olyvent
air solutions

ROOFTOP AIR CONDITIONING UNITS

Reliable comfort comes from
reliable technology.

屋顶空调机组

OLYVENT(OULAIBEITAI)EQUIPMENT CO.,LTD

AIR TO AIR SERIES

空气对空气系列

ROOFTOP PACKAGED UNIT

Cooling Capacity: 12kW~300kW / 3.4Ton~85.7Ton

Optional: Economizer and free cooling, Energy recovery, Electric heater, Hot water coil, Explosion proof, Gas burner etc.

屋顶式空调机组

制冷量：12kW~300kW / 3.4 吨 ~85.7 吨

可选配置：节能器与自然冷却、能量回收、电加热器、热水盘管、防爆、燃气燃烧器等

DUCTED SPLIT UNI

Cooling Capacity: 20kW~104kW / 5.6Ton~29.6Ton

风管式分体机组

制冷量：20kW~104kW / 5.6 吨 ~29.6 吨

ROOFTOP PACKAGED UNIT
屋顶式空调机组

12kW~300kW	12kW~300kW
3.4Ton~85.7Ton	3.4吨~85.7吨

APPLICATION AREAS
应用领域

- Large and light commercial buildings (retail, airports, restaurants, shops, petrol stations...)
- Cinemas, theaters
- Industrial buildings and logistic centers

- 大型及轻型商业建筑（零售、机场、餐厅、商店、加油站……）
- 电影院、剧院
- 工业建筑与物流中心

WHY THIS CHOICE?
为何选择此产品?

- Energy efficient solution
- Cost effective package for fast and easy installation
- Multiple heating options available
- Fresh air control and free cooling management
- Wide choice of communication interfaces
- Electronic expansion valve, EC plug fan

- 高效节能方案
- 高性价比，安装快速简便
- 多种供暖选项可选
- 新风控制及自然冷却管理
- 多种通讯接口可选
- 电子膨胀阀，EC插拔式风机

BENEFITS
优势

COMPACT DESIGN
紧凑设计

The compact design gives an aesthetic and neat appearance when installed in line of sight. Compact size benefits transport, handling and positioning on site, simplified and cheaper than traditional units.

紧凑的设计使其在视线可及之处安装时呈现美观整洁的外观。紧凑的尺寸有利于运输、现场搬运和定位，相比传统机组更简单、更经济。

RELIABILITY
可靠性

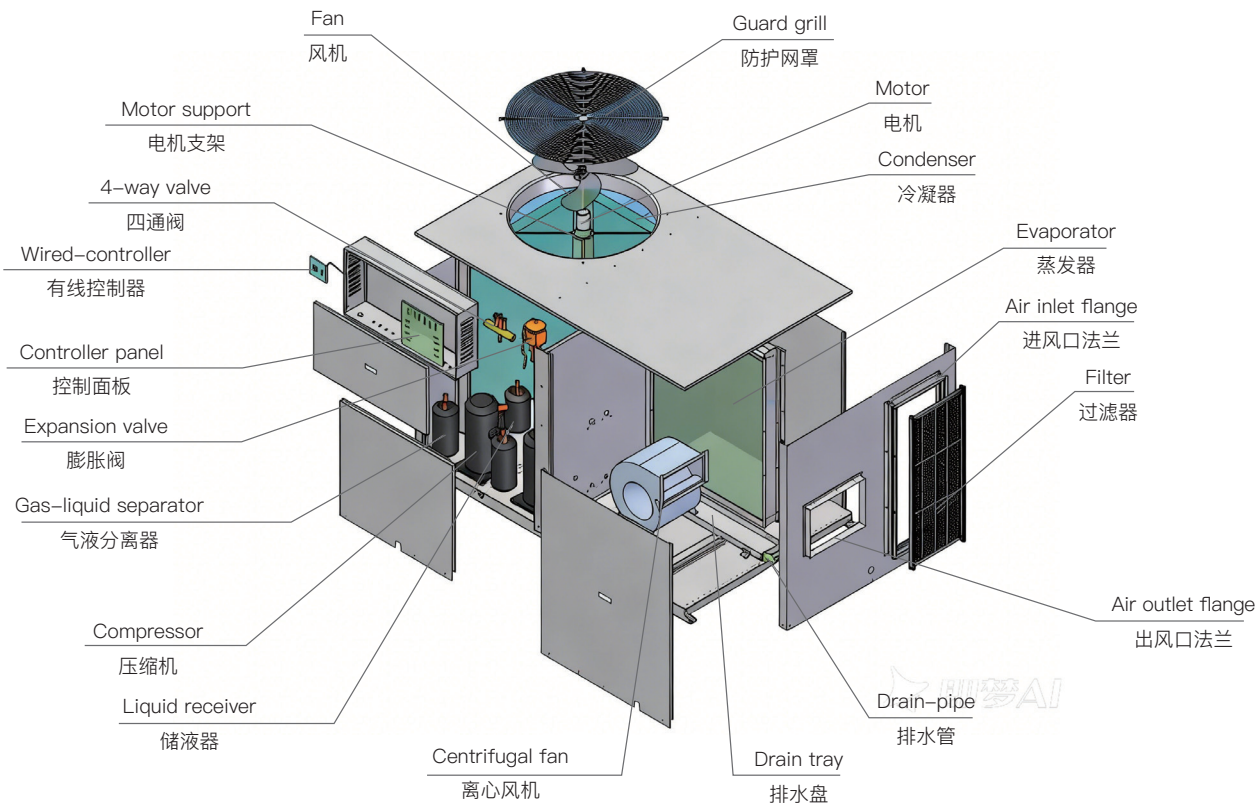
All products are rigorously factory tested to ensure the top arrived condition in site. The strict testing procedure includes rain test, shipping test, shake and drop test, rigging test, coil leak test, and the whole unit running test. All units are fully factory tested; plug and play for the easier installation in site by reducing any unnecessary costs. This is one of the Amrta's rigorous requirements of responsibility to customers to make sure the reliability of our products.

所有产品均经过严格的工厂测试，以确保到达现场时处于最佳状态。严格的测试流程包括淋雨测试、运输测试、震动与跌落测试、吊装测试、盘管泄漏测试以及整机运行测试。所有机组均在工厂完成全面测试；即插即用，减少现场不必要的安装成本，使安装更简便。这是阿姆塔对客户责任感的严格要求之一，旨在确保我们产品的可靠性。

DURABILITY
耐久性

Cabinets are constructed from galvanized steel with polyester powder coated for all weather protection. The outdoor air coils' aluminum fins could be epoxy coated for extra protection in corrosive environments, for example the salt laden sea air. External fasteners are made by stainless steel or galvanized steel as well as the corrosion resistant drain trays. 10 years anti-corrosion warranty is guaranteed.

机箱采用镀锌钢板制造，并涂有聚酯粉末涂层，可实现全天候防护。室外空气盘管的铝翅片可进行环氧涂层处理，以在腐蚀性环境（例如含盐的海风）中提供额外保护。外部紧固件采用不锈钢或镀锌钢，排水盘也具有耐腐蚀性。提供 10 年防腐蚀质保。



ECONOMY
经济性

2–4 stages operation compressors are progressively switched on only as they are needed. This has the added advantage of lowering start–up current. Especially, economizer such as free cooling or heat recovery option helps to reduce the operating costs.

2–4 级运行压缩机仅根据需要逐级开启。这还具有降低启动电流的附加优势。尤其是采用自然冷却或热回收等节能器选项，有助于降低运行成本。

FLEXIBILITY
灵活性

The dedicated vertical or horizontal supply/return configurations allow easy utilization on replacement jobs or new construction applications. Unit may be configured to precisely match the building requirements through the use of factory–installed options such as: integrated economizer, power air exhaust, high static pressure indoor fan and coil protection options.

专用的垂直或水平送风 / 回风配置，便于在设备更换或新建项目中使用。通过使用工厂预装的选配件 (如: 整体式节能器、动力排风、高静压室内风机及盘管保护选项)，机组可精确配置以满足建筑需求。

EASY MAINTENANCE
易于维护

The condenser and evaporator fan motor bearings are permanently lubricated with long life, and no annual maintenance need, adding greater reliability to the unit. The service access ports are protected, externally mounted, reusable, provided on both the high and low lines for ease of evacuating and charging the system. A large, single panel covers the electrical controls makes servicing easy. The blower compartment has a large panel which will allow the blower fan assembly to slide–out for ease of maintenance and trouble shooting.

冷凝器和蒸发器风扇电机轴承采用长寿命永久润滑，无需年度维护，进一步提高了机组的可靠性。检修接口受到保护、外置安装、可重复使用，并同时配置于高压侧和低压侧，便于系统抽真空和充注制冷剂。电气控制部分由一块大型单面板覆盖，便于维修。风机腔配备大型面板，可将风机组件滑出，方便维护和故障排查。

SAFETY
安全性

The refrigeration system operates with a number of protection means: dry-filter, discharge temperature protector, liquid sight glass, HP and LP switches, phase sequence relay, circuit breaker and contactor etc.

制冷系统配备多种保护装置: 干燥过滤器、排气温度保护器、液镜、高压及低压开关、相序继电器、断路器和接触器等。

LOW NOISE
低噪音

Electrical and compressor section are insulated to reduce noise. The upward discharge of condensing fans carries away effectively the operating noise. And all compressors and fans are mounted on rubber anti-vibration supports for quiet design.

电气及压缩机部分采用隔音处理以降低噪音。冷凝风扇的向上排风有效带走了运行噪音。所有压缩机和风机均安装在橡胶减振支架上，实现静音设计。

FEATURES
特点

CASING
机箱

Panels are made by galvanized steel with polyester powder paint for excellent finish, weatherability and corrosion resistance. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted-textured finish insure less fading when exposed to sunlight. The stainless steel screws are used throughout to further reduce possibility of rusting.

面板采用镀锌钢板制造，并涂有聚酯粉末涂料，具有出色的表面光洁度、耐候性和耐腐蚀性。经过预处理的镀锌钢板能使涂料与钢板更好地结合，从而抵抗腐蚀和锈蚀蔓延。特殊的底漆配方和哑光纹理表面可确保在阳光照射下不易褪色。整机通体采用不锈钢螺钉，进一步降低生锈的可能性。

COMPRESSOR
压缩机

The units use high efficiency, hermetically sealed, compressors, oil return lubrication and rubber vibration damper. The thermal overload cut-out, phase sequence relay and crankcase heater are integrated as the security protection to enhance reliability and performance.

机组采用高效、全封闭式压缩机，配备回油润滑和橡胶减振器。集成热过载切断器、相序继电器和曲轴箱加热器作为安全保护，以提高可靠性和性能。

EXTERNAL THERMAL EXPANSION VALVE
外平衡式热力膨胀阀

Independent thermal expansion valve with external balance offers better refrigerant control and wider load condition.

独立的外平衡热力膨胀阀可提供更好的制冷剂控制和更宽的负荷适应性。

CENTRIFUGAL FAN
离心风机

Belt-drive centrifugal fans of air supply section are designed with forward-curved blades, ac asynchronous induction motors and multi-speed control for maximum efficiency and adequate airflow distribution. Motors are highly efficient inducted, with class B insulation to ensure quiet operation and smooth performance. VFD drive modulating, upgrade plug fan and EC plug fan are possible as option.

送风段的皮带传动离心风机采用前向叶片设计，配备交流异步感应电机和多档调速，以实现最高效率和足够的气流分配。电机高效感应，B 级绝缘，确保运行安静、性能平稳。可选配变频驱动调节、升级型插拔式风机及 EC 插拔式风机。。

CONDENSER FAN
冷凝风机

Condenser fans are direct-driven axial type, air-discharged vertically with a low level noise, which use aluminum blades riveted with corrosion resistant steel spider bracket to allow a statically balanced and smooth operation. All condenser fans are protected by wire guards, and fans motors are secured by permanently lubricated bearings against overload conditions. The condenser fan with optional EC motor.

冷凝风机为直驱轴流式，垂直排风，噪音低，采用铝制叶片与耐腐蚀钢制星形支架铆接，实现静平衡和平稳运行。所有冷凝风机均配有钢丝防护网罩，风机电机采用永久润滑轴承，可防止过载。冷凝风机可选配 EC 电机。

FILTER
过滤器

5 mm thickness washable Nylon filter is used as standard feature. G4 filter is available optionally.

标配 5mm 厚可清洗尼龙过滤器。可选配 G4 过滤器。

ELECTRIC COMPONENTS
电气元件

- Direct-on-line starting contactor for the compressors and condenser fan motor.
- Internal thermal protector for compressor and fan motor.
- Anti-recycling protection (time delay) for compressors through microprocessor.
- Crankcase heater for compressor.
- Control circuit breaker and power circuit breaker.
- Phase sequence relay

- 压缩机和冷凝风机电机的直接启动接触器。
- 压缩机和风机电机内置热保护器。
- 通过微处理器实现的压缩机防频繁启停保护(延时)。
- 压缩机曲轴箱加热器。
- 控制断路器和电源断路器。
- 相序继电器

DEFROST
除霜

Dynamic and alternate defrost function is provided to heat pump rooftop units to ensure efficient operation in winter. Units start defrost cycle when the ambient temperature is below a set temperature and repeat the defrost cycles periodically. The defrost cycle is automatically controlled by outdoor sensor. The timing and duration of defrost can be set up by a combination of timing functions on the control device.

热泵型屋顶机组具备动态交替除霜功能，以确保冬季高效运行。当环境温度低于设定温度时，机组启动除霜循环，并定期重复除霜循环。除霜循环由室外传感器自动控制。除霜的启动时机和持续时间可通过控制设备上的定时功能组合进行设置。

CONTROL
控制

Standard controller provides unit control for heating, cooling and ventilation utilizing input from indoor and outdoor sensors. Quality and reliability are enhanced through the smart control and logic for:

- Anti-short cycle timer prevents the unit from short cycling, considerably improving compressor life
- Optional soft start avoids electrical "spikes" by using staging on fans, compressors and heaters
- Interoperability with Modbus protocol allows to integrate with BMS for outstanding control benefits
- Automatic lock out system on failure and reset by interruption of power supply.
- Automatic defrost
- Compressor lead-lag operation to ensure longer life for the compressors and equal running hours between compressors
- External remote ON/OFF button for remote operation of the unit using external ON/OFF switch or connection to BMS
- High and low pressure safety switch (capsule type, factory Pre-set)
- Remote standard control panel with the same functions as the unit on-board control panel at a distance of 20 m

标准控制器利用室内外传感器输入，为机组的制热、制冷和通风提供控制。通过以下智能控制和逻辑，提高了质量和可靠性：

- 防短循环计时器防止机组频繁启停，显著提高压缩机寿命
- 可选软启动功能通过分级启动风机、压缩机和加热器，避免电气"尖峰"
- 与Modbus协议互通，可与楼宇管理系统（BMS）集成，实现卓越的控制优势
- 故障时自动锁定系统，断电复位。
- 自动除霜
- 压缩机交替运行，确保压缩机寿命更长且运行时间均衡
- 外部远程开/关按钮，可通过外部开关或连接BMS实现机组的远程操作
- 高低压安全开关（膜盒式，工厂预设）
- 远程标准控制面板，在20米距离内具备与机组本地控制面板相同的功能

OPTIONS
可选配置

Heat recovery	Hot water coil	Electronic expansion valve
Fresh air	Electrical heater	EC plug-fan
Conomizer	Gas burner	Emergency switch
Free-cooling	T3 tropical condition	Siemens PLC controller
Explosion proof	Medium and HEPA filter	Carel controller
热回收	热水盘管	电子膨胀阀
新风	电加热器	EC插拔式风机
节能器	燃气燃烧器	紧急开关
自然冷却	T3热带工况	西门子PLC控制器
防爆	中效及HEPA过滤器	卡乐控制器

TECHNICAL PARAMETERS – 1

技术参数 – 1

Serial No.	Name	Model	Air Volume (m^3/h)	Power (Kw)	Static Pressure (Pa)	Noise (dB)	Overall Dimensions (Length× Width× Height) (mm)	Air Inlet (mm)	Air Outlet (mm)	Indoor Unit Heating Capacity (KW)	Indoor Unit Heating Capacity (KW)	Control System	Outdoor Unit	Outdoor Unit Cooling Capacity (KW)	Outdoor Unit Heating Capacity (KW)
序号	名称	型号	风量 (m^3/h)	功率 (Kw)	余压 (Pa)	噪音 (dB)	外形尺寸 长宽高 (mm)	进风口 (mm)	出风口 (mm)	室内机制热量 (KW)	室内机制冷量 (KW)	控制系统	室外机	室外机制冷量 (KW)	室外机制热量 (KW)
1	Direct Expansion Combined Unit	RNZK–15R	1500	1.8	400	50	2600 1000 900	600* 400	400* 300	9.00	7.60	Single–chip Microcomputer + 7–inch Large Screen	3 HP	9.00	7.60
1	直彭式组合式机组	RNZK–15R	1500	1.8	400	50	2600 1000 900	600* 400	400* 300	9.00	7.60	单片机 +7 英寸大屏	3 匹	9.00	7.60
2	Direct Expansion Combined Unit	RNZK–20R	2000	1.8	400	50	2600 1000 900	600* 400	400* 300	15.00	13.50	Single–chip Microcomputer + 7–inch Large Screen	5 HP	15.00	13.50
2	直彭式组合式机组	RNZK–20R	2000	1.8	400	50	2600 1000 900	600* 400	400* 300	15.00	13.50	单片机 +7 英寸大屏	5 匹	15.00	13.50
3	Direct Expansion Combined Unit	RNZK–30R	3000	2.2	420	55	2800 1000 1000	800* 400	400* 300	21.00	19.60	Single–chip Microcomputer + 7–inch Large Screen	7 HP	21.00	19.60
3	直彭式组合式机组	RNZK–30R	3000	2.2	420	55	2800 1000 1000	800* 400	400* 300	21.00	19.60	单片机 +7 英寸大屏	7 匹	21.00	19.60
4	Direct Expansion Combined Unit	RNZK–40R	4000	2.2	450	56	2800 1000 1000	800* 400	400* 300	24.00	22.80	Single–chip Microcomputer + 7–inch Large Screen	8 HP	24.00	22.80
4	直彭式组合式机组	RNZK–40R	4000	2.2	450	56	2800 1000 1000	800* 400	400* 300	24.00	22.80	单片机 +7 英寸大屏	8 匹	24.00	22.80

TECHNICAL PARAMETERS – 2

技术参数 – 2

Serial No.	Name	Model	Air Volume (m^3/h)	Power (Kw)	Static Pressure (Pa)	Noise (dB)	Overall Dimensions (Length× Width× Height) (mm)	Air Inlet (mm)	Air Outlet (mm)	Indoor Unit Heating Capacity (KW)	Indoor Unit Heating Capacity (KW)	Control System	Outdoor Unit	Outdoor Unit Cooling Capacity (KW)	Outdoor Unit Heating Capacity (KW)
序号	名称	型号	风量 (m^3/h)	功率 (Kw)	余压 (Pa)	噪音 (dB)	外形尺寸 长宽高 (mm)	进风口 (mm)	出风口 (mm)	室内机制热量 (KW)	室内机制冷量 (KW)	控制系统	室外机	室外机制冷量 (KW)	室外机制热量 (KW)
5	Direct Expansion Combined Unit	RNZK–50R	5000	3	500	57	3200 1100 1100	800* 500	500* 400	30.00	28.00	Single–chip Microcomputer + 7–inch Large Screen	10 HP	30.00	28.00
5	直彭式组合式机组	RNZK–50R	5000	3	500	57	3200 1100 1100	800* 500	500* 400	30.00	28.00	单片机 +7 英寸大屏	10 匹	30.00	28.00
6	Direct Expansion Combined Unit	RNZK–60R	6000	3	500	59	3400 1150 1200	800* 500	500* 400	36.00	34.60	Single–chip Microcomputer + 7–inch Large Screen	12 HP	36.00	34.60
6	直彭式组合式机组	RNZK–60R	6000	3	500	59	3400 1150 1200	800* 500	500* 400	36.00	34.60	单片机 +7 英寸大屏	12 匹	36.00	34.60
7	Direct Expansion Combined Unit	RNZK–70R	7000	3	520	60	3600 1200 1300	800* 630	500* 400	45.00	44.50	Single–chip Microcomputer + 7–inch Large Screen	15 HP	45.00	44.50
7	直彭式组合式机组	RNZK–70R	7000	3	520	60	3600 1200 1300	800* 630	500* 400	45.00	44.50	单片机 +7 英寸大屏	15 匹	45.00	44.50
8	Direct Expansion Combined Unit	RNZK–80R	8000	4	520	60	3600 1200 1300	800* 630	500* 400	60.00	58.80	Single–chip Microcomputer + 7–inch Large Screen	20 HP	60.00	58.80
8	直彭式组合式机组	RNZK–80R	8000	4	520	60	3600 1200 1300	800* 630	500* 400	60.00	58.80	单片机 +7 英寸大屏	20 匹	60.00	58.80

TECHNICAL PARAMETERS – 3

技术参数 – 3

Serial No.	Name	Model	Air Volume (m^3/h)	Power (Kw)	Static Pressure (Pa)	Noise (dB)	Overall Dimensions (Length× Width× Height) (mm)	Air Inlet (mm)	Air Outlet (mm)	Indoor Unit Heating Capacity (KW)	Indoor Unit Heating Capacity (KW)	Control System	Outdoor Unit	Outdoor Unit Cooling Capacity (KW)	Outdoor Unit Heating Capacity (KW)
序号	名称	型号	风量 (m^3/h)	功率 (Kw)	余压 (Pa)	噪音 (dB)	外形尺寸 长宽高 (mm)	进风口 (mm)	出风口 (mm)	室内 机制热量 (KW)	室内 机制冷量 (KW)	控制系统	室外机	室外 机制冷量 (KW)	室外 机制热量 (KW)
9	Direct Expansion Combined Unit	RNZK–100R	10000	7.5	600	62	3600 1300 1300	1000* 630	550* 400	75.00	73.50	Single–chip Microcomputer + 7–inch Large Screen	25 HP	75.00	73.50
9	直彭式组合式机组	RNZK–100R	10000	7.5	600	62	3600 1300 1300	1000* 630	550* 400	75.00	73.50	单片机 +7 英寸大屏	25 匹	75.00	73.50
10	Direct Expansion Combined Unit	RNZK–120R	12000	11	620	62	3800 1400 1300	1000* 630	600* 400	90.00	87.20	Single–chip Microcomputer + 7–inch Large Screen	30 HP	90.00	87.20
10	直彭式组合式机组	RNZK–120R	12000	11	620	62	3800 1400 1300	1000* 630	600* 400	90.00	87.20	单片机 +7 英寸大屏	30 匹	90.00	87.20
11	Direct Expansion Combined Unit	RNZK–150R	15000	11	620	64	4000 1600 1400	1200* 630	630* 500	120.00	115.60	Single–chip Microcomputer + 7–inch Large Screen	40 HP	120.00	115.60
11	直彭式组合式机组	RNZK–150R	15000	11	620	64	4000 1600 1400	1200* 630	630* 500	120.00	115.60	单片机 +7 英寸大屏	40 匹	120.00	115.60
12	Direct Expansion Combined Unit	RNZK–200R	20000	15	700	68	4200 1800 1400	1200* 800	800* 500	150.00	138.90	Single–chip Microcomputer + 7–inch Large Screen	50 HP	150.00	138.90
12	直彭式组合式机组	RNZK–200R	20000	15	700	68	4200 1800 1400	1200* 800	800* 500	150.00	138.90	单片机 +7 英寸大屏	50 匹	150.00	138.90

OPTIONAL FUNCTION
可选功能

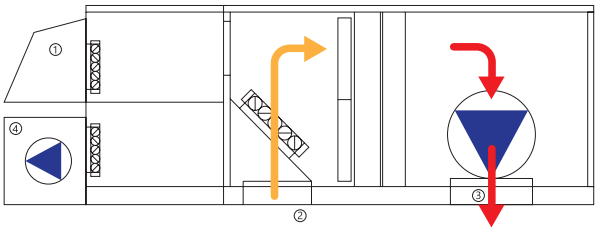
ECONOMIZER AND FREE COOLING
节能器与自然冷却

It is one of the most important features of this rooftop as it maximise seasonal efficiency by reducing the use of thermodynamic cooling in mid season. Thermodynamic cooling can be replaced by Free Cooling when outdoor temperature is below the building set point saving up to 15% on annual energy consumption.

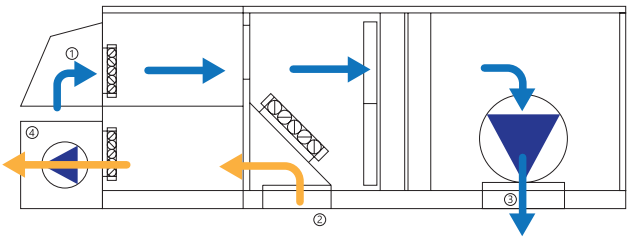
Rooftop units are supplied with economizer and fresh air hood to improve comfort through better fresh air management and allow energy savings with free cooling.

这是该屋顶机组最重要的特性之一，通过在过渡季节减少热力制冷的使用，最大限度地提高季节能效。当室外温度低于建筑设定值时，可用自然冷却替代热力制冷，每年可节省高达 15% 的能耗。

屋顶机组配备节能器和新风罩，通过更好的新风管理提升舒适度，并利用自然冷却实现节能。



Cooling/heating mode without fresh air
无新风制冷 / 制热模式



Free-cooling mode
自然冷却模式

① fresh air 新风
② return air 回风
③ supply air 送风
④ exhaust air 排风

EXHAUST AIR
排风

- Gravity exhaust damper

Gravity exhaust damper Installed with economizer assembly, gravity exhaust damper relief pressure when outside air is being introduced in the system. It is a cheap and smart way to avoid over pressure in a building.

- Power exhaust fans

Installed with economizer assembly, it provides exhaust air pressure relief when high levels of fresh air are being introduced in the system.

Interlocked to run when return air dampers are being closed and supply air blower is in operation. The extraction fans run when outdoor air dampers are at least 50% open (adjustable). It is also overload protected. A gravity exhaust damper is supplied with this option to prevent air from entering the unit during shutdown. The power exhaust fans have been size to exhaust 50% of the nominal air flow of the unit.

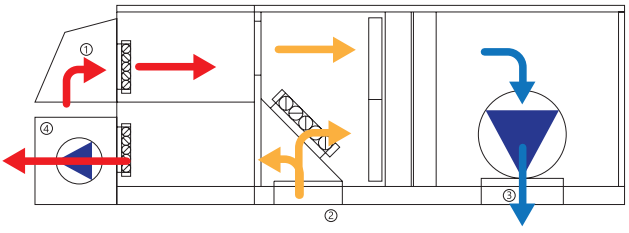
- 重力式排风风门

重力式排风风门与节能器组件一同安装，当室外空气引入系统时，重力式排风风门可释放压力。这是一种避免建筑内出现超压的廉价且巧妙的方法。

- 动力排风机

与节能器组件一同安装，当大量新风引入系统时，提供排风压力释放。

当回风风门关闭且送风风机运行时，动力排风机联锁启动。当室外空气风门开启至少50%（可调）时，排风机运行。排风机还配备过载保护。此选配件还配有一个重力式排风风门，以防止停机时空气进入机组。动力排风机的排风量按机组额定风量的50%设计。



Cooling/heating mode without fresh air
无新风制冷 / 制热模式

① fresh air 新风
② return air 回风
③ supply air 送风
④ exhaust air 排风

HEAT RECOVERY
热回收

Improvement of indoor air quality is one of the major missions of air conditioner equipment. To introduce the ambient fresh air into the building is an ecological and effective solution which is mandatory to control indoor CO2 level and comfort. Amrita air to air HR system offers a parfait energy recovery solution by absorbing heat from the exhaust air in order to pre–treat the fresh air to achieve at the same time:

- A high performance of the improvement of indoor air quality and comfort.
- A economical operation for remarkable energy saving.

Two types of HR equipment are available according to the project requirement: Plate heat exchanger or Wheel heat exchanger. Although the use of the HR system maybe increase some of energy consumption of fans, but the benefit of energy saving will be certainty greater than that. The test data prove that the performance of heat recovery can be up to 70% for recovery efficiency and 100% for volume of exhaust air.

The HR system is now widely applied in residential, commercial, industrial applications. Practically, applications which demand the higher quality air and fresh air rate are strongly recommended.

改善室内空气质量是空调设备的主要任务之一。将室外新风引入建筑是一种生态且有效的解决方案，对于控制室内二氧化碳水平和舒适度是必要的。阿姆塔空气对空气热回收系统通过从排风中吸收热量来预处理新风，从而同时实现以下目标：

- 高效提升室内空气质量和舒适度。
- 经济运行，显著节能。

根据项目要求，可提供两种类型的热回收设备：板式换热器或转轮式换热器。虽然使用热回收系统可能会增加风机的部分能耗，但节能的收益肯定更大。测试数据证明，热回收性能可实现高达 70% 的回收效率，以及 100% 的排风量。

目前，热回收系统已广泛应用于住宅、商业和工业领域。实际上，强烈推荐用于对空气质量和新风量要求较高的应用场合。

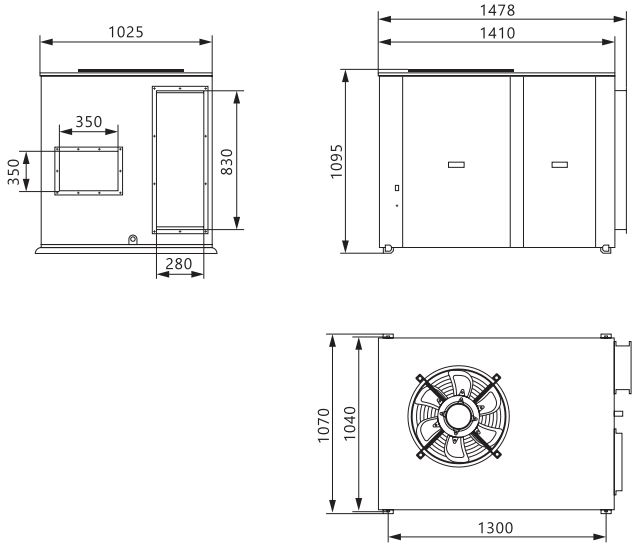
HEATING POSSIBILITIES
供暖可能性

ELECTRIC HEATER
电加热器

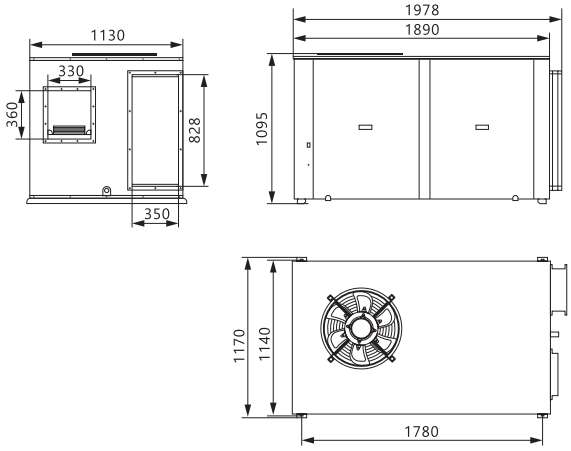
The electric heater comprises of shielded resistance heaters, which are smooth stainless steel tubes 6 W/cm^2 capacity. High temperature limit control offers overload protection and is set to 90˚C and located at less than 150mm after electric heaters. This is provided as a standard feature on the electric heater, with the electric power supply cables made of reticulated silicon rubber, resistant to temperatures up to 200˚C. For any rooftop unit size, three sizes of electric heater are available, S (standard), M (Medium) and H (high).

电加热器由铠装电阻加热器组成，采用光滑不锈钢管，容量为 6 W/cm^2。高温限位控制提供过载保护，设定为 90˚C，并位于电加热器后方 150mm 以内。这是电加热器的标准配置，电源电缆采用网状硅橡胶制成，耐温高达 200˚C。对于任何尺寸的屋顶机组，均可提供三种规格的电加热器：S（标准）、M（中）和 H（高）。

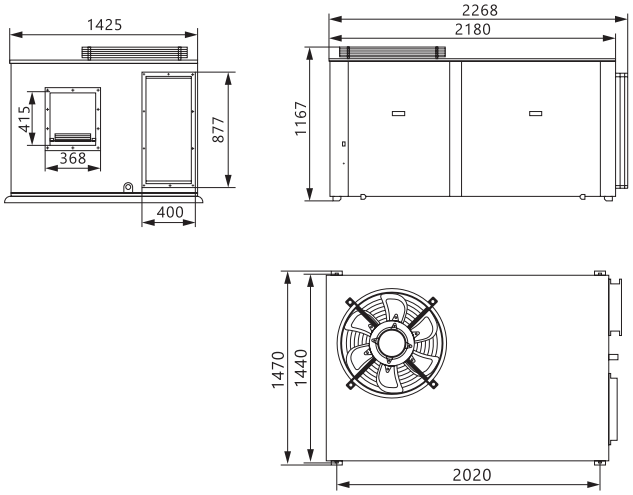
RNZK-15R-30R



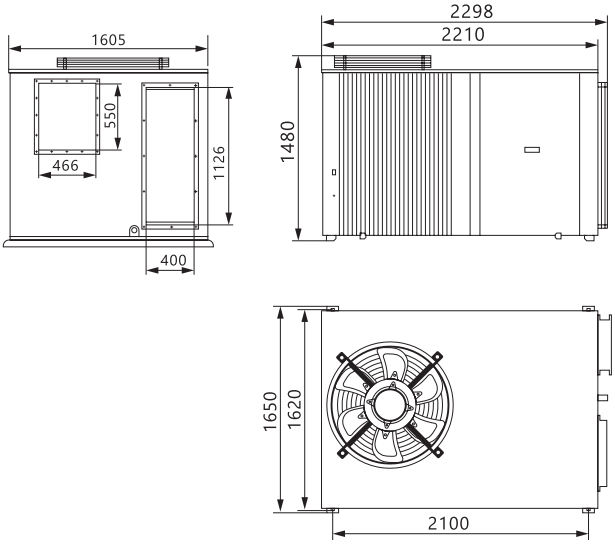
RNZK-40R-60R



RNZK-70R-100R



RNZK-120R-200R



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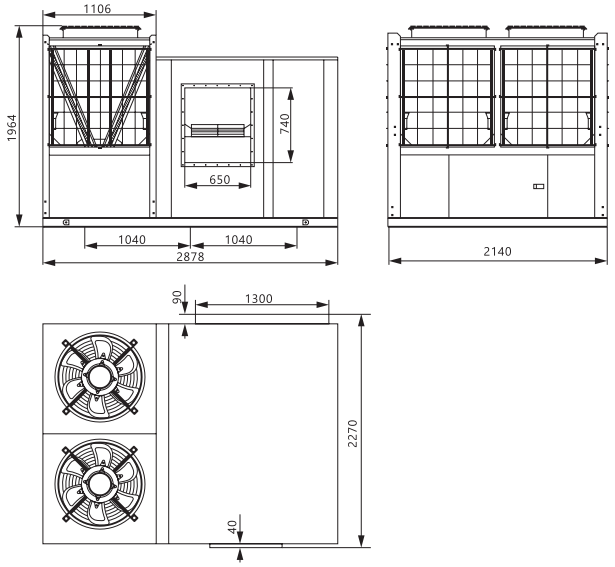

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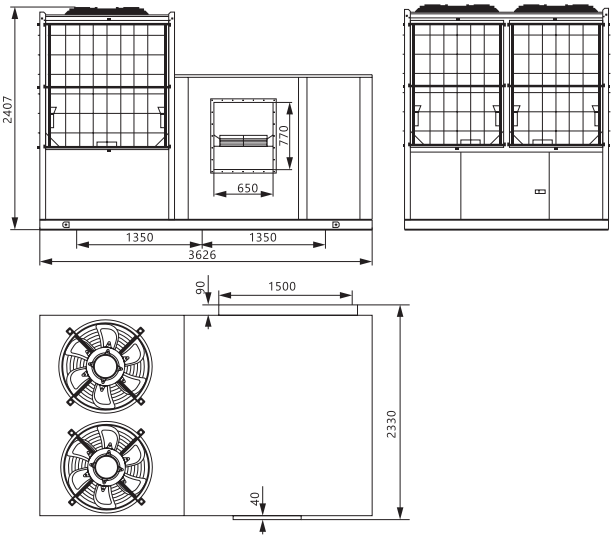

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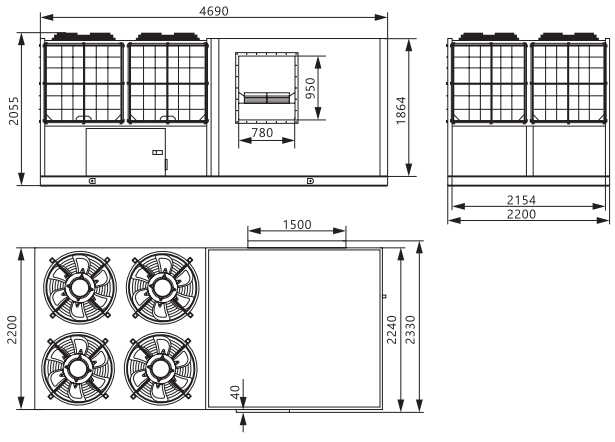

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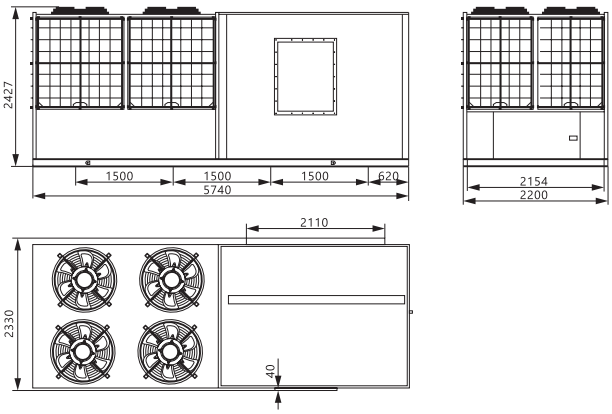


INSTALLATION, OPERATION AND MAINTENANCE
安装、操作与维护

INSTALLATION
安装

Equipment has been designed for quick and easy installation.

设备专为快速简便的安装而设计。

UNIT LOCATION
机组位置

The electric unit is designed only for outdoor installations. Choosing the location of the unit should be based on minimizing the length of the supply ducts. Consideration should also be given to availability, service access, noise, and shade. The unit installation shall avoid areas where condensate drainage may cause problems.

该电气机组仅设计用于室外安装。选择机组位置时应以尽量缩短送风管道的长度为原则。还应考虑可维护性、检修通道、噪音及遮荫等因素。机组安装应避开冷凝水排水可能造成问题的区域。

SETTING THE CURB
安装底座基础

Make openings in roof decking large enough, to allow for duct penetration and work space only. Do not make openings large than necessary. Set the curb to coincide with the openings. Make sure the curb is level. Unit must be level in both horizontal axes to support the unit and reduce noise and vibration.

在屋顶板上的开孔应足够大，仅用于管道穿过和提供工作空间。不要开过大的孔。将底座基础与开孔对齐。确保底座基础水平。机组必须在两个水平轴方向上保持水平，以支撑机组并减少噪音和振动。

ELECTRICAL
电气

All electrical work must be carried out by a qualified and licensed electrician. Then installation must comply with the current relevant standards wiring rules and local authority requirements. Wire sizing is the responsibility of the installer, as it depends on the conditions and regulations applicable to each installation site. Refer to the electrical drawing and specification of the unit for the electrical data. The electrical installation requirements are generally as follows:

- The air–conditioning unit shall be supplied directly from a distribution board through a mains lockable isolating switch.
- Pre–punched holed have been provided in the unit casing for the isolating switch. Do not drill into the cabinet as piles may be located behind.

所有电气工作必须由合格且有执照的电工完成。安装必须符合现行相关标准的布线规则及当地主管部门的要求。导线尺寸的选择由安装人员负责，因为这取决于每个安装现场的具体条件和规定。有关电气数据，请参阅机组的电气图纸和规格书。电气安装要求通常如下：

- 空调机组应通过一个带锁定的主电源隔离开关直接从配电箱供电。
- 机组外壳上已预留用于安装隔离开关的预冲孔。请勿在机柜上钻孔，因为后方可能有管线。

OPERATION
操作

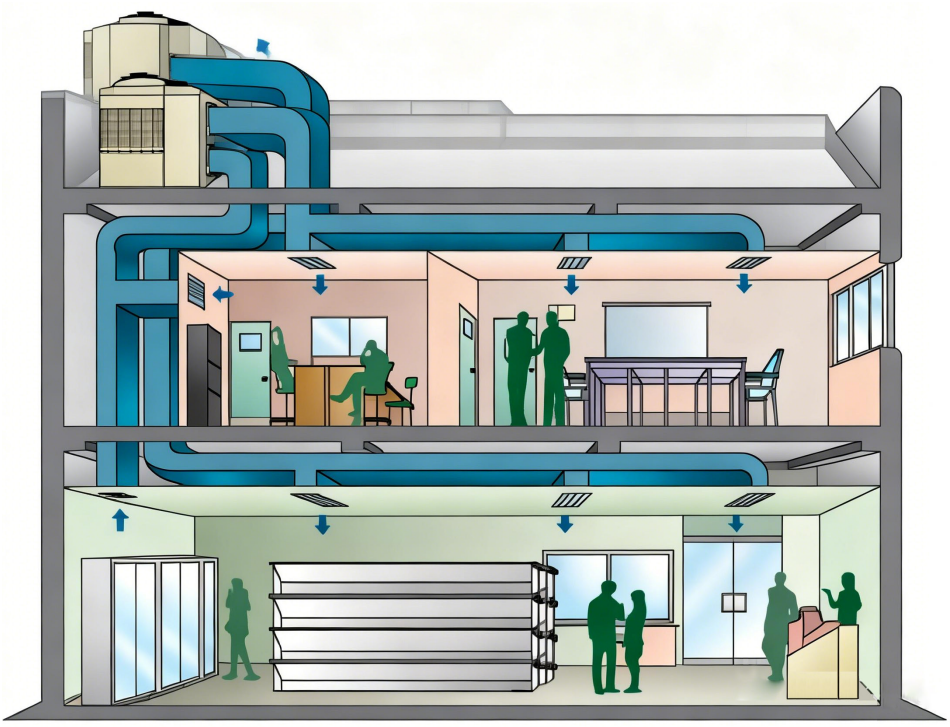
Unit operations should be controlled with thermostat, or unit controller, never at the main power supply, except for servicing, emergency, or complete shutdown of the unit.

机组的运行应通过恒温器或机组控制器进行控制，切勿在主电源处进行控制，除非进行维修、紧急情况或机组完全停机。

MAINTENANCE
维护

At least once each year, a trained, qualified service technician should check out the unit. Fans, evaporator coils, and filters should be inspected at least monthly.

每年至少一次，由经过培训的合格维修技术人员对机组进行检查。风机、蒸发器盘管和过滤器应至少每月检查一次。



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