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VICOT 奇威特

VICOT SOLAR TECHNOLOGY CO.,LTD.

HEATING & DHW

Gas Fired Absorption Heat Pump (GAP)

ABOUT US

At the beginning of the establishment of Vicot, the founders reached a consensus on the sense of mission and honor: for individuals, they are committed to living a meaningful life; for enterprise, we are committed to creating products and services that are beneficial to the society, so as to benefit employees and the society. Vicot has gradually grown up in the market and got lots of supports from friends and customers, based on the pursuit of life meaning and enterprise value. With those precious supports, we deeply understand a person or a team who is striving for dream is not alone in the process of adventure. Now, the gas/solar air source absorption heat pump(GAP) and solar boiler, as Vicot R&D achievement, being invested with many years of intelligence, vigor and capital input, perfectly express Vicot's pursuit of value.

Gas and/or solar fired air source absorption heat pump (GAP) represents the most advanced productivity, breaks the limit of solar and air source energy utilization, combines three types of clean energy in the commercial and industrial application at the same time, extends the application field of clean energy in a milestone way and proves Vicot's capability of creating industry benchmark with a number of scientific and technical patent achievements. GAP also represents the growing influence of new energy on human life. The earth is ours and also belongs to the next generation. New energy will surely become the mainstream energy source with unparalleled environmental protection advantages, serving more people and more regions, benefiting the earth's environment.

There were many difficulties in the process of the R&D and manufacturing of new products, but we remained in firm confidence. We are sure that we will win a better tomorrow no matter how painful the process is, because we have the industry technology and production experience accumulated for many years and the pursuit of product value. Now, the epoch-making product is right here, which symbolizes a broader market, more harmonious relationship between human and nature and more magnificent behavior. These new products in the field of new energy also certainly bring the true sense of honor to their innovators, manufacturers, distributors and users. We are striving for a better earth!

MISSION

ONE DREAM FOR STAFF
ONE TEAM FOR SOCIETY

VISION

THE SAME BREATH
ENERGY SAVING TOGETHER

HONOR & CERTIFICATE

2010: Scientific Technology Achievement verification certificate awarded by Shandong Provincial Science & Technology Department.

2011: National Energy Science Progress 3rd Prize awarded by China National Energy Administration.

2012: Vicot Cooling & Heating Source System assessment report issued by Construction Environment & Equipment Branch of China Engineering and Consulting Association, all experts have the conclusion that Vicot's research has technology creativity with obvious benefit of energy saving and environment protection, is a significant breakthrough and reaches international leading level.

2013: Shandong Construction Technology Creation 1st Prize.

2015: Huaxia Construction Science and Technology Prize

2015: National Construction Committee Science and Technology Progress Prize.

2016: Shandong High-tech Enterprise

2017: Science Technology Progress 2nd Prize

2017: Shandong Invisible Champion Enterprise

2018: Chinese Association of Refrigeration Evaluation: GAP has substantial innovation, the technology has reached the international leading level

2019: Chinese Association of Refrigeration Science and Technology 2nd Prize

2019: Shandong Gazelle Enterprise

2019: Shandong "Professional, Fine, Specialized, Innovative" enterprise

Vicot has more than 200 of patents approved or in the process of approval.

GAP PATENT LIST

Description	Patent No.	Description	Patent No.
A solar energy air source absorption heat pump device	ZL 2012 1 0361473.5	Absorption unit strong solution bypass defrosting device	ZL 2017 2 1500006.0
A utility model relates to a combined heating measurement and control optimization system and control method	ZL 2012 1 0468678.3	A device for solving systemic problems of absorption unit punch tower	ZL 2017 2 1500091.0
Combustion chamber and generator	ZL 2015 1 0788823.X	Isolation heat exchanger	ZL 2017 2 1500092.5
Threaded tube absorber and its manufacturing methods and equipment	ZL 2016 1 0062176.9	High pressure throttle flow adjust device	ZL 2017 2 1637901.4
A heating recovery device for absorption unit	ZL 2016 1 0018826.X	Absorber with steel band winding structure	ZL 2017 2 1637804.8
Control method of working medium concentration for GAP	ZL 2016 1 0024760.5	Shunt device	ZL 2017 2 1102691.1
Combustion chamber base and burner	ZL 2015 1 0742380.0	Isolation layer for gas fired absorption heat pump	ZL 2017 2 1102748.8
Hot water supply circuit with pressure control method and device	ZL 2015 1 0744259.1	A Hollow tube ginning machine	ZL 2016 2 0090439.2
A circulation control system for natural gas combustion	ZL 2019 2 1856406.4	Heat recovery device of absorption unit	ZL 2016 2 0026849.0
A gas-liquid separator	ZL 2019 2 2462968.7	Direct fired high efficiency generator	ZL 2015 2 1056377.5
A reinforced flame retardant rod	ZL 2019 2 0943089.3	Double energy fired absorption air condition unit	ZL 2016 2 0024695.1
A flow test device	ZL 2019 2 1874743.6	Threaded pipe absorber	ZL 2016 2 0090436.9
An ASHP with an EVA capable of extending defrosting circle	ZL 2019 2 1167551.1	Combustion chamber and generator	ZL 2015 2 0915187.8
An ASHP with an EVA capable of delaying frosting	ZL 2019 2 1167515.5	Orifice plate component	ZL 2015 2 0909833.X
Full premixed automatic combustion system	ZL 2018 2 1422720.7	Combustion chamber base and generator	ZL 2015 2 0874356.8
Double ball check valve for solution pumps	ZL 2018 2 1424518.8	Heating system water circuit	ZL 2015 2 0874295.5
Heat exchanger and fresh air preheating system	ZL 2018 2 1425143.7	Rectifier	ZL 2015 2 0846571.7
Solution pump with safety valve	ZL 2018 2 1425340.0	Generator, water storage device and absorption gas heating equipment	ZL 2015 2 0846616.0
A diaphragm plate & solution pump containing the diaphragm plate	ZL 2018 2 1425146.0	Shunt pipe and absorber	ZL 2015 2 0848297.7
Flow adjust device for absorption heat pump	ZL 2018 2 1424517.3	A modular absorption air conditioning unit	ZL 2013 2 0055417.9
Safety valve	ZL 2018 2 1428932.6	A absorption heat pump for auxiliary defrosting	ZL 2013 2 0055451.6
Appearance patent: air source heat pump	ZL 2018 3 0396297.7	An integral sheet metal frame box for air conditioning unit	ZL 2013 2 0054212.9
Solar direct drive absorption air conditioning system	ZL 2012 2 0496132.4	Solar direct drive ammonia-water absorption ASHP air conditioning system	ZL 2012 2 0597315.5

SHORTNESS

Efficiency is only around 95%

GAS BOILER

SHORTNESS

- Driven by secondary energy, electricity, of which the cost is high and demand for electricity is large
- Not able to start normally when ambient temperature is low
- Adopts HFC refrigerant harmful to environment

ELECTRIC COMPRESSOR TYPE AIR SOURCE HEAT PUMP

ADVANTAGE

Driven by primary clean energy natural gas, of which the cost is lower

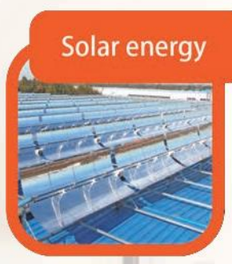
ADVANTAGE

Adopts heat pump technology, gets air source energy freely

Natural gas + Air source energy

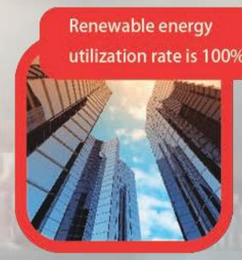
Perfect combination of the advantages of two heating technologies

GAP + Solar energy



Renewable energy input: solar energy 50%

Renewable energy utilization rate is 100%



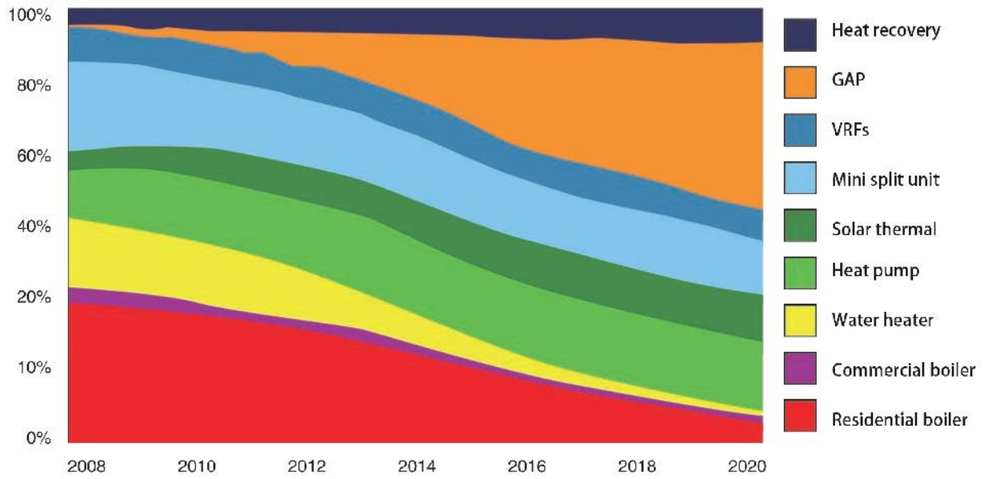
Total energy 100%

Renewable energy input: air source energy 50%

VICOT GAP efficiency and the application of renewable energy

MARKET ANALYSIS

Vicot chose to develop the absorption heat pump technology in HVAC market at the beginning of 21st century. This choice is based on the following data and forecast of the HVAC market in next 10 years.



Absorption technology efficiency development milestone

1860
French engineer Ferdin and P. E. Carre made the 1st R717 absorption cooling unit that works intermittently.

1920
C. Munters and B. Von Platen made R717 absorption refrigerator.

1969
The small size R717 absorption chiller issued to market with efficiency less than 30%, R717 absorption technology developed slow while compressive air conditioner entered the market with higher efficiency.

1998
High efficiency gas fired R717 absorption chiller was born, its efficiency was increased to 62%

2008
Vicot started to develop the high efficiency gas fired R717 absorption chiller, its efficiency arrived 80%.

2009
Vicot solar/gas R717 absorption chiller with efficiency of 85% entered the market.

2011
Vicot solar/gas R717 absorption heat pump entered the market.

2012
Vicot gas fired R717 absorption heat pump with efficiency of 180% was launched into market.

2017
Vicot "Frost Free" heat pump was launched into market.

2018
Vicot gas fired absorption heat pump with efficiency of 192% was launched into market.

2020
No spacing installation units, V85, V105, V120, V140, V160, V180 , were launched into market.
The land occupation area of the new version is only 1/3 of the old one.

HEATING & DHW

Gas Fired Absorption Heat Pump

VICOT GAP

Utilization of Natural Gas and Air Source Energy Good for Environmental Protection

- Each GAP unit can annually save 55.43 tons of standard coal, reduces 136.92 tons of CO_2 emission, in equivalence of planting 19,528 trees.
- Vicot produces 50,000 sets of GAP, which can save 2,771,700 tons of standard coal, reduce 6,846,100 tons of CO_2 emission, in equivalence of planting 976,400,000 trees with area of 1,365,595 hectare.
- SO_2 emission concentration 9 mg/m^3, NO_x emission concentration 27 mg/m^3, particle concentration 2.3 mg/m^3, smoke blackness <1 Ringelmann, the emissions are only 45% of gas fired boiler.

检 验 报 告

TEST REPORT

NCSA-2018A-0104

产品名称 Name of Product 燃气吸收式热泵机组

委托单位 Client 山东奇威特太阳能科技有限公司

生产单位 Manufacturer 山东奇威特太阳能科技有限公司

检验类别 Test Category 委托检验

国家空调设备质量监督检验中心

National Center of Quality Supervision and Inspection and Testing for Air Conditioning Equipment

国家空调设备质量监督检验中心

检 验 报 告

报告编号：NCSA-2018A-0104 共 6 页第 1 页

样品编号	2018A-0104		
产品名称	燃气吸收式热泵机组	型号规格	YGAB060
		商 标	YICOT
委托单位	山东奇威特太阳能科技有限公司	出厂编号	20180701
		生产日期	2018 年 07 月 20 日
生产单位	山东奇威特太阳能科技有限公司	送样数量	1 台
		送样日期	2018 年 08 月 09 日
检验类别	委托检验	检验日期	2018 年 08 月 09 日~10 日
委托单位地址	山东省德州市经济技术开发区红都路		
检验依据	JB/T 4330-74《燃气吸收式热泵机组检测方案》		
检验用仪器、装置	温湿度计，气体罗茨流量计，电磁流量计，功率计，热电偶		
检验项目	制热量，制热性能系数 COP。		
检验结论	依据 JB/T 4330-74《燃气吸收式热泵机组检测方案》进行检验，共检验 2 项，检验结果详见报告第 4~5 页。		

检验单位公章

签发日期 2018 年 8 月 23 日

批准： 审核： 主检：

国家空调设备质量监督检验中心

检 验 报 告

报告编号：NCSA-2018A-0104 共 6 页第 4 页

样品编号 2018A-0104

检 验 结 果

序号	检验项目		检验结果
1	制热量（W）	工况 1	60305
		工况 2	62337
		工况 3	57408
		工况 4	54998
		工况 5	52398
2	制热性能系数（COP）（W/W）	工况 1	1.92
		工况 2	1.68
		工况 3	1.52
		工况 4	1.44
		工况 5	1.34
备 注		测试工况为： 工况 1：环境干球温度 7±1℃，热水出水水温 41±0.3℃； 工况 2：环境干球温度 0±1℃，热水出水水温 41±0.3℃； 工况 3：环境干球温度-6±1℃，热水出水水温 41±0.3℃； 工况 4：环境干球温度-12±1℃，热水出水水温 41±0.3℃； 工况 5：环境干球温度-20±1℃，热水出水水温 41±0.3℃。	

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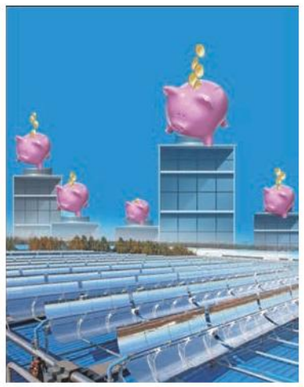
VICOT GAP CHARACTERISTICS



LOW INVESTMENT

- **Durable in low ambient temperature, less capacity attenuation**
  VICOT GAP can operate in - 30 °C, less capacity attenuation, high output capacity, the total equipment quantity is less for same load and investment is less.
- **Frost free, no attenuation**
  VICOT GAP adopts frost free technology, there is almost no frost in the most severe condition of 0 °C 95%. No frost attenuation and the total equipment quantity is less for same load and investment is less.
- **No secondary network**
  It can directly installed on the roof of the building for heating, no secondary network is required and low investment.
- **Modular combination, stepless energy adjustment**
  Single unit or multiple units can be applied, it effectively reduces investment.

LOW OPERATION COST

- Uses cheaper primary energy;
- Uses free air source energy, COP up to 1.92;
- GAP can be installed on the roof of the building for heating, no heat loss of large scale heating network and secondary network;
- GAP adopts frost free and low ambient durable technology, its capacity is improved to against low temp. and high humidity ambient, the natural gas consumption is dramatically reduced;
- GAP modular combination, stepless energy regulation, the unit number can be adjusted according to room heating load with stepless energy regulation, avoids the waste of heat.

LOW EMISSION

- GAP adopts heat pump principle, natural gas consumption amont is only about 45% of conventional boiler, and emission is reduced by 55%.
- GAP adopts advanced premixing combustion technology, the nitrogen oxide emission is in international leading level.

GAP EMISSION AMOUNT

Unit: mg/m³

Emission description	National boiler standard	National emission standard of gas turbine power plant	Emission standard of gas boiler in Beijing	GAP emission
SO_2 emission concentration	50	35	10	9
NO_x emission concentration	150	50	30	27
Particle concentration	20	5	5	2.3
Smoke blackness	≤1	≤1	≤1	<1

Reference standard:

GB13271-2014 Newly built boiler requirement in boiler emission standard
GB13223-2011 Coal fired power plant emission standard
DB11/139-2015 Emission standard of boiler in Beijing

检 测 报 告

SAFE FROM INVESTMENT RISK

- Vicot GAP can be installed in steps after the building is completed, which can effectively increase the customers' capacity against investment risk and reduce capital cost.

SAFE FROM OCCUPANCY INSTABILITY

- Occupancy instability is out of control of heating supply company, it is a business killer.
- VICOT GAP can work by a single unit or multiple ones, with stepless capacity adjustment, which fundamentally improves the heating supply company's capacity against occupancy instability, converts "out of control" into "under control" and greatly increases stability of making profit.

HEATING & DHW

Gas Fired Absorption Heat Pump

PARAMETER

Technical parameters / Model		Unit	V85	V105	V120	V140
Nominal heating capacity(1)		kW	85	105	120	140
Water flow rate		m³/h	⩾6	⩾6	⩾6	⩾6
Water side pressure drop		kPa	⩾80	⩾80	⩾80	⩾80
Minimum water inlet temp.		℃	9			
Maximum water outlet temp.		℃	60			
Ambient temp.	Max. temp.	℃	20			
	Min. temp.	℃	-30			
Rated thermal input		kW	41.85	60.45	74.4	93
Thermal input adjustment range		kW	16.5-41.85	16.5-60.45	16.5-74.4	16.5-93
Rated natural gas consumption		m³/h	4.5	6.5	8	10
Gas consumption adjustment range		m³/h	1.8-4.5	1.8-6.5	1.8-8	1.8-10
COP(2)			2			
Power supply			380V/3Ph/50Hz			
Power input		kW	1.55	1.75	1.75	1.75
Unit weight		kg	1390	1490	1490	1490
Noise		dB(A)	54			
Pipe size	Water pipe (inner threaded)	In	Rc1 1/4 (DN32)			
	Gas pipe	In	Rc1 (DN25)			
Unit dimension	Length	mm	2380	2380	2380	2380
	Width	mm	1380	1380	1380	1380
	Height	mm	2148	2148	2148	2148
Water side pressure		MPa	⩽1.6			

Notes:

1. Nominal heating working condition: DB: 15℃, water outlet temperature 41 ℃; there will be certain change of heating capacity in diffierent ambient temperature
2. Low calorific value of natural gas is 33.5 MJ/Nm³;
3. Test condition: natural gas static pressure 2.5 kPa;
4. The noise value is the average value in 5 meters away from the unit;
5. It can be modular combined up to 16 sets

The specification is subject to the value in rating label, and no prior notice before any change.

REFERENCE PROJECTS

REMOTE MONITOR, INTELLIGENT HEATING

- Each GAP has intelligent CPU, the GAP operation status can be monitored through internet in Vicot headquarter;
- The unit operation can be set via remote control, the operation cost can be maintained in economic way;
- The unit operation status can be viewed via remote control;
- Remote system has automatic error alarm function, Vicot will solve the error through remote control network when there is error, or send our aftersales team to site for maintenance, and the customer will be worry free for operation.
- The unit self-diagnosis function can be controlled and unit will have self-diagnosis after operation of certain period and adjust the problem occurs during operation.

REFERENCE PROJECTS

★ Xianfeng community, Beijing

- Building area: 34500 m²
- Terminal type: Floor heating
- GAP nos.: 24 sets
- Heat source: GAP

Operation analysis:

The GAP system started in 2017 and switched off in the end of heating season in 2020, natural gas consumption is 4.9m³/m² for first heating season , 4.1m³/m² for second heating season, is 4.44m³/m² for third heating season(the heating period is 135 days). And the room temperature was kept above 24℃ according to the temperature sensor.

REFERENCE PROJECTS

★ Dongcheng International community, Shijiazhuang

- Building area:320,000 ㎡
- Terminal type: Radiater + Floor heating
- GAP nos.: 32 sets
- Heat source : GAP + gas boiler

REFERENCE PROJECTS

★ Dawanggu Project , Tianjin

- Building area： 300,000 ㎡
- Terminal pipe: Radiator+Floor heating
- GAP nos. :80 sets
- Heat source: GAP

REFERENCE PROJECTS

★ Xianghejiayuan Community

- Building area: 28,000m²
- Actual payment area :10,836m²
- Terminal type: Floor heating
- Heat source: GAP
- GAP nos: 16 sets

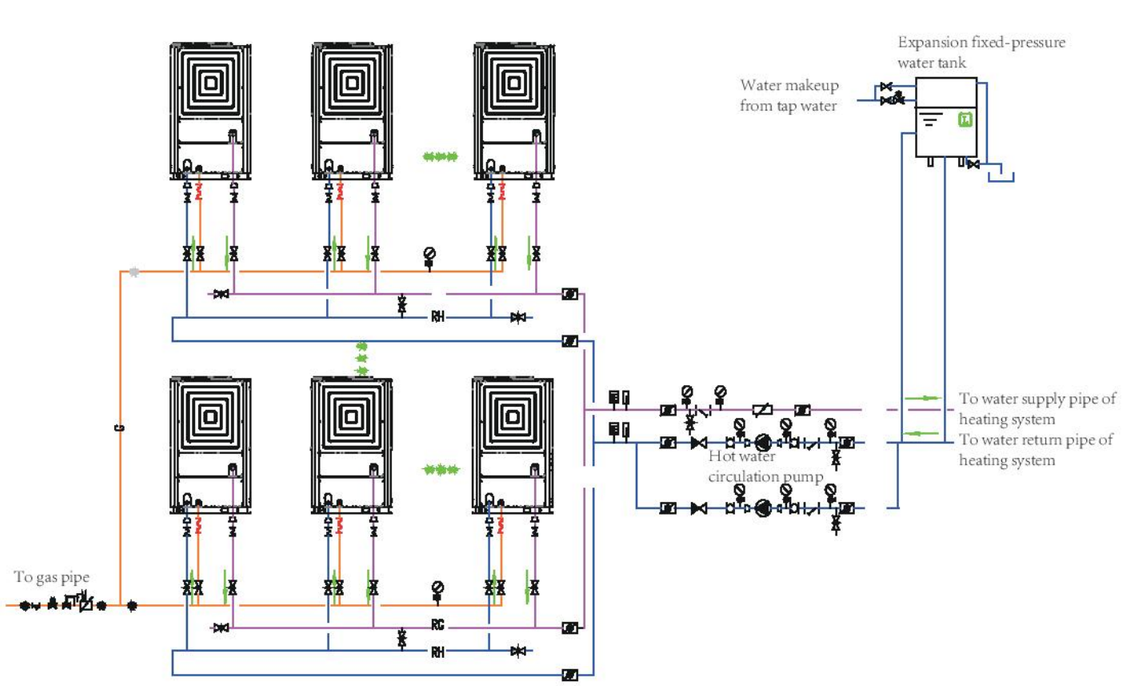
HEATING & DHW

Gas Fired Absorption Heat Pump

GAP TYPICAL REFERENCE PROJECTS

Dawangguzhuang town heating station, Wuqing Tianjin
Dahuangbao town heating station, Wuqing Tianjin
Damengzhuang town heating station, Quqing Tianjin
Tianjin Architectural Design Institute
National Convention and Exhibition Center Jinyuan Hotel
Tianjin Xinhua City square
Tangshan Beichen Garden Heating Station
Tianjin Sports Vocational College
Tangshan Shuian Dongfang
Beidaihe Wanyang Vanke Daihelishe
Huanghua Zhouqingzhuang Community
Huanghua Houmiao Community
Huanghua Kangxin Park
Langfang The Great Wall School
Heyan Community, Airport District, Zhengzhou
Henan Xinxiang Rehabilitation Hospital
Pingmo Town Binhe Garden, Xinmi, Henan
Henan Yuzhou Jinyu Lanwan
Kaifeng Guangyu Spring
Baojifeng Angoumen Community
Lanzhou Wanhua Group Automobile 4S Store Logistics Park
Baoji Taibai Cuiji Community
Xian Xiangwang Community
China Telecom Lanzhou Hongnigou Community
Shijianzhuang Zhongsheng Jiayuan
Shijiazhuang Tulip Community
Shijiazhuang Longjing Huating Community
Shijiazhuang Beibushiguang community
Shijiazhuang Dongcheng International community
Shijiazhuang Houdubei community
Shijiazhuang Chencun community
Shijiazhuang Shanghemingzhu community
Yangrongcheng Apartment
Duantou New Village
Yangrong Base
Jinyuesheng Community
Xianfeng Home Project
Jinjiang New City Longfuyuan
Renxian Huichang real estate RongYu Xintiandi
Hengshui Fucheng Xiakouxin Village
Wenxin Building
Lingxiu Gongguan Primary School
Zhonggong Primary School
Feicheng Chongwen Mingyuan
Xintai Yangliu Town Xianghe Community
Jinan Tianhe Garden Winter Garden
Hengshui Fushui Manhe Town Xvpuxin Village
Xingtai Neiqiu Tianhe Community
Hubei Shiyan Yangxin Tiandi
Liubu Hongqi Xinyuan
Lvqiao Town Zhouqingzhuang Community
Jinan Lishui Huating Community
Liaoyang Jvcai Community
Jinan Heyuan Xinju Community

DIRECT HEATING SYSTEM DIAGRAM

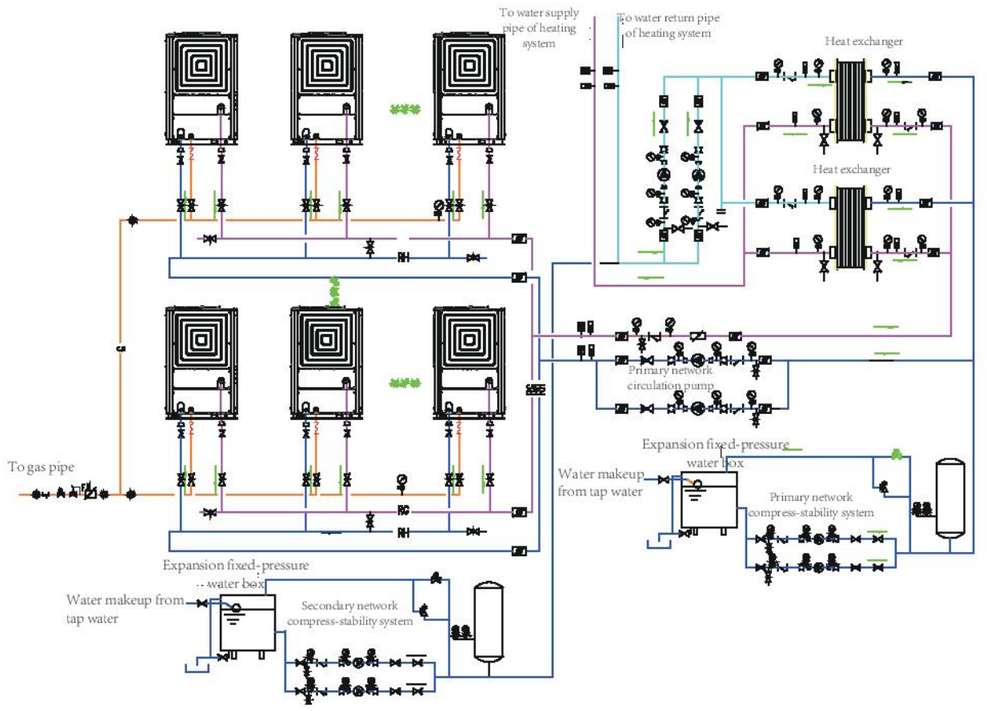


DIRECT HEATING SYSTEM PRINCIPLE DIAGRAM--APPLICABLE RANGE EXPLANATION

The direct heating system is suitable for:

1. GAP to be placed on the ground or the roof of a low-rise building;
2. The building with heating area divided into high and low area, GAP to be placed on the roof for direct heating to high area.

INDIRECT HEATING SYSTEM DIAGRAM

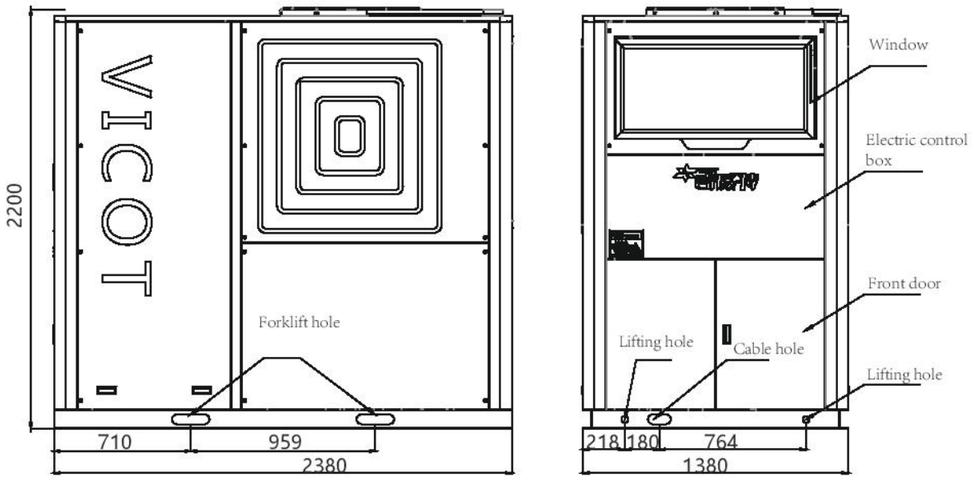


INDIRECT HEATING SYSTEM PRINCIPLE DIAGRAM--APPLICABLE RANGE EXPLANATION

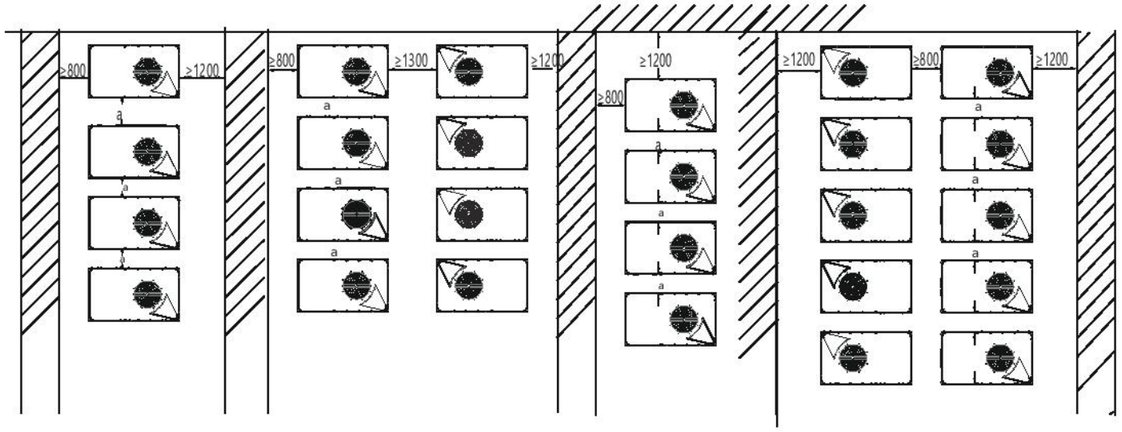
The indirect heating system is suitable for:

1. For buildings divided with high and low heating areas, GAP is placed on the roof to heat the low area where the indoor terminal is not suitable for direct heating due to pressure bearing.
2. When the GAP pressure bearing is required to be above 1.6 MPa.

Single unit dimension



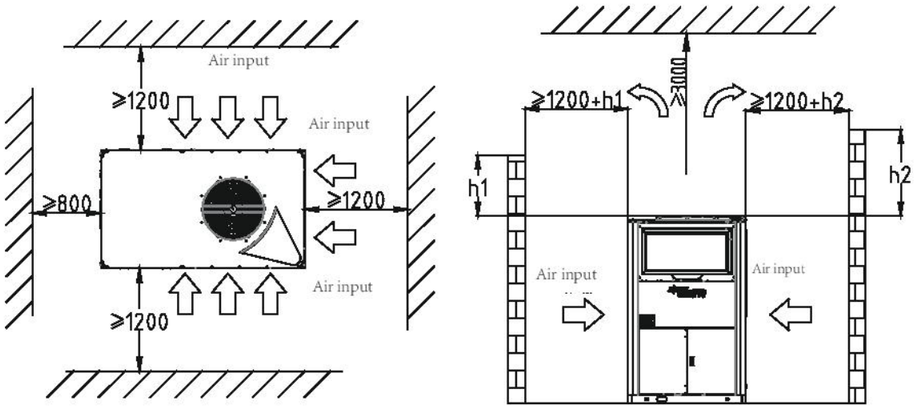
Installation diagram for multiple units



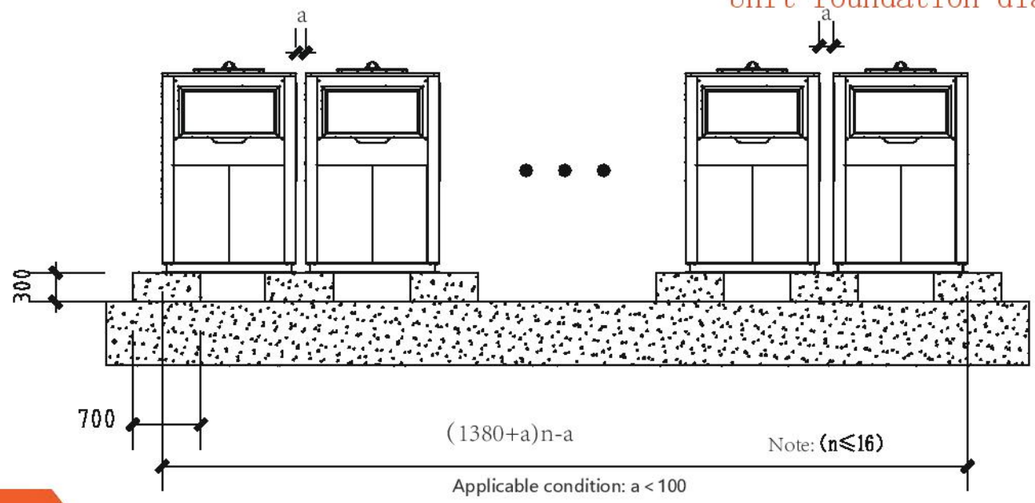
Note: a≥100;

If a < 100, there should be a gap between the foundations of the unit.

Installation diagram for single unit

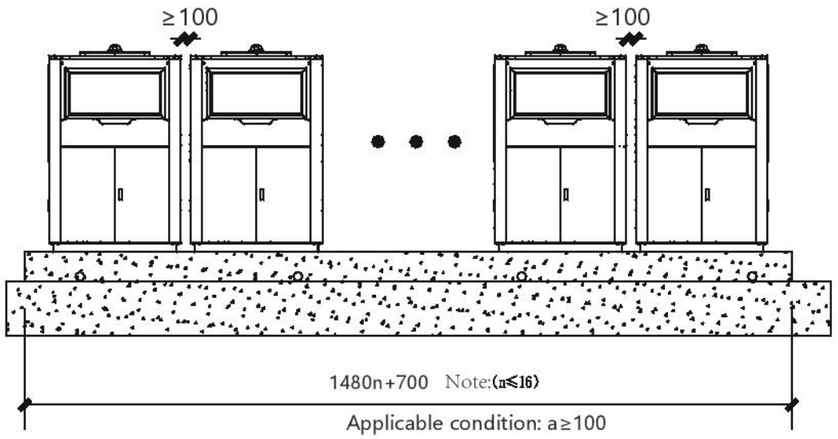


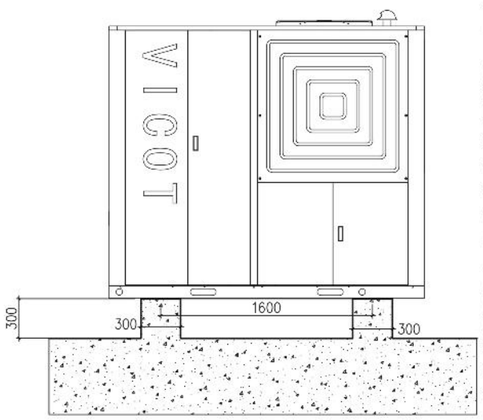
Unit foundation diagram



Applicable condition: a < 100

Unit foundation diagram





The concrete foundation is as follows:

1) The concrete foundation shall have sufficient stiffness and strength to bear the operating weight of the unit, and the levelness shall be less than 0.3% and the foundation height shall be no less than 300mm;

2) The foundation surface should be covered with mortar, and the edges should be chamfered;

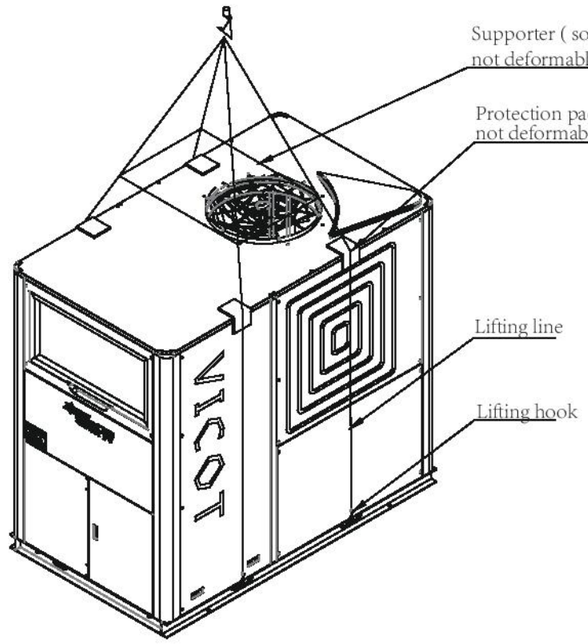
3) The foundation can be built on the concrete floor without gravel, but the foundation surface must be chiseled and treated;

4) A DN50 drainage hole shall be set on the concrete foundation and a drainage ditch shall be set around the foundation to discharge all condensed water from the installation place of the equipment;

5) When the unit is installed on the roof, the strength in the building shall be checked and waterproof measures shall be taken;

6) If channel steel foundation is adopted, the design structure should have sufficient stiffness and strength.

Unit lifting diagram



Unit is already charged with R717 before delivery, transportation and handling should be careful to avoid unit damage due to improper operation. Expanding rod lifting, lifting rope, protection pad should be used. Do not directly touch the panel and frame to avoid sling damage to the unit.

The unit should be kept in balance during handling.

After arriving at the site, make sure that the packaging and metal panels are not damaged during shipping. If any parts of the unit are damaged or have any other questions during the inspection, please contact the agent or the company in time for proper maintenance.

(1) The unit has been filled with ammonia before leaving the factory, so care should be taken when shipping or shifting to avoid damage to the unit due to improper operation.

(2) The unit is only equipped with lifting ring mounting nut M20, and the installation site shall be equipped with a lifting ring. Customers must adopt the corresponding expanding rod spanners during lifting and shifting, and the sling should be protected with gasket at the contact point between the slings and the unit's edges and corners. The panel and frame shall not be directly contacted to avoid damage to the unit caused by slings.

(3) The rise, fall and stop of the unit should be slow and steady when it is hoisted, pay attention to the balance of center of gravity.

ABOUT VICOT GROUP

Vicot Group is a high-tech corporation specialized in R&D, production, sales and service of new energy products;

Our production base is located in Solar City, Dezhou, China, with total assets of RMB600 million asset, designed annual production value reaches RMB5 billion;

Vicot's main products include gas fired absorption heat pump, solar boiler and other new energy saving project.

Vicot has successively won many honors such as National Energy Science & Technology Progress 3rd Prize", "China Huaxia Construction Science &Technology Prize", "Science &Technology Progress Award of Chinese Architectural Society" and "Chinese Science Technology Progress 2nd prize", etc. Vicot was awarded as "Shandong High-tech Enterprise" in 2016, "Shandong Intellectual Property Demonstration Enterprise" in 2017, "Shandong Gazelle Enterprise" and "Shandong Invisible Champion" in 2018.

Vicot has more than 120 R&D elites, continuous scientific and technological innovation is the foundation of its rapid development.

Vicot has invested 7.14 million RMB in R&D, and more than 60 sets of devices In 2018.

The company attaches great importance to the cooperation between production, education and research, and has established cooperative relations with many universities such as Shanghai Jiao Tong University and Tsinghua University in personnel training and technical exchange.

Vicot passes ISO9001 quality management system and ISO14001 environment management system.

Vicot has more than 150 existing and pending patents

With the vision of " one world, one blue sky", the corporate focuses on effective utilization of solar energy, air source energy and other renewable energies in construction energy saving heating and industrial energy-saving thermal application, striving to achieve scientific and technological innovation in international new energy utilization files.

In accordance with the mission " One Dream, One Team, For Staff, For Society", Vicot group will make continuous progress in the new energy field and sincerely cooperate and make progress with all the social sectors to provide high-quality product, perfect service with a broad mind in a great and firm spirit, and dedicates to creating a happier and richer future for partners, clients and our earth !