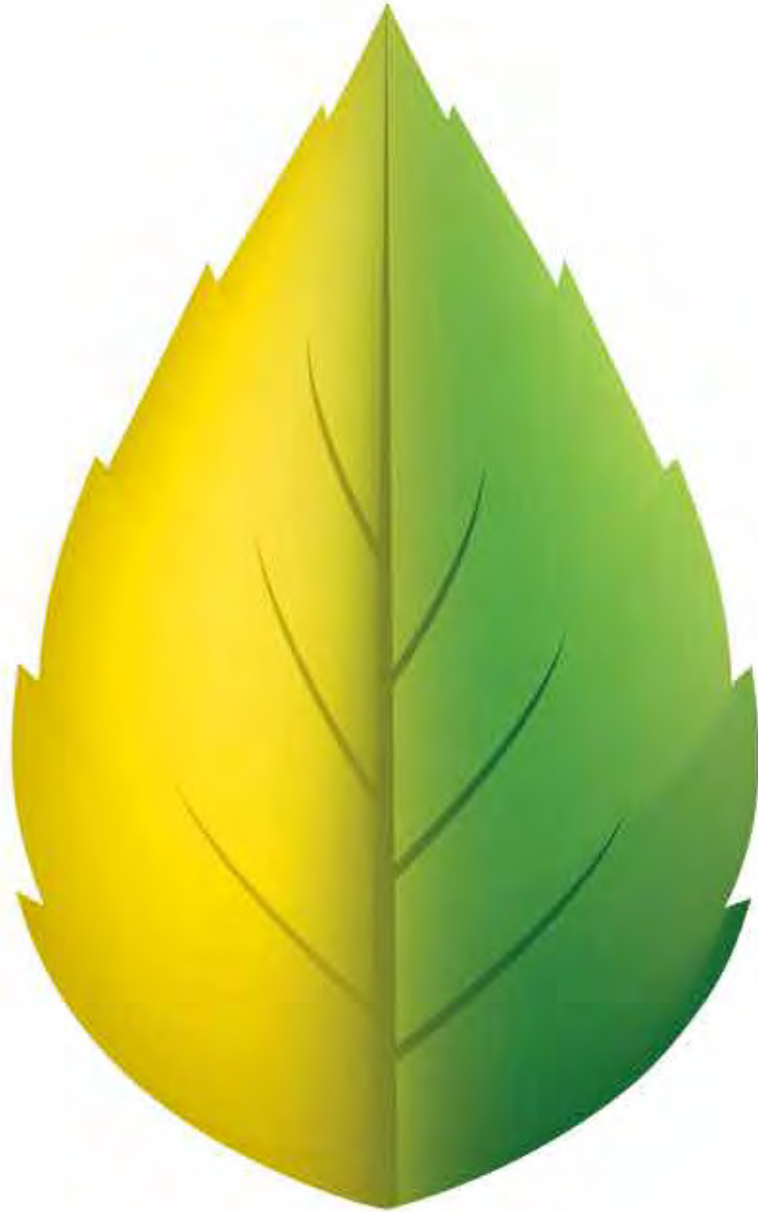


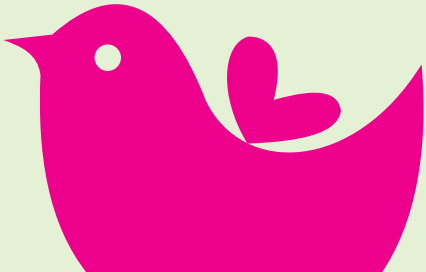
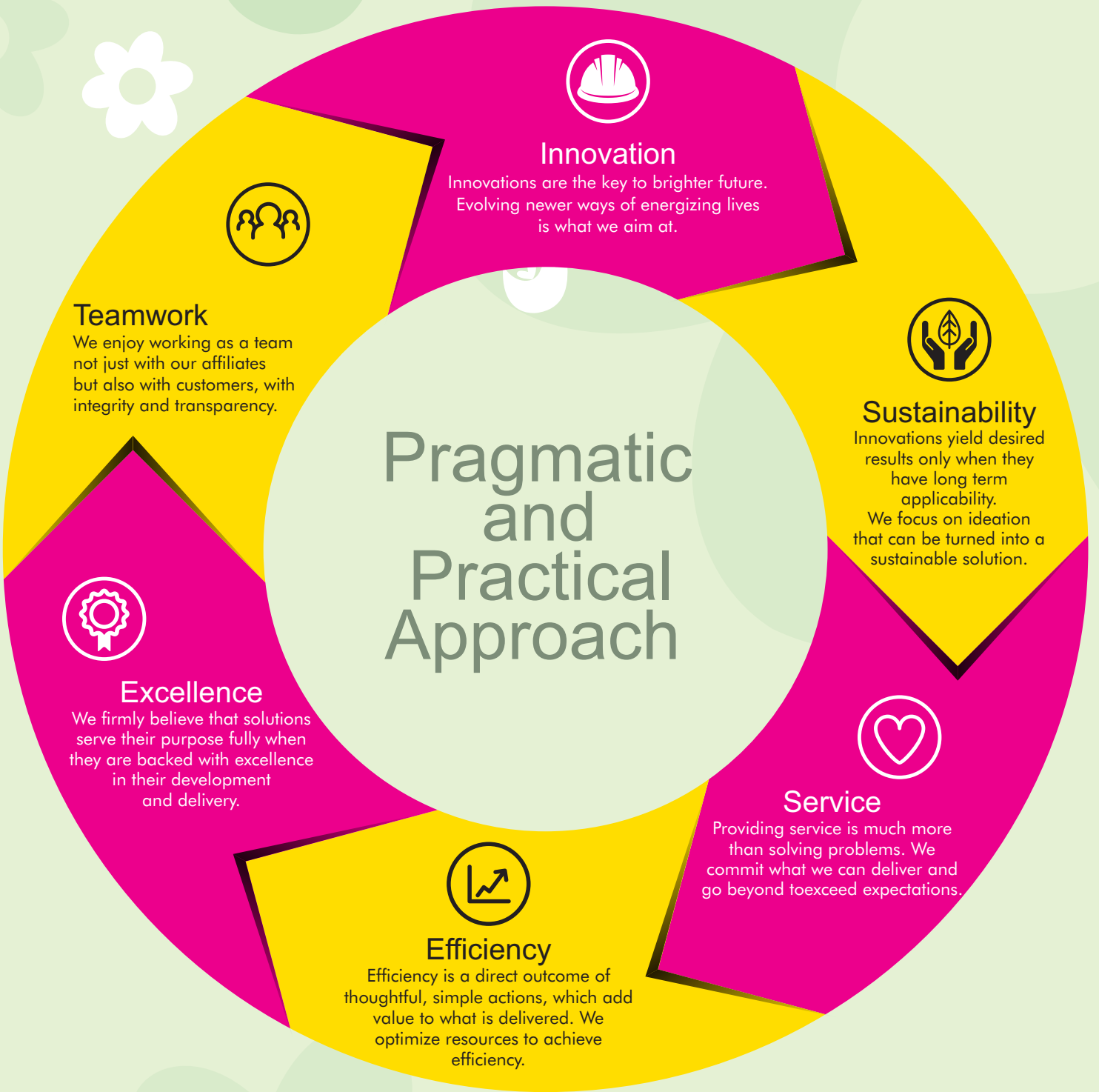
THE MOST PROMISING COLOUR OF EARTH IS  
FADING AWAY...



**Uratom**<sup>™</sup>  
The solar energy specialist



**BETTER ENERGY FOR  
CHANGING WORLD**





SPREADING WARMTH  
WITH SOLIDARITY

## Company Profile

After 42 years of experience in solar solutions, "Hiramrut Group" is back with more power, absolutely upgraded products and very impactful name (URATOM) Yes, Uratom Solar (India) Pvt. Ltd. -AN ISO 9001:2015 & ISO 14001 certified company, is one of the largest manufacture of eco-friendly & pollution free products like Solar Water Heater, Solar PV Modules, Solar Rooftop system, On Grid Inverters, BLDC Solar pump & EPC system. USIL is committed to manufacturer & supply the solar product with quality, reliability, long life for clean & green environment for next generation.

Having state-of-art production line supported by own R & D , USIL ensure for high quality with higher efficiency solar products for domestic, commercial as well as industrial purpose. Production, drawing & designing is prepared & finalized under strict quality inspection by qualified engineers.

Uratom is working on 'Solar Energy' field since 1984 & it is the founder of Hiramrut Energies Pvt. Ltd (HEPL). The company is an of ISO 9001:2015 & 14001 certificated for quality management system for better product and service. Due to upgraded higher rating from a reputed rating agency, our company is now channel partner of MNRE to avail the benefits of subsidy on various solar products. We have large dealer network in Gujarat as well as Rajasthan, Maharashtra, Jharkhand, Odissa, Chhattisgarh, Madhya Pradesh, Karnataka, North East, Delhi, Haryana, Himachal Pradesh, Punjab, Jammu & Kashmir, Uganda, Kenya, Tanzania, Rwanda & Shri Lanka.

### INDIA'S LATEST 20BB EUROPEAN SOLAR PV MODULE MANUFACTURING FACILITY WITH A CAPACITY OF 1.2 GW



42 Years Of Rich Industry Experience



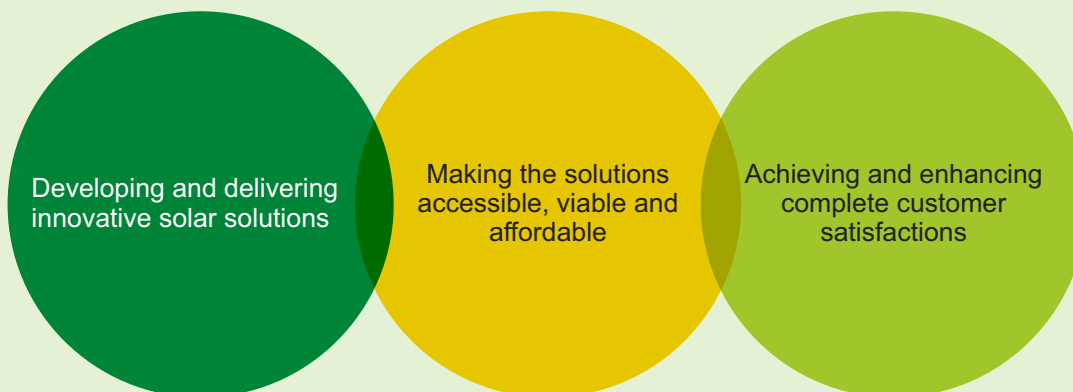
350+ DEALER NETWORK



175 MW+ ROOFTOP PROJECTS

## Mission

We intend to promote use of solar energy by...



## Vision

Creating sustainable and eco-friendly future for our Mother Earth by optimum use of solar energy & saving fossil fuels.

## Quality Policy

We are committed to achieve customer satisfaction by quality products - hot water solution and solar power systems. Also committed to provide better work culture and pollution free environment for factory employees & minimizing pollutions.

We are committed to fulfil our integrated management system as per international standards & applicable legal provisions.

We will ensure persistent progress in integrated management system by preventing pollution & fulfilling quality objectives, targets, programmes and legal requirements.

## Renew Energy

URATOM supports renewable energy such as solar & wind energy to reduce the climate changes.

Every community and person can play an important part in accomplishing a global solution. We are working to empower our customers with new opportunities for energy savings and with the up-to-date, practical information they need about ways to use energy more wisely and save money, too. In this century, we are focused on the opportunity to provide universal access to energy efficiency along with our traditional mission. We are equipped to take on this new challenge with our skilled employees, our well-known brand reaching into millions of homes and industries, and our ability to invest to achieve long-term public benefits. We want to do more than simply be part of the solution. We want to create solutions that lead to a better, greener energy future, redefining what it means to be an energy company with a strong environmental commitment at its core.

We are proud to contribute to environmental progress like this. We are determined to continue working for a brighter and greener future.



**DEVELOPING AND DELIVERING  
INNOVATIVE, ACCESSIBLE,  
VIABLE AND AFFORDABLE  
SOLAR SOLUTIONS**





Largest ETC manufacturing plant with upgraded technology and highly experienced engineers, Uratom busts up their energy in largest Solar Water Heater manufacturing plant in India which spread in 1,92,300 Sq. Feet.

Uratom believes in quality products with aesthetic look that passes all quality processes as assured.



# Solar Water Heater (ETC)

Model : Uratom Bharg

Model : Uratom Ray



## Technical Specifications of Vacuum Tube

Material	1.6mm Borosilicate 3.3 glass
Outer Diameter	58mm / 70mm (whatever applicable)
Inner tube diameter	47mm / 54mm (whatever applicable)
Tube Length	1800mm / 2100mm (whatever applicable)
Absorptive coating	CU - AL - N / SS (Three Layer)
Vacuum P	$<5 \times 10^{-3}$ PA
Absorptance	$>92\%$ (Am1.5)
Glass thickness	1.6mm
Emittance	$<8\%$ (80°C)
Thermal expansion	$3.3 \times 10^{-6}$ °C
Stagnation temperature	$>200^\circ$ C
Heat loss	$<0.8$ w/sq.mtr.
Maximum strength	0.8 MPa

## Benefits for You

- Reduction in conventional energy consumption, saving fossil fuels.
- Substantial savings on conventional heating bills.
- Higher predictability of heating costs.
- Reduced dependence on energy imports.
- Proven & reliable technology.

## Technical Specifications for Tank

Inner Tank	(Ray) 2.0.mm Galvanized Iron (G.I) TIG Welded (Bharg) 2.5mm Galvanized Iron (G.I) TIG Welded
Inner Coating	High Grade Anti-Corrosive Coating/Special PL Coating
Outer Cladding	0.45mm Galvanized Iron (G.I) with P P Powder Coating
Insulation	50mm PUF (38kg. / $\text{m}^3$ density)
Stand	1.4mm (G.I) with P P Powder Coating or 30 x 30 x 3mm M.S with P P Powder Coating
Connections	1"
Electric Backup	1.25"

## Benefits for You

- Get Average  $50^\circ$  to  $65^\circ\text{C}$  hot water at any time at almost zero recurring expense.
- 50mm PUF Insulation retains heat for a longer duration.
- Once installed, no worry of frequent maintenance.
- Better and longer product service span due to tube's larger diameter.
- Increased heating efficiency due to specially developed triple coated glass tube.
- 100% dependable compared to Gas & Electric Geyser.
- Keeps environment clean as 100 litres SWH prevents 1.5 tonnes carbon-dioxide emissions per year.



State- of-Art Energy transformation 1.2 GW Capacity of Solar Pv Module from European Manufacturers



## NDC MACHINE (NON DISTRACTIVE CUTTING)

- Lowest Chances of Micro Crack.
- 30% Higher Mechanical Strength of Cell.
- Lower the chances of Snailing.
- Increase Module Life & Efficiency.
- Best Quality Cut Cell (NDC).



## SOLAR PV MODULES ASSEMBLY

Uratom is at the fore front of manufacturing advanced solar PV modules or solar panels that enable our customers to meet their energy requirements sustainably and efficiently. We design, engineer and manufacture high-quality solar PV modules that are built to last, delivering maximum efficiency and long-term performance.

Our state-of-the-art manufacturing facilities with the latest European 12 BB automated line and cutting-edge technology ensure that our products meet the highest standards of quality and durability. With years of experience in the solar industry, we are dedicated to providing our customers with the best possible products and services.

We offer a range of different solar PV module options to suit different needs and applications, and our expert team is available to help you choose the best solution for your specific needs. Whether you're looking to power your home, business, or community, we have the expertise and resources to help you achieve your goals.



## WHY URATOM **SOLAR PV MODULES?**

1. State-of-the-art European 5-12BB Automated Line.
2. Best Quality Cut Cell (NDC).
3. India's Strongest PV Modules (2.5 & 2.0 mm thick aluminum frames with Central Support)
4. Maximum Soldering area for better performance.
5. Accurate String alignment.
6. 330-580 WP range of PV Modules.
7. Uratom's Strong and experienced Network.
8. Lowest the chances of Snailing.





GENERATE YOUR OWN ELECTRICITY AND  
SAVE UP TO 50%# ON YOUR MONTHLY POWER BILLS.

### WHY URATOM SOLAR ROOFTOP?



1.6 GW + ROOFTOP SOLAR PROJECTS



40+ YEARS OF SOLAR FIELD EXPERIENCE



1 LAKH + CUSTOMERS SERVED



CUSTOM DESIGN AND ENGINEERING SERVICES



### Where to Install?



Commercial



Hospital



School



Industries



Shopping Mall

Explore a diverse range of projects that exemplify our expertise in providing sustainable energy solutions across various locations and applications.

## OUR SOLAR PROJECTS



# Heat Pump

## Uratom Heat Pump (UHP) Series

Uratom Heat Pump (UHP) Series is more efficient solution for heating water. It utilizes naturally available heat from water, ground and even winter air and applies a vapor compression refrigerant cycle, consuming nearly one quarter of the electrical energy required for traditional water heating. At 75% reduced energy consumption, this contributes to cleaner air.

Uratom has developed a full range (from 200 Litres/hr To 1500 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.



## Energy Saving Chart

### Significant Energy Saving Compared to Traditional Heating System Delivers ROI within a Year

Hot Water Qty/Day	Litres	2800	30	60				Number of
Water in Temp	°C	84	000					Shower
Water out Temp	°C							(No/Day)
Total Heat Energy	Kcal	Commercial						(Typical) 70
		Heat Pump		Solar System				
		Heating Kwh				LPG		
	Unit	860	3.50	Commercial	Solar with 50%	Solar with 100%		
		3010	28	Electric	Electric Backup	Electric Backup		Diesel
Fuel Unit	Varies	8.00	223.3	Heating	Kwh	Kwh	Kg	Litres
Energy/Fuel Unit	Kcal	Base	Base	Kwh	860	860	11100	10994
Avarage COP of System	Ratio	Base	Base	0.95	817	0.95	0.80	0.80
Energy/Fuel Unit in System	Kcal	Base		103	8.00	817	8880	9
Reqd Fuel Unit	Varies			822.5	268	51	103	60.00
Fuel Cost/Unit	INR			599.3		8.00	8.00	567.6
Energy Cost/Day	INR/Day			218732		411.3	822.5	154
Energy Cost Comparison	%			13%	0.46			344.3
	INR Difference/Day							125674
	Annual Energy Saving in INR Annual					105635		61%
	Energy Saving in % ROI@ Heat Pum					56%		0.80
	Cost of 1 Lakhs					0.95		1.1

## Advantage Of Heat Pump

Hot Water is everyday need for modern living. Traditionally, water is heated by burning fossil fuels or using electric heaters. These traditional methods of water heating consumes much higher energy (electrical or fossil fuels), resulting in energy wastage.

Increasing energy costs of gas or oil heating systems, coupled with the need to meet Co<sub>2</sub> emission targets has resulted in the growing interest for dedicated heat pumps. Rather than burning fossil fuels to produce heat and consequently Co<sub>2</sub> emission, dedicated heat pumps use renewable energy from the environment like air, ground and water. It consumes up to 70% less primary energy and therefore drastically reduce the pollution resulting from the use of fossil fuels.



**Restaurants**

20°C to 60°C

Utensils Washing  
Cooking



**Residential**

30°C to 60°C

Swimming Pool  
Steam Bath  
Bathing Laundry



**Hotel**

55°C to 60°C

Steam Bath  
Bathing Kitchen



### Product Features

-  Unique Compressor Design Developed To Provide A Reliable Water Heating Solution
-  Significant Energy Savings; Upto 75% Compared to Traditional Heating Systems
-  Comes With Full Electrical Protection
-  55°C - 60°C Hot Water Available 24/7; Independent of Weather Conditions
-  Adjustable Water Temperature & Accurate Temperature Control
-  Environmentally Friendly Design
-  Reliable And Easy Maintenance; Designed For Safe Operation
-  Designed & Manufacture d In India



Technical Specification (All In One)				Technical Specification (Monoblock)						
Model		UT01.5D/AIO	UT02D/AIO	UT02.6D/AIO	UT01D	UT01.2D	UT02D	UT03D	UT05D	
<b>Water Heating</b>	Heating Capacity	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					
<b>Power Supply</b>		220V/1ø/50Hz			220V/1ø/50Hz			380V/3ø/50Hz		
<b>Controller Type</b>		Intelligent & LCD			Intelligent & LCD					
<b>Compressor</b>	Compressor Type	Rotary*1			Rotary*1			Scroll*1		
	Compressor Brand	Copeland / Panasonic / Hitachi			Copeland / Panasonic / Hitachi					
<b>Fan Motor</b>	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				
<b>Heat Exchanger</b>		External Copper Coil			Shell & Tube					
<b>Protection</b>	Low Pressure Protection	Yes			Yes					
	High Pressure Protection	Yes			Yes					
	Automatic Defroting System	Yes			Yes					
	Overload Protection	Yes			Yes					
<b>Dimension</b>	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
<b>Noise in 1 meter</b>		dB(A) ≤43			≤54		≤55		≤58	
<b>Water Tank</b>	Water Tank Volume	ltr	150	200	260					
	Water Pipe Size	mm				ø20				ø25
	Rated Heated Water Output					100	150	200	300	500
<b>Cabinet</b>		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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All The information in this catalogue is based on product Range, Design & Models available as on date of publishing/launching the catalogue.

Uratom products continuously under go process of improvement and innovate. This specification of over products may vary from the information given in the catalogue.

The Company reserves the right to change specifications / product without prior notice.

# SAVE WATER WITH THE POWER OF SUN

Water is life. Powered by the sun, we secure every drop for today and tomorrow. Because without water, there is no life — for humans, animals, or nature.



V3 - CI SOLAR SUBMERSIBLE  
OIL-COOLED PUMPS

0.5 - 2.0 HP



V3 - SS SOLAR SUBMERSIBLE  
OIL-COOLED PUMPS

0.5 - 2.0 HP



V4 - CI SOLAR SUBMERSIBLE  
OIL-COOLED PUMPS

1.0 - 3.0 HP



V4 - SS DC SOLAR HHLV  
SCREW PUMPS

1.0 - 2.0 HP



V4 - SS DC SOLAR SUBMERSIBLE  
PUMPS WATER COOLED

1.0 - 5.0 HP



V4 - SS AC SOLAR SUBMERSIBLE  
PUMPS WATER COOLED

1.0 - 5.0 HP



V4 - SS SOLAR SUBMERSIBLE  
OIL-COOLED PUMPS

1.0 - 3.0 HP



V6 - SS DC SOLAR SUBMERSIBLE  
PUMPS WATER COOLED PUMPS

5.0 - 20.0 HP





**V6 - SS AC SOLAR SUBMERSIBLE PUMPS WATER COOLED**

5.0 - 20.0 HP



**IMPELLER TYPE SELF PRIMING MONOBLOCK PUMPSET**

0.5 - 1.0 HP



**SCREW TYPE SELF PRIMING MONOBLOCK PUMPSET**

0.25 - 1.0 HP



**AC SOLAR OPENWELL WATER COOLED**

3.0 - 10.0 HP



**SURFACE MONOBLOCK AC/DC - BLDC/PMSM**

0.5 - 10.0 HP



**SOLAR PUMP CONTROLLER AC-BLDC/PMSM**

0.5 - 1.0 HP



**SOLAR PUMP CONTROLLER AC-BLDC/PMSM**

2.0, 3.0 & 5.0 HP



**SOLAR SUGARCANE JUICER**

0.5 HP



**SOLAR STONE FLOUR MILL**

1.0 - 10.0 HP



**SOLAR CHAFF CUTTER**

1.0 - 5.0 HP



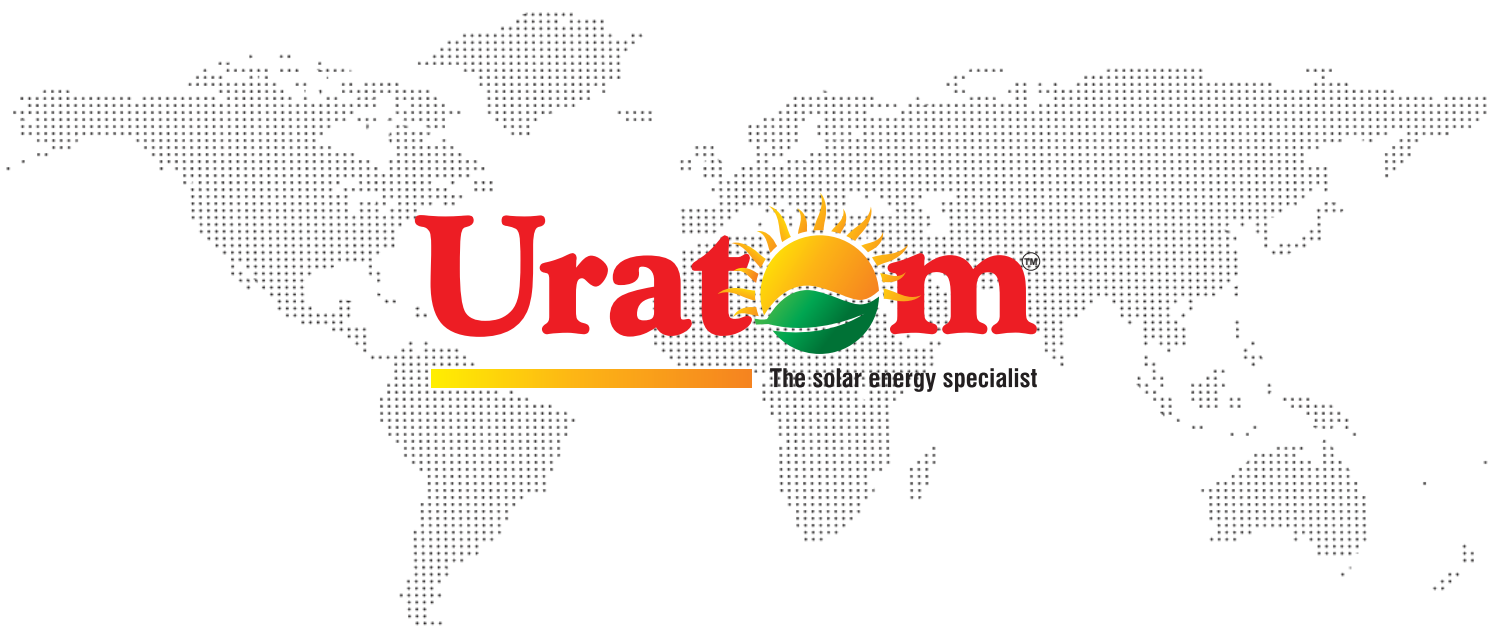
**SOLAR THRESHING MACHINE**

1.0 - 2.0 HP



**SOLAR HULLING MACHINE**

1.0 - 2.0 HP



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