

| AquaNexa - TECHNICAL SPECIFICATION | | | | |
|------------------------------------|-----------------------------|----------|----------|----------|
| Type | Air Source Circulation Type | | | |
| Name | ANX - 19 | ANX - 35 | ANX - 50 | ANX - 75 |
| Heating Capacity (kW) | 19 | 35 | 50 | 75 |
| Rated Hot water output temp | 55°C | | | |
| Maximum Hot water output temp | 60°C | | | |
| Power Supply | 415V, 50 Hz, 3 Phase | | | |
| Rated Input Power(kW) | 4.37 | 8.1 | 11.57 | 17.2 |
| Max Input Power(kW) | 5.38 | 9.96 | 14.23 | 21.16 |
| COP | 4.35 | 4.33 | 4.32 | 4.36 |
| Refrigerent | R410A | | | |
| Rated Hot water output (ltr/hr) | 408 | 752 | 1075 | 1612 |
| No. of Compressors | 1 | 2 | 2 | 2 |
| Circulating Water flow (m3/hr) | 3.3 | 6 | 8.6 | 12.9 |
| Water side Pressure drop (mlc) | <5.5 | <6 | <6 | <6.5 |
| Pipe Size | DN 25 | DN 32 | DN 32 | DN 50 |
| Refrigerent Quantity (Kg) | 1.9 | 2.8 x 2 | 4.1 x 2 | 3.2 x 4 |
| Noise dB A | ≤ 63 | ≤ 65 | ≤ 68 | ≤ 70 |
| Dimension | | | | |
| Length (mm) | 820 | 1000 | 1000 | 2050 |
| Width (mm) | 695 | 1000 | 1000 | 1000 |
| Height (mm) | 1060 | 1858 | 1858 | 1900 |
| Net Wt (Kg) | 160 | 310 | 400 | 605 |

- 1) Rated conditions

: Application side initial water temperature : 15°C, final temperature 55°C, max temp 60°C
Ambient temperature : dry bulb 20°C, wet bulb 15°C
- 2) Ambient Temperature Range

: -7 to 43°C
- 3) Water outlet temperature of 55°C is maintained in the mixing tank
- 4) Specifications are subject to change because of continuous product development

Applications



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Heating



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 cover heating, cooling, waste water recovery, captive power, water treatment & recycling, air pollution control & waste water management and chemicals.

Thermax brings extensive experience to the customers in industrial applications through technology partnership and strategic alliance.

Operating from Head office in Pune Thermax has 11 state of art manufacturing facilities (7 in India 4 in overseas). It has sales and service network spread over India, SE Asia, Middle East, Africa, Russia, UK and US.

C & H Heating Division

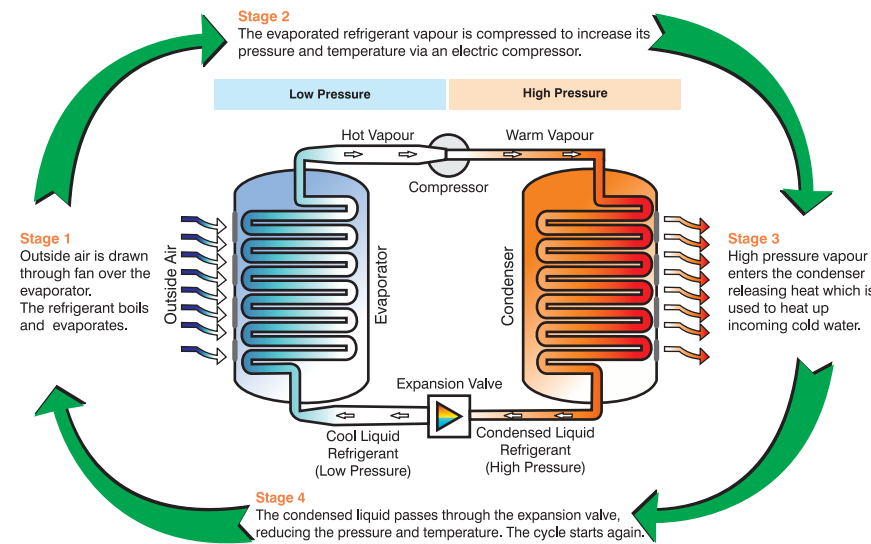
We offer widest range of options covering combustion of various solid, liquid and gaseous fuels, heat recovery from gas turbine/engine exhaust, waste heat recovery and fired heaters for various industrial processes and applications.

Next generation water heating solution

Continuing the legacy of product innovation Thermax is now introducing next generation water heating solution AquaNexa.

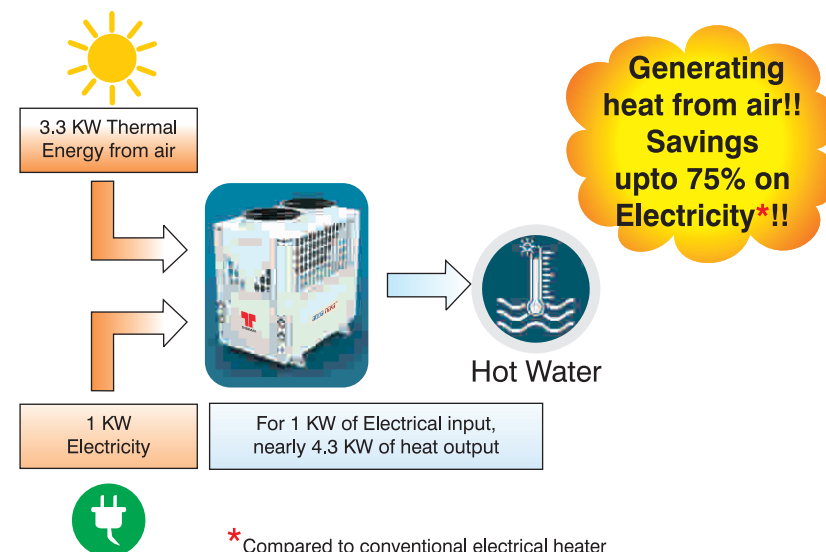
It works on the principle of refrigeration cycle, Aquanexa absorbs heat from ambient air to generate hot water.

How it works



Following the widely used refrigeration cycle, heat from ambient air is absorbed into the refrigerant through an evaporator. Refrigerant changes phase from liquid to vapour and moves on to a compressor where it becomes a high pressure vapour with additional heat added to it. Now the vapour is ready to transfer its latent heat and transform itself into a high pressure liquid in a condenser by transferring heat to the incoming cold water. Moving on to an expansion valve the high pressure liquid expands into a low pressure liquid ready to repeat the whole cycle starting with the evaporator.

The water entering the condenser gets heated up and can be used for all hot water applications. The process is so effective that for every 1 kW electricity supplied up to 4 kW of heat output is delivered.



Salient Features

- High COP - Low running cost



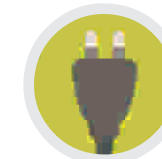
- Compact structure - Minimum foot print



- All weather round-o-clock operation



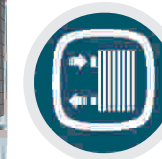
- Plug and play unit



- Safe & reliable



- High efficiency heat exchanger



- Pollution free operation



- Environment friendly refrigerant R410A.



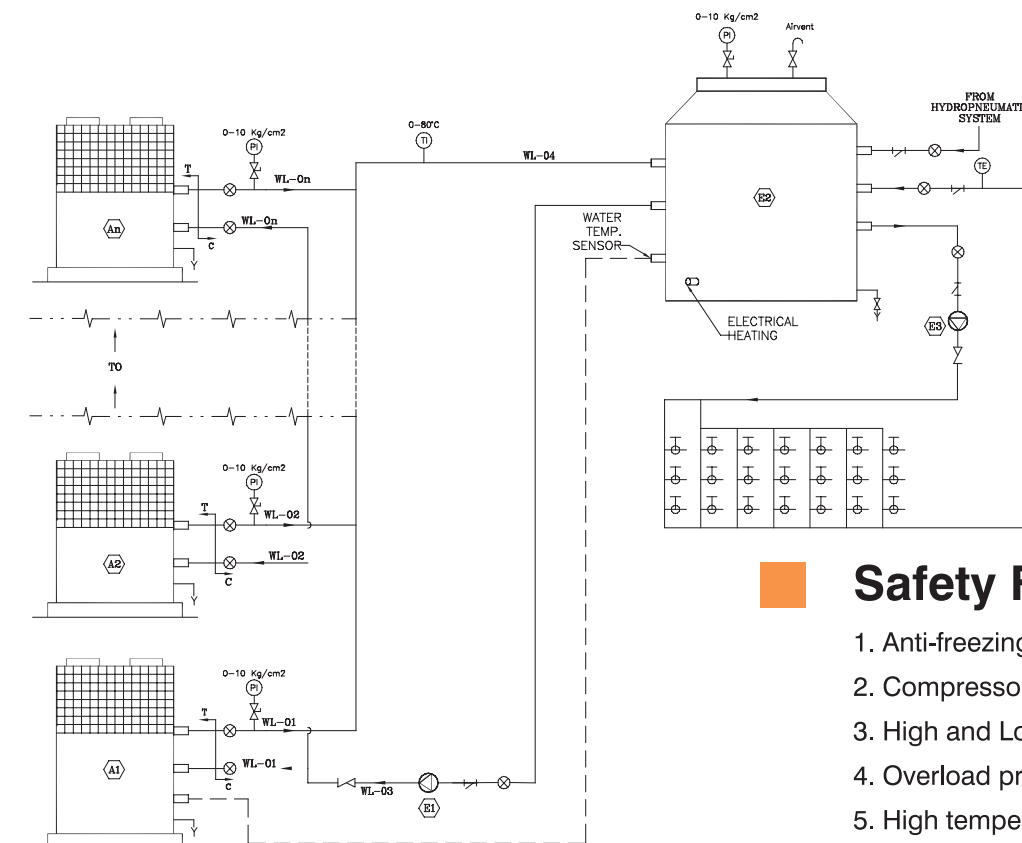
- Low noise operation



- Smart controller - man less operation



Schematic for connecting multiple units



Safety Features

1. Anti-freezing protection
2. Compressor over heat protection
3. High and Low pressure protection
4. Overload protection
5. High temperature protection