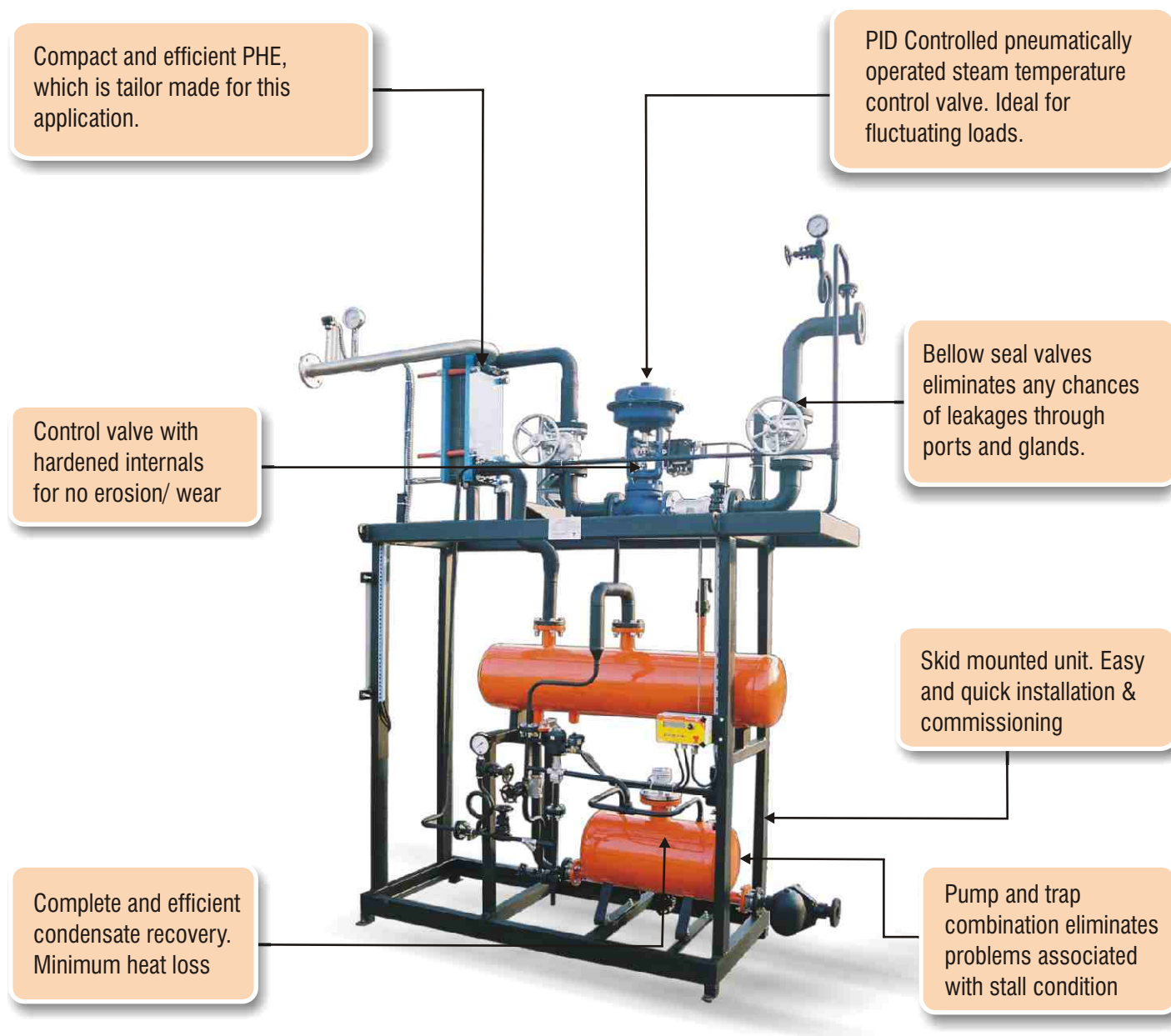
- Through pneumatically actuated temperature control valve, ideally suited for fluctuating loads

### Efficient condensate removal

- Through condensate pump and trap combination which
  - prevents stall condition, water hammering and water logging
  - enhances system efficiency



## Quick Heat: Hot water when you need it



### USER BENEFITS

- Instant hot water generation at right temperature, right quantity and right quality
- Water quality is not affected due to indirect heating
- Efficient design, no noise problems
- All wetted Internals are SS316 suitable for food and pharmaceutical process Industries applications
- Can be installed near point of use, reducing pumping cost of hot water, thus saving electricity cost
- Range from 5 m<sup>3</sup>/ hr to 30 m<sup>3</sup>/ hr. Higher sizes available on request
- Compact and efficient Thermax design. No stall problem
- Skid mounted, easy to install

## Models available

S.No	MODEL	Heat output kcal	Water flow rate m <sup>3</sup> /hr	Differential temp. °C
1	QH 015/05/A	150000	5	30
2	QH 030/10/A	300000	10	30
3	QH 045/15/A	450000	15	30
4	QH 060/20/A	600000	20	30
5	QH 075/25/A	750000	25	30
6	QH 090/30/A	900000	30	30
7	QH 030/05/B	300000	5	60
8	QH 060/10/B	600000	10	60
9	QH 090/15/B	900000	15	60
10	QH 120/20/B	1200000	20	60
11	QH 150/25/B	1500000	25	60
12	QH 180/30/B	1800000	30	60

Maximum outlet temperature of hot water up to 90°C

## Applications

- Pharmaceutical companies where hot water is required for processes directly or for heating purpose through water jacketing.
- Hospitals where quality of water is of prime importance and contamination is not acceptable.
- Hotel industry wherein hot water is required for guest room, laundry, dish washing and general purpose applications.
- Air Handling Units for humidity control.
- And other industries like:
  - mashing process in breweries
  - washing in bottling plants
  - dyeing process in textile industry

## For further details please contact us with the following information

Hot water application :  
 Hot water flow required, m<sup>3</sup>/ hr :  
 Cold water inlet temperature, °C :  
 Hot water outlet temperature, °C :  
 Steam pressure available, kg/ cm<sup>2</sup>g :

*In view of our constant endeavour to improve the quality of our products, we reserve the right to alter or change specifications without prior notice. All photographs shown in this publication are representative in purpose, and to be used for reference only. For actual details and specifications, please refer to Thermax offer document.*



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Sustainable Solutions in  
Energy & Environment

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## Thermax Business Portfolio

Water & Waste Solutions

Air Pollution Control

Chemicals

Boilers & Heaters

Absorption Cooling

Captive Power