Power Saving from the roof= Heat reflection & thermal insulation painting around the outdoor unit

Problem 1） Air conditioning load increases, leading to an increase in air conditioning cost because Air Conditioner Outdoor unit gets hot due to temperature rise in summer and it cools with temperature decrease in winter

Energy-Saving Cover Coat
Application record

Solution 1） Applying 'Energy-Saving Cove Coat'⇒15% Energy-Saving by Thermal Insulation in

After application
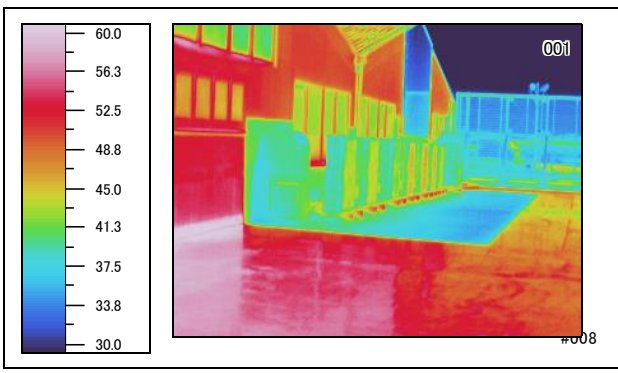
※* Reduction of electric power by thermal barrier coating to a roof outdoor unit of a game arcade

|	Before	After				0.375 kwh/co2
	Power consumption kwh		Reduced power	**Reduction amount**	Reduction rate	**CO2 reduction amount**
	2013	2014	kwh	21.8JPY /kwh		Kg-CO2/month
Jan	50,466	43,596	6,870	**149,766**	13.6%	2,576.3
Feb	47,844	41,238	6,606	**144,011**	13.8%	2,477.3
March	43,608	37,098	6,510	**141,918**	14.9%	2,441.3
April	43,800	37,865	5,935	**129,383**	13.6%	2,225.6
May	42,576	36,592	5,984	**130,451**	14.1%	2,244.0
June	42,510	34,228	8,282	**180,548**	19.5%	3,105.8
July	44,298	37,590	6,708	**146,234**	15.1%	2,515.5
Aug	49,350	41,238	8,112	**176,842**	16.4%	3,042.0
Sep	48,468	40,168	8,300	**180,940**	17.1%	3,112.5
Oct	40,344	33,491	6,853	**149,395**	17.0%	2,569.9
Nov	38,736	30,227	8,509	**185,496**	22.0%	3,190.9
Dec	41,046	32,547	8,499	**185,278**	20.7%	3,187.1
Total	533,046	445,878	87,168	**1,900,262**	16.4%	**32,688**
Amount	11,620,403	9,720,140				
Average	968,367	810,012	7,264	**158,355**		**2,724**

Patent Publication 2015－117924
Energy saving painting of outdoor unit and surrounding area
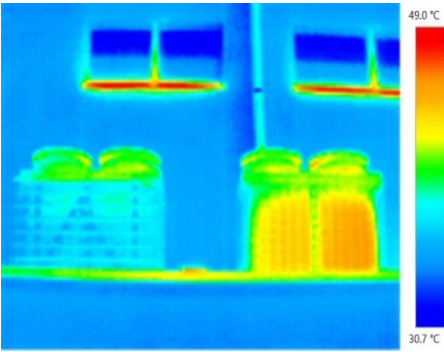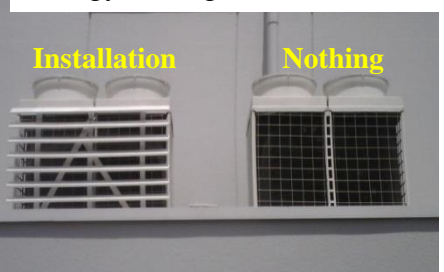
Patented No-1 No,6038245
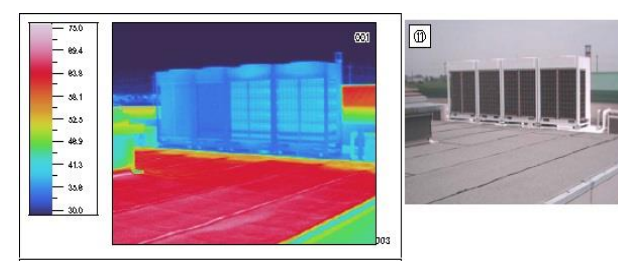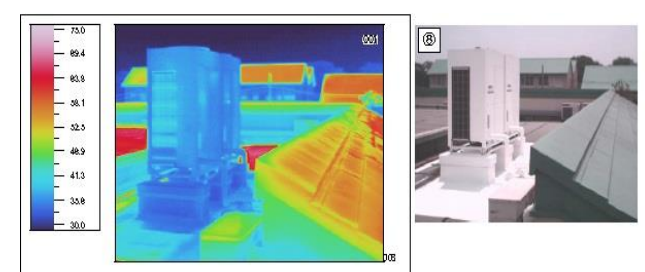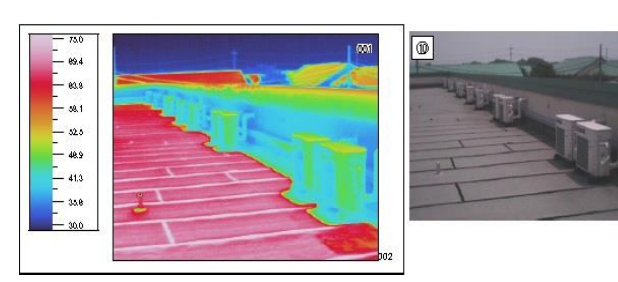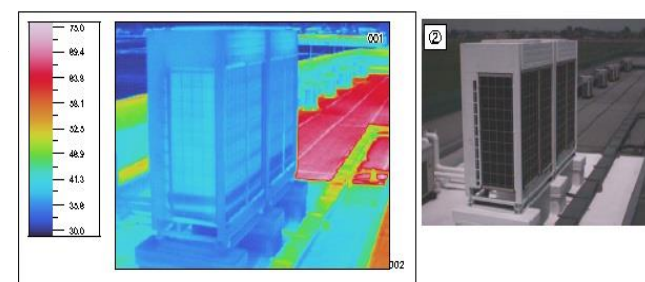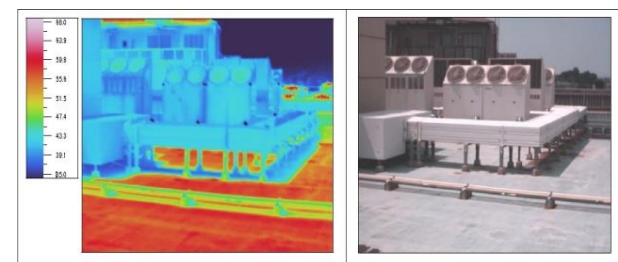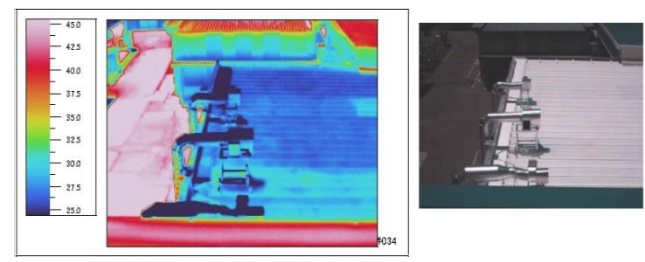Energy saving cover for outdoor unit
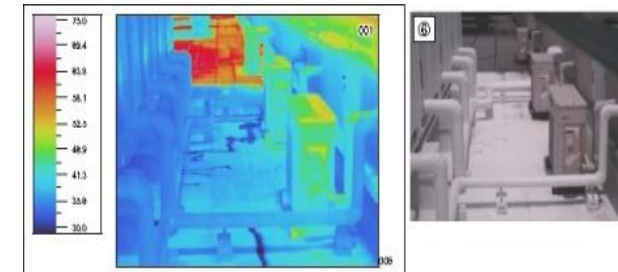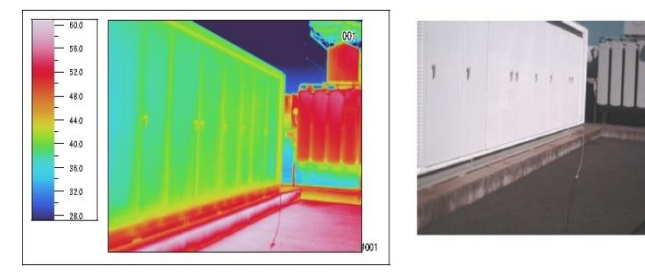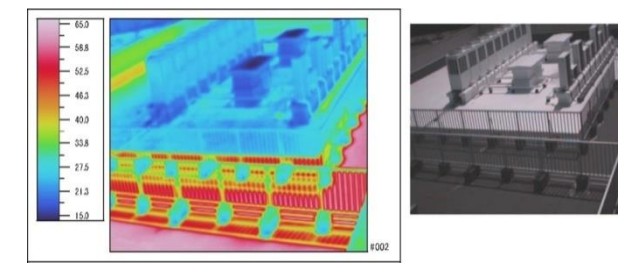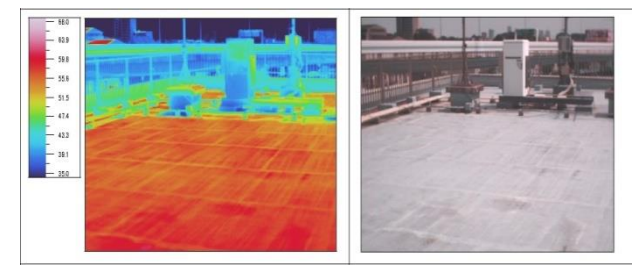
Solution2） Installing 'Energy-Saving Cover Device'⇒Because energy saving cover coat & anti-fungal clean coat is applied to Cover device, energy saving is averaged 10% by thermal insulation effect in the summer and the winter, furthermore It will send clean air into the room by anti-fouling coat. = Super Glass Barrier

Energy-Saving Cover device

Installation   Nothing

2015	time	Energy-Saving Cover		Temperature difference	Outside temperature ℃	Nothing ℃	Install ℃
		Nothing ℃	Install ℃				
Sep,28th	13:20	40.0	33.7	−6.3	29.6	10.4	4.1
Sep,29th	9:00	48.5	32.3	−16.2	26.8	21.7	5.5
Sep,30th	10:30	47.3	32.3	−15.0	25.2	22.1	7.1
Oct 1st	8:20	37.8	26.0	−11.8	23.2	14.6	2.8
Oct 2nd	11:40	50.8	34.3	−16.5	27.5	23.3	6.8
Oct3rd	11:00	49.3	33.0	−16.3	27.2	22.1	5.8
Oct 4th	10:30	47.7	33.0	−14.7	27.5	20.2	5.5
Oct 5th	10:40	32.8	23.8	−9.0	20.0	12.8	3.8
Oct 5th	9:30	44.5	28.2	−16.3	22.5	22.0	5.7
Oct 6th	10:00	44.2	28.5	−15.7	22.0	22.2	6.5
Oct 7th	9:00	46.2	28.8	−17.3	24.3	21.9	4.5
Oct 8th	10:20	49.2	33.5	−16.2	26.3	22.9	7.2
Oct 9th	9:10	32.7	24.0	−8.7	20.4	12.3	3.6
Oct 10th	12:20	25.8	20.0	−5.8	19.2	6.6	0.8
Oct 11th	10:40	46.2	29.0	−17.2	23.9	22.3	5.1
Total		643.0	440.4	−203.0	365.6	277.4	74.8
Average		42.87	29.36	−13.53	24.4	18.5	5.0

※Temperature difference from the outside temperature

Energy-Saving Cover Coat
About15% energy saving

AntiStatic·UltraHydrophilic

Antifungal Clean Coat always makes clean

By applying Energy-Saving Cover Coat on outdoor unit surroundings and outdoor unit cover, it shows stable energy saving effect throughout the year without being affected by outside air temperature, and Demonstrated energy-saving of 15% or more by comparison of temperature data and electricity bill over 2 years.

Antifouling measures against Energy-Saving Cover Coat around outdoor unit

①Dirt like carbon, sand dust etc. is hard to stick = Antistatic function
②It is hard to get moldy in shadow area for long period by Nano Silver of coating agency
③ Even if there is no light,Super-hydrophilic self-cleaning effect is demonstrated by rain and dirt is washed away.
④ Performance keeps long time by only 1 time application without any maintenance work.