

# ENERGY SAVING HEAT PUMP



**70%\* Savings**

\*Uses 70% less electricity compared to conventional water heating solutions



## Save more Energy

Saves up to 70% energy compared to conventional water heating solutions



## Environment Friendly

We use the environment friendly refrigerant R417A



## Get 24x7 @ 365 days hot water

Hot water is available 24X7. It is unaffected by climatic changes



## Save more Space

Compact design saves more space as compared to other conventional water heating solutions



## Maintenance Free

Can last for years with little or no maintenance



## Longer Life

Lifespan ranges from 10 to 15 years

# Domestic Heat Pump



## Uratom Heat Pump (UHP) Series

Uratom has developed a full range (from 100 Litres/hr To 500 Litres/hr) of UHP water heating units built on heating optimized Special Compressors to provide seasonal efficient heating capacity and effective domestic hot water production in residential and commercial building applications. These are available for use with multiple refrigerants like R417A, R407C, R22 and R134A.

It is designed to deliver 55°C - 60°C water temperature irrespective of the weather conditions. It can operate from a wide ambient from 10°C to 43°C. UHP unit come fitted with Best - In - Class "Shell & Tube" heat exchanger technology. These are easier to service compared to other available condensers in field. Shell & Tube heat exchangers are the perfect solution for sites where the water quality is very poor.

UHP series are designed for simple & easy operation in the field for end - users like Hotels, Hostels, Factories & Restaurants, etc. These units come with "Simple User Interface" which allows service teams to get advance warnings about field failures, simple error codes for easy diagnosis & trouble shooting. This reduces down time and increases system's life.

### A Wide Range Of Application



20°C to 60°C



30°C to 60°C



55°C to 60°C



60°C



20°C to 60°C

| Technical Specification (All In One) |                           |       |                                      |           | Technical Specification (Monoblock) |                                      |         |       |              |               |  |
|--------------------------------------|---------------------------|-------|--------------------------------------|-----------|-------------------------------------|--------------------------------------|---------|-------|--------------|---------------|--|
| Model                                |                           |       | UT01.5D/AIO                          | UT02D/AIO | UT02.6D/AIO                         | UT01D                                | UT01.2D | UT02D | UT03D        | UT05D         |  |
| Water Heating                        |                           | kW    | 3.6                                  |           |                                     | 3.6                                  | 5.3     | 8.0   | 11.4         | 19.3          |  |
|                                      |                           | BTU/h | 12288                                |           |                                     | 12288                                | 18090   | 27306 | 38912        | 65877         |  |
| Heating Input Power                  |                           | kW    | 0.9                                  |           |                                     | 0.9                                  | 1.3     | 2.0   | 2.7          | 4.5           |  |
| Heating Input Current                |                           | A     | 4.1                                  |           |                                     | 4.1                                  | 5.9     | 9.0   | 12.3         | 9.0           |  |
| Refrigerant                          |                           |       | R417A/R22/R410A/R134A/R407C          |           |                                     | R22/R417/R410A/R134A/R470C           |         |       |              |               |  |
| Power Supply                         |                           |       | 220V/1ø/50Hz                         |           |                                     | 220V/1ø/50Hz                         |         |       |              | 380V/3ø/50Hz  |  |
| Controller Type                      |                           |       | Intelligent & LCD                    |           |                                     | Intelligent & LCD                    |         |       |              |               |  |
| Compressor                           | Compressor Type           |       | Rotary*1                             |           |                                     | Rotary*1                             |         |       | Scroll*1     |               |  |
|                                      | Compressor Brand          |       | Copeland / Panasonic / Hitachi       |           |                                     | Copeland / Panasonic / Hitachi       |         |       |              |               |  |
| Fan Motor                            | Fan Type                  |       | Low noise high efficiency axial type |           |                                     | Low noise high efficiency axial type |         |       |              |               |  |
|                                      | Fan Input Power           | W     | 12                                   |           |                                     | 28                                   |         |       | 90           |               |  |
|                                      | Fan Speed                 | rpm   | 850                                  |           |                                     | 850                                  |         |       |              |               |  |
| Heat Exchanger                       |                           |       | External Copper Coil                 |           |                                     | Shell & Tube                         |         |       |              |               |  |
| Protection                           | Low Pressure Protection   |       | Yes                                  |           |                                     | Yes                                  |         |       |              |               |  |
|                                      | High Pressure Protection  |       | Yes                                  |           |                                     | Yes                                  |         |       |              |               |  |
| Automatic Defroting System           |                           |       | Yes                                  |           |                                     | Yes                                  |         |       |              |               |  |
| Overload Protection                  |                           |       | Yes                                  |           |                                     | Yes                                  |         |       |              |               |  |
| Dimension                            | Unit Size                 | mm    | ø510*1660                            | ø570*1750 | ø570*2100                           | 1000*365*560                         |         |       | 1115*480*720 | 1111*475*1255 |  |
|                                      | Approx. Weight            | kg    | 75                                   | 85        | 95                                  | 45                                   | 52      | 60    | 105          | 155           |  |
| Noise in 1 meter                     |                           | dB(A) | ≤43                                  |           |                                     | ≤54                                  |         |       | ≤55          | ≤58           |  |
| Water Tank                           | Water Tank Volume         | ltr   | 150                                  | 200       | 260                                 |                                      |         |       |              |               |  |
|                                      | Water Pipe Size           | mm    |                                      |           |                                     | ø20                                  |         |       | ø25          |               |  |
|                                      | Rated Heated Water Output |       |                                      |           |                                     | 100                                  | 150     | 200   | 300          | 500           |  |
| Cabinet                              |                           |       | Galvanized Powder Coated Steel       |           |                                     | Galvanized Powder Coated Steel       |         |       |              |               |  |

Heating : Ambient temp. (DB/WB); 20°C / 15°C, Water temp (input/output) : 15°C / 55°C.

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