CLSIR MODULAR UNIT

KEY FEATURES: -

- **IMPROVED QUALITY DUE TO NON-CONTACT HEATING:**
  Infrared emitters can heat a product without physically contacting them or without the necessity of a medium like air having to contact the object. It can also heat in vacuum. This is advantageous where dust or other contaminants can mar the product's surface finish.

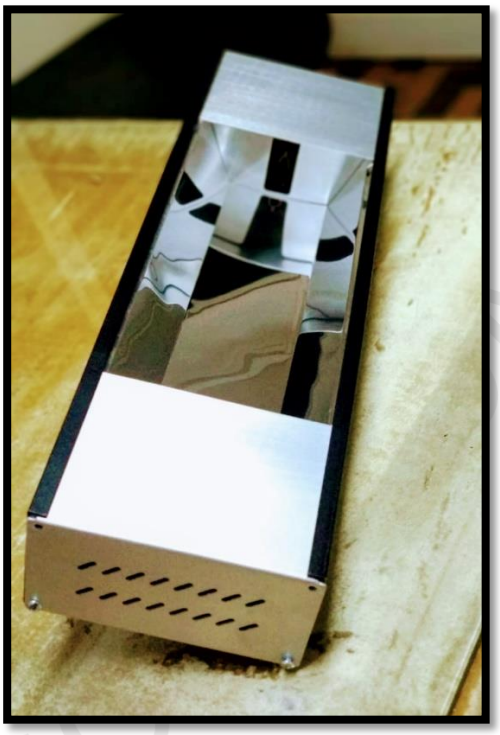
- **HIGH ENERGY EFFICIENCY**: In IR heating the heat lost to air or to surroundings is very small. Also, IR like light can be reflected, concentrated, directed i.e. it can be focused on the object. Hence energy efficiency is high. In many applications related to coatings it is not even necessary to heat entire mass of the product.

- **FAST RESPONSE OF THE EMITTERS**: Because of low thermal inertia of Infrared emitters there is no need for long preheat period. In most cases this period is only a few minutes. Quartz short-wave IR systems are practically instant ON-OFF type. This has dual advantages – Firstly the systems can be switched OFF even during short breaks in production resulting savings. Secondly the heating system can be interlocked through safety interlocks to switch OFF within seconds in case of emergency.

- **FASTER HEAT – SHORTER TIME CYCLES**: Infrared reduces the heating time cycle to typically one third of those required in convection ovens. This is because in convection oven the medium i.e. air gets heated first and it is only the film of air in contact with surface transfers heat to the products. Air itself gets heated slowly. This slows down the heat transfer process. Worse still, in case of coatings, the problem in compounded because the coatings themselves are not good conductors. Infrared heats the product directly without heating the medium in between. In case of coatings, infrared even penetrates the entire thickness of coatings instantly. This makes it a fast, one stage heat transfer.

- **SPACE SAVINGS**: As a corollary of the above, for all continuous and conveyorized process IR heating systems require smaller lengths. Many times, it is possible to suspend the oven from ceiling. All this results in savings in valuable floor space.

- **FLEXIBILITY:** IR heating can be installed for any type of material movement – vertical, horizontal, inclined etc. It can even be installed on bends, radii etc. in case of space constraints. They can be installed in very short times and subsequent additions for higher production are easy because of modular construction.



Overall Dimensions(mm)					Lamp Specification		
Module	**Length**	**Width**	**Depth**	**Lamp Used**	**Heated Length**	**Watts**	**Volt**
IRWD 1000	460	145	80	SW 1000	254	1000	240
IRL 1000	460	80	55	SW 1000	254	1000	240
IRWD	610	145	80	SW 1600	406	1600	240
IRL	610	80	55	SW 1600	406	1600	416
IRWD	725	145	80	SW 2000	513	2000	416
IRL	725	80	55	SW 2000	513	2000	416
IRWD	825	145	80	SW 2500	635	2500	416
IRL	825	80	55	SW 2500	635	2500	416

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