



## **RUDRA SOLAR ENERGY**

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### **SOLAR DRYER DETAIL TECHNICAL SPECIFICATIONS ALUMINIUM STRUCTURE**

RUDRA SOLAR'S "ANANT" SERIES MULTIPURPOSE SOLAR DRYERS COMMON SPECIFICATION Multipurpose Solar Dryers By Rudra Solar Can Be used for drying Any Thing Using Solar Thermal Radiation. Our Solar Dryers are Dust Proof Insect Proof, Rust Proof, Water Proof and made with Long LastingHigh Quality material

DRYER TYPE	DIRECT CABINET TYPE FORCED CONVECTION MODULAR DRYERS
HEATING MODE	DIRECT RADIATION, CONDUCTION AND FORCED CONVECTION ALL THREE MODES OF HEATING
WORKING PRINCIPLE	LIGHT ENERGY TO HEAT ENERGY USING GREEN HOUSE EFFECT FOR HEAT TRAPPING CONDUCTION HEAT TRANFER USING METAL AND REMOVING MOISTURE USING FORCED CONVECTION
MAIN BODY MATERIAL	FOOD GRADE ALLUMINIUM SHEET METAL AND ALUMINIUM SECTION FABRICATED
COATING ON MAIN BODY	FOOD GRADE SPECIAL PURPOSE POWDERCOATING
TOP COVER	DOUBLE UV FILTER UNBREAKABLE SOLID POLY CARBONATE SHEET 1.5 MM
MANUFACTURING USING	CNC LASER CUTTING AND CNC BENDING MACHINE
TEMPERATURE RANGE	50 TO 80 DEG CEL
TRAY SIZE	32 (L)INCH X 16(W) INCH X 1.25(H) INCH/ 817 (L) MM X 407(W) MM X 35(H) MM
AVERAGE LOADING CAPACITY OF TRAY	2.5 KG PER TRAY RANGE VARIES BETWEEN 1 KG TO 5 KG PER TRAY DEPENDING UPON PRODUCT WEIGHT/VOLUME
TRAY MATERIAL	FOOD GRADE ALLUMINIUM (STANDARD) / SS 304 (OPTIONAL AT EXTRA COST)
TRAY TYPE	PERFORATED 3 MM HOLES / PLAIN ( ON DEMAND)
COATING ON TRAY	FOOD GRADE SPECIAL PURPOSE POWDERCOATING ON ALUMINIUM TRAY IN CASE OF SS 304 NO COATING AVAILABLE
ENVIRONMENTAL PROTECTION	DUST PROOF , INSECT PROOF, WATER PROOF, RUST PROOF, RODENT PROOF AND COATING ON SURFACE FOR LONGER LIFE
ALL HARDWARE	SS 304
FAN TYPE	12 V DC BRUSHLESS AXIAL FANS / 230 v AC for electric backup heater Only
SUPPORT STRUCTURE	IN CASE OF 25 AND 50 KG MODEL MS FABRICATED, NOT REQUIRED IN LOWER VERSION, SUPPORT LEGS MADE OF MS FABRICATED

MODEL NO	IMAGE	SIZE MM	NO OF TRAY	NO OF FAN	SOLAR PANEL	CASTOR WHEEL	ELECTRIC HEATER
RSDAL1T (AVG LOADING 2.5 KG)		920 L X 445 W X 90 H	1	1 0.5watt	1 no 3watt 6 Volt	4	NA
RSDAL2T (AVG LOADING 5 KG)		960 L 520 W 300 H	2	1 2 WATT	1no 3 watt 6 v	4	NA
RSDAL4T (AVG LOADING 10 KG)		950L 950W 300H	4	2no 3 WATT	1no 10 watt 12 v	4	NA
RSDAL8T (AVG LOADING 20 KG)		1900 L 1000 W 300 H	8	3no 3watt	1no 30watt 12 v	4	NA
RSDAL12T (AVG LOADING 30 KG)		3050 L 1000 W 450 H	12	3no 3watt	1no 30watt 12 v	6	NA
RSDAL18T (AVG LOADING 45 KG)		3050 L 1100 W 550 H	18	4no 3watt	1no 30watt 12 v	6	NA
RSDAL8TEB (AVG LOADING 20 KG)		2100 L 1000 W 300 H	8	3no 3watt	1no 30watt 12 v	4	1200 WATT 230 V AC 50 HZ

<p>RSDAL12TEB (AVG LOADING 30 KG)</p>		<p>3250 L 1000 W 450 H</p>	<p>12</p>	<p>3no 3watt</p>	<p>1no 30watt 12 v</p>	<p>6</p>	<p>1500 WATT 230V AC 50HZ</p>
<p>RSDAL18TEB (AVG LOADING 45 KG)</p>		<p>3250 L 1100 W 550 H</p>	<p>18</p>	<p>4no 3watt</p>	<p>1no 30watt 12 v</p>	<p>6</p>	<p>1200 X 2 WATT 230V AC 50HZ</p>
<p><b>The Complete dryer set comes ready to use type You have To Just Fit Support Legs and castor wheel, after unboxing and You can start Drying in just 15 mins.</b></p>							
<p><b>No installation Support Or No technical Knowhow Required any person can do installation In Just 10 mins</b></p>							
<p><b>The complete set is maintenance free only the fan parts may have problem in future the can be easily replaced with new one in just 5 mins and total life of the structure is around 10 years.</b></p>							
<p><b>total average mositure removal rate per tray 600 to 800 gms per one solar day, in Upper layer and 300 to 400 gms per one solar day in lower layer with solar thermal efficiency of around 65 %.this drying rate may varies due to geographical location, seasonal variation, particle size, relative humidity, and other environmental factors.</b></p>							

