

SOLAR DINGIN MICROSOLAR HYBRID SOLAR AIR CONDITIONER INSTALLED AT NORTH PORT , PORT KLANG, MALAYSIA JUNE 2013 WITH 40% TO 50% SAVINGS IN ELECTRICITY.



Microsolar Manifold unit of Solar Dingin Air Conditioner installed at North Port, Port Kelang, Selangor, Malaysia. June 2013



Microsolar Manifold unit of Solar Dingin Solar Air Conditioner installed at North Port, Port Kelang, Selangor, Malaysia.



Entrance to North Port, Port Kelang, Selangor, Malaysia.



Solar Dingin Solar Air Conditioner 1.5 hp Indoor Unit completed installation inside Bomba offices at North Port, Port Kelang, Selangor, Malaysia.



Solar Dingin Solar Air Conditioner Outdoor Unit completed installation at North Port, Port Kelang, Selangor, Malaysia. June 2013



Safety Briefing by Bomba Officer before the installation at North Port, Port Kelang, Selangor, Malaysia.





Siang of Microsolar and Azrina of Solar Dingin with the Alam Dingin Solar Air Conditioner's Microsolar Manifold on the roof of the Bomba Tower at North Port, Port Kelang, Selangor, Malaysia.



Siang and Azrina with the Microsolar Manifold unit of Alam Dingin's Solar Air Conditioner on the roof of the Bomba Tower at North Port, Port Kelang, Selangor, Malaysia. June 2013



Microsolar Manifold unit of Solar Dingin's Solar Air Conditioner installed on Bomba Tower North Port with the Container wharves in background



Installation site at Bomba Tower, North Port, before installation of Solar Dingin Solar Air Condioner



20130709 upon testing after the Microsolar Manifold reached its operating temperatures, the Solar Dingen Microsolar hybrid air conditioner achieved 50% savings on electricity consumption, here the ammeter shows 2.8 amps consumption.

The normal consumption for this nominal 1.5 hp air conditioner is rated at 5.6 amps. without solar heating assist, which translates to $5.6 \text{ amps} \times 220 \text{ volts} = 1232 \text{ watts}$ (1.665 hp).

So here, with solar heating assist from the Microsolar Manifold 10 tubes, running consumption is $2.8 \text{ amps} \times 220 \text{ volts} = 616 \text{ watts}$ or 0.832hp which equals 50% electricity savings.. And the room temperature achieved was 20C with 30C outside. Slight rain in the morning, sunny afternoon. Good job guys