

**Zero Maintenance | IR Heater For Room & Central Heating  
 Reduce Grid Load & Energy saving up to 70%.**

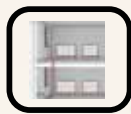
## IR HEATING SYSTEM - HEAT WITH DECORE



40mm



No Oxygen Burning



Room/ Centralized Heating System



Eliminates Mold, Microbes & Fungus Indoor



Saves Electricity Save Up To 70%\*  
\*CLOSE DOOR / WINDOW



No Fire Hazard



Electric / Solar/ Battery Operated



Child Safe IR Heater



Pet Friendly IR Heater



Improve Air Quality & Maintain Humidity

# PRODUCT CATALOG

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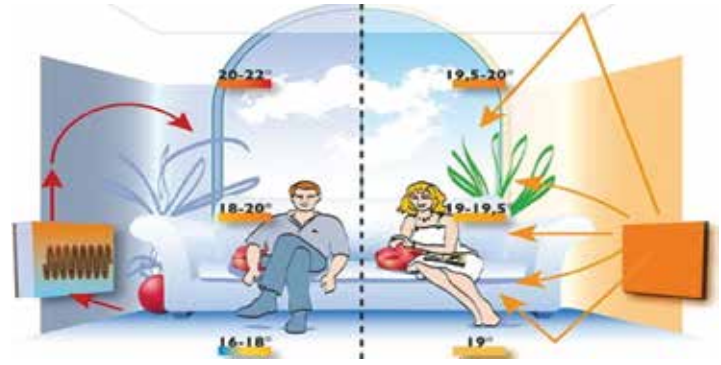


# INTRODUCTION

IRHS NLO, a leading heating solution, is renowned for its effortless installation and universal compatibility with electrical systems globally. Its outstanding energy efficiency makes it a standout, while its safety features ensure peace of mind. With precise climate control, it maintains a cozy environment all day long, slashing energy bills by up to 70%. What's more, its compatibility with pets and plants makes it an excellent choice for any indoor setting.

## IR Heating (Works like the Sun):

Infrared heating, much like sunlight, offers potential health benefits for people of all ages. It can help support the immune system and reduce inflammation, creating a healthier environment. Additionally, it may assist in wound healing, pain relief, and managing conditions like arthritis.



Other Convection Heaters

IRHS Heater

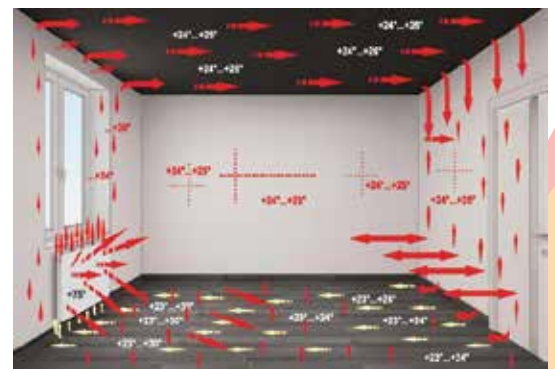
Furthermore, it's safe and gentle for everyone, and it warms objects in the vicinity up to 5-7 meters away. It operates efficiently without affecting oxygen levels and requires only 5-6 hours of use to maintain a comfortable and ambient temperature in enclosed spaces. Infrared heating also helps keep spaces clean and fresh by reducing microbes, making it ideal for various indoor settings like homes, hospitals, offices etc. Plus, it doesn't deplete oxygen, ensuring safety and comfort for occupants.

## Dual-Panel Two-Way IR & Convection Heating Technology Heat All Type Of Objects!

A two-way heating system combines the benefits of infrared (IR) heating and convection heating to provide efficient and comfortable warmth in indoor spaces. Infrared heating directly warms objects and surfaces, offering rapid and targeted warmth, while convection heating circulates warm air throughout the room for even heat distribution. By integrating both heating methods, two-way heating systems ensure rapid heating and consistent temperature levels, resulting in a cozy and energy-efficient indoor environment. Whether through infrared panels for direct radiant heat or convection heating for air circulation, two-way heating systems offer a versatile solution for effective indoor heating.

## HOW IRHS HEATERS WORK?

Four-sided heating of the plates generates twice as much heat as similar heaters of the same power.



## PRODUCT RANGE

### ROOM AND CENTRALISED HEATING

#### IRHS NLO Dual Plate Heater (Wall Radiant Heater) 800 watt. Two-way Heating – “IR & Convection”

##### FEATURE & TECHNICAL SPECIFICATIONS

Model No.	IRHS NLO-800W
Installed power	0.8 kW
Space heating area	Room - Up to 20 Sq.m
SpaceHigh Altitude Area HAA	Room - Up to 16 Sq.m.
Product dimensions, (h*w*d)	660*1020*40 MM
Mains supply voltage	220-260v. 50 Hertz
Surface heating temperature	Up to +65° to +85°C
Efficiency	90-96%
Protection class	IP-54, IP- 67
Heating method	Infrared radiation & convection, Two convection chambers
Installation method	Wall/Roof



#### IRHS NLO Triple Plate Heater (Wall Radiant Heater) 1200 watt. Two-way Heating – “IR & Convection”



##### FEATURE & TECHNICAL SPECIFICATIONS

Model No.	IRHS NLO-1200(Watts)
Installed power	1.2 kW
Space heating area	Up to 36 Sq.m.
SpaceHigh Altitude Area HAA	Up to 30 Sq.m.
Product dimensions, (h*w*d)	660*1020*80 MM
Mains supply voltage	220-260v, 50 Hertz
Surface heating temperature	Up to +65° to +85°C
Efficiency	90-96%
Protection class	IP-54, IP- 67
Installation method	Wall/Roof/Floor
Heating method	Infrared radiation & convection, Two convection chambers



## IRHS NLO Single Plate Heater (Wall / Roof Heater) 500 watt Heating way – “IR”



FEATURE & TECHNICAL SPECIFICATIONS	
Model No.	IRHS NLO-500W
Installed power	0.5 kW
Space heating area	Up to 12 Sq.m.
Product dimensions, (h*w*d)	350*1020*40 MM
Mains supply voltage	220-260v, 50 Hertz
Surface heating temperature	Up to +65° to +85°C
Efficiency	90-96%
Protection class	IP-54, IP- 67
Installation method	Wall/ Roof
Purpose / uses	For heating any type of premises
Heating method	Infrared radiation



## IRHS NLO AC - DC INVERTER IR Heater (700 watts) Two-way Heating – “IR & Convection”



FEATURE & TECHNICAL SPECIFICATIONS	
Model No.	IRHS NLO-700W
Installed power	0.7 kW
Space heating area	Up to 20 Sq.m.
Space High Altitude Area HAA	Up to 14 Sq.m.
Product dimensions, (h*w*d)	520*1010*34 MM
Mains supply voltage	24V (single Panel)
Surface heating temperature	Up to +65° to +85°C
Efficiency	90-96%
Protection class	IP-54, IP- 67
Installation method	Wall/Room/Floor
Heating method	Infrared radiation & convection, Two convection chambers

# CENTRAL HEATING SYSTEM CLIMATE CONTROL 24x7

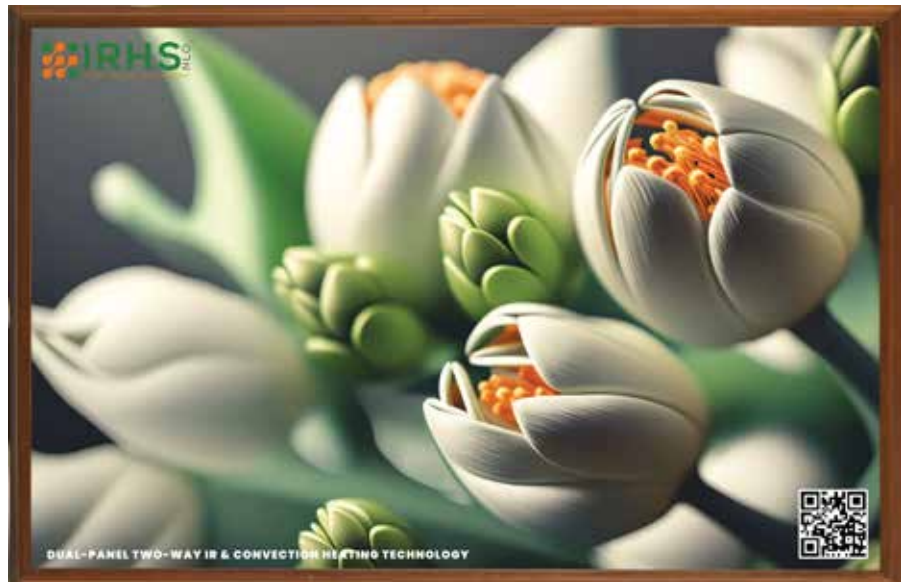
1 cubic meter to 100000 cubic meter (18 W per cubic meter)  
Two-way Heating – “IR & Convection”



- ✓ Heating (L\*W\*H) 18 watt/ M<sup>3</sup>
- ✓ Infrared Heating System
- ✓ Panel Fix In Series
- ✓ Highly Efficient Technology
- ✓ Wall or Ceiling Mounted
- ✓ Ultra Slim Design
- ✓ Suitable for Offices, Marriage Hall, Club House & Factory
- ✓ Easy Installation
- ✓ More Energy Saving
- ✓ Maintain Humidity
- ✓ Improve Indoor Air Quality



## DECORATE YOUR ROOM WITH CUSTOMIZABLE HEATING



# OUTDOOR BODY WARMER

**Built for High Altitudes | Ready for the outdoors  
Stay warm 24x7**

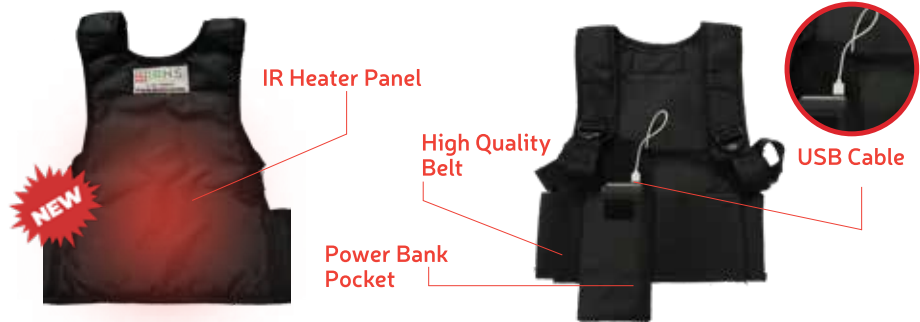
**NEW**



## IRHS Body Warmer- Thigh Pad



## IRHS Body Warmer- Jacket



**Power Source:**  
DC - 5 Volts

**Precision Temperature Control:**  
Maintains your desired temperature with high accuracy.

**Easy Installation**  
User-friendly setup process for quick and effort-less installation.

**Durable Design**  
Built to last with high-quality materials, ensuring long-term reliability.

## IRHS Body Warmer- Bulletproof Jacket



## IRHS BODY WARMER - MAT



**For Sleeping | Resting | Lounging  
and many more...**

### Enhanced Comfort:

Provides warmth to the legs and lower back, improving comfort in cold environments.

### Versatile Use:

Heating pillows can be used separately as heated seats, ideal for use in vehicles or outdoor seating.

### Long Operating Time

The mat with two pillows offers up to 7 hours of continuous warmth from a single battery charge, and individual pillows can run for at least 15 hours.

### Safety Features

Equipped with a thermostat and automatic cut-off at +38°C to prevent overheating.

### Portable and Lightweight

Easy to carry, weighing approximately 2 kg, and powered by a portable battery via a USB cable.



**40 to 60 watts/  
5-12-24 Volt**

**Auto cut | Save Energy | Fire Resistance**

## IRHS BATTERY WARMER

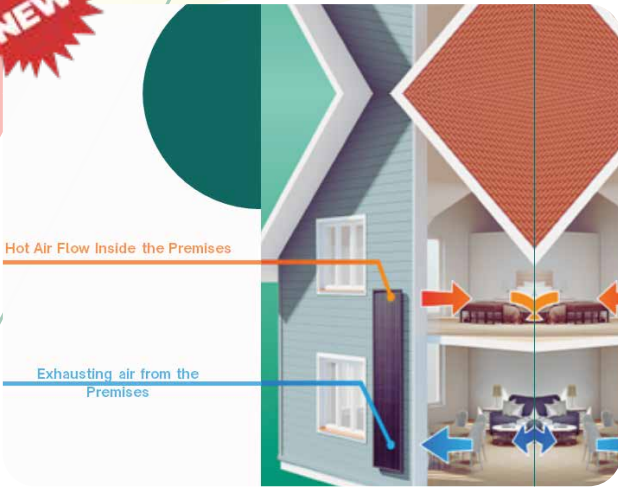
Power through the cold with our Battery Warmer, designed to maintain optimal performance even in the harshest conditions.

Utilizing infrared technology, it keeps your batteries warm, ensuring they function efficiently and reliably. Perfect for automotive enthusiasts, off-grid adventurers, and anyone who relies on batteries in freezing temperatures. The auto cut-off feature guarantees safety and longevity, making it an essential companion for winter resilience.

**Four-sided heating of the plates generates twice as much heat as similar heaters of the same power**

## SOLAR HEAT COLLECTOR

**NEW**



Solar collectors reduce moisture, prevent dampness, and mold.

Improve the microclimate and heat the room. Boost business profitability and create efficient home systems.

No electricity consumption required.

Completely autonomous, powered by the sun.

**Zero Operating Cost**

## SMART POWER PACKAGE STATION



SPPS (Smart Power Package Station) - (Designed for extreme cold )

Built-in Li-FePo4 Battery with IR heating & temperature control

2000-cycle Battery Life, High Efficiency >85%

Efficient DC LED (2 Lamps) & 1 Fan

High-Efficiency Solar PV & Wind Turbine for Low Sunlight Areas

USB & 2-in-1 Connector for Mobile & Laptop Charging (220V)

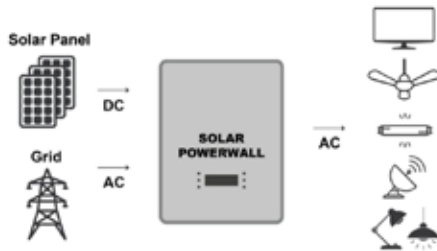
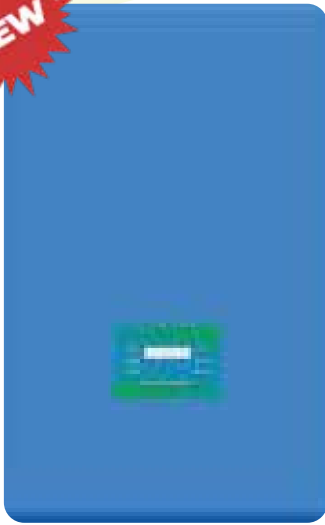
12V Output for Pump, Air Blower & Water Systems

Smart Display for Solar Charging, SOC Level & Errors

Bluetooth-Based Remote Monitoring, WiFi (Option)

**8-hour Night Backup for 70m<sup>3</sup> IR Heating (500W AC-DC)**

## SOLAR POWER WALL



Built-in Li-FePo4 Battery (Maintenance-free, 2000 cycles)

MPPT Charging System (High efficiency, >85%)

Advanced Microprocessor & DSP 32-bit Controller

Solar Priority with Smart Charge Sharing (Solar + Grid)

Overtemperature, Overcharge, Short Circuit & Overload Protection

Pure Sine Wave Output with Excellent Load Regulation

Trench-FET MOSFET-Based Design

Battery Full Changeover Based on Solar Energy

LED & LCD Indicators, Optional WiFi App

Wall-Mountable Installation



## SMART ENERGY SAVER

**CLIMATE CONTROL THERMOSTAT (POWER SAVING)**

Maintain Temperature

Make Cozy Environment 24 x 7

Fix Desired Temperature

## VOLTAGE 5-STEP STABILIZER

**CLIMATE CONTROL (POWER SAVING)**

Ensure the consistent performance of your IR heaters with our voltage 5-step stabilizer, specifically engineered for areas with frequent voltage fluctuations. This stabilizer not only protects your heaters from power surges but also guarantees their smooth operation, even during low voltage conditions, making it an essential accessory for regions with unstable electrical supplies.



Available options

2KVA, 4KVA, 6KVA and 8KVA

## SERVO STABILIZER



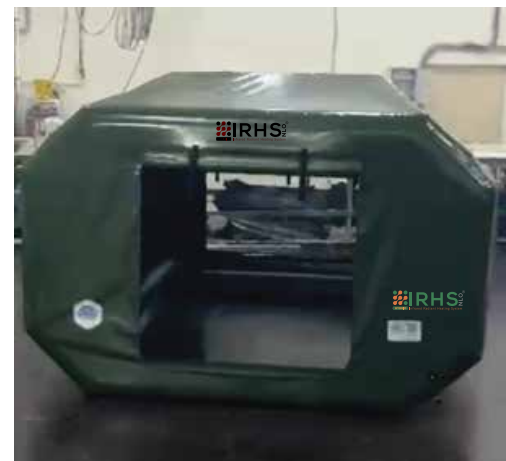
**Available options**  
**As per requirement from 10KVA to 30KVA**

Our servo stabilizer is the ultimate solution for maintaining consistent voltage levels in regions with significant power variations. By providing precise voltage stabilization, it ensures that your IR heaters operate efficiently and safely, regardless of the external power conditions. This accessory is crucial for guaranteeing the longevity and performance of your heating systems in areas prone to high voltage fluctuations.

## INFLATABLE PVC STRUCTURES



- Quick Setup** – Inflates fast for easy deployment.
- Lightweight & Portable** – Easy to transport and move.
- Versatile Use** – Works on any terrain, ideal for off-grid needs.
- Customizable Comfort** – Add insulation, lighting, and more.
- Expandable** – Connect units for larger spaces.
- Durable & Safe** – High-strength, non-toxic, UV-resistant materials.



**COMMANDO TENT (2 PEOPLE)**

# CUSTOMIZED SOLUTION



**INFLATABLE TANK GARAGE WITH IRHS HEATING AND SPSS**



**SELF SUSTAINABLE HYBRID INFLATED TENT (READY TO MOVE)**



**PD (INSULATED & HEATED HYBRID SOLUTION)**

**Survival & Comfort**

Reliable, energy-efficient heating for extreme conditions.

**Scalability & Versatility**

Customizable for various operational needs.

**Operational Efficiency**

Protects systems, vehicles, and storage from extreme temperatures.

**Sustainability & Self-Sufficiency**

Hybrid-powered for independent operation.

# UPCOMING

**MIRROR HEATER**



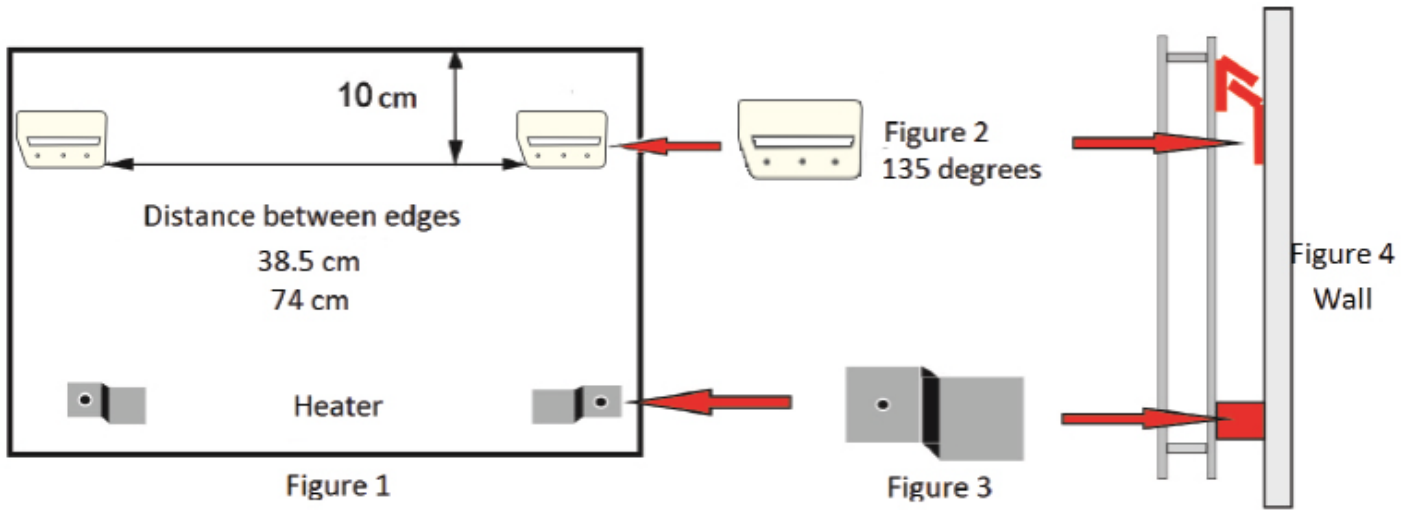
**ANTIFREEZE FOR WATER STORAGE TANK ,PIPE (DC)**



**Pipe Warmer**



## HOW TO INSTALL HEATER:



It is necessary to determine the height to install your heater. Take away 10 cm from this height: it will be the mark to attach the lower part of the 135-degree edge (Figure 1).

The distance between edges is 38.5 cm, 74 cm (Figure 1). Consider lower level. Z-type edge (Figure 3) shall be fixed by the lower bolt. It is needed to align the vertical line.

Remove transportation foam plastic from the casing.

The heater is to be hung on the upper 135-degree edge (Figure 2).

Heater legs (If provided) are to be fixed by the lower bolt from both sides (page 2).

## HOW TO INSTALL HEATER THERMOSTAT:

**Please ensure minimum 1-2 feet distance between the heater panel and Thermostat socket**



# HERE ARE SOME EXAMPLES OF WHERE IRHS CAN BE USED FOR 24/7 CENTRAL HEATING



Office Complex



Hospitals



Airports



Gym / Sports complex



Hotels



Greenhouses



Schools



Retail stores



Restaurants



Exhibition /  
Conference hall



Work station



Warehouse

It can be used in many ways. These are just a few examples

## For Cost Calculation

To receive a detailed cost estimate for your specific requirements, please provide the following

Name

Area Length, Width, Height (In Meter or Feet)

Location & Pincode

Outside minimum Temperature

Construction type (PVC/PUFF/BRICKS/RCC etc)

Mail Us : [info@smart-city-india.com](mailto:info@smart-city-india.com)



# FREQUENTLY ASKED QUESTIONS

## Q . What is the purpose of this IR heater?

It provides steady warmth by heating objects instead of air, ensuring safety, optimal humidity (above 60%), and no oxygen depletion—creating a healthier and more comfortable environment.

## Q . Is Infrared (IR) Heating Safe?

Yes, infrared heating is completely safe.  
No Radiation Risk – Uses safe **FAR-Infrared** waves, even used in therapy.  
No fire hazard  
Maintains humidity- No oxygen depletion  
Infrared heating is a safe, efficient, and eco-friendly way to stay warm

## Q . How does the climate control device help?

Maintains a steady preset ambient room (22°C) temperature.  
Saves electricity by automated switch on and off 24x7.

## Q . Can the IR heater work without the climate control device?

Yes, the climate control device is a power-saving feature. The heater can operate without it.

## Q . Does the IR heater deplete oxygen?

No, making it safe for enclosed spaces.

## Q . How to ensure best performance?

Proper insulation is crucial.  
Close gaps in doors/windows.  
Install near an internal wall with the provided wall clamp.  
Wall mounting is 20% more effective than floor placement.

## Q . Why is the room still cold?

Poor room insulation.  
Inadequate power supply  
Walls take longer to warm up.

## Q . How long does heating take?

0°C to 16°C in **3 hours** within a 3m range.  
22°C may take **6-9 hours**, depending on insulation and outside temperature.

## Q . Power requirements?

**850W** double panel covers 160 sq. ft.  
Needs **220-240V, 4A** power.

## Q . Voltage compatibility?

Works best at **220-240V**.  
Below **200V** reduces performance

## Q . How to test efficiency?

Close all doors/windows, run for 3-4 hours.  
Place **2 inches from a wall** (wall clamp provided) for best results.

## Q . Can it work in extreme cold?

Yes, tested at -15°C, with 6W per sq. ft. heating for a 10 ft. high room. **Proper insulation is key.**

## Q . Key considerations while installing?

Install on the wall **at a height of 5.5 feet from floor**, facing the object (e.g., human).  
Maintain the power cord length distance between wall socket and IR Heater.  
Place the Climate Control Thermostat beside the IR Heater (not above or below), maintaining a moderate distance—not too close—for accurate measurement.  
Ensure **220V+ power**, below 200V reduces efficiency.  
**Check mounting, insulation, and power stability.**

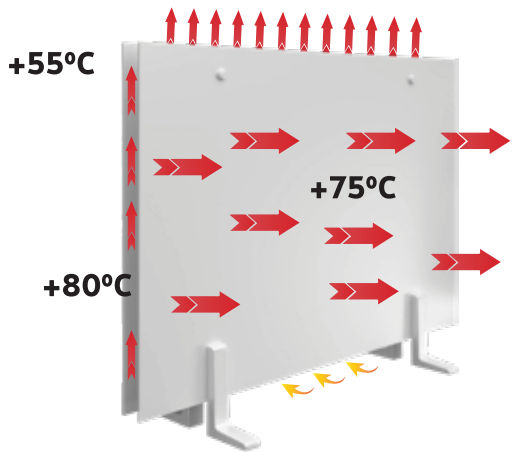


Maintains Humidity  
"Works Like The Sun"

# IR Heater Efficiency - 90%

IRHS -0.85 KW  
Efficiency:90%  
IR + Convection

Oil Heater : 2-2.5kw  
Efficiency : 30-40%



Local Support: Sales & Technical



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