

HITACHI



air



DEHUMIDIFIER



## DEHUMIDIFIER

### POWERFUL DEHUMIDIFICATION

High-performance heat transfer tube used in R410A provide more efficient dehumidification than an electric heater.

### 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 dehumidification all year round.

### 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.

### COMPLETE PROTECTIVE DEVICE

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

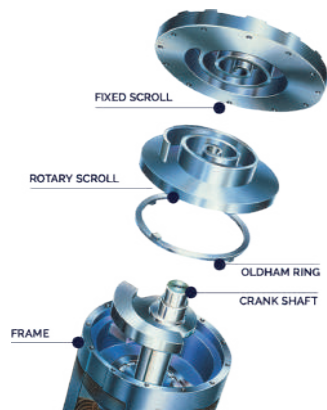
### EASY INSTALLATION

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.

### 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.

### HIGH EFFICIENCY SCROLL COMPRESSOR



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

### IDEAL FOR:



Pharmaceutical Storages



Server Rooms



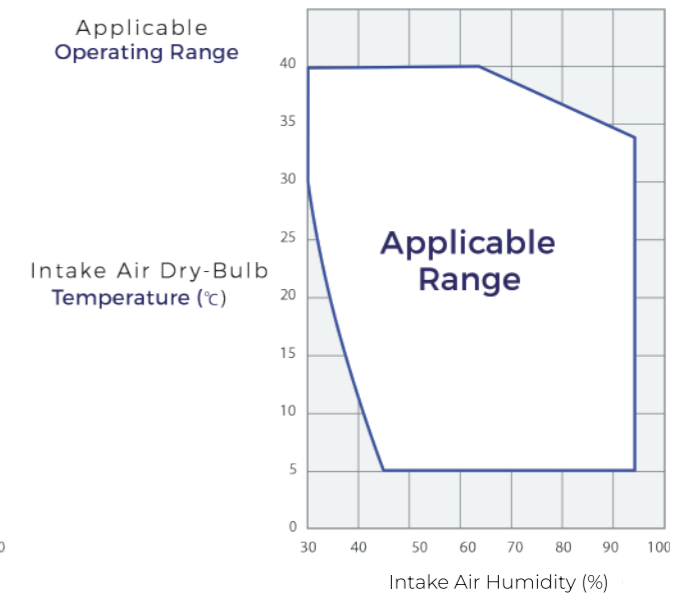
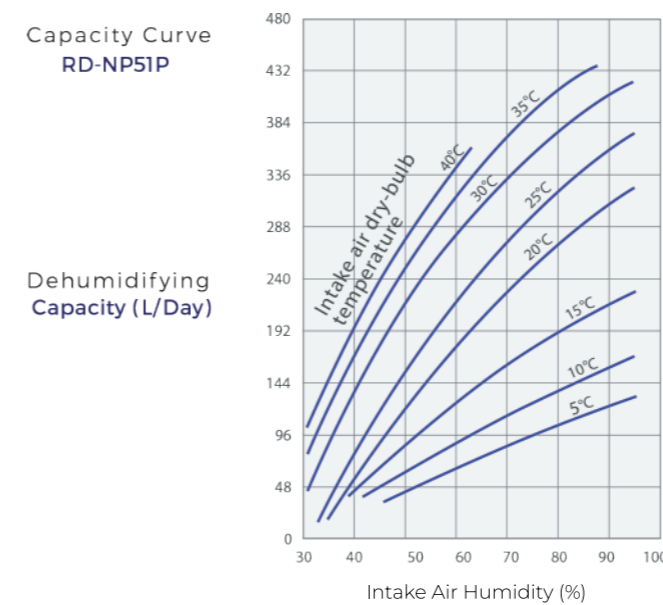
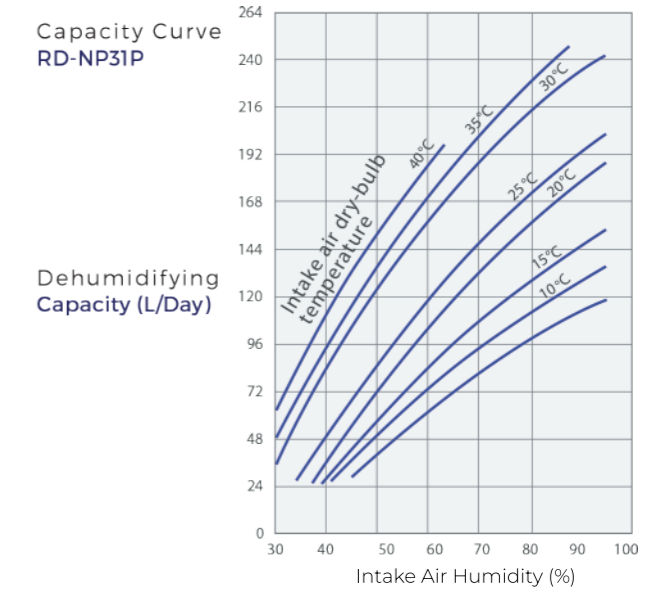
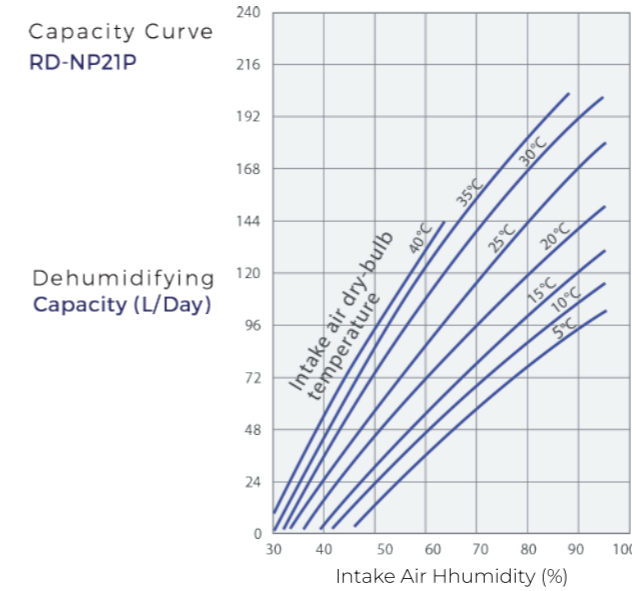
Printing Presses



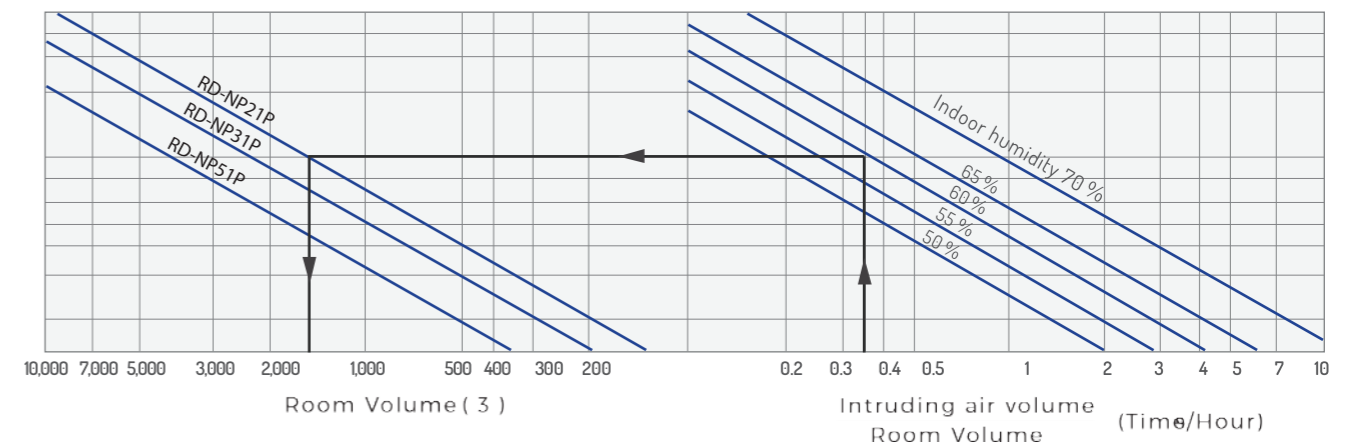
Factories

Method	Fire	Weather	Sanitation	Operation 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



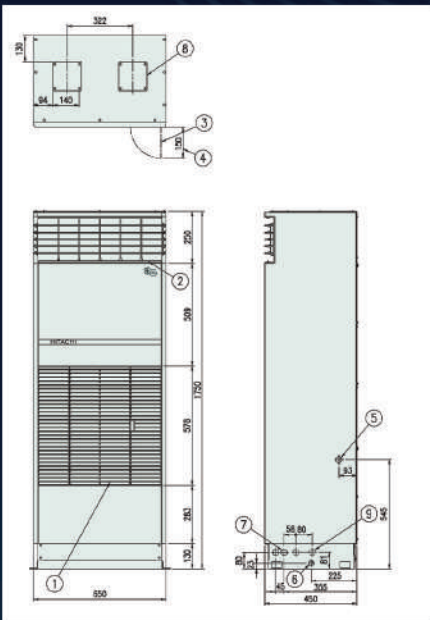
### Easy Guide for Model Selection (Relationship Between Intruding Air and Room Volume)



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 1,600m<sup>3</sup>

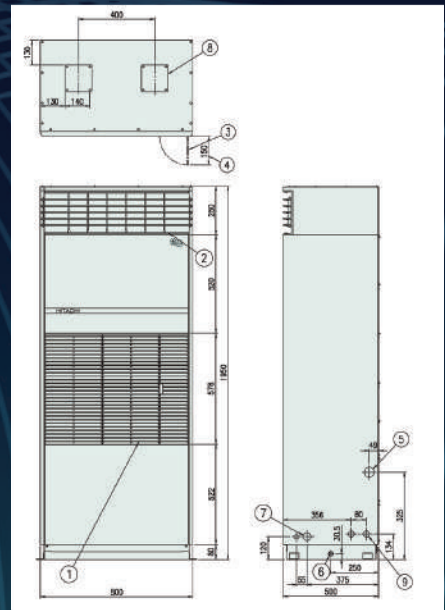
Condition  
When outdoor air dry-bulb temperature is 30°C, relative humidity is 80% without indoor vapor.

## 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")
7	Wiring connection hole
8	Cover
9	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	650		800
		Depth	450		500
		Height	1,750		1,950
		Separable height	—		1,730 + 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
	Power factor	%	99	99	92
	Power consumption	A	66.4	83	121
Power source			AC 1 220V 60Hz		AC 3 220V 60Hz
Cooling device	Compressor	Type	High-efficiency hermetic type		
		Motor output (maximum)	1.8 (2)	2.2 (2)	3.7 (2)
	Air blower		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)	0.12 (6)	0.13 (6)	0.25 (6)
	Power source		AC 1 220V 60Hz		
	Air Volume	m <sup>3</sup> /min	25	28	42
External static pressure		mm/Aq	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		
Hose dimensions		Condensate	FPT 1		
		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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