

HB156 (R22) / HB366 (R410A) New Refrigerant Application Cost and Pay Back Period

1. Reduction in Electricity Consumption and Investment

1. Reduction in Electricity Consumption and Investment															Refrigerant		Cost		
		Outdoor Unit Type		Qty	Compressor	Power Consumption	Power Consumption SUM	Operation Hours	Operation Days	Operation Ratio	Yearly Power Consumption	Electricity Charges	Assumed Reduction Ratio	Estimated Reduction Amount	kg/unit	Total Qty	Refrigerant Price	Installation Fee	Amount
1	0.8HP/2.02kW (Sample)	DAIKIN	RNE20MV1V9	1		0.67	0.67	15	365	60%	2,201	5	10%		0.50	0.50			0
2	1HP/2.65kW (Sample)	DAIKIN	RNE25MV1V9	1		0.83	0.83	15	365	60%	2,710	3	10%		0.73	0.73			0
3	1.5HP/3.35kW (Sample)	DAIKIN	RNE35MV1V9	1		1.06	0.00	15	365	60%	3,492	8	10%		0.91	0.91			0
4	2HP/5.02kW (Sample)	DAIKIN	RNE50MV1V	1		1.69	1.69	15	365	60%	5,552	5	10%		0.90	0.90			0
5	2.5HP/6.3kW (Sample)	DAIKIN	RNE60MV1V	1		2.03	2.03	15	365	60%	6,669	5	10%		0.90	0.90			0
6	3HP/2.6kW (Sample)	TOSHIBA	ROA-AP804H	1		2.60	2.60	15	365	60%	8,541	0	10%		1.70	1.70			0
7	4HP/4.26 (Sample)	TOSHIBA	ROA-AP1124H	1		4.26	4.26	15	365	60%	13,994	0	10%		2.10	2.10			0
8	5HP/5.46 (Sample)	TOSHIBA	ROA-AP1404H	1		5.46	5.46	15	365	60%	17,936	0	10%		2.80	2.80			0
9	6HP/6.5 (Sample)	TOSHIBA	ROA-AP1604H	1		6.50	6.50	15	365	60%	21,353	0	10%		2.80	2.80			0
10	8HP/7.06 (Sample)	TOSHIBA	ROA-AP2244H	1		7.06	7.06	15	365	60%	23,192	0	10%		5.80	5.80			0
11	10HP/9.84 (Sample)	TOSHIBA	ROA-AP2804H	1		9.84	9.84	15	365	60%	32,324	0	10%		5.90	5.90			0
12	0	0	0	0		0.00	0.00	0	0	0%	0	0	10%	0	0.00	0.00	0	0	0
13	0	0	0	0		0.00	0.00	0	0	0%	0	0	10%	0	0.00	0.00	0	0	0
14														0	0.00	0.00	0	0	0
15																	0	0	0
16																	0	0	0
17																	0	0	0
18																	0	0	0
19																	0	0	0
20																	0	0	0
計				11		41.998	40.935				137,963	75	10%			25.0			0

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2. Reduction in Basic Charges (Annual)

Total Power Consumption	Reduction Ratio	Reduction kW	Basic Fee	Annual reduction
40.935	10%	4.094	0	0

3. Metered Charge Reduction (Annual)

Total Power Consumption	Reduction Ratio	Reduction kW	Basic Fee	Annual reduction
137,963	10%	13,796		

4. Total Reduction (Annual)

Reduction in Basic Charges (Annual)	Metered Charge Reduction (Annual)	Total Reduction (Annual)
0		

5. Investment Payback Period

Py Back Period	2.9 年
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6. CO2 Reduction (annual)

Annual reduction kW	kg/kw	kg	→	1.93t
13,796	0.441	6,084		

※0.441 kg-CO2/kWh (東京電力2020年分発表値)

https://www.tepco.co.jp/ep/notice/news/2020/1549626_8908.html

7. Post-Installation balance

	Basic Charge	Metered Charge	Total reduction	Balance of payback
1st year	0			
2nd year	0			
3rd year	0			
4th year	0			
5th year	0			
6th year	0			
7th year	0			