

## REST API 설계

### -시/자치구 별 대기질 정보 API

JSON 객체로 받습니다.

#### \*Request

GET /v1/api/air-condition/{si}/{gu} HTTP1.1

HOST: aircondition.com

{si}는 seoul과 busan 두개 값

key

Name	Type	Description	Required
si	String	시	O
gu	String	자치구	X

#### \*Response

key

Name	Type	Description	Required
pm10_average	Double	평균 미세먼지	O
pm10_average_grade	String	평균 미세먼지 등급	O
gu_list	Item[]	자치구 대기질 정보	O

gu\_list

Name	Type	Description	Required
gu_name	String	구 이름	O
pm10	Double	미세먼지( $\mu\text{g}/\text{m}^3$ )	O
pm25	Double	초미세먼지( $\mu\text{g}/\text{m}^3$ )	O
o3	Double	오존(ppm)	O
no2	Double	이산화질소농도(ppm)	O
co	Double	일산화탄소농도(ppm)	O
so2	Double	아황산가스농도(ppm)	O
pm10_grade	String	미세먼지( $\mu\text{g}/\text{m}^3$ )등급	O
pm25_grade	String	초미세먼지( $\mu\text{g}/\text{m}^3$ ) 등급	O
o3_grade	String	오존(ppm) 등급	O

no2_grade	String	이산화질소농도(ppm) 등급	O
co_grade	String	일산화탄소농도(ppm) 등급	O
so2_grade	String	이황산가스농도(ppm) 등급	O

## Example

1.{gu}정보가 없을 때

ex) /v1/api/air-condition/busan

```
{
  "pm10_average": 16.939393939393938,
  "pm10_average_grade": "좋음",
  "list_total_count": 33,
  "gu_list": [
    {
      "gu_name": "태종대",
      "pm10": 18.0,
      "pm25": 2.0,
      "o3": 0.042,
      "no2": 0.002,
      "co": 0.2,
      "so2": 0.002,
      "pm10_grade": "좋음",
      "pm25_grade": "좋음",
      "o3_grade": "보통",
      "no2_grade": "좋음",
      "co_grade": "좋음",
      "so2_grade": "좋음"
    },
    {
      "gu_name": "청학동",
      "pm10": 21.0,
      "pm25": 4.0,
      "o3": 0.035,
      "no2": 0.008,
      "co": 0.2,
      "so2": 0.002,
      "pm10_grade": "좋음",
      "pm25_grade": "좋음",
      "o3_grade": "보통",
      "no2_grade": "좋음",
      "co_grade": "좋음",
      "so2_grade": "좋음"
    }
  ],
  {
```

```

        "gu_name": "전포동",
        "pm10": 14.0,
        "pm25": 5.0,
        "o3": 0.037,
        "no2": 0.004,
        "co": 0.2,
        "so2": 0.003,
        "pm10_grade": "좋음",
        "pm25_grade": "좋음",
        "o3_grade": "보통",
        "no2_grade": "좋음",
        "co_grade": "좋음",
        "so2_grade": "좋음"
    },
    ...,
]
}

```

ex) /v1/api/air-condition/seoul

```

{
    "pm10_average": 12.36,
    "pm10_average_grade": "좋음",
    "list_total_count": 25,
    "gu_list": [
        {
            "gu_name": "충구",
            "pm10": 13.0,
            "pm25": 7.0,
            "o3": 0.016,
            "no2": 0.021,
            "co": 0.4,
            "so2": 0.003,
            "pm10_grade": "좋음",
            "pm25_grade": "좋음",
            "o3_grade": "좋음",
            "no2_grade": "좋음",
            "co_grade": "좋음",
            "so2_grade": "좋음"
        },
        {
            "gu_name": "종로구",
            "pm10": 12.0,
            "pm25": 8.0,
            "o3": 0.019,
            "no2": 0.019,
            "co": 0.4,
            "so2": 0.003,
            "pm10_grade": "좋음",
            "pm25_grade": "좋음",

```

```

        "o3_grade": "좋음",
        "no2_grade": "좋음",
        "co_grade": "좋음",
        "so2_grade": "좋음"
    },
    ...
},
]
}

```

2.{gu}정보가 있을 때

ex) /v1/api/air-condition/busan/개금동

```

{
    "pm10_average": 16.939393939393938,
    "pm10_average_grade": "좋음",
    "list_total_count": 1,
    "gu_list": [
        {
            "gu_name": "개금동",
            "pm10": 15.0,
            "pm25": 4.0,
            "o3": 0.036,
            "no2": 0.007,
            "co": 0.3,
            "so2": 0.002,
            "pm10_grade": "좋음",
            "pm25_grade": "좋음",
            "o3_grade": "보통",
            "no2_grade": "좋음",
            "co_grade": "좋음",
            "so2_grade": "좋음"
        }
    ]
}

```

ex) /v1/api/air-condition/seoul/강동구

```

{
    "pm10_average": 12.36,
    "pm10_average_grade": "좋음",
    "list_total_count": 1,
    "gu_list": [
        {
            "gu_name": "강동구",
            "pm10": 13.0,
            "pm25": 7.0,
            "o3": 0.016,

```

```
    "no2": 0.017,  
    "co": 0.3,  
    "so2": 0.002,  
    "pm10_grade": " 좋음",  
    "pm25_grade": " 좋음",  
    "o3_grade": " 좋음",  
    "no2_grade": " 좋음",  
    "co_grade": " 좋음",  
    "so2_grade": " 좋음"  
  }  
]  
}
```