



FAN COIL UNIT

风机盘管机组

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HORIZONTAL SURFACE MOUNTED FAN COIL UNIT

卧式明装风机盘管



HORIZONTAL SURFACE MOUNTED FAN COIL UNIT
卧式明装风机盘管

PRODUCT OVERVIEW

产品概述

The horizontal exposed fan coil unit is one of the terminal devices of a central air conditioning system. It is composed of a small fan, a high-efficiency heat exchanger (coil), a condensate drain pan, a casing, and a control system. The product features a horizontal structure design with a low overall height, allowing it to be directly suspended below the indoor ceiling or above the wall without any special renovation to the wall or ceiling.

The unit uses chilled water or hot water as a medium. When the cold (or hot) water flows through the coil, it exchanges heat with the air passing over it, achieving cooling, dehumidification, or heating of the indoor air. The unit adopts a combination of a forward-curved multi-blade double-inlet centrifugal impeller and a ball bearing single-phase capacitor motor, ensuring smooth operation and low noise. The product is suitable for various commercial and civil buildings that require low noise levels and flexible temperature adjustment.

卧式明装风机盘管是中央空调系统的末端装置之一，由小型风机、高效换热器（盘管）、凝水盘、壳体及控制系统等组成。产品采用卧式结构设计，整机高度小，可直接吊装于室内天花板下方或墙体上部，无需对墙壁和天花板进行特别装修。

该产品以冷冻水或热水为介质，盘管内流过冷（热）媒水时与管外空气进行热交换，实现对室内空气的冷却、除湿或加热调节。机组采用前弯多翼离心式双吸叶轮与滚珠轴承单向电容式电机的组合方案，运转平稳、噪声低。产品适用于要求噪声小、温度调节灵活的各种商用及民用建筑场所。

PRODUCT FEATURES

产品特点

Compact Structure and Convenient Installation

The horizontal exposed fan coil unit adopts an ultra-thin design with a low overall height, occupying minimal space. The exposed installation requires no additional renovation and allows direct suspension below the ceiling or above the wall, facilitating piping connection and maintenance. The unit features a symmetrical and aesthetically pleasing structure that harmonizes with various interior decoration styles.

High Heat Exchange Efficiency

The heat exchanger is made of high-quality seamless purple copper tubes and high-efficiency aluminum fins through a mechanical expansion process. The copper tubes are arranged in a staggered pattern, and the fins are of a double-curved louver design, providing high heat transfer efficiency and low air resistance. Users can choose between two-row or three-row heat exchanger configurations based on load requirements.

Low Noise Operation

The unit adopts high-precision bearing motors and dynamic balance calibration technology. Sound-absorbing insulation material is applied inside the casing to effectively reduce operating noise. When running at low speed, the noise level can be as low as 31 dB(A), making it suitable for quiet environments such as bedrooms, hospital wards, and conference rooms.

Three-Speed Adjustment and Flexible Control

The fan is equipped with high, medium, and low three-speed adjustment functions, allowing users to regulate air volume and cooling/heating output as needed. Optional electric thermostatic valves and room temperature controllers enable automatic constant temperature control, improving comfort and saving energy.

Anti-Condensation Design

The condensate drain pan is integrally molded with no welded seams. The insulation layer is applied using an integral press-bonding process, closely combining with the drain pan to effectively eliminate the risk of condensate leakage and ensure long-term safe and reliable operation of the unit.

Long-Lasting Durability

The casing is made of high-quality galvanized steel sheet or spray-coated metal plate with excellent corrosion resistance. The motor bearings are high-precision imported steel ball bearings with self-lubrication, requiring no frequent maintenance. The unit is designed for a long service life, stable operation, and low maintenance costs.

结构紧凑，安装便捷

卧式明装风机盘管采用薄型设计，整机高度小、占用空间少。明装方式无需额外装修，可直接吊装于天花板下方或墙体上部，便于接管与维护。机组结构对称、外形美观，能与多种室内装修风格协调搭配。

高效换热性能

换热器采用优质无缝紫铜管与高效铝翅片经机械胀管工艺制成，铜管交错排列，翅片为双曲百叶窗式，具有传热效率高、空气阻力低的特点。用户可根据负荷需求选配二排管或三排管换热器。

低噪声运行

机组采用高精密轴承电机及动平衡校正工艺，箱体内部粘贴吸音保温材料，有效降低运行噪声。低挡位运行时噪声可低至 31dB(A)，适用于卧室、病房、会议室等安静场所。

三速调节，灵活控制

风机配备高、中、低三档调速功能，用户可按需调节风量及冷热量输出。可选配电动温控阀与室温控制器，实现自动恒温控制，提升舒适度并节约能源。

防凝露设计

接水盘整体模压成型，无焊缝拼接，保温层采用整体压粘工艺，与接水盘紧密结合，有效杜绝凝结水渗漏隐患，保证机组长期运行的安全可靠。

经久耐用

壳体采用优质镀锌钢板或喷塑钣金，防腐性能良好。电机轴承采用进口高精度钢球轴承，可自动润滑，无需频繁维护。整机设计寿命长，运行稳定，降低维护成本。

HORIZONTAL EXPOSED-TYPE FAN COIL UNIT PERFORMANCE PARAMETERS

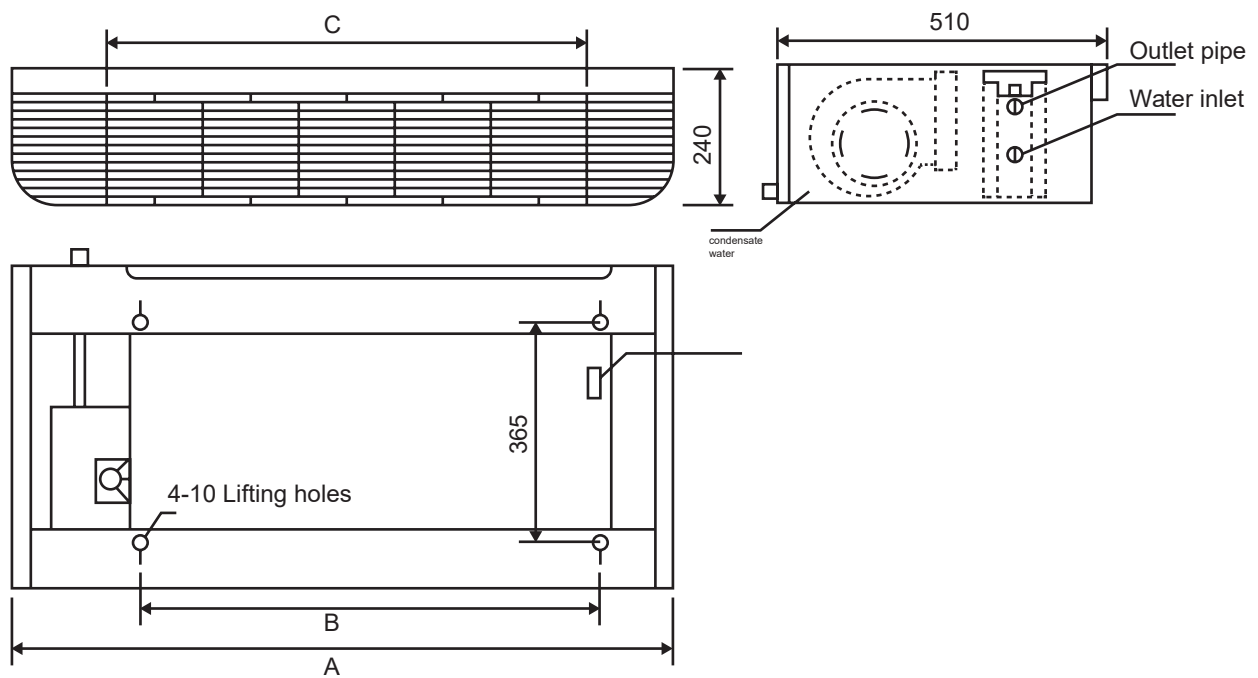
卧式明装风机盘管机组性能参数

Model 型号			RNFP-34WM	RNFP-51WM	RNFP-68WM	RNFP-85WM	RNFP-102WM	RNFP-136WM	RNFP-170WM	RNFP-204WM	RNFP-238WM
performance 性能											
Rated air volume(m³/h) 额定风量 (立方米 / 小时)	H 高		340	510	680	850	1020	1360	1700	2040	2380
	M 中		260	390	510	640	770	1020	1280	1530	1790
	L 低		170	260	340	430	510	680	850	1020	1190
Rated cooling capacity 额定制冷量	KW	H	1.8	2.7	3.6	4.5	5.4	7.2	9	10.8	12.6
	Kcal/h	H	1548	2322	3096	3870	4644	6192	7740	9288	10836
Rated heat 额定热值	KW	H	2.7	4.05	5.4	6.75	8.1	10.8	13.5	16.2	18.9
	Kcal/h	H	2322	3483	4644	5805	6966	9288	11610	13932	16254
Input power(W) 输入功率 (W)	12pa	H	36	50	60	74	93	130	147	183	221
	30pa	H	43	57	70	84	105	151	169	206	245
	50pa	H	48	64	0.81	97	114	169	204	243	291
Noise dB(A) 噪声 dB(A)	12pa	H	37	39	41	43	45	46	48	50	52
	30pa	H	40	42	44	46	47	48	50	52	54
	50pa	H	42	44	46	47	49	50	52	54	56
Water quantity(kg/h) 水流量			319	478	638	797	956	1275	1594	1913	2232
Hydraulic loss(kPa) 液体损失			≤ 30	≤ 30	≤ 30	≤ 30	≤ 40	≤ 40	≤ 40	≤ 40	≤ 50
Gross weight(kg) (毛重) 总重量			24	28	30	33	36	47	58	61	64
Inlet and outlet water pipes 进水管和出水管			"3/4'Internal thread 3/4 英寸内螺纹 "								
Condensate pipe(Except KM) 冷凝管 (不包括 KM)			"3/4' External thread 3/4 英寸外螺纹 "								
Power supply 电源			AC220/50HZ								
Note 备注			"1. Cooling operating parameters: Inlet air dry bulb temperature 27° C, wet bulb temperature 19.5° C, inlet water temperature 7° C, water temperature difference 5° C. 2. Heating operating parameters: Inlet air dry bulb temperature 21° C, inlet water temperature 60° C, hot water flow rate same as cooling operating conditions. 3. The unit has undergone a pressure test at 2.0MPa and is allowed to operate at a maximum working pressure of 1.6MPa. 4. There are also four-pipe (one plus two, two plus two, three plus one) units available. 1. 冷却运行参数: 进气干球温度 27° C, 湿球温度 19.5° C, 进水温度 7° C, 水温差 5° C。 2. 加热运行参数: 进气干球温度 21 摄氏度, 进水温度 60 摄氏度, 热水流量与冷却运行条件相同。 3. 该装置已通过了 2.0MPa 的压力测试, 并且允许在最大工作压力为 1.6MPa 的条件下运行。 4. 此外, 还有四管式 (一种加一种、两种加两种、三种加一种) 的装置可供选择。"								

HORIZONTAL EXPOSED SERIES

DIMENSION DRAWING

卧式明装系列尺寸图



Model 型号	RNFP- 34WM	RNFP- 51WM	RNFP- 68WM	RNFP- 85WM	RNFP- 102WM	RNFP- 136WM	RNFP- 170WM	RNFP- 204WM	RNFP- 238WM
performance 性能									
A	790	940	1020	1140	1250	1450	1730	1930	2130
B	490	610	680	810	930	1130	1390	1590	1790
C	470	620	700	820	930	1130	1410	1610	1810

VERTICAL SURFACE MOUNTED FAN COIL UNIT

立式明装风机盘管



VERTICAL SURFACE MOUNTED FAN COIL UNIT
立式明装风机盘管

PRODUCT OVERVIEW

产品概述

The vertical exposed fan coil unit is one of the terminal devices of a central air conditioning system. It is composed of a small fan, a high-efficiency heat exchanger (coil), a condensate drain pan, a casing, and a control system. The product features a vertical structure design and can be placed directly on the indoor floor or installed against the wall beneath a window sill, requiring no suspended ceiling renovation. The air discharge direction is either vertically upward or diagonally forward.

The unit uses chilled water or hot water as a medium. When the cold (or hot) water flows through the coil, it exchanges heat with the air passing over it, achieving cooling, dehumidification, or heating of the indoor air. The unit is equipped with a three-speed fan adjustment function, allowing users to flexibly adjust the air volume and cooling/heating output as needed. The product is suitable for various low-noise public places such as hotels, hospitals, office buildings, and shopping malls.

立式明装风机盘管是中央空调系统的末端装置之一，由小型风机、高效换热器（盘管）、凝水盘、壳体及控制系统等组成。产品采用立式结构设计，可直接放置于室内地面或靠墙安装在窗台下，无需吊顶装修，出风方向为垂直向上或斜向前方。

该产品以冷冻水或热水为介质，盘管内流过冷（热）媒水时与管外空气进行热交换，实现对室内空气的冷却、除湿或加热调节。机组配备三速风机调节功能，用户可根据需求灵活调整风量与冷热量输出，适用于宾馆、医院、办公楼、商场等低噪声公共场所。

PRODUCT FEATURES

产品特点

COMPACT STRUCTURE, CONVENIENT PLACEMENT

The vertical exposed fan coil unit features a compact structure and can be placed directly on the floor or installed against the wall beneath a window sill without special renovation. Multiple colors are available, and the air outlet is equipped with an adjustable grille to change the air direction, harmonizing with interior decoration.

HIGH HEAT EXCHANGE EFFICIENCY

The heat exchanger coil is made of high-quality seamless copper tubes and aluminum sine wave corrugated fins. Through hydraulic or mechanical expansion, the fins and copper tubes are tightly bonded for optimal heat transfer. The integrally forged brass water inlet and outlet headers ensure uniform water distribution and low flow resistance, fully utilizing the heat exchanger efficiency.

LOW NOISE OPERATION

The unit adopts an ultra-wide volute casing and a multi-blade centrifugal impeller. The impeller and motor are properly matched, and the fan undergoes strict dynamic balance testing to effectively reduce noise. The single-phase capacitor motor is equipped with high-precision, permanently lubricated, sealed rolling bearings for low noise and long service life.

THREE-SPEED ADJUSTMENT, FLEXIBLE CONTROL

The fan is equipped with high, medium, and low three-speed adjustment, allowing users to regulate air volume and cooling/heating output as needed. The built-in thermostat enables three-speed control. Optional electric thermostatic valves and room temperature controllers enable automatic constant temperature control to meet comfort requirements in different seasons.

SAFE, RELIABLE AND DURABLE

The motor is a Class B induction motor with a built-in temperature protector, resistant to burnout. Each unit coil undergoes a 2.8MPa high-pressure leak test and rigorous pressure and airtightness tests. The maximum working pressure is 1.6MPa, guaranteeing no water leakage. The outer casing is made of high-quality, high-strength electro-galvanized steel sheet, stamped and formed, offering excellent corrosion resistance.

CONVENIENT MAINTENANCE

The air inlet is equipped with a washable nylon filter, effectively filtering dust to ensure indoor air quality. The front decorative panel can be completely removed, and the filter can be removed and installed without tools, facilitating regular inspection and maintenance.



结构紧凑，置放方便

立式明装风机盘管结构紧凑，可直接放置于室内地面或靠墙安装在窗台下，无需特别装修。机组外观设计有多种颜色可选，出风口配有可调节格栅，可转换出风角度，能够与室内家具和装修风格协调搭配。

高效换热性能

换热盘管采用优质无缝紫铜管与铝质正弦波纹型散热片，经过液压或机械涨管工艺加工，翅片与铜管间结合紧密，能发挥最佳换热效果。单体式锻压成型的黄铜分、集水器使冷冻水进出盘管分配更均匀，水流阻力更小，充分发挥换热器的全部效率。

低噪声运行

采用超广角蜗壳、多叶离心风轮，风轮与电机经合理匹配，风机经过严格的动平衡检验，有效降低运行噪声。机组采用单相电容式电机，配以高精度持久润滑封闭优质滚珠轴承，噪声低、寿命长。

三速调节，灵活控制

风机配备高、中、低三档调速功能，用户可按需调节风量及冷热量输出。机组自带的温控器可实现三速控制，可选配电动温控阀与室温控制器，实现自动恒温控制，满足不同季节的舒适性要求。

安全可靠，经久耐用

电机为 B 级感应式马达，内置温升保护器，无特殊情况不会烧坏电机。每台机组盘管均经过 2.8MPa 高压检漏及严格的耐压气密性试验，机组允许最大工作压力 1.6MPa，保证不会产生漏水现象。机组外壳箱体采用高强度优质电镀锌钢板冲压折弯成型，防腐能力强。

维护保养便捷

进风口处配有可清洗尼龙过滤器，有效过滤空气中的灰尘颗粒，保证室内空气品质。前装饰面板可整块拆装，空气过滤器采用特殊设计，无需工具即可拆装，便于机组定期检修保养。

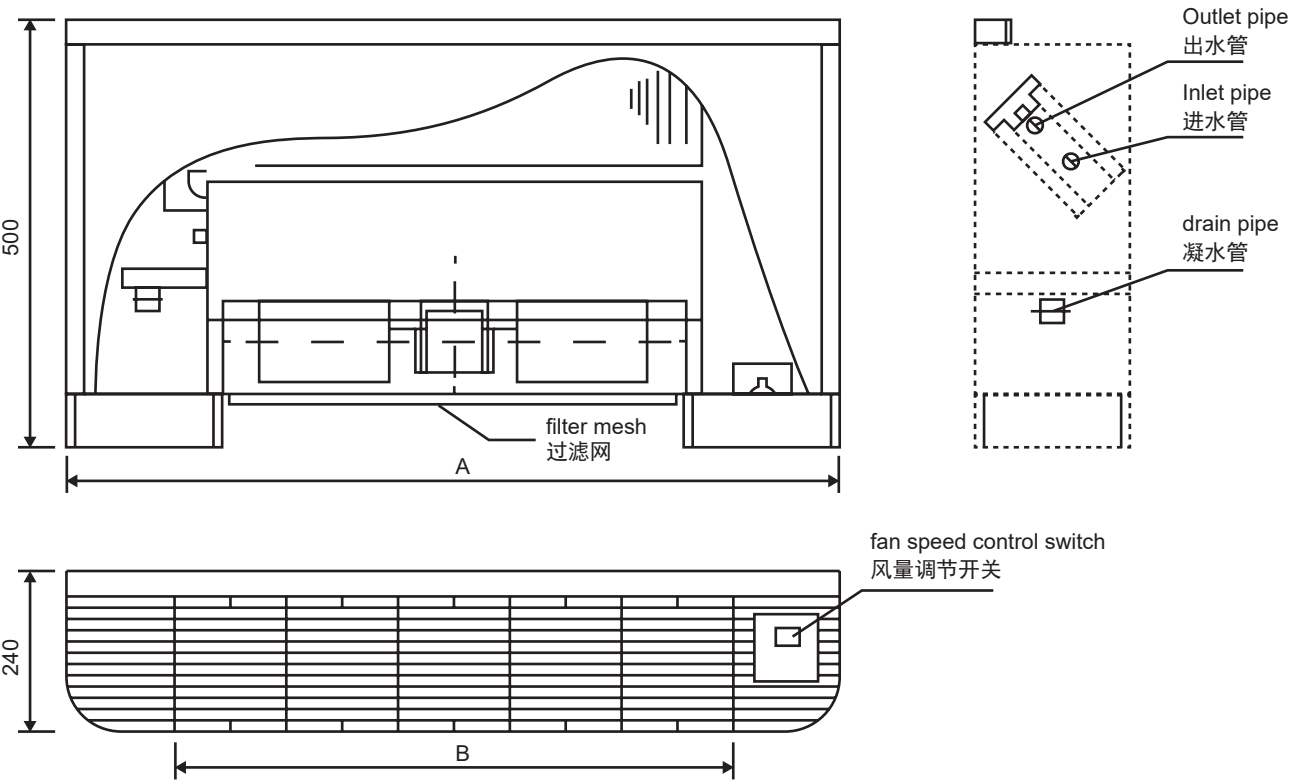
VERTICAL EXPOSED-MOUNTED FAN COIL UNIT PERFORMANCE PARAMETERS

立式明装风机盘管机组性能参数

Model 型号			RNFP-34WM	RNFP-51WM	RNFP-68WM	RNFP-85WM	RNFP-102WM	RNFP-136WM	RNFP-170WM	RNFP-204WM	RNFP-238WM
performance 性能											
Rated air volume(m³/h) 额定风量 (立方米 / 小时)	H 高		340	510	680	850	1020	1360	1700	2040	2380
	M 中		260	390	510	640	770	1020	1280	1530	1790
	L 低		170	260	340	430	510	680	850	1020	1190
Rated cooling capacity 额定制冷量	KW	H	1.8	2.7	3.6	4.5	5.4	7.2	9	10.8	12.6
	Kcal/h	H	1548	2322	3096	3870	4644	6192	7740	9288	10836
Rated heat 额定热值	KW	H	2.7	4.05	5.4	6.75	8.1	10.8	13.5	16.2	18.9
	Kcal/h	H	2322	3483	4644	5805	6966	9288	11610	13932	16254
Input power(W) 输入功率 (W)	12pa	H	36	50	60	74	93	130	147	183	221
	30pa	H	43	57	70	84	105	151	169	206	245
	50pa	H	48	64	0.81	97	114	169	204	243	291
Noise dB(A) 噪声 dB(A)	12pa	H	37	39	41	43	45	46	48	50	52
	30pa	H	40	42	44	46	47	48	50	52	54
	50pa	H	42	44	46	47	49	50	52	54	56
Water quantity(kg/h) 水流量			319	478	638	797	956	1275	1594	1913	2232
Hydraulic loss(kPa) 液体损失			≤ 30	≤ 30	≤ 30	≤ 30	≤ 40	≤ 40	≤ 40	≤ 40	≤ 50
Gross weight(kg) (毛重) 总重量			27	32	33.5	36.5	39.5	50.5	62	65	68
Inlet and outlet water pipes 进水管和出水管			"3/4' Internal thread 3/4 英寸内螺纹 "								
Condensate pipe(Except KM) 冷凝管 (不包括 KM)			"3/4' External thread 3/4 英寸外螺纹 "								
Power supply 电源			AC220/50HZ								
Note 备注			"1. Cooling operating parameters: Inlet air dry bulb temperature 27° C, wet bulb temperature 19.5° C, inlet water temperature 7° C, water temperature difference 5° C. 2. Heating operating parameters: Inlet air dry bulb temperature 21° C, inlet water temperature 60° C, hot water flow rate same as cooling operating conditions. 3. The unit has undergone a pressure test at 2.0MPa and is allowed to operate at a maximum working pressure of 1.6MPa. 4. There are also four-pipe (one plus two, two plus two, three plus one) units available. 1. 冷却运行参数: 进气干球温度 27° C, 湿球温度 19.5° C, 进水温度 7° C, 水温差 5° C。 2. 加热运行参数: 进气干球温度 21 摄氏度, 进水温度 60 摄氏度, 热水流量与冷却运行条件相同。 3. 该装置已通过了 2.0MPa 的压力测试, 并且允许在最大工作压力为 1.6MPa 的条件下运行。 4. 此外, 还有四管式 (一种加一种、两种加两种、三种加一种) 的装置可供选择。"								

VERTICAL EXPOSED SERIES DIMENSION DRAWING

立式明装系列尺寸图



Model 型号	RNFP-34WM	RNFP-51WM	RNFP-68WM	RNFP-85WM	RNFP-102WM	RNFP-136WM	RNFP-170WM	RNFP-204WM	RNFP-238WM
performance 性能									
A	790	940	1020	1140	1250	1450	1730	1930	2130
B	470	620	700	820	930	1130	1410	1610	1810

VERTICAL CONCEALED FAN COIL UNIT

立式暗装风机盘管



VERTICAL CONCEALED FAN COIL UNIT
立式暗装风机盘管

PRODUCT OVERVIEW

产品概述

The vertical concealed fan coil unit is one of the terminal devices of a central air conditioning system. It adopts an ultra-thin vertical concealed structure design with an overall thickness of only 216 mm. The product can be discreetly installed under a window sill, inside a wall, or within an opening of a decorative panel, occupying no effective indoor space and maintaining the overall aesthetic of the interior decoration.

The unit uses chilled water or hot water as a medium. When the cold or hot water flows through the coil, it exchanges heat with the air passing over it, achieving cooling, dehumidification, or heating of the indoor air. The product offers two air supply forms: top air outlet and front air outlet, allowing users to flexibly choose according to on-site installation conditions and decoration styles. The unit operates smoothly with low noise and is suitable for places with high requirements for space utilization and aesthetics, such as conference rooms, halls, and gymnasiums.

立式暗装风机盘管是中央空调系统的末端装置之一，采用超薄立式暗装结构设计，整机厚度仅为 216 毫米。产品可隐蔽安装于窗台下、墙体内部或装饰板的开口内，不占用室内有效空间，保持室内装修的整体美观。

机组以冷冻水或热水为介质，盘管内流过冷（热）媒水时与管外空气进行热交换，实现对室内空气的冷却、除湿或加热调节。产品提供上出风和前出风两种送风形式，用户可根据现场安装条件和装修风格灵活选择。机组运行平稳、噪声低，适用于会议室、大厅、体育馆等对空间利用和美观性要求较高的场所。

PRODUCT FEATURES

产品特点

Ultra-thin Body, Space Saving

The body thickness is only 216 mm, making it one of the thinner models in its class. It can be flexibly installed under a window sill, inside a wall, or within an opening of a decorative panel, completely concealed, occupying no effective indoor activity space, especially suitable for space-limited areas.

Two Air Outlet Types, Flexible Choice

Two air supply forms are available: top air outlet and front air outlet. Users can flexibly choose according to room structure, decoration style, and air distribution requirements, meeting the air supply needs of different installation scenarios.

High Heat Exchange Efficiency

The heat exchanger coil is made of high-quality seamless copper tubes and high-efficiency aluminum fins through a mechanical expansion process. The copper tubes are arranged in a staggered pattern, providing high heat transfer efficiency and low air resistance, ensuring the unit achieves optimal performance under both cooling and heating conditions.

Low Noise Operation

An optimally designed impeller and motor matching scheme is adopted. The fan undergoes strict dynamic balance testing, combined with sound-absorbing insulation material inside the casing, effectively reducing operating noise and creating a quiet and comfortable indoor environment.

Three-speed Adjustment, Flexible Control

The fan is equipped with high, medium, and low three-speed adjustment functions, allowing users to regulate air volume and cooling/heating output as needed. Optional electric thermostatic valves and room temperature controllers enable automatic constant temperature control, meeting comfort requirements in different seasons and time periods.

Convenient Maintenance

The air inlet is equipped with a washable nylon filter, effectively filtering dust particles from the air. The unit is designed for easy maintenance, and the filter can be removed and installed without tools, facilitating regular cleaning and upkeep.

超薄机身，节省空间

机身厚度仅为 216 毫米，是同类产品中较薄的机型之一。可灵活安装于窗台下、墙体内部或装饰板开口中，完全隐蔽，不占用室内有效活动空间，尤其适合空间有限的场所。

两种出风方式，灵活选择

提供上出风和前出风两种送风形式，用户可根据房间结构、装修风格及气流组织需求灵活选择，满足不同安装场景的送风要求。

高效换热性能

换热盘管采用优质无缝紫铜管与高效铝翅片经机械胀管工艺制成，铜管交错排列，传热效率高、空气阻力低，确保机组在制冷和制热工况下均能发挥最佳性能。

低噪声运行

采用优化设计的风轮与电机匹配方案，风机经过严格的动平衡检验，配合箱体内部的吸音保温材料，有效降低运行噪声，营造安静舒适的室内环境。

三速调节，灵活控制

风机配备高、中、低三档调速功能，用户可按需调节风量及冷热量输出。可选配电动温控阀与室温控制器，实现自动恒温控制，满足不同季节和时段的舒适性要求。

维护保养便捷

进风口处配有可清洗尼龙过滤器，有效过滤空气中的灰尘颗粒。机组设计便于检修，过滤器无需工具即可拆装，方便定期清洗保养。

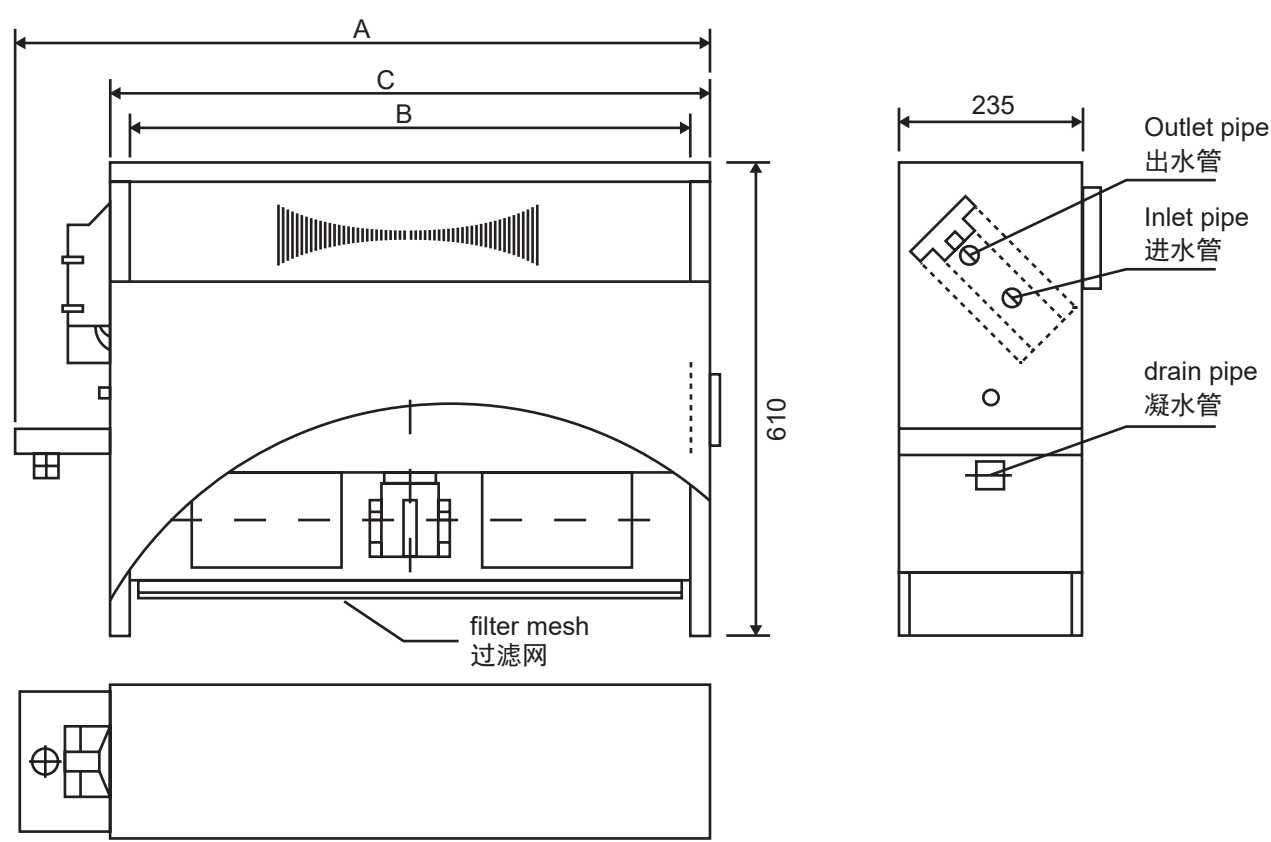
VERTICAL EXPOSED-MOUNTED FAN COIL UNIT PERFORMANCE PARAMETERS

立式明装风机盘管机组性能参数

Model 型号			RNFP-34WM	RNFP-51WM	RNFP-68WM	RNFP-85WM	RNFP-102WM	RNFP-136WM	RNFP-170WM	RNFP-204WM	RNFP-238WM
performance 性能											
Rated air volume(m³/h) 额定风量 (立方米 / 小时)	H 高		340	510	680	850	1020	1360	1700	2040	2380
	M 中		260	390	510	640	770	1020	1280	1530	1790
	L 低		170	260	340	430	510	680	850	1020	1190
Rated cooling capacity 额定制冷量	KW	H	1.8	2.7	3.6	4.5	5.4	7.2	9	10.8	12.6
	Kcal/h	H	1548	2322	3096	3870	4644	6192	7740	9288	10836
Rated heat 额定热值	KW	H	2.7	4.05	5.4	6.75	8.1	10.8	13.5	16.2	18.9
	Kcal/h	H	2322	3483	4644	5805	6966	9288	11610	13932	16254
Input power(W) 输入功率 (W)	12pa	H	36	50	60	74	93	130	147	183	221
	30pa	H	43	57	70	84	105	151	169	206	245
	50pa	H	48	64	0.81	97	114	169	204	243	291
Noise dB(A) 噪声 dB(A)	12pa	H	37	39	41	43	45	46	48	50	52
	30pa	H	40	42	44	46	47	48	50	52	54
	50pa	H	42	44	46	47	49	50	52	54	56
Water quantity(kg/h) 水流量			319	478	638	797	956	1275	1594	1913	2232
Hydraulic loss(kPa) 液体损失			≤ 30	≤ 30	≤ 30	≤ 30	≤ 40	≤ 40	≤ 40	≤ 40	≤ 50
Gross weight(kg) (毛重) 总重量			27	32	33.5	36.5	39.5	50.5	62	65	68
Inlet and outlet water pipes 进水管和出水管			"3/4'Internal thread 3/4 英寸内螺纹 "								
Condensate pipe(Except KM) 冷凝管 (不包括 KM)			"3/4' External thread 3/4 英寸外螺纹 "								
Power supply 电源			AC220/50HZ								
Note 备注			"1. Cooling operating parameters: Inlet air dry bulb temperature 27° C, wet bulb temperature 19.5° C, inlet water temperature 7° C, water temperature difference 5° C. 2. Heating operating parameters: Inlet air dry bulb temperature 21° C, inlet water temperature 60° C, hot water flow rate same as cooling operating conditions. 3. The unit has undergone a pressure test at 2.0MPa and is allowed to operate at a maximum working pressure of 1.6MPa. 4. There are also four-pipe (one plus two, two plus two, three plus one) units available. 1. 冷却运行参数: 进气干球温度 27° C, 湿球温度 19.5° C, 进水温度 7° C, 水温差 5° C。 2. 加热运行参数: 进气干球温度 21 摄氏度, 进水温度 60 摄氏度, 热水流量与冷却运行条件相同。 3. 该装置已通过了 2.0MPa 的压力测试, 并且允许在最大工作压力为 1.6MPa 的条件下运行。 4. 此外, 还有四管式 (一种加一种、两种加两种、三种加一种) 的装置可供选择。"								

VERTICAL CONCEALED SERIES DIMENSION DRAWING

立式暗装系列尺寸图



Model 型号	RNFP-34LA	RNFP-51LA	RNFP-68LA	RNFP-85LA	RNFP-102LA	RNFP-136LA	RNFP-170LA	RNFP-204LA	RNFP-238LA
performance 性能									
A	660	760	840	960	1090	1290	1550	1750	1950
B	460	580	650	780	900	1100	1360	1560	1760
C	500	620	690	820	940	1140	1400	1600	1800

CARD-TYPE FAN COIL UNIT

卡式风盘风机盘管



CARD-TYPE FAN COIL UNIT
卡式风盘风机盘管

PRODUCT OVERVIEW

产品概述

Cassette fan coil unit, also known as ceiling embedded fan coil unit, is one of the terminal devices of central air conditioning systems. It is a semi-exposed unit — the core components such as fan, motor, and coil are hidden above the ceiling, with only the supply and return air panels exposed on the ceiling surface, blending into the ceiling.

The product uses chilled or hot water as the medium. When cold/hot water flows through the coil, it exchanges heat with the air outside the coil, achieving cooling, dehumidification, or heating regulation of indoor air. The unit is installed in an embedded manner, with the body hidden inside the ceiling, and the supply air panel can be customized according to the decoration style to harmonize with the indoor environment. The product is mainly available in four-way, two-way, and one-way air discharge types, allowing users to choose flexibly based on room shape and area.

卡式风机盘管，又称天花板嵌入式风机盘管，是中央空调系统的末端装置之一，属于半明装机组——风机、电机和盘管等核心部件隐藏于天花板之上，仅出风口和回风口面板外露于吊顶表面，与天花板融为一体。

该产品以冷冻水或热水为介质，盘管内流过冷（热）媒水时与管外空气进行热交换，实现对室内空气的冷却、除湿或加热调节。机组采用嵌入式安装，机身隐藏于吊顶内，出风口面板可根据装修风格定制，与室内环境协调统一。产品主要分为四面出风型、两面出风型和单面出风型，用户可根据房间形状和面积灵活选择。

PRODUCT FEATURES

产品特点

EMBEDDED INSTALLATION, ELEGANT APPEARANCE

The unit is fully embedded into the ceiling, with only the supply air panel exposed, blending with the ceiling and not occupying valuable indoor space. The front panel features a slim, streamlined design that complements the decoration, making it especially suitable for places with high requirements for interior aesthetics.

OMNIDIRECTIONAL AIR SUPPLY, COMFORTABLE AND UNIFORM

With multi-directional air discharge (four-way / two-way / one-way optional), it achieves 360 ° seamless annular air supply, making indoor cooling/heating distribution more uniform and improving comfort. The supply air outlet is equipped with adjustable grilles, allowing users to change the air direction as needed.

LOW NOISE OPERATION

The unit contains sound-absorbing sponge, combined with an optimized impeller and motor matching design, effectively reducing operating noise. The three-dimensional spiral blades and DC brushless permanent magnet motor ensure smooth and quiet operation. Noise levels for standard models can be controlled between 38–52 dB(A).

HIGH HEAT EXCHANGE EFFICIENCY

The heat exchanger uses seamless purple copper tubes with efficient double-curved fully closed hydrophilic aluminum fins. Optimized fluid design effectively improves heat transfer efficiency. Each unit's coil undergoes strict pressure and airtightness tests to ensure safe and reliable operation.

FLEXIBLE CONTROL, RICH FUNCTIONS

Equipped with five-speed + stepless fan speed adjustment, achieving smoother room temperature control. Users can optionally use a wireless remote controller or a large LCD display wired controller to realize various control functions such as function setting, fan speed adjustment, and timed on/off, making operation simple and convenient.

BUILT-IN DRAIN PUMP, FLEXIBLE INSTALLATION

The unit has a built-in condensate drain pump with a head of up to 700mm, flexibly adapting to drainage requirements of different ceiling heights and eliminating leakage concerns. Some models can also be equipped with an optional lift pump to improve heat transfer efficiency.

EASY MAINTENANCE

The intake grille can be easily removed, and the panel can be opened without tools. Together with a washable filter, it ensures clean and fresh indoor air. After removing the panel, electrical and other components can be easily removed or replaced, greatly facilitating daily inspection and maintenance. The unit is also equipped with a fresh air inlet to introduce outdoor fresh air, avoiding the harm of "sick building syndrome."

SUPPORT FOR CUSTOMIZATION, FLEXIBLE ADAPTATION

The product supports OEM customization. Panel style, appearance color, and performance parameters can be customized according to customer requirements, meeting the personalized needs of different projects and decoration styles.

嵌入式安装，美观大方

机组完全嵌入天花板内，仅出风口面板外露，与吊顶融为一体，不占用室内有效空间。前面板设计成薄型流线型，配合装修美观大方，特别适合对室内装饰要求较高的场所。

全方位送风，舒适均匀

采用多面出风设计（四面 / 两面 / 单面可选），可实现 360°无死角环形送风，室内冷 / 热分布更均匀，使用舒适度更高。出风口配备可调节格栅，用户可根据需要调整送风方向。

低噪声运行

机组内含吸音海绵，配合优化设计的风轮与电机匹配方案，有效降低运行噪声。采用三维螺旋扇叶和直流无刷永磁电机，运行平稳安静。普通型号噪声可控制在 39–52dB(A) 之间。

高效换热性能

换热器采用无缝紫铜管配合高效双曲全封闭亲水铝箔散热片，经优化流体设计，有效提升传热效率。每台机组盘管均经过严格的耐压气密性测试，确保运行安全可靠。

灵活控制，功能丰富

配备五档 + 无级风速调节功能，室温控制更平稳。用户可选配无线遥控器或大液晶显示屏线控器，实现功能设定、风速调节、定时开关机等多种控制功能，操作简便。

内置排水泵，安装灵活

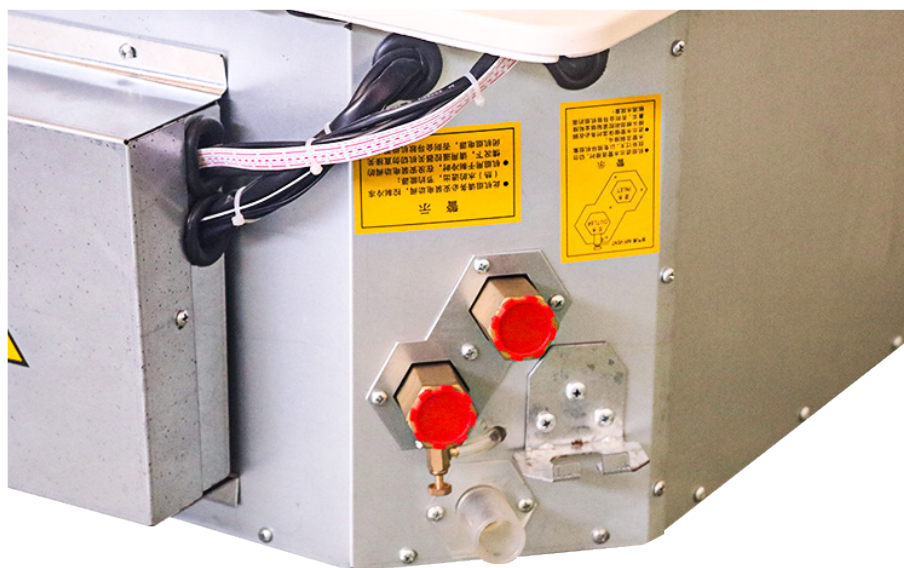
机组内置凝结水排水泵，水泵扬程高达 700mm，可灵活适应不同吊顶高度的排水需求，免除漏水之忧。部分型号还可选配提升泵，提高传热效率。

维护保养便捷

进风格栅可方便拆卸，无需工具即可打开面板。配合可清洗过滤网，保证室内空气干净清新。拆除面板后，电气等部件可轻易拆除或更换，极大方便了日常检修与维护。机组还设置有新风口，可引入室外新鲜空气，避免“空调病”的危害。

支持定制，灵活适配

产品支持 OEM 定制，可根据客户需求定制面板样式、外观颜色及性能参数，满足不同项目和装修风格的个性化需求。



PERFORMANCE PARAMETERS OF THE CARTRIDGE AIR CONDITIONING PANEL UNIT

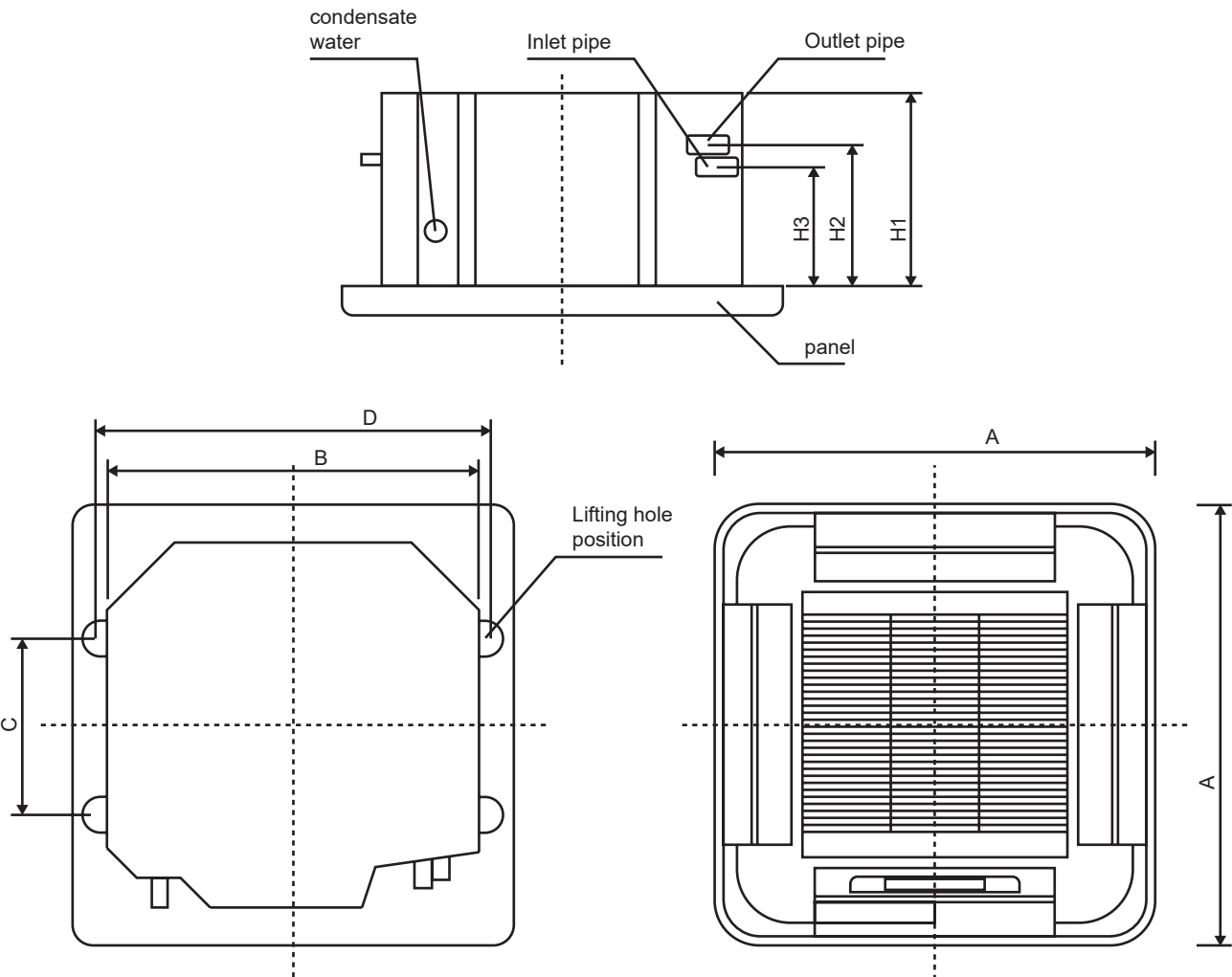
卡式风机盘管机组性能参数

Model 型号			RNFP-34WM	RNFP-51WM	RNFP-68WM	RNFP-85WM	RNFP-102WM	RNFP-136WM	RNFP-170WM	RNFP-204WM	RNFP-238WM
performance 性能											
Rated air volume(m³/h) 额定风量 (立方米 / 小时)	H 高		340	510	680	850	1020	1360	1700	2040	2380
	M 中		260	390	510	640	770	1020	1280	1530	1790
	L 低		170	260	340	430	510	680	850	1020	1190
Rated cooling capacity 额定制冷量	KW	H	1.8	2.7	3.6	4.5	5.4	7.2	9	10.8	12.6
	Kcal/h	H	1548	2322	3096	3870	4644	6192	7740	9288	10836
Rated heat 额定热值	KW	H	2.7	4.05	5.4	6.75	8.1	10.8	13.5	16.2	18.9
	Kcal/h	H	2322	3483	4644	5805	6966	9288	11610	13932	16254
Input power(W) 输入功率 (W)	12pa	H	36	50	60	74	93	130	147	183	221
	30pa	H	43	57	70	84	105	151	169	206	245
	50pa	H	48	64	0.81	97	114	169	204	243	291
Noise dB(A) 噪声 dB(A)	12pa	H	37	39	41	43	45	46	48	50	52
	30pa	H	40	42	44	46	47	48	50	52	54
	50pa	H	42	44	46	47	49	50	52	54	56
Water quantity(kg/h) 水流量			319	478	638	797	956	1275	1594	1913	2232
Hydraulic loss(kPa) 液体损失			≤ 30	≤ 30	≤ 30	≤ 30	≤ 40	≤ 40	≤ 40	≤ 40	≤ 50
Gross weight(kg) (毛重) 总重量				22		31		35			37.5
Inlet and outlet water pipes 进水管和出水管			"3/4'Internal thread 3/4 英寸内螺纹 "								
Condensate pipe(Except KM) 冷凝管 (不包括 KM)			"3/4' External thread 3/4 英寸外螺纹 "								
Power supply 电源			AC220/50HZ								
Note 备注			"1. Cooling operating parameters: Inlet air dry bulb temperature 27° C, wet bulb temperature 19.5° C, inlet water temperature 7° C, water temperature difference 5° C. 2. Heating operating parameters: Inlet air dry bulb temperature 21° C, inlet water temperature 60° C, hot water flow rate same as cooling operating conditions. 3. The unit has undergone a pressure test at 2.0MPa and is allowed to operate at a maximum working pressure of 1.6MPa. 4. There are also four-pipe (one plus two, two plus two, three plus one) units available. 1. 冷却运行参数: 进气干球温度 27° C, 湿球温度 19.5° C, 进水温度 7° C, 水温差 5° C. 2. 加热运行参数: 进气干球温度 21 摄氏度, 进水温度 60 摄氏度, 热水流量与冷却运行条件相同。 3. 该装置已通过了 2.0MPa 的压力测试, 并且允许在最大工作压力为 1.6MPa 的条件下运行。 4. 此外, 还有四管式 (一种加一种、两种加两种、三种加一种) 的装置可供选择。"								

CASSETTE FAN COIL SERIES

DIMENSION DRAWING

卡式风机盘管系列尺寸图



Model 型号	RNFP-34XD	RNFP-51XD	RNFP-68XD	RNFP-85XD	RNFP-102XD	RNFP-136XD	RNFP-170XD	RNFP-204XD	RNFP-238XD
performance 性能									
A	650	650	650	850	850	850	950	950	950
B	573	573	573	741	741	741	830	830	830
C	275	275	275	340	340	340	380	380	380
D	625	625	625	790	790	790	880	880	880
H1	390	390	390	400	400	400	420	420	420
H2	310	310	310	320	320	320	320	320	320
H3	270	270	270	280	280	280	290	290	290

HORIZONTAL CONCEALED FAN COIL UNIT

卧式暗装风机盘管



HORIZONTAL CONCEALED FAN COIL UNIT
卧式暗装风机盘管

PRODUCT OVERVIEW

产品概述

The RNFP-WA series horizontal concealed fan coil unit is one of the terminal devices of a central air conditioning system. Featuring an ultra-low profile horizontal structure, the unit has an exceptionally low overall height, allowing it to be ideally and completely concealed within the ceiling plenum. Only the supply and return air grilles are externally connected, blending seamlessly with the interior decoration.

The unit uses chilled water or hot water as the medium. When the cold (or hot) water flows through the coil, heat exchange occurs with the air passing over the coil, enabling cooling, dehumidification, or heating of the indoor air. The concealed horizontal installation means the unit does not occupy any usable indoor space. With supply air outlets customized to match the interior decoration style, the unit ensures optimal air conditioning performance while maximizing the aesthetics and tidiness of the indoor environment.

RNFP-WA 系列卧式暗装风机盘管是中央空调系统的末端装置之一，采用超低轮廓卧式结构设计，整机高度特别低，可理想地完全隐藏安装于天花板吊顶内部，仅外接出风口和回风口格栅与室内装修融为一体。

该产品以冷冻水或热水为介质，盘管内流过冷（热）媒水时与管外空气进行热交换，实现对室内空气的冷却、除湿或加热调节。机组卧式暗装的形式使其不占用室内有效空间，配合室内装修风格定制出风口，在保证空调效果的同时最大限度维护室内环境的美观整洁。

PRODUCT FEATURES

产品特点

ULTRA-LOW PROFILE, CONCEALED INSTALLATION

The unit features an exceptionally low profile and compact overall height, allowing it to be ideally installed within limited ceiling plenum spaces. Fully concealed from view, only the supply and return air grilles are visible indoors, occupying no usable floor space and preserving the overall aesthetic of the interior decoration.

FLEXIBLE AIR OUTLET SELECTION TO MATCH INTERIOR DESIGN

The unit can be equipped with various types of supply air outlets (such as double-layer louvered diffusers, ceiling diffusers, etc.) to suit the interior decoration style. This ensures the air conditioning terminal blends harmoniously with the indoor environment, meeting the aesthetic requirements of hotels, restaurants, offices, and similar spaces.

HIGH HEAT TRANSFER EFFICIENCY

The heat exchanger coil is manufactured using high-quality seamless purple copper tubes and high-efficiency aluminum fins, mechanically expanded to ensure tight contact. The copper tubes are arranged in a staggered pattern, providing high heat transfer efficiency and low air resistance. Each coil undergoes rigorous pressure and leak-tightness testing, ensuring safe and reliable operation.

LOW-NOISE OPERATION

The unit adopts an optimized combination of fan wheel and motor, with the fan assembly precisely balanced through dynamic testing. Combined with sound-absorbing and thermal insulation materials inside the casing, operational noise is effectively reduced, creating a quiet and comfortable indoor environment.

THREE-SPEED ADJUSTMENT, FLEXIBLE CONTROL

The fan is equipped with high, medium, and low speed settings, allowing users to adjust airflow and cooling/heating output as needed. An optional electric temperature control valve and room thermostat enable automatic constant temperature control, meeting comfort requirements across different seasons.

COMPACT STRUCTURE, EASY MAINTENANCE

The unit features a compact design with well-organized component layout. A washable nylon filter is installed at the air inlet, effectively filtering dust particles from the air. A maintenance access opening is provided as part of the design, facilitating routine service and regular cleaning.

超低轮廓，隐藏安装

机身轮廓特别低，整体高度小，可理想地放入有限的天花板吊顶空间内。完全暗装隐藏，室内仅见出风口和回风口格栅，不占用室内有效活动空间，保持装修整体美观。

配合装修，灵活配风口

机组可结合室内装修风格，灵活选配不同形式的出风口（如双层百叶风口、散流器等），使空调末端与室内环境协调统一，满足宾馆、饭店、办公室等场所对美观性的要求。

高效换热性能

换热盘管采用优质无缝紫铜管与高效铝翅片经机械胀管工艺制成，铜管交错排列，传热效率高、空气阻力低。每台机组盘管均经过严格的耐压气密性测试，确保运行安全可靠。

低噪声运行

采用优化设计的风轮与电机匹配方案，风机经过严格的动平衡检验，配合箱体内的吸音保温材料，有效降低运行噪声，营造安静舒适的室内环境。

三速调节，灵活控制

风机配备高、中、低三档调速功能，用户可按需调节风量及冷热量输出。可选配电动温控阀与室温控制器，实现自动恒温控制，满足不同季节的舒适性要求。

结构紧凑，维护方便

机组结构设计紧凑，各部件布局合理。进风口处配有可清洗尼龙过滤器，有效过滤空气中灰尘颗粒。检修口预留设计，便于日常维护和定期清洗。

HORIZONTAL CONCEALED FAN COIL UNIT PERFORMANCE PARAMETERS

卧式暗装风机盘管机组性能参数

Model 型号			RNFP-34WM	RNFP-51WM	RNFP-68WM	RNFP-85WM	RNFP-102WM	RNFP-136WM	RNFP-170WM	RNFP-204WM	RNFP-238WM
performance 性能											
Rated air volume(m³/h) 额定风量 (立方米 / 小时)		H 高	340	510	680	850	1020	1360	1700	2040	2380
		M 中	260	390	510	640	770	1020	1280	1530	1790
		L 低	170	260	340	430	510	680	850	1020	1190
Rated cooling capacity 额定制冷量	KW	H	1.8	2.7	3.6	4.5	5.4	7.2	9	10.8	12.6
	Kcal/h	H	1548	2322	3096	3870	4644	6192	7740	9288	10836
Rated heat 额定热值	KW	H	2.7	4.05	5.4	6.75	8.1	10.8	13.5	16.2	18.9
	Kcal/h	H	2322	3483	4644	5805	6966	9288	11610	13932	16254
Input power(W) 输入功率 (W)	12pa	H	36	50	60	74	93	130	147	183	221
	30pa	H	43	57	70	84	105	151	169	206	245
	50pa	H	48	64	0.81	97	114	169	204	243	291
Noise dB(A) 噪声 dB(A)	12pa	H	37	39	41	43	45	46	48	50	52
	30pa	H	40	42	44	46	47	48	50	52	54
	50pa	H	42	44	46	47	49	50	52	54	56
Water quantity(kg/h) 水流量			319	478	638	797	956	1275	1594	1913	2232
Hydraulic loss(kPa) 液体损失			≤ 30	≤ 30	≤ 30	≤ 30	≤ 40	≤ 40	≤ 40	≤ 40	≤ 50
Gross weight(kg) (毛重) 总重量			12	15	16	18	19	25	29	33	36
Inlet and outlet water pipes 进水管和出水管			"3/4'Internal thread 3/4 英寸内螺纹 "								
Condensate pipe(Except KM) 冷凝管 (不包括 KM)			"3/4' External thread 3/4 英寸外螺纹 "								
Power supply 电源			AC220/50HZ								
Note 备注			"1. Cooling operating parameters: Inlet air dry bulb temperature 27° C, wet bulb temperature 19.5° C, inlet water temperature 7° C, water temperature difference 5° C. 2. Heating operating parameters: Inlet air dry bulb temperature 21° C, inlet water temperature 60° C, hot water flow rate same as cooling operating conditions. 3. The unit has undergone a pressure test at 2.0MPa and is allowed to operate at a maximum working pressure of 1.6MPa. 4. There are also four-pipe (one plus two, two plus two, three plus one) units available. 1. 冷却运行参数: 进气干球温度 27° C, 湿球温度 19.5° C, 进水温度 7° C, 水温差 5° C. 2. 加热运行参数: 进气干球温度 21 摄氏度, 进水温度 60 摄氏度, 热水流量与冷却运行条件相同。 3. 该装置已通过了 2.0MPa 的压力测试, 并且允许在最大工作压力为 1.6MPa 的条件下运行。 4. 此外, 还有四管式 (一种加一种、两种加两种、三种加一种) 的装置可供选择。"								

PRODUCT MODEL

规格型号



Product model: FP-34WA
Applicable area: 5-10 m²
Rated cooling capacity: 1.8KW
Rated heat: 2.7KW
Water flow: 319kg/h
Motor fan quantity:
1 motor 1 fan



Product model: FP-51WA
Applicable area: 10-15 m²
Rated cooling capacity: 2.7KW
Rated heat: 4.5KW
Water flow: 478kg/h
Motor fan quantity:
1 motor 2 fan



Product model: FP-68WA
Applicable area: 15-20 m²
Rated cooling capacity: 3.6KW
Rated heat: 5.4KW
Water flow: 638kg/h
Motor fan quantity:
1 motor 2 fan



Product model: FP-85WA
Applicable area: 20-25 m²
Rated cooling capacity: 4.5KW
Rated heat: 6.7KW
Water flow: 797kg/h
Motor fan quantity:
1 motor 2 fan



Product model: FP-102WA
 Applicable area: 25-30 m²
 Rated cooling capacity: 5.4KW
 Rated heat: 8.1KW
 Water flow: 956kg/h
 Motor fan quantity:
 1 motor 2 fan



Product model: FP-136WA
 Applicable area: 30-35 m²
 Rated cooling capacity: 7.2KW
 Rated heat: 10.8KW
 Water flow: 1275kg/h
 Motor fan quantity:
 2 motor 3 fan



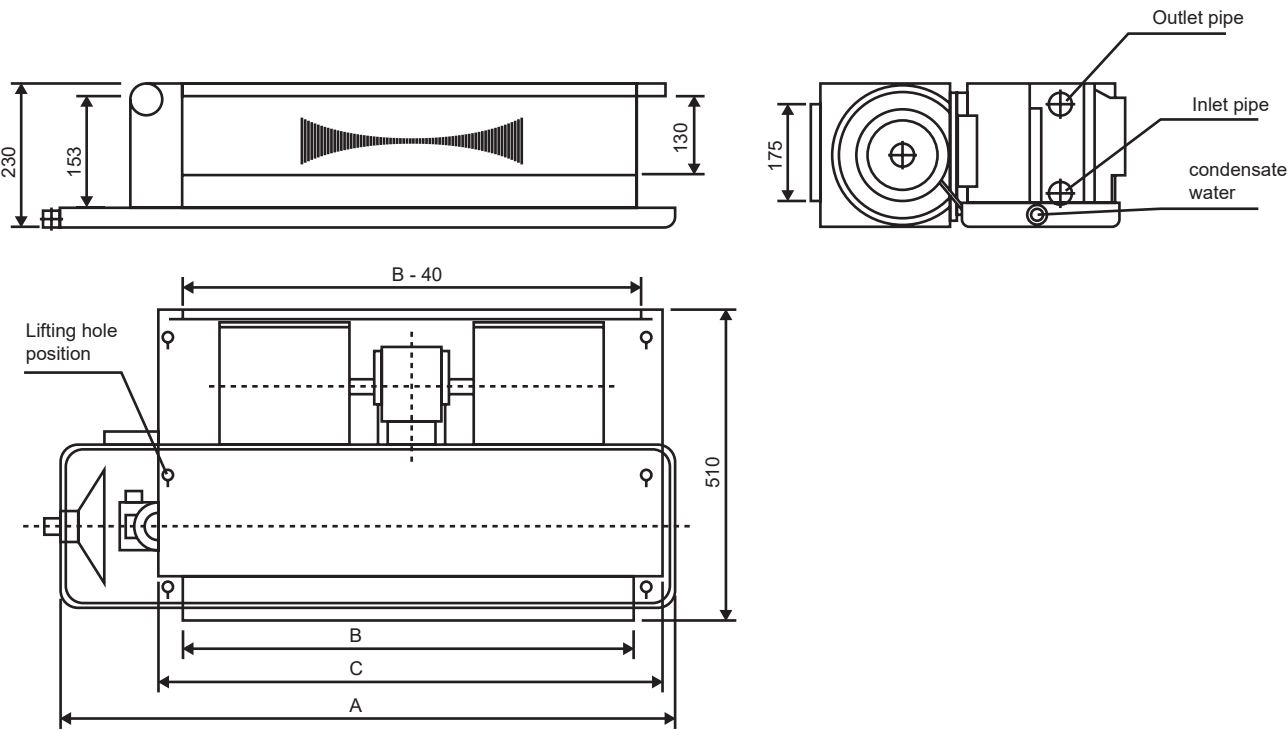
Product model: FP-170WA
 Applicable area: 35-45 m²
 Rated cooling capacity: 9.0KW
 Rated heat: 13.5KW
 Water flow: 1594kg/h
 Motor fan quantity:
 2 motor 4 fan



Product model: FP-204WA
 Applicable area: 45-50 m²
 Rated cooling capacity: 10.8KW
 Rated heat: 16.2KW
 Water flow: 1913kg/h
 Motor fan quantity:
 2 motor 4 fan

DIMENSION DRAWING OF REAR RETURN AIR SERIES FOR BEDROOM INSTALLATION

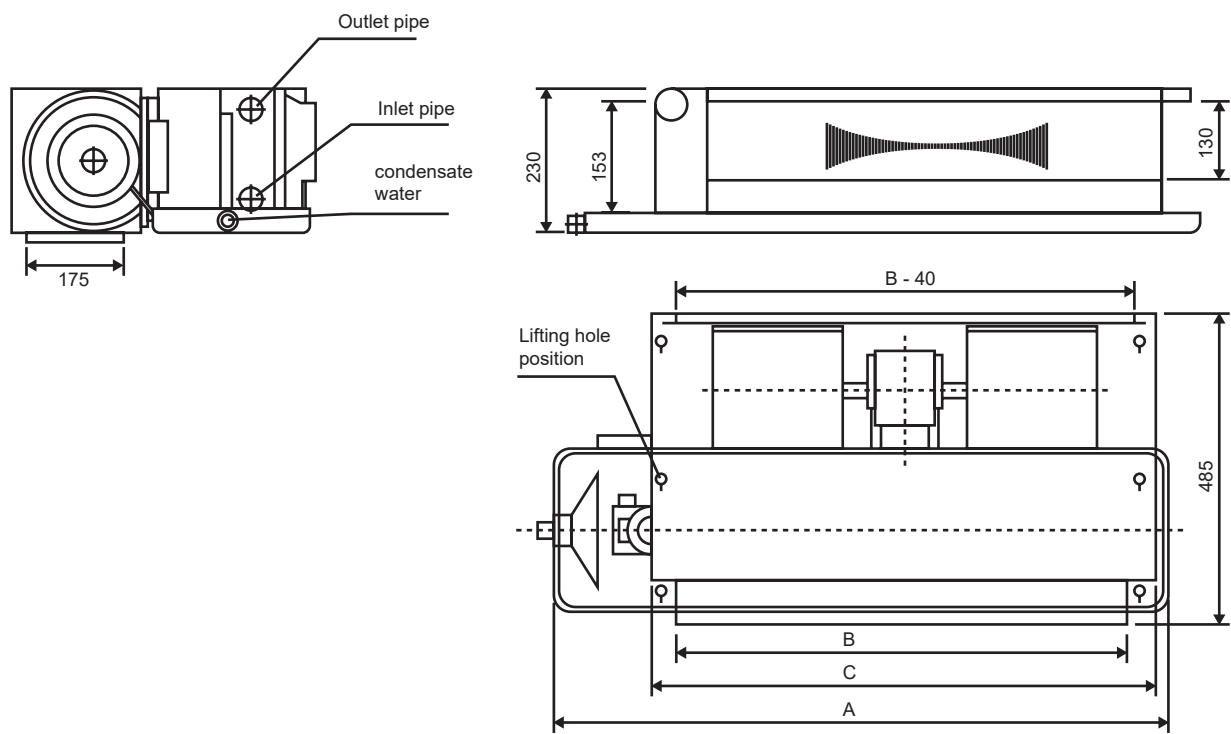
卧室安装后回风系列尺寸图



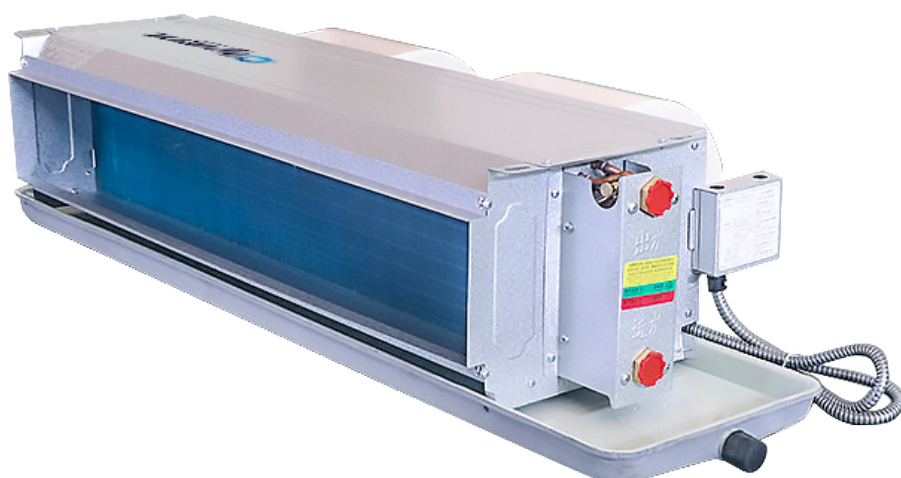
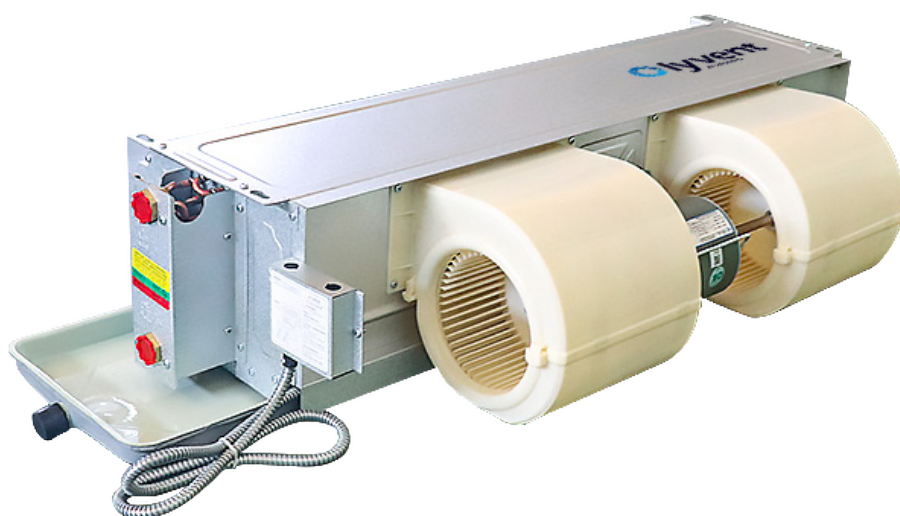
Model 型号	RNFP- 34WA	RNFP- 51WA	RNFP- 68WA	RNFP- 85WA	RNFP- 102WA	RNFP- 136WA	RNFP- 170WA	RNFP- 204WA	RNFP- 238WA
performance 性能									
A	750	850	950	1050	1150	1350	1650	1850	2050
B	460	580	650	780	900	1100	1360	1560	1760
C	490	610	680	810	930	1130	1390	1590	1790

DIMENSION DRAWING OF BOTTOM RETURN AIR SERIES FOR BEDROOM INSTALLATION

卧室安装下回风系列尺寸图



Model 型号	RNFP- 34WA	RNFP- 51WA	RNFP- 68WA	RNFP- 85WA	RNFP- 102WA	RNFP- 136WA	RNFP- 170WA	RNFP- 204WA	RNFP- 238WA
performance 性能									
A	750	850	950	1050	1150	1350	1650	1850	2050
B	460	580	650	780	900	1100	1360	1560	1760
C	490	610	680	810	930	1130	1390	1590	1790





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