



Home Center





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Ceremonial facility

Glazed facility

Car Dealer show room





SPA,Hot Sprig facility







IRUV Cut Coat 80





Energy saving coating of air conditioning outdoor unit

Energy saving painting of outdoor unit & surrounding area **Energy saving cover coat** J Japanese Patent Publ

Energy-Saving Cover Coat (thermal insulation



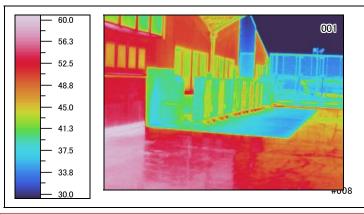
Energy-Saving Green Coat System⁽¹⁾

'Energy-Saving Cover Coat' & 'Energy-Saving Cover Device'

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

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





	Before	After	0.375 kwh.∕co2						
	Power consumption kwh		Reduced power	Reduction amount	Reduction	CO2 reduction amoun			
	2013	2014	kwh	21.8JPY /kwh	rate	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	1						
Amount	11,620,403	9,720,140	87,168	1,900,262	16.4%	32,688			
Average	968,367	810,012	7.264	158,355		2,724			

Energy-Saving Green Coat System⁽²⁾

Problem 2 Room temperature change due to heat entering and leaving through the window glass is becoming the biggest factor to increase air conditioning load because

Solution3) Applying IRUV Cut Coat 80 ⇒20%~30% Energy-Saving by Thermal Insulation in Summer & Winter

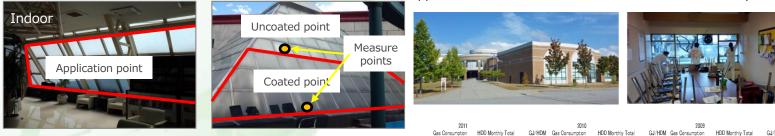
What is 'IRUV Cut Coat 80'? Thermal insulation glass coating solution for window glass by roller application. Functionality up to IR Cut80%~85%, UV Cut 99%, It is 15 years durability, Twice the durability of the film Coated Uncoated Coated Uncoated **VLT 91% VLT 75% 50℃ 78℃ IR Cut 17% IR Cut 83%** UV Cut13% **UV Cut99%** Temperature measurement In Summer In winter | Energy saving for elementary school in Canada Record in Japan In the summer, the inside of this room is too hot, nobody wants It applied at elementary school in Vancouver, As a result of to enter. Even if the air conditioner is set to 19 ° C it will be hot comparing air conditioning costs between 2009 and 2011, we

air. After application, We measure temperature for 20days. A have demonstrated the effect of reducing the air conditioning temperature difference of 17 degrees at maximum was confirmed. cost by 16% on average. As the air conditioning cost reduction After application, there was a report that it felt cool even at air of 5,472 Canadian dollars is annualized, it is calculated that conditioner setting 24 degrees. application costs can be amortized and collected within 2years

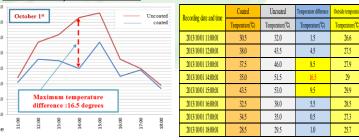
Solution2) Installing 'Energy-Saving Cover Device'⇒Because Energy saving cover coat & anti-mold clean coat is applied to Cover device, energy saving is averaged 10% by Heat reflection & thermal insulation effect in the summer and the winter, furthermore It will send clean air into the room by anti-fouling coat = It is called Super **Glass Barrier**

Energy-Saving Co	over device
Installation	Nothing
	49.0 °C
	-47.5
	- 42.5
	-40.0
1 1 20 1 1 2 4 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 37.5
	- 35.0
	30.7 ℃

					XTempe	rature differ	ence from	
		Energy-Sa	ving Cover	the outside temperature				
2015	time	Nothing °C	Install °C	Temperature difference	Outside temperature °C	Nothing °C	Install °C	
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	
Tota	al	643.0	440.4	-203.0	365.6	277.4	74.8	
Avera	age	42.87	29.36	-13.53	24.4	18.5	5.0	



[Temperature measurement period] From Oct 1st,2013~Until Oct 22th,2013 October 1st, Weather fine



Depreciation simulation in the case of 100 m^2 application

Air-conditioning operating time 8 hours a day from 9: 00 to 17: 00 /5 hours of peak hour 11:00 to 16:00

Application	cost	100m ²	JPY/kwh	Annual electricity charge	20% reduction	% reduction Recovery		Recovery	1
IRUV Cut Coat 80	8,800 JPY/mੈ	880,000 JPY	13 JPY	683,280 JPY	136,656 JPY	y 6.4 ^e a r	204,984 JP	4.3	/ 2 A

'IRUV Cut Coat 80'







		2011				2010				2009			
		Gas Consum	ption	HDD Month	ily Total	GJ/HDM	Gas Consumption	HDD Monthly Total	GJ/HDM	Gas Consumption	HDD Monthly Total	GJ/HDM	
	Jan.		459 GJ		427.5 HDM	1.074	358 GJ	334.2 HC	DM 1.071	549 GJ	491.5 HDM	1.117	
	Feb.		406 GJ		407.6 HDM	0.996	370 GJ	304.3 HD	DM 1.216	414 GJ	391.3 HDM	1.058	
	Mar.		292 GJ		345.1 HDM	0.846	399 GJ	317.8 HD	DM 1.256	436 GJ	406 HDM	1.074	
	Apr.		288 GJ		320.2 HDM	0.899	253 GJ	253.2 HC	DM 0.999	233 GJ	266.4 HDM	0.875	
	May		201 GJ		211 HDM	0.953	150 GJ	185.3 HD	DM 0.809	121 GJ	166.4 HDM	0.727	
٦	June		76 GJ		82.4 HDM	0.922	86 GJ	91.6 HC	DM 0.939	44 GJ	28.4 HDM	1.549	
	July		29		HDM		51	HC	DM	179	HDM		
i.	Aug.		30		HDM		21	HC		167	HDM		
	Sep.		51 GJ		56.8 HDM	0.898	54	81.4 HD	DM 0.663	64 GJ	73.5 HDM	0.871	
	Oct.		205 GJ		251.1 HDM	0.816	211	206.5 HC	DM 1.022	141 GJ	246.6 HDM	0.572	
	Nov.		382 GJ		385.6 HDM	0.991	441	386.8 HD	DM 1.140	602 GJ	326.1 HDM	1.846	
	Dec.		434 GJ		440 HDM	0.986	457	405.4 HE	DM 1.127	541 GJ	491.6 HDM	1.100	
	Total(4mo)		1072 GJ	1	1133.50 HDM	0.946	1163 GJ	1080.10 HE	DM 1.077	1348 GJ	1137.80 HDM	1.185	
	4) Magee Secondary												
	A) Magee Se Date Job con		August 2	2011					4 mo(SepDec.) comparison				
	Method: IRUV cut Cost of Materials: Costed Area: 15% of da		t Liquid Film					Savings 2011	vs.2010		12%		
					\$10,800			Savines 2011		20%			
			15% of g	lazing area					Odvilles 2011	V5.2000			
		Consumption:				\$38,000 /					Ave.	16%	
	Heating Gas Consumption:					90% of Total Gas Consumpti							
	Energy Savings: Savings ber year:					\$5,472.00 /	Saving Target was 5% on hea	iong, 10% on cooling)					
	Payback (years):					1,97 v							
	F by some of a						00.5						