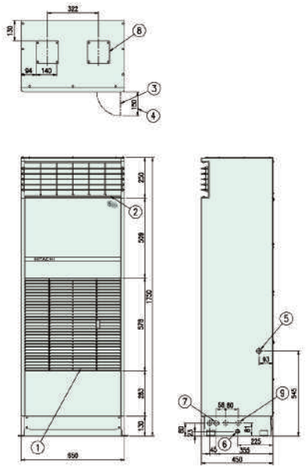
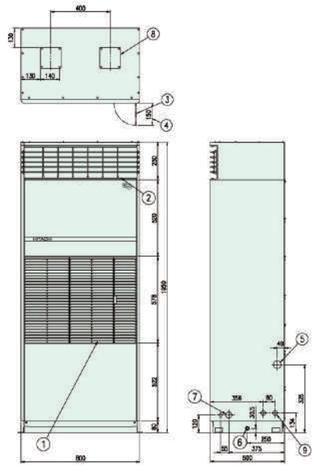
RD-NP21P / RD-NP31P



Mark	Name
1	Air Inlet
2	Air Outlet
3	Control Panel Cover
4	Length for opening control panel cover
5	Condensate drain outlet (FPT 1")
6	Emergency drain outlet (FPT 1/2")
5	Wiring connection hole
6	Cover
6	External hose inlet

RD-NP51P



Item (unit) \ Type				AIR-COOLED			
				RD-NP21P	RD-NP31P	RD-NP51P	
※ Dehumidifying capacity			L/d	170	216	384	
Operating range				5 °C – 40 °C			
Exterior	External dimensions	Width	mm	650		800	
		Depth	mm	450		500	
		Height	mm	1750		1950	
		Separable height	mm	–		1730 + 250	
	Color			2.5Y 8/2 (MUNSELL CODE)			
Electrical characteristics	Power input		kW	2.31	3.16	5.54	
	Operating current		A	10.6	14.5	15.8	9.1
	Power factor		%	99	99	92	
	Power consumption		A	66.4	82	121	62
Power source				AC 1Φ 220V 60Hz		AC 3Φ 220V 60Hz	AC 3Φ 380V 60Hz
Cooling device	Compressor	Type		High-efficiency hermetic type			
		Motor output (maximum)	kW	1.8 (2)	2.2 (2)	3.7 (2)	
	Condenser			Multi-channel cyclone fin tube			
	Evaporator			Multi-channel cyclone fin tube			
	Refrigerant control device			Multi-channel capillary			
Air blowing device	Air blower	Type		Multi-vane blower with suction on both sides x 1			
		Motor output (maximum)	kW	0.12 (6)	0.13 (6)	0.25 (6)	
		Power source		AC 1Φ 220V 60Hz			
	Air volume		m^3/min	25	28	42	
	External static pressure		mmAq	0			
Operation tuning device	Operation switch			Rotation switch (stop, blow air, dehumidify)			
	Humidity regulator			Humidity regulator			
	Indicator			Red (normal operation) White (malfunction)			
Protective device				High-pressure safety switch, anti-freeze switch, temperature switch for preventing operation at high temperature , circuit protection fuse			
				Overload relay (for compressor use)	Overload relay (for compressor use), Temperature switch for preventing overheated discharge air	Overload relay (for compressor use), Reverse-phase relay, Temperature switch for preventing overheated discharge air	
Hose dimensions	Condensate			FPT1			
	Emergency drainage			FPT 1/2			
Weight			kg	115	118	180	

Note: 1. ※ All dehumidifying capacities stated herein are obtained when intake air dry-bulb temperature is 30°C and relative humidity is 80%
2. All electrical characteristics stated herein are obtained when intake air dry-bulb temperature is 30°C and relative humidity is 80%; please multiply the values by 1.2 times for actual electrical configuration.

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Johnson Controls

HITACHI
Air conditioning solutions

INDDHMF-2001

HITACHI

DEHUMIDIFIER

DEHUMIDIFIER

ELEGANT DESIGN

- Horizontal lines on intake grille and exhaust grille visually widen surrounding space.
- Rounded corners on the front face create a more elegant look.
- Light yellow casing looks elegant and coordinates well with any interior decor color.

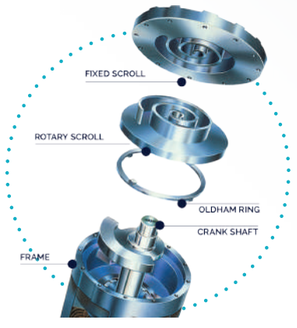
WIDE RANGE OF OPERATING TEMPERATURES

When the temperature is below 15 °C , most dehumidifiers' evaporator will freeze up and stop working. Hitachi dehumidifiers operate effectively from 5 °C to 40 °C, ensuring powerful dehumidication all year round.

POWERFUL DEHUMIDIFICATION

High-performance heat transfer tube used in R410A provides powerful dehumidification, extracting 170~384 liters of moisture every day. The condenser used for reheating air is also more energy-efficient than an electric heater.

HIGH EFFICIENCY SCROLL COMPRESSOR



- Highly efficient and power-saving
- Minimal vibration and low noise
- Low wear rate and low failure rate
- Small size and lightweight

COMPLETE PROTECTIVE DEVICE

To ensure safety during operation, each Hitachi commercial dehumidifier is equipped with a complete protective device.

EASY INSTALLATION

Simply install the drain hose and connect to a power source for easy operation. Auxiliary equipment, such as cooling tower and water pump, is not required.

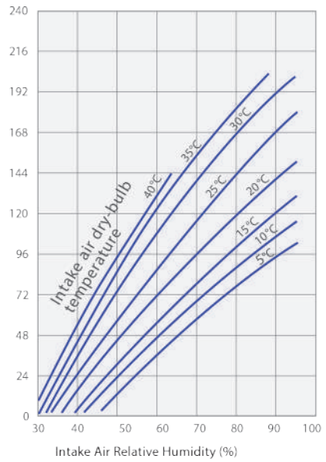
STATE-OF-THE-ART AIR FILTER

The unit has a unique air filter that traps microscopic dust to keep indoor air fresh and clean. It is also easy to remove, reinstall and clean.

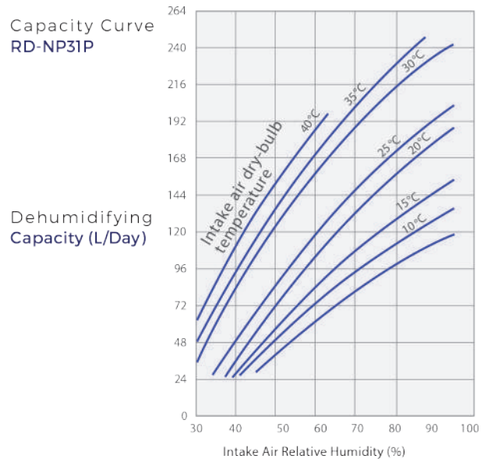
Method	Fire	Weather	Sanitation	Operating Cost	Purchase Cost	Public Hazard	Quality	Space	Place of Installation	Maintenance	Drying Time
Hot-Air Drying	×	◎	○	○	○	×	×	◎	○	×	○
Natural Drying	◎	×	×	◎	◎	×	×	×	×	—	×
Cooling-Based Dehumidification/Drying	◎	◎	◎	○	×	◎	◎	◎	◎	○	○

Note: ◎ Good ○ Fair × Poor

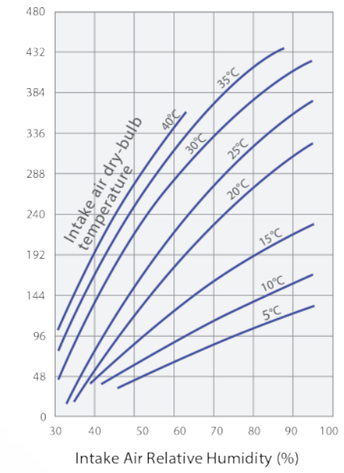
Capacity Curve
RD-NP21P



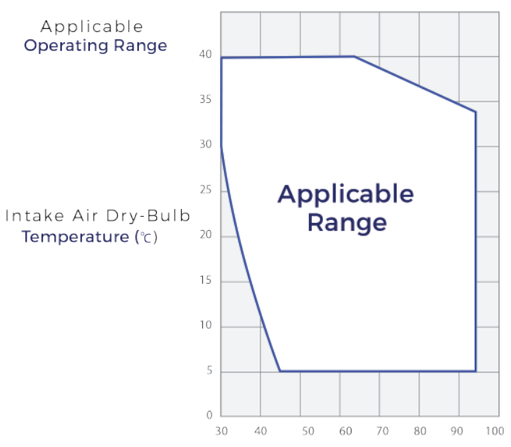
Capacity Curve
RD-NP31P



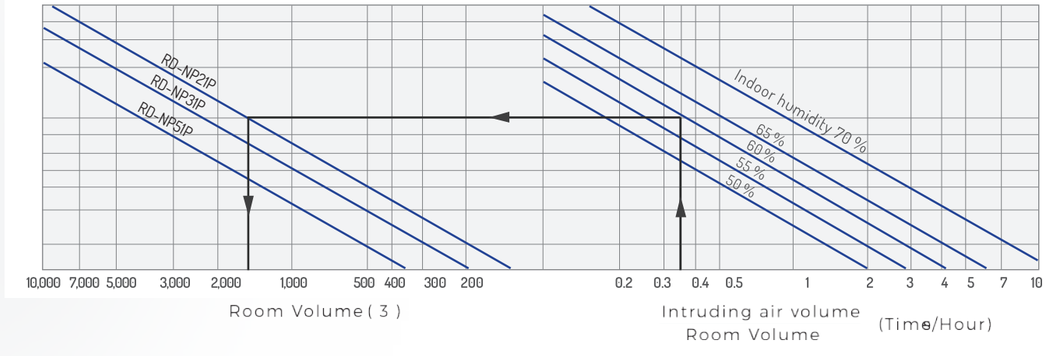
Capacity Curve
RD-NP51P



Applicable
Operating Range



Easy Guide for Model Selection (Relationship Between Intruding Air and Room Volume)



E.g. When air change rate is 0.35 times/hour indoor humidity is 60%. One unit of RD-NP21P is suitable for a room volume of 1,600m3

Condition
When outdoor air dry-bulb temperature is 30°C, relative humidity is 80% without indoor vapor.