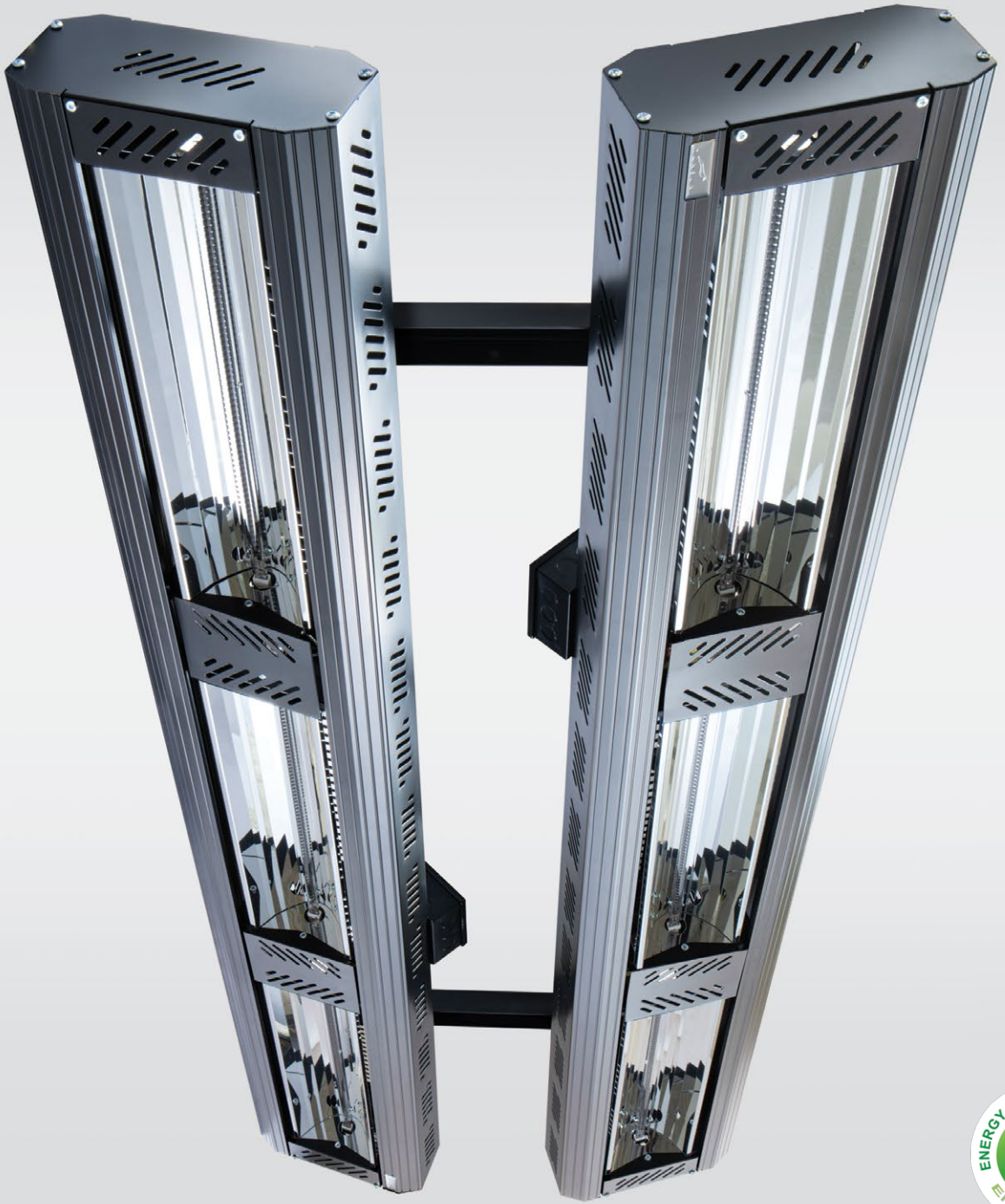
TANSUN®

WORLD LEADERS IN RADIANT HEATING

APOLLO EXCELL

THE ROAD TO NET ZERO

THE TOTAL HEATING SOLUTION



ENERGY EFFICIENT ENERGY SMART ENERGY EFFICIENT

MADE IN BRITAIN

The Apollo Excell is a energy efficient infrared heating solution designed specifically for industrial & commercial buildings which can be difficult to heat. Benefit from targeted electric infrared heating systems to help meet your net zero objectives.

The Apollo Excell has been designed with the latest in quartz infrared heating technology boasting up to an 18kW instant output - without the need for pre-heating. This high level infrared heater with compatible Tansun energy saving control functions is suitable for mounting at elevated heights inside warehouse / factory type settings.

The Excell units are directly compatible with three-phase electrical circuits, making installation and load balancing easier. The Apollo Excell heaters require no maintenance and, unlike gas, annual certification is not required. Plus with no costly gas pipe work, flueing through roofs or assembly of equipment required compared to gas fired systems - the Apollo Excell presents a hassle-free, flexible heating solution.



THE TANSUN APOLLO EXCELL

THE ROAD TO NET ZERO

THE TOTAL HEATING SOLUTION



NO CARBON EMISSIONS – TOTALLY NET ZERO WHEN PAIRED WITH A RENEWABLE ENERGY TARIFF



FEATURES & BENEFITS

INSTANT HEATING

No pre-heating time required, providing instant warmth and eliminating lengthy waiting periods to reach a desired temperature.

LOWER RUNNING COSTS

Infrared heaters use less energy than traditional alternatives to produce the same amount of heat - focusing on warming occupants where and when needed.

VERSATILE PLACEMENT OPTIONS

Suitable for areas where wide but targeted heat coverage/spread is required. The Excell is unaffected by draughts, ensuring consistent heating even in environments with high air changes.

VERY LOW MAINTENANCE

No requirement for annual servicing unlike other forms of heating.

FULLY FLEXIBLE CONTROLS

Tansun energy-saving controllers allow for modulation/dimming of heat once set point temperature is reached, maintaining comfort levels while minimising energy usage.







MAIN APPLICATIONS

- Aircraft hangars
- Automotive workshops and showrooms
- Factories
- Retail outlets
- Sports arenas and halls
- Warehouses
- Workshops
- Storage facilities
- Rail sheds





WHY THE TANSUN APOLLO EXCELL

BRITISH MANUFACTURED

TOTALLY ZERO CARBON EMISSIONS WHEN USED WITH A RENEWABLE ENERGY TARIFF

100% EFFICIENCY AT SOURCE

INSTANT HEAT NOT AFFECTED BY AIR MOVEMENT

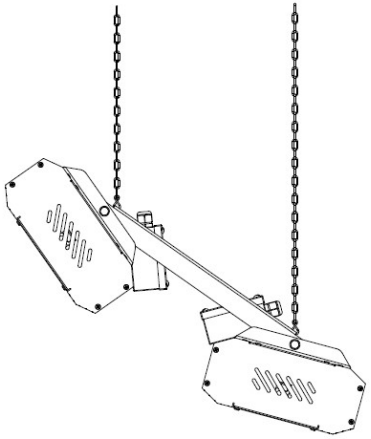
UNIQUE ABILITY TO CONTROL OUTPUT 33% – 100%



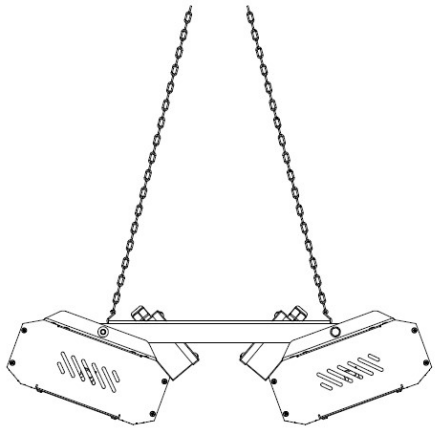
APOLLO EXCELL MOUNTING OPTIONS

Installing the Apollo Excell is often much simpler than most other forms of heating such as gas alternatives with no pipework etc. to have to consider. The Apollo Excell can be ceiling hung from chains at various angles.
We can assist further with the best mounting options for various schemes in our FREE heating design service taking into account your heating requirements.

TYPICAL ANGLED SUSPENSION



TYPICAL FACE-DOWN SUSPENSION



TANSUN APOLLO EXCELL 12kW



12 kW | 18.9 Kg | IP | RAL

Available Options on Request

Standard Colour



KEY FEATURES

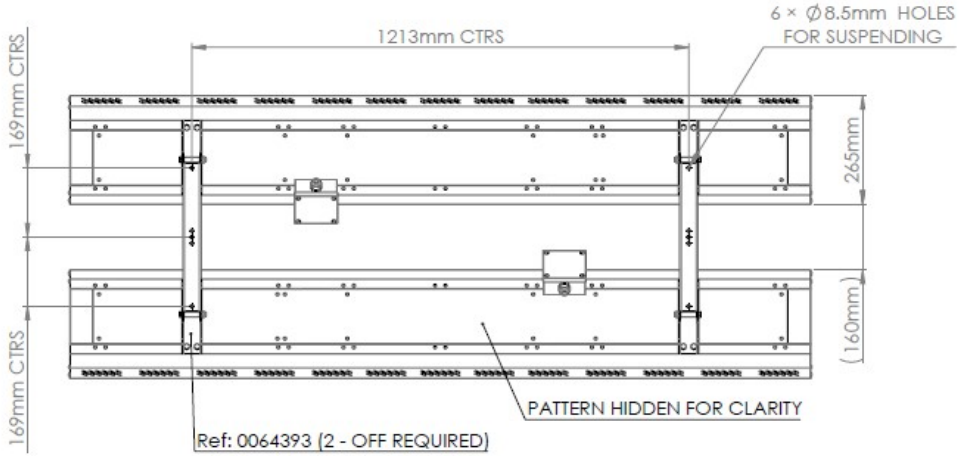
- CONTROLLABILITY, DIMMING AND TIMER FEATURES
- AVAILABLE IN ANY RAL COLOUR (SUBJECT TO AVAILABILITY)
- FACETED SILVER REFLECTORS OFFERING INCREASED HEAT PROJECTION*
- HIGH POWERED HEAT FOR BOTH INDUSTRIAL AND COMMERCIAL SETTINGS

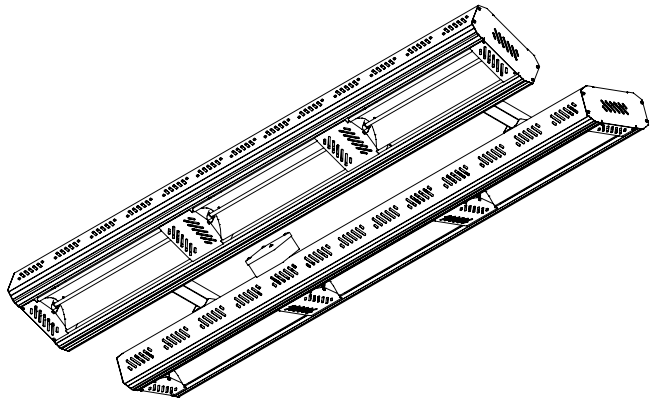
*GOLD REFLECTOR ALSO AVAILABLE AT ADDITIONAL COST



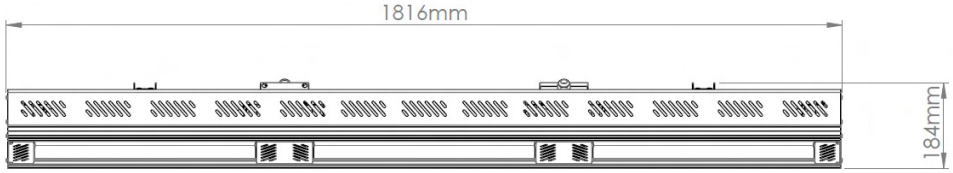
DIMENSIONS

BACK

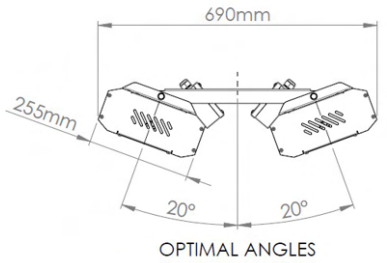




FRONT



SIDE

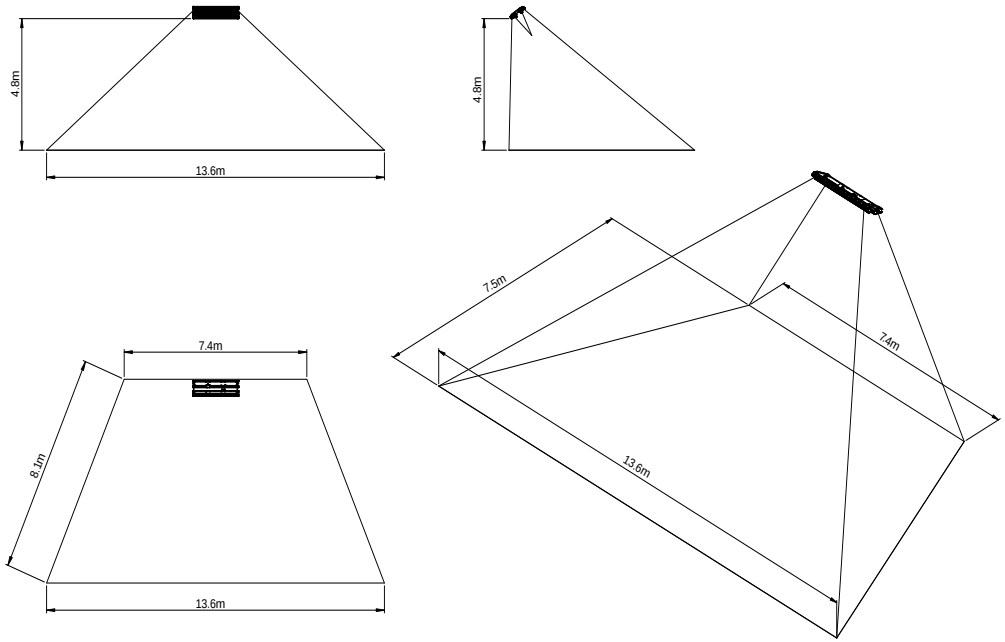


TECHNICAL DATA FOR APOLLO EXCELL 12kW

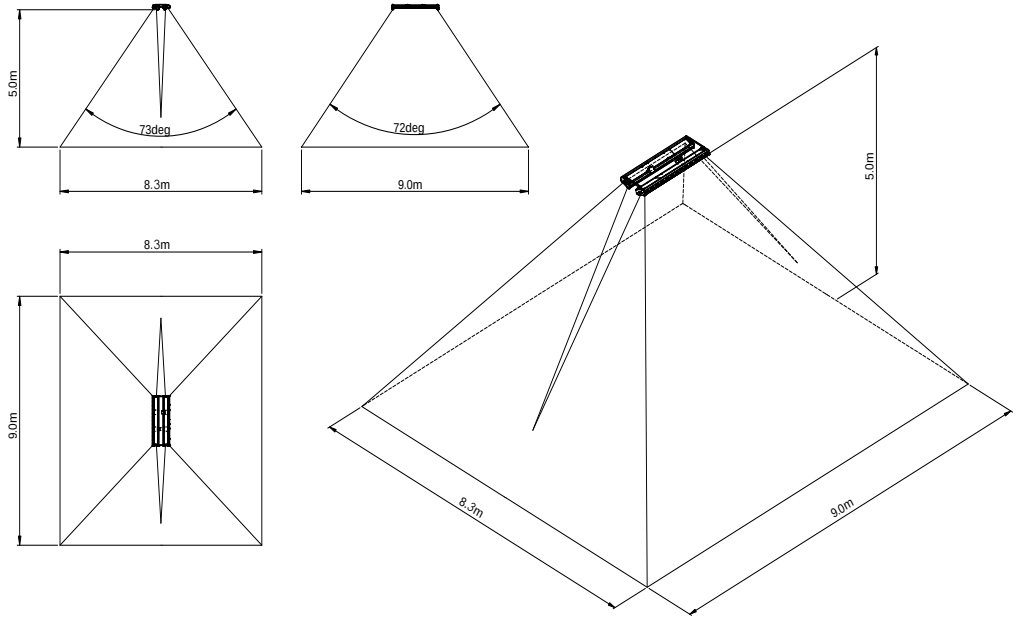
Model	Voltage (V)	No. of phases	Total power (kW) (2 x 6kW)	Power of each module (3 x 2kW)	Total current per phase	Minimum mounting height from floor	Minimum distance from ceiling	Minimum distance from side wall	Weight	Dimensions (L x W x D) (mm)	IP Rating
A1KW-120NP	230	1	12kW	6kW	52.2A	4.5m	0.5m	2.0m	18.9kg	1816 x 690 x 184	N/A
A3KW-120NP	400	3	12kW	6kW	17.4A	4.5m	0.5m	2.0m	18.9kg	1816 x 690 x 184	
A1KW-120IP	230	1	12kW	6kW	52.2A	4.5m	0.5m	2.0m	18.9kg	1816 x 690 x 184	IP55
A3KW-120IP	400	3	12kW	6kW	17.4A	4.5m	0.5m	2.0m	18.9kg	1816 x 690 x 184	

HEAT COVERAGE

APOLLO EXCELL 12kW
TYPICAL HEAT FOOTPRINT WHEN ANGLE MOUNTED



APOLLO EXCELL 12kW
TYPICAL HEAT FOOTPRINT WHEN MOUNTED FACE DOWN

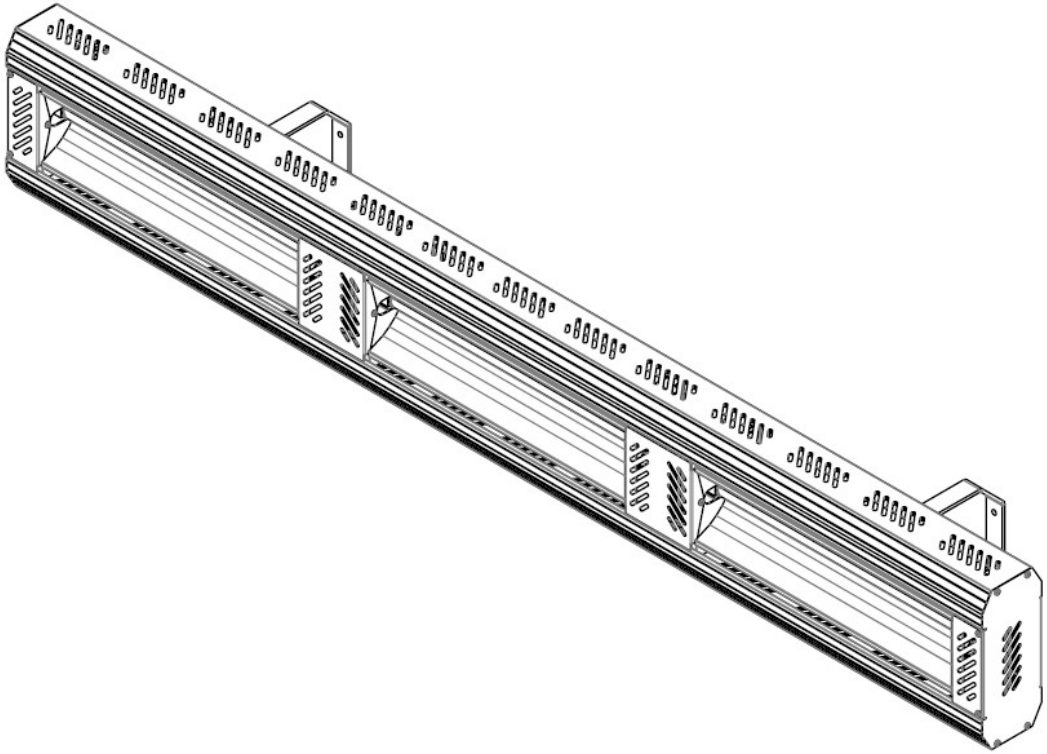


TANSUN APOLLO EXCELL 6kW

6 kW | 8.8 Kg | IP | RAL

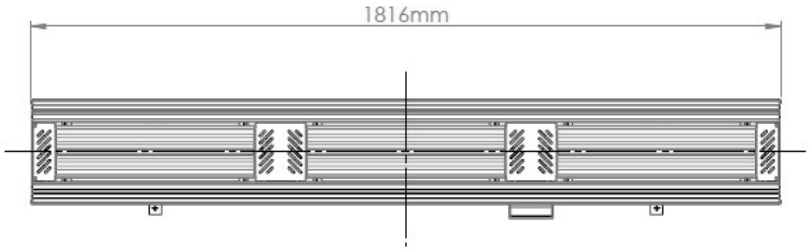
Available Options on Request

Standard Colour

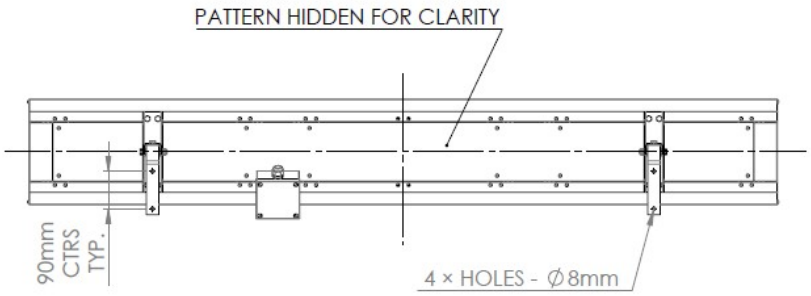


DIMENSIONS

FRONT



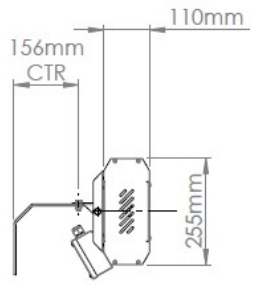
BACK



TECHNICAL DATA FOR APOLLO EXCELL 6kW

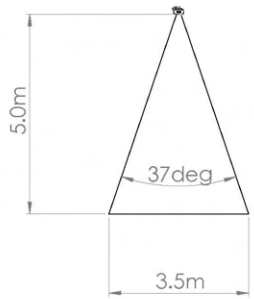
Model	Voltage (V)	No. phases	Total power (kW) (3 x 2kW)	Total current per phase	Minimum mounting height from floor	Minimum distance from ceiling	Minimum distance from side wall	Weight	Dimensions (L x W x D) (mm)	IP Rating
A1KX-060NP	230	1	6kW	26.1A	3.0m	0.5m	1.5m	8.8kg	1820 x 260 x 110	N/A
A3KX-060NP	400	3	6kW	8.7A	3.0m	0.5m	1.5m	8.8kg	1820 x 260 x 110	
A1KX-060IP	230	1	6kW	26.1A	3.0m	0.5m	1.5m	8.8kg	1820 x 260 x 110	IP65
A3KX-060IP	400	3	6kW	8.7A	3.0m	0.5m	1.5m	8.8kg	1820 x 260 x 110	

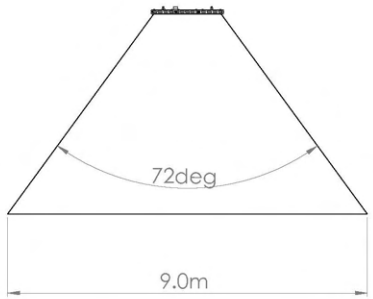
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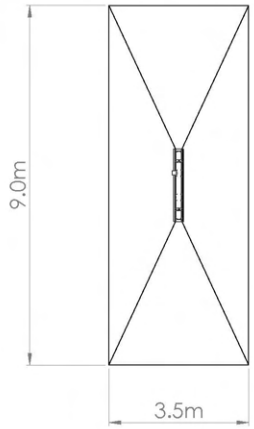


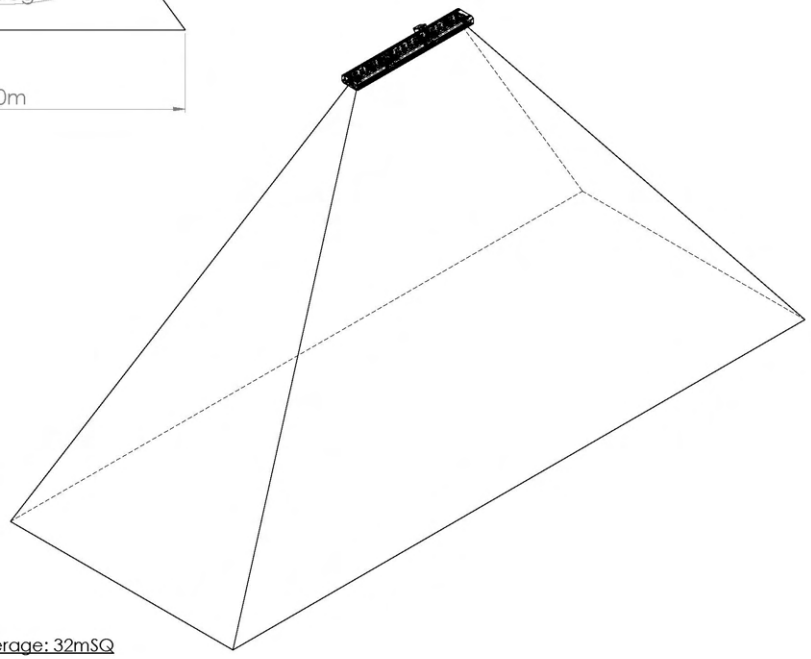
HEAT COVERAGE

APOLLO EXCELL 6kW
TYPICAL HEAT FOOTPRINT WHEN MOUNTED FACE DOWN



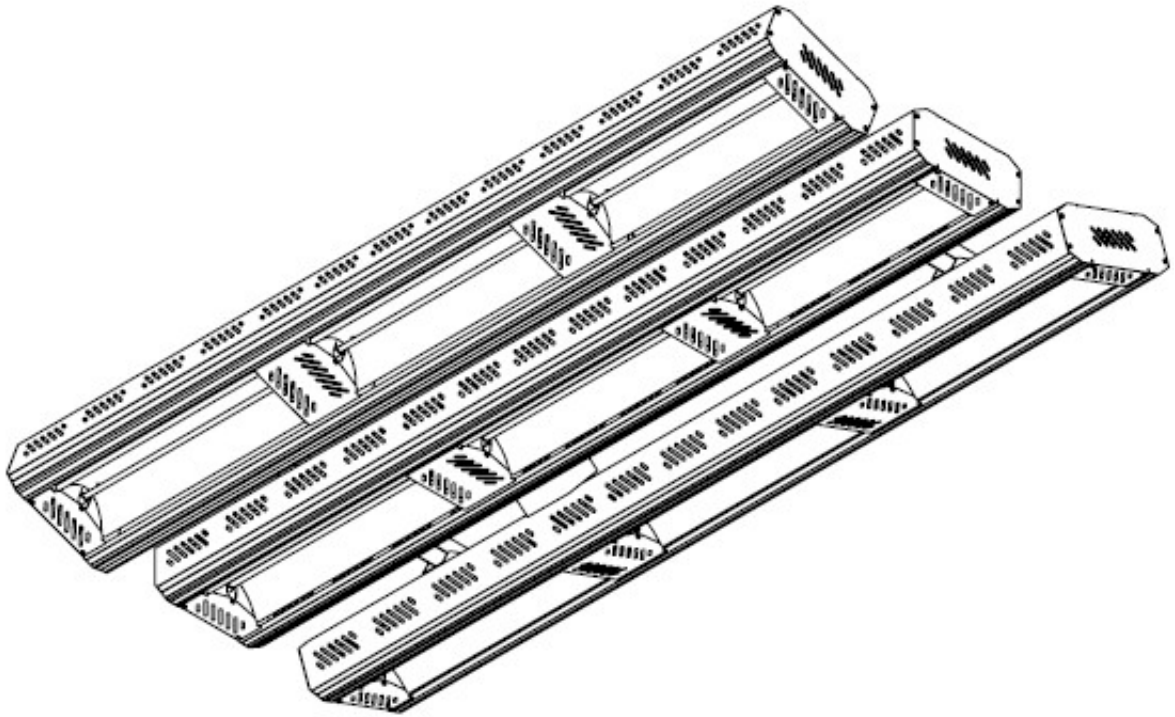






Total Coverage: 32mSQ

TANSUN APOLLO EXCELL 18kW



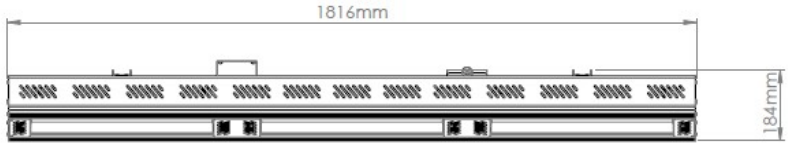


Available Options on Request

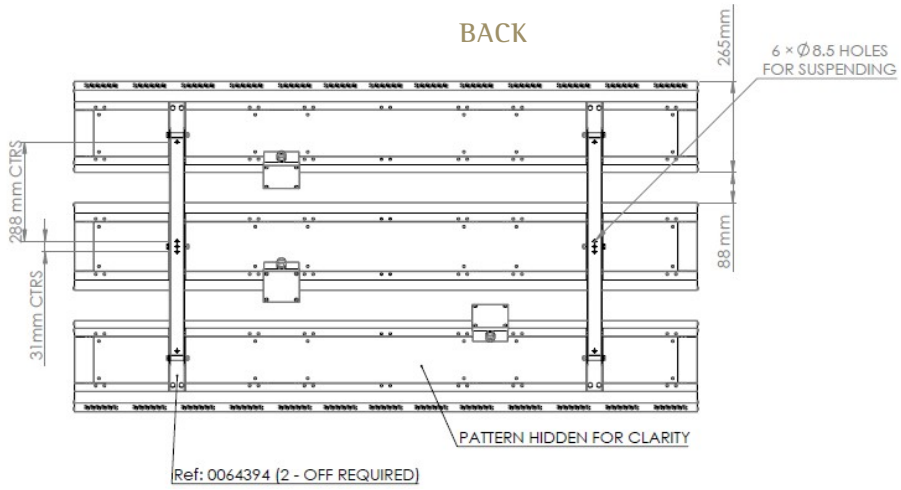
Standard Colour

DIMENSIONS

FRONT



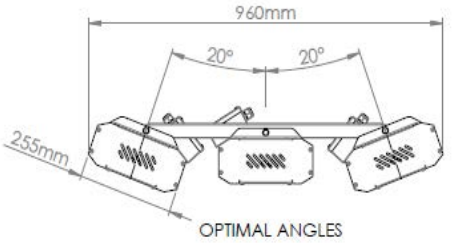
BACK



TECHNICAL DATA FOR APOLLO EXCELL 18kW

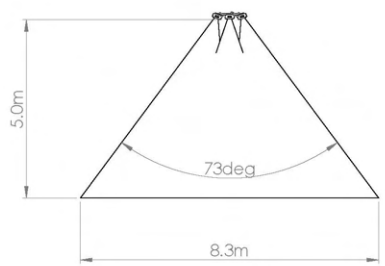
Model	Voltage (V)	No. phases	Total power (kW) (3 x 6kW)	Power of each module (3 x 2kW)	Total current per phase	Minimum mounting height from floor	Minimum distance from ceiling	Minimum distance from side wall	Weight	Dimensions (L x W x D) (mm)	IP Rating
A1KU-180NP	230	1	18kW	6kW	78.3A	4.5m	0.5m	2.0m	28.6kg	1816 x 960 x 184	N/A
A3KU-180NP	400	3	18kW	6kW	26.1A	4.5m	0.5m	2.0m	28.6kg	1816 x 960 x 184	
A1KU-180IP	230	1	18kW	6kW	78.3A	4.5m	0.5m	2.0m	28.6kg	1816 x 960 x 184	IP55
A3KU-180IP	400	3	18kW	6kW	26.1A	4.5m	0.5m	2.0m	28.6kg	1816 x 960 x 184	

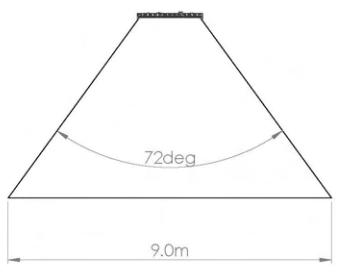
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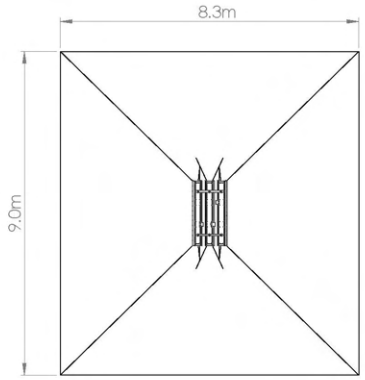


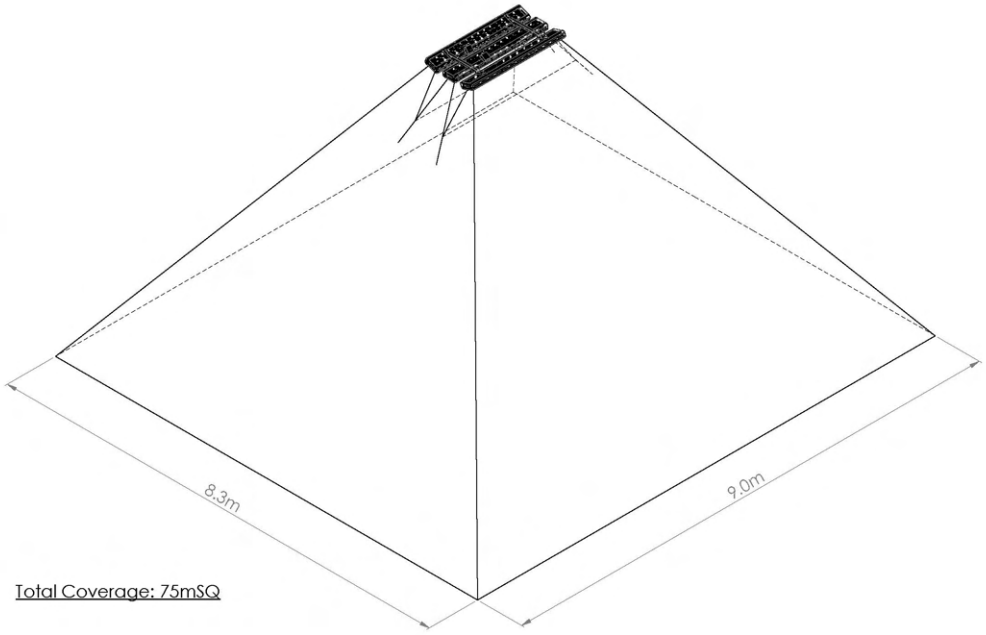
HEAT COVERAGE

APOLLO EXCELL 18kW
TYPICAL HEAT FOOTPRINT WHEN MOUNTED FACE DOWN









Total Coverage: 75mSQ





100%
EFFICIENCY
AT SOURCE









TANSUN **CASE STUDY**

Tansun manufacture all our products at our factory headquarters in West Bromwich, England. The factory area is approximately 60,000 square feet. When Tansun purchased the building the factory area was heated via a gas fired warm air system.

This old system was over 500kw in power and needed to be switched on approximately two hours before the factory operatives arrived in the winter months, to bring the room up to the required ambient temperature.

The system was also unnecessarily heating the whole factory area and was obviously very costly to run. The factory has three large roller shutter doors and when opened the majority of the heat would escape and cold air would rush into the factory areas. In the colder months the heating had to be kept running 24 hours a day to combat this 'wasted heat' situation.

Recognising this problem, Tansun replaced the old inefficient gas system with a number of Tansun Apollo heater configurations including the Apollo Excell. Correct power options where situated in areas where operatives were working a spot heating scenario was created The heaters were strategically placed to avoid the need to heat the entire factory building.

Main benefits of replacing the old gas system with the Apollos full shortwave heaters.

- Replaced the old 500 kW+ gas heating system with Apollos which only needed 72kW power.
- No pre-heating time now required to bring the area up to the ambient temperature required.
- The Apollos can be controlled up or down to the exact level required.
- Zonal spot heating in dedicated areas of the factory. No wasted energy heating the whole factory.
- There are now zero ongoing maintenance costs, unlike old gas system had to be maintained and serviced regularly adding to costs.
- Tansun are saving over 50% on heating costs during the winter months compared with the old gas system.
- The roller shutter doors can be opened without affecting the heat performance
- There is no dust and air movement providing a healthier, and safer work environment.

INTELLIGENT CONTROLS

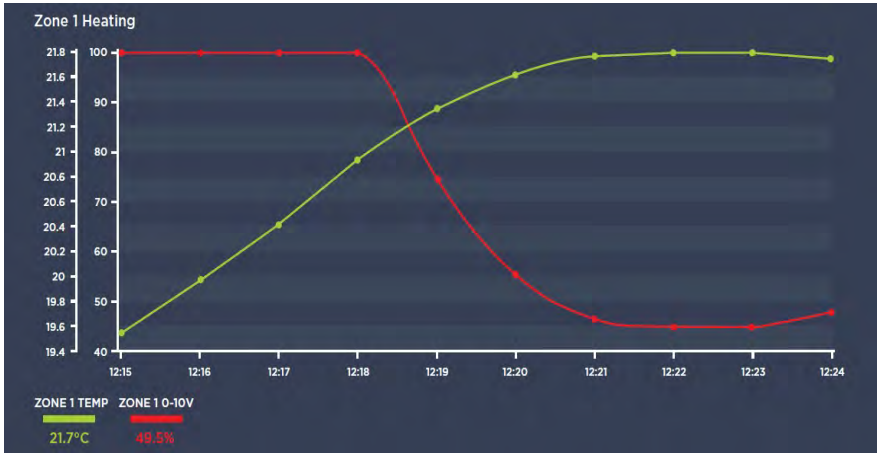


Unlock unparalleled control and efficiency with Tansun's pioneering and fully flexible Intelligent Control Systems. Harnessing modulating capabilities ranging from 100% down to 30%, our intelligent systems empower you to maximise energy savings without compromising on comfort.

Through smart engineering, you gain the freedom to tailor your temperature precisely to your heating requirements, ensuring optimal performance in any environment. Total targeted zoning further enhances efficiency, allowing you to direct the heat exactly where it's needed most, minimising wastage and maximising effectiveness.

Experience linear control at desired set points, providing consistent and reliable heating throughout your space. Compared to gas-fired systems, our control systems offer up to 60% less energy usage, delivering significant cost savings while reducing environmental impact.

Accessible through the intuitive GUI visual interface or integrated seamlessly with your BMS system via BACnet connectivity, our control systems offer unparalleled versatility and convenience. Embrace the future of heating control and elevate your space to new levels of comfort and efficiency with our fully flexible control systems.



HOW DOES IT WORK? Example zonal energy savings when operating an Intelligent Tansun control system, maintaining set point temperature (green line) while energy input (red line) decreases substantially.





Tansun offer an unbeatable range of energy saving control options including: Manual Dimming, On/Off Black Bulb Time & Temperature Controls and our complete Intelligent Time & Temperature Control system. Contact us to find out more.

TANSUN®

WORLD LEADERS IN RADIANT HEATING

Tansun Ltd, Spectrum House,
Ridgacre Road,
West Bromwich,
West Midlands B71 1BW

Tel: +44 (0)121 580 6200
Fax: +44 (0)121 580 6222
Website: www.tansun.com
Email: sales@tansun.com

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Technical data and product subject to change without prior notice. Dimensions exclude brackets.

Tansun heaters are designed and manufactured for outdoor use. They can be used indoors but should be used in conjunction with suitable energy saving controllers. Please contact Tansun for controllers for these applications. All data is an approximate guide only.