2025

FINTEK
REDESIGN YOUR FEELINGS

DESIGN MADE IN ITALY

VRF

VARIABLE REFRIGERANT FLOW

FINTEK WATER COOLED VRF SYSTEM
AVAILABLE ALSO FOR COOLING TOWER,
WATER LOOP SYSTEM

PRODUCT CATALOGUE

CONTENTS

FINTEK
REDESIGN YOUR FEELINGS

THE IDEAL CLIMATE FOR YOUR BUSINESS APPLICATIONS

GOOD REASONS FOR CHOOSING FINTEK

FINTEK air conditioning systems combine many benefits in a single unit. They can be used for heating, dehumidifying, and filtering the air as well as for cooling. Apart from versatility, the most decisive criterion is that it improves the working climate.
Did you know that you become much less efficient when the indoor air temperature rises above 24°C? And at 33°C efficiency levels drop to below 50 %. Too much humidity in the air also affects your ability to concentrate. FINTEK air-conditioning systems ensure an optimal room climate and prevent a drop in work performance due to heat.

COOLING & HEATING: Maintaining efficiency

On hot days, performance and concentration have been proven to decrease – for both physical and intellectual activities. This can negatively impact work output by up to 70 %. All FINTEK systems are also able to provide heat, thus maintaining ideal office temperatures of between 19 and 25°C at a humidity level of between 40 and 70 %.

DEHUMIDIFICATION: Ensuring quality of work

Humid air in a room is harmful both to health and to the fabric of the building. If the air is hot and sticky it becomes harder to breathe, the body is less able to cope, and employee efficiency drops. High humidity also encourages mold build-up in rooms.
Air conditioning systems dehumidify and regulate the humidity.

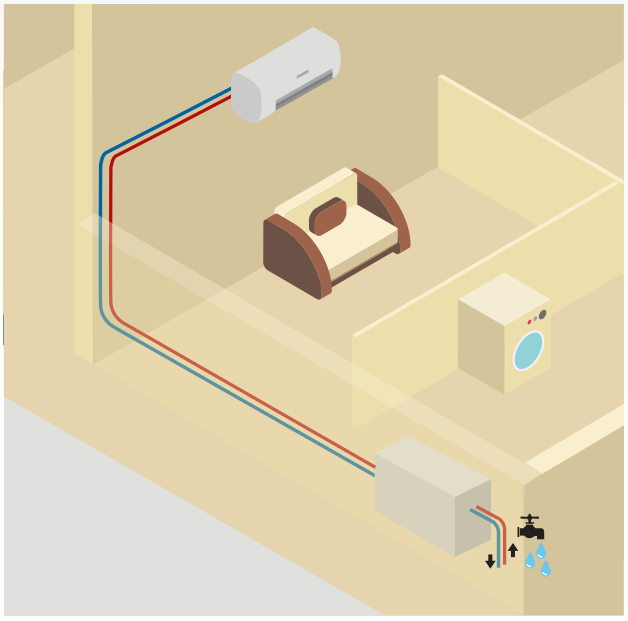
PURIFICATION: Protecting health

In addition to the fine dust, pollen and spores that are normally present, many construction materials, wall paints, plastic objects, and electrical devices can give off harmful substances into the air we breathe. The many different and highly effective filters in FINTEK air conditioning systems can neutralize up to 99 % of air pollution, thus helping to protect health.

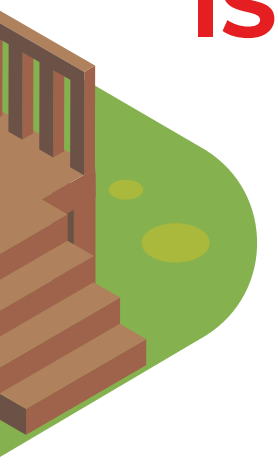
VENTILATION: Creating a comfortable climate

With most split air conditioning systems, fresh air can be brought into the conditioned room via an additional fresh air supply port.
This increases indoor air quality and ensures comfort, well-being and human performance.

SPLIT INVERTER WITH WATER CONDENSED SYSTEM



TO BE VISIBLE OR NOT IS NO LONGER A PROBLEM



We air conditioning every room:

housing, shops, restaurants, bars, hotels.

Class A++ All conditioners in this catalogue are rated **Class A** and **Class A++** in heating and cooling mode

FINTEK
REDESIGN YOUR FEELINGS

ADVANTAGES OF

WATER-CONDENSED AIR CONDITIONER

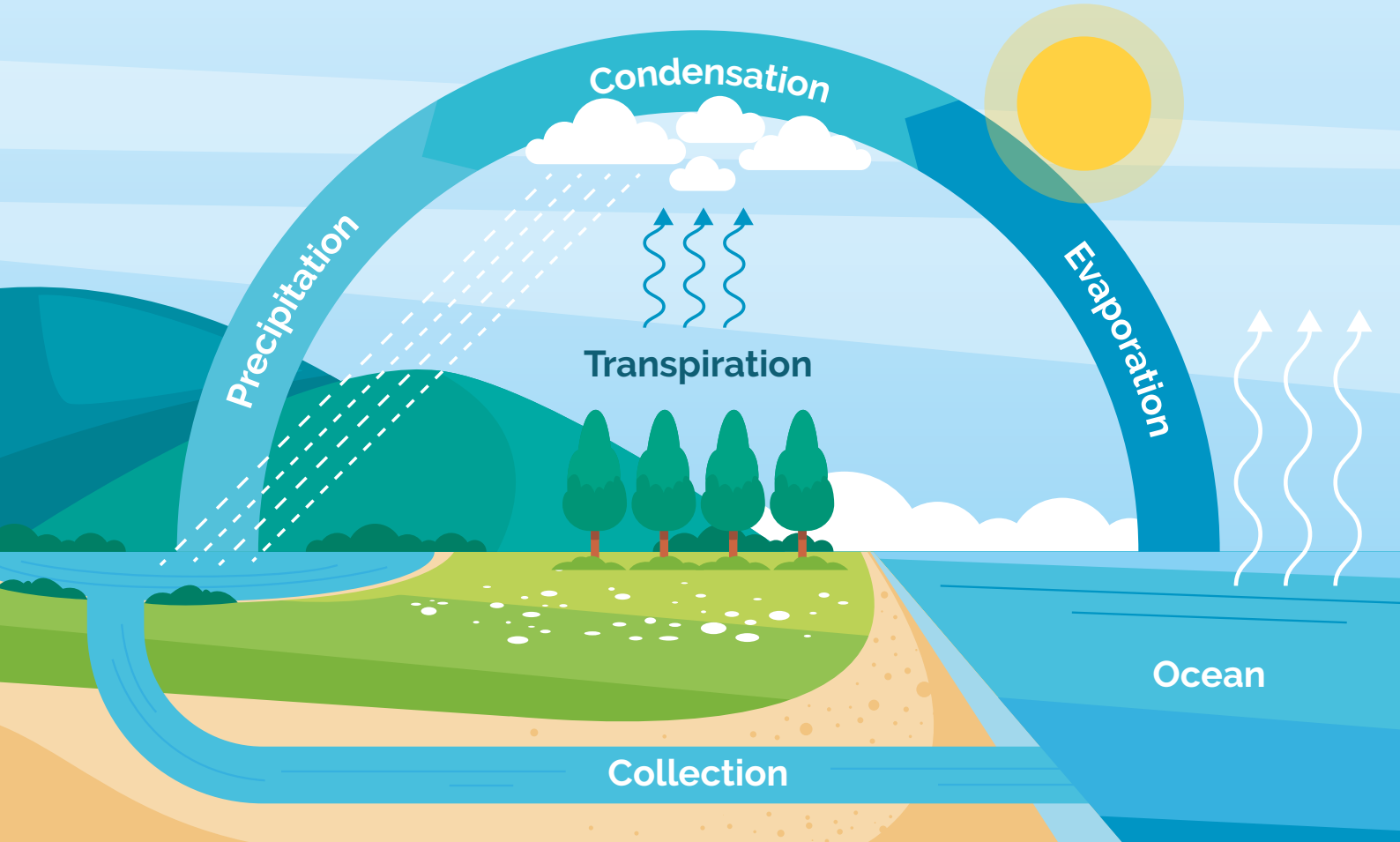
With the air conditioner without outdoor unit Fintek it is possible to install the condenser **directly inside the building,** freeing up space on the balcony (where there were) and keeping the facade of the property integrated.

The unit can be installed in any room where there is a load and a discharge of the water.
The measurements of the Fintek air conditioners and their silence make it easy to install in any compartment.

The performance of a water-condensed air conditioner is on average higher performance (compared to air conditioners with the external unit) by at least 20% more refrigeration yield which results in an objective cheap savings.
The water used for the condensation process is in no way polluted or altered as the fluids (coolant and water) are hermetically separated.

Water energy is used in the form of heat in order to allow physical transformation of the coolant. **At the end of the process it is discharged and falls within its natural cycle.**

THE WATER CYCLE



It is an electronic device capable of varying the frequency of the supply current of an electric motor and, consequently, its speed of rotation. A DC inverter air conditioner (Direct Current) has a motor with permanent magnets, capable of accumulating energy guaranteeing very low noise and an efficiency higher than the AC motor (current alternating). In this case the alternating current conversion is carried out only once and converted to direct current and digitally controlled by the conversion circuit with very high accuracy. Gas expansion occurs via an electronic expansion valve.

Increased speed
Being able to vary the frequency, initially the compressor is exploited at maximum power to bring the temperature to the desired level in about 1/3 of the time needed by normal air conditioners (both in heating mode, both in cooling mode).

Increased benefits
The inverter system also has other advantages. Dc inverter technology extends the life of the appliance because it avoids continuous restarts and deactivations of the compressor. At the same time it improves the efficiency of the heat pump by making its proper operation possible at temperatures below 0° C (up to -15° C with most models).
In practice, this state-of-the-art technology allows the air conditioner to adapt its speed to the programmed temperature. It continuously modulates the power of the system, thus avoiding repeated start and stop of the compressor: when the ideal temperature is reached, the speed is automatically reduced. Result: energy savings of 30%, temperature stabilization at approximately ± 0.5 °C around that set, and acoustic performance optimization.

HEAT PUMP

In the heating phase, the heat pump is able to draw hot air from the outside to bring it inside. The whole thing is based on a coolant fluid, which runs through the lamination, becoming a mixture of liquid and vapor at low pressure. It then enters the evaporator and here it turns into a gaseous state at low temperature. It crosses the accumulator and here it is compressed; as a result its thermal condition is raised.
Hot steam arrives in the capacitor, liquefying and releasing heat. To this point repeats the loop. To cool you do nothing but reverse the flow outward.

ECONOMICAL AND ENERGY SAVINGS

The use of the heat pump air conditioner allows you to save economically, but also in terms of energy. For the same consumption, it is capable of heating more than an electric heater or a fan heater. The whole thing is easily understood, if we make a comparison with methane, assuming that we use a total of 1kWh of chemical energy.
If we burn this gas in a traditional boiler, we can get about 0.8-1 kWh of thermal energy. If the process takes place in a combined cycle power plant, as a result we will have 0.5 kWh. With the heat pump air conditioner we reach up to 2.5 kWh. All this allows us to also safeguard the environment, because we will produce half of the greenhouse gases, becoming less dependent on fossil fuels. The energy efficiency achievable is really very high, equal to 4 times more than that guaranteed by other systems. Suffice it to think that the heat pump has 25% of auxiliary energy supplied by electricity or gas, to produce 100% of that heat spent in air conditioning.

THE **FINTEK** PROMISE

Durability

FINTEK air conditioning systems are based on robust and mature technology which offers outstanding durability with above-average service lives, leaving your business with an excellent indoor climate for the long term.

Flexibility

Space-saving outdoor units, a large selection of indoor units, and adaptable installation options afford maximum system flexibility.

Energy efficiency

Modern air conditioning systems that are correctly dimensioned and expertly adjusted consume very little power and achieve peak efficiency values in absolute terms.

24-hour continuous operation

FINTEK commercial systems are suitable for continuous use in rooms with sensitive technology and ensure consistent room temperatures.

Reliability

FINTEK stands for the highest quality and fault-free operation.

Broad operating range

Innovative technology allows the units to be used in outdoor air temperatures ranging from -25 to +52°C. The system can thus be used in heating and cooling mode all year round.

VERSATILITY IN USE

A top-class air conditioning system is free from drafts, works silently, and offers trouble-free and fault-free operation. The energy consumption remains within limits, and there are no aesthetic or technical restrictions in terms of design.

VERSATILITY...

...for designers

With massive scope in terms of designs, capacity levels, and indoor units, FINTEK systems offer maximum flexibility at the design and installation stages, allowing all requirements to be met. The Selection Tool design program helps with this.

...for owners

FINTEK systems are compatible with all standard building control systems that adapt central controls to your needs, and are designed to provide maximum efficiency. An extensive network of partners is available to you from the design stage right through to maintenance.

...for users

The room temperature and air flow of FINTEK units can be regulated individually and flexibly. The sophisticated indoor units are practically inaudible and the simple structure of the remote controls makes them straightforward to use.

THE BENEFITS OF FINTEK TECHNOLOGY

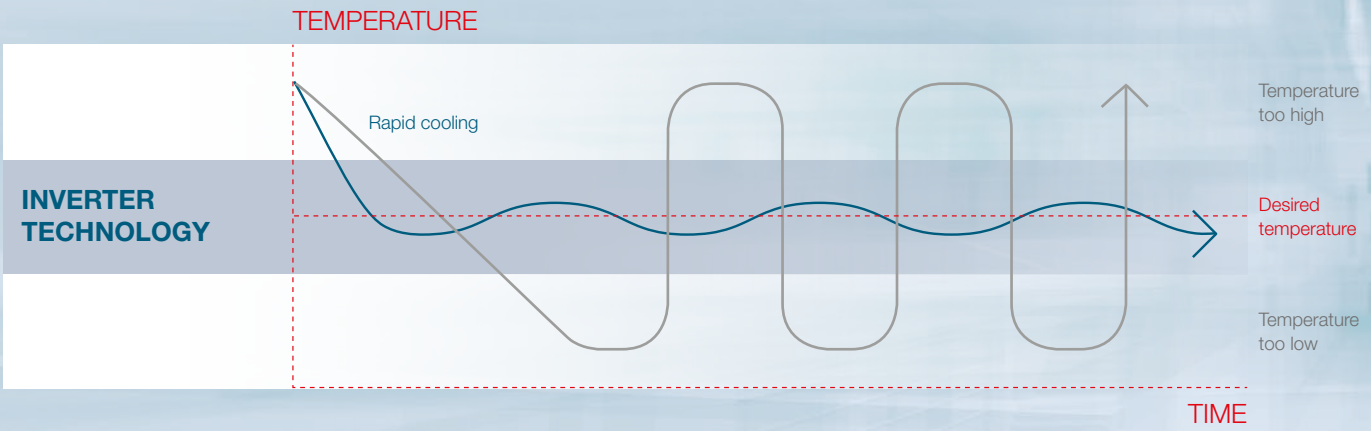
Inverter technology

An inverter air conditioner raises or lowers the temperature in the room by automatically changing the compressor speed. When the room has been sufficiently cooled or heated as required, the inverter automatically reduces the speed of the compressor. This both saves energy and reduces temperature fluctuations in the room.

Regulation of the compressor speed ensures that the output is limited to only what is necessary. Since the compressor is not constantly switched on and off, the service life of the air conditioner is also extended.

Since then, the technology has been continuously refined and improved.

WORLD's 1st INVERTER since1981



*The FINTEK inverter control uses two different drive modes for the compressor. Either pulse width modulation (high efficiency / PWM) is used for very efficient operation in the part load range, or pulse height modulation (high power / PAM) is applied to ensure that the set temperature is quickly reached.

Quiet and durable

At the heart of the FINTEK twinrotary compressor are two disks rotating in opposite directions. The resulting maximum mechanical stability with minimal vibration guarantees that FINTEK units are both quiet and durable.

Consistent temperature

The FINTEK inverter system with its intelligent control constantly regulates the modulation width between 20 and 100 %. This generates a consistent temperature so you don't have to keep switching the unit on and off.

Automatic mode change

If the desired temperature value needs to be reached quickly, PAM* mode is activated – "High Power" is required here. Once the value is reached, it is maintained with the lowest possible energy consumption (PWM* mode).

Variable control

The speed of the compressor and thus the power of the unit is practically infinitely variable in increments of 0.1 Hz. This allows for precise settings to be made and for energy to be used in the most efficient manner.

Individual settings

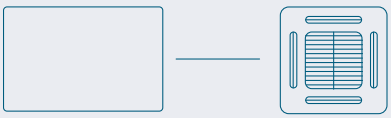
Special modes such as "Soft Cooling" or "Dual Setpoint" promise unlimited comfort. Whether for convenience or efficiency, functions on FINTEK units are easy to control.

SMALL, BIG, OR BIGGEST.

FINTEK commercial applications are available in two systems: a single-room solution (RAV) with up to four indoor units in a temperature zone and a multi-room solution (VRF) for large buildings with virtually unlimited combinations of indoor units and temperature zones.

Single-room solution – RAV

The single-room solution is suitable for smaller commercial applications, such as offices, shop floors, or plant rooms, where reliability is paramount and continuous operation is needed. Up to four indoor units of the same design can be connected to an outdoor unit. The nominal cooling capacity is between 2.5 kW and 23 kW.



Advantages of the single-room solution

Versatile

The units can be used from the smallest server room through to large shop floors.

Up to four indoor units

Several indoor units can be combined for optimum air distribution.

Cooling or heating

The system cools or heats the room as desired, so it can be operated all year round.

24-hour continuous operation

Plant rooms, storerooms, or laboratories demand a precisely defined indoor climate all year round.

VRF TECHNOLOGY IN DETAIL

VRF stands for **Variable Refrigerant Flow**.
No matter how large the building is, the system regulates the refrigerant flow perfectly, so that each indoor unit is supplied with exactly the required amount of refrigerant at all times.

Optimum refrigerant management through IFT

The Intelligent Flow Technology microprocessor processes information from all system sensors in order to achieve optimum power distribution. Overcapacity and undercapacity are compensated for irrespective of their location in the building.

Continuous heating operation

Where other units would have long since had to pause heating mode to allow a defrosting process, FINTEK uses intelligent algorithms that allow it to heat continuously for up to five hours. Even while defrosting, the temperature at the indoor unit's heat exchanger never drops below +23°C.

Ordination Eisenstadt, Radel & Hahn Klimatechnik Ges.m.b.H.

Tools for designers and engineers

Intelligent software tools make life easier for both parties, with convenient design at the start of the project and easy access to data on the unit already installed.

Selection Tool

Reliable and efficient design requires much more than simply combining indoor and outdoor units. The Selection Tool software provides you with a realistic representation of one or more overall systems, each with their own level of detail. Floor plans and control options can be incorporated, lists of units, wiring and piping diagrams can be created – everything is available for export in .pdf or .dwg format at the touch of a button. This tool enables quotations to be provided and work to be planned quickly and effectively.

Wave Tool

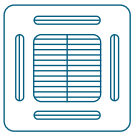
Data can be read directly from or uploaded to the outdoor unit using an Android or iOS smartphone or tablet. Pairing is simply done via the wireless NFC connection without a cable connection. For both commissioning and service call-outs, the data for the entire system, device addressing, history, and much more are quickly available for processing on site or via data transfer.

Mozart Destillerie GmbH Salzburg, Hasenbichler GmbH

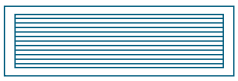
MULTI-ROOM INDOOR UNITS

HIGH-WALL UNITS
HAORI
High-wall unit

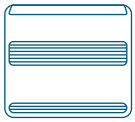
CEILING UNIT



CASSETTE UNITS
60x60 slim cassette
4-way standard cassette
4-way SMART cassette
2-way cassette
1-way flat cassette



DUCT UNITS
SSD super-slim duct unit
Standard duct unit
High-pressure duct unit
Fresh-air duct unit



CONSOLE UNIT

CHASSIS

FLOOR STANDING UNIT

SPECIAL SOLUTIONS
Exhaust air direct expansion kit
Direct expansion kit 0 – 10 V
Direct expansion kit NEXT
VN heat exchangers
MT & HT hot water modules

Measuring conditions for TOSHIBA air conditioners

Cooling: Outdoor temperature: +35°C dry bulb temperature
Indoor air temperature: +27°C dry bulb temperature / +19°C wet bulb temperature
Humidity: 50 – 55 % relative humidity

Heating: Outdoor temperature: +7°C dry bulb temperature / +6°C wet bulb temperature
Indoor temperature: +20°C dry bulb temperature
No difference in height between indoor and outdoor unit

Sound pressure level: Measured at 1 m distance from the indoor unit (1.5 m for cassette and duct units), or 1 m distance from the outdoor unit.
Values are determined in an anechoic chamber as defined in JIS B8616;
These values can be higher in the installed state since they are influenced by external factors.

High-wall units

Simple and efficient

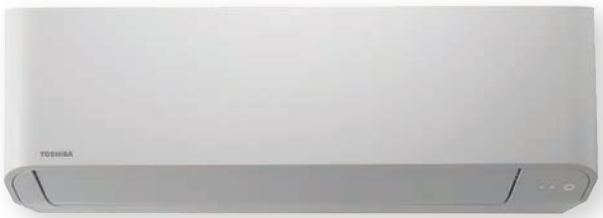
With their universal features, high-wall units are suitable for the majority of use cases. High energy efficiency, ease of operation, quiet running, effective air purification and – last but not least – optimum installation qualities secure their top position among business indoor units. At the planning phase, the individual decision is then whether to opt for the ALLROUNDER or the DESIGN unit.

HAORI Design Line high-wall units

HAORI is a real eye-catcher with its innovative textile design & material concept. The two fabric covers provided allow the HAORI to be quickly matched to any interior. And if they aren't enough, there are four further cover colors available, or you can decorate it with your own, totally individual design. And on the inside, a self-cleaning function and optimum efficiency values are combined with contemporary air filter technology. A design infrared remote control is supplied as standard. The high standard also includes especially quiet operation due to the external PMV kit.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMK-UP0071DHPL-E	2,20	2,50	25/28/30/33/35	300/385/480	300 x 987 x 210
MMK-UP0091DHPL-E	2,80	3,20	25/28/31/34/36	300/395/510	300 x 987 x 210
MMK-UP0121DHPL-E	3,60	4,00	25/28/32/35/37	300/410/540	300 x 987 x 210
MMK-UP0151DHPL-E	4,50	5,00	30/33/35/38/40	380/480/580	300 x 987 x 210
MMK-UP0181DHPL-E	5,60	6,30	32/36/39/42/45	420/600/730	300 x 987 x 210

ACCESSORIES	DESCRIPTION	INCLUDED
RB-RXS34-E	HAORI design infrared remote control, black, with magnetic holder	✔
RBM-PMV0361UP-E	PMV kit for indoor units, up to size 12	
RBM-PMV0901UP-E	PMV kit for indoor units, size 15 or larger	
818F0023	Active carbon-catechin filter strips	
818F0036	IAQ filter strips	
818F0050	Ultra-pure 2.5 filter strips	✔
818F0072	Ultra-Fresh filter strips	



R410A
R32

Comfort-Allrounder

With their unobtrusive design, these high-wall units fit into offices, shops, hotels, utility rooms, restaurants, and more. A 5-speed fan and generously-sized louver ensure quiet and effective operation with optimum air distribution. The self-cleaning function fully dries the heat exchanger after operation has ended, and offers preventive hygiene in combination with the easy-clean dust filter. A comfort infrared remote control is supplied as standard. There is an external PMV kit for especially quiet operation.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMK-UP0031HP-E	0,90	1,30	25/29/33	270/370/455	293 x 798 x 230
MMK-UP0051HP-E	1,70	1,90	25/29/33	270/370/455	293 x 798 x 230
MMK-UP0071HP-E	2,20	2,50	25/30/35	270/385/480	293 x 798 x 230
MMK-UP0091HP-E	2,80	3,20	25/31/36	270/395/510	293 x 798 x 230
MMK-UP0121HP-E	3,60	4,00	25/32/37	270/410/540	293 x 798 x 230
MMK-UP0151HP-E	4,50	5,00	32/36/40	550/690/840	320 x 1050 x 250
MMK-UP0181HP-E	5,60	6,30	32/37/41	550/720/900	320 x 1050 x 250
MMK-UP0241HP-E	7,10	8,00	33/39/45	600/900/1200	320 x 1050 x 250
MMK-UP0271HP-E	8,00	9,00	39/41/45	800/1000/1200	350 x 1200 x 280
MMK-UP0301HP-E	9,00	10,00	41/44/48	1100/1300/1500	350 x 1200 x 280
MMK-UP0361HP-E	10,00	11,20	43/45/50	1250/1350/1650	350 x 1200 x 280

ACCESSORIES	DESCRIPTION	INCLUDED
Remote control	Infrared remote control included	✔
818F0023	Active carbon-catechin filter strips	
818F0036	IAQ filter strips	
818F0072	Ultra-Fresh filter strips	

Ceiling unit

Elegant ambiance

Rounded edges for an elegant design. The large louver provides optimum air distribution and a high airflow rate. Even during heating operation, this optimum air circulation offers excellent comfort. The unit achieves even greater levels of efficiency through the use of a new heat exchanger.

R410A
R32

High airflow rate

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMC-UP0151HP-E	4,50	5,00	28/34/36	540/690/840	235 x 950 x 690
MMC-UP0181HP-E	5,60	6,30	28/35/37	540/720/960	235 x 950 x 690
MMC-UP0241HP-E	7,10	8,00	29/36/41	750/1020/1440	235 x 1270 x 690
MMC-UP0271HP-E	8,00	9,00	29/36/41	750/1020/1440	235 x 1270 x 690
MMC-UP0361HP-E	11,20	12,50	32/38/44	1020/1350/1860	235 x 1586 x 690
MMC-UP0481HP-E	14,00	16,00	35/41/44	1200/1530/1860	235 x 1586 x 690
MMC-UP0561HP-E	16,00	18,00	36/42/46	1260/1650/2040	235 x 1586 x 690

Cassette units

Perfect air distribution

With its low height, the cassette unit fits unobtrusively into any suspended ceiling. The louvers are individually controllable and ensure optimal air distribution with very quiet operation. A drain pump with 850 mm discharge head is incorporated into every cassette. A fresh air supply of up to 15 % of the nominal airflow is also possible with an external fan – the connection port is pre-cut.

60x60 slim cassette

Suitable for Euro grid

The optional upgrade with a presence sensor can help to save energy. The sensor registers when people are present. If there is no one in the room, the unit switches off automatically.

R410A
R32

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMU-UP0051MH-E	1,70	1,90	29/30/32	365/430	256 x 575 x 575
MMU-UP0071MH-E	2,20	2,50	29/33/37	378/552	256 x 575 x 575
MMU-UP0091MH-E	2,80	3,20	29/33/38	378/570	256 x 575 x 575
MMU-UP0121MH-E	3,60	4,00	30/34/38	402/594	256 x 575 x 575
MMU-UP0151MH-E	4,50	5,00	31/35/40	468/660	256 x 575 x 575
MMU-UP0181MH-E	5,60	6,30	34/39/47	522/840	256 x 575 x 575

Doctor's surgery, Groß St. Florian, Cool Company Kälte-Klima-Gastro GmbH

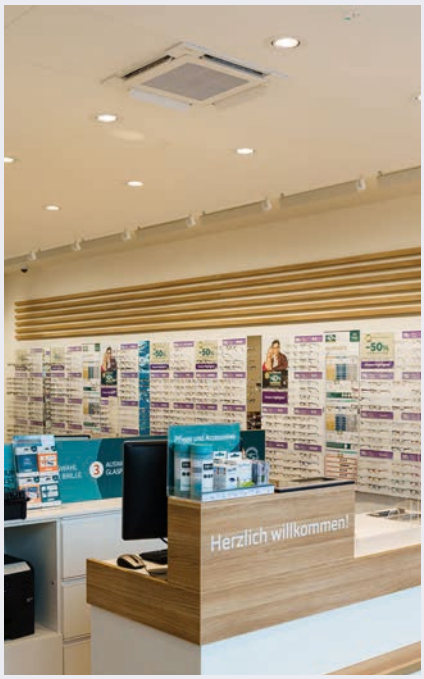
4-way standard cassette

R410A
R32

The 360° classic

Optimum 360° air distribution and individual comfort – even for large spaces with high capacity requirements.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMU-UP0091HP-E	2,80	3,20	27/29/30	680/730/800	256 x 840 x 840
MMU-UP0121HP-E	3,60	4,00	30/29/27	680/730/800	256 x 840 x 840
MMU-UP0151HP-E	4,50	5,00	27/29/31	790/830/930	256 x 840 x 840
MMU-UP0181HP-E	5,60	6,30	27/29/32	800/920/1250	256 x 840 x 840
MMU-UP0241HP-E	7,10	8,00	28/31/35	800/920/1290	256 x 840 x 840
MMU-UP0271HP-E	8,00	9,00	28/31/35	800/920/1290	256 x 840 x 840
MMU-UP0301HP-E	9,00	10,00	38/33/30	850/1100/1320	256 x 840 x 840
MMU-UP0361HP-E	11,20	12,50	32/38/43	1070/1430/1970	319 x 840 x 840
MMU-UP0481HP-E	14,00	16,00	33/38/46	1130/1430/2130	319 x 840 x 840
MMU-UP0561HP-E	16,00	18,00	33/40/46	1230/1520/2130	319 x 840 x 840



PADO Shopping Galerien Parndorf, CAVERION Österreich GmbH

4-way SMART cassette

Maximum efficiency meets design

4-way high-efficiency design for large capacities.
Further energy savings possible with presence sensor.

R410A
R32

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMU-UP0091H-E	2,80	3,20	26/28/30	708/738/768/792/846	256 x 840 x 840
MMU-UP0121H-E	3,60	4,00	26/28/30	708/738/768/792/846	256 x 840 x 840
MMU-UP0151H-E	4,50	5,00	28/30/32	800/860/920/960/1060	319 x 840 x 840
MMU-UP0181H-E	5,60	6,30	31/33/36	940/1040/1100/1160/1260	319 x 840 x 840
MMU-UP0241H-E	7,10	8,00	35/37/41	1120/1210/1300/1440/1580	319 x 840 x 840
MMU-UP0271H-E	8,00	9,00	35/37/42	1250/1320/1380/1590/1770	319 x 840 x 840
MMU-UP0301H-E	9,00	10,00	37/39/44	1400/1450/1520/1770/1940	319 x 840 x 840
MMU-UP0361H-E	11,20	12,50	32/38/45	1260/1356/1596/1848/2184	319 x 840 x 840
MMU-UP0481H-E	14,00	16,00	33/39/46	1368/1470/1740/1998/2262	319 x 840 x 840
MMU-UP0561H-E	16,00	18,00	35/40/46	1404/1512/1782/2034/2262	319 x 840 x 840

This is a special order item. Delivery time provided on request.

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

EMBODYING ENVIRONMENTAL PROTECTION

The energy efficiency of air conditioning systems has a direct effect on operating costs and the environment. All FINTEK units meet the requirements of efficiency class A as a minimum – in both cooling and heating operation. The quality of our units has been officially confirmed with Eurovent certification. This certifies that the products' performance data is certified for air conditioning and cooling technology on the basis of European and international standards.

2-way cassette

Wide capacity range

Ideal for long, narrow rooms;
available in 11 power levels.

R410A
R32

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMU-UP0071WH-E	2,20	2,50	30/32/34	450/498/558	295 x 815 x 570
MMU-UP0091WH-E	2,80	3,20	30/32/34	450/498/558	295 x 815 x 570
MMU-UP0121WH-E	3,60	4,00	30/32/34	450/498/558	295 x 815 x 570
MMU-UP0151WH-E	4,50	5,00	30/33/35	450/534/600	295 x 815 x 570
MMU-UP0181WH-E	5,60	6,30	30/33/35	618/750/900	345 x 1180 x 570
MMU-UP0241WH-E	7,10	8,00	33/35/38	738/840/1050	345 x 1180 x 570
MMU-UP0271WH-E	8,00	9,00	33/35/38	738/840/1050	345 x 1180 x 570
MMU-UP0301WH-E	9,00	10,00	34/37/40	780/900/1260	345 x 1180 x 570
MMU-UP0361WH-E	11,20	12,50	36/39/42	1182/1434/1740	345 x 1600 x 570
MMU-UP0481WH-E	14,00	16,00	37/40/43	1230/1482/1800	345 x 1600 x 570
MMU-UP0561WH-E	16,00	18,00	39/42/46	1320/1578/2040	345 x 1600 x 570

Park Igls Health Center, Innsbruck, EDMUND SPARER Klima & Kältetechnik GmbH

1-way flat cassette

R410A
R32

Air flow on one side from the design panel

Ultra-flat design with low installation height and plasma filter option. For low output requirements, also available with 0.9 kW cooling capacity. The optional presence sensor saves energy when there are no people in the room.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMU-UP0031YHP-E	0,90	1,30	25/33/37	270/370/480	150 x 990 x 450
MMU-UP0051YHP-E	1,70	1,90	25/33/37	270/370/480	150 x 990 x 450
MMU-UP0071YHP-E	2,20	2,50	25/34/38	270/390/500	150 x 990 x 450
MMU-UP0091YHP-E	2,80	3,20	26/35/39	290/410/520	150 x 990 x 450
MMU-UP0121YHP-E	3,60	4,00	26/36/40	290/420/540	150 x 990 x 450
MMU-UP0151YHP-E	4,50	5,00	33/36/39	500/630/700	150 x 1180 x 450
MMU-UP0181YHP-E	5,60	6,30	33/37/40	500/650/800	150 x 1180 x 450
MMU-UP0241YHP-E	7,10	8,00	37/42/46	600/760/940	150 x 1180 x 450
MMU-UP0271YHP-E	8,00	9,00	41/44/47	720/860/1000	150 x 1180 x 450

Oberndorfer GmbH Völkermarkt, Klötzl Vertriebs GmbH

Duct units

Invisible air conditioning

Whatever the shape of your room, duct units ensure a uniform temperature distribution over the entire space. The air is supplied into the room discretely via one or more air outlets – without drafts. A drain pump with 850 mm discharge head is integrated into all duct units with up to 16 kW cooling capacity.

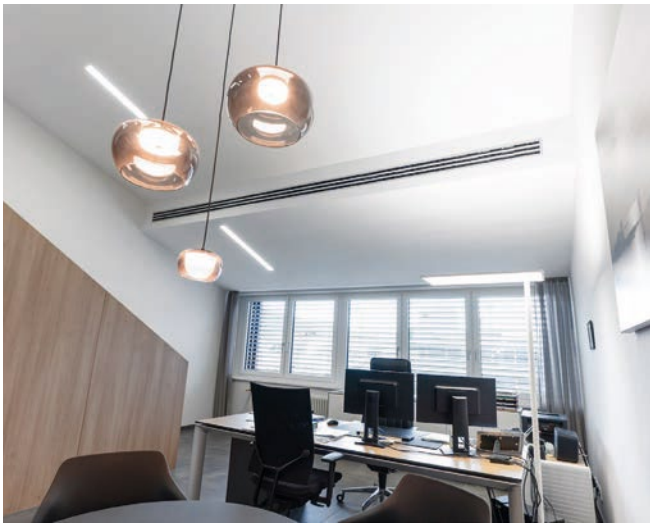
SSD super-slim duct unit

R410A
R32

For limited space, light & compact

Ultra-flat slim design. For low capacity requirements,
also available with 0.9 kW. Integrated air filter & drain pump (350 mm).

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMD-UP0031SPHY-E	0,90	1,00	25/26/27/28/29	410/380/360	210 x 700 x 450
MMD-UP0051SPHY-E	1,70	1,90	26/27/28/29/30	450/410/380	210 x 700 x 450
MMD-UP0071SPHY-E	2,20	2,50	26/28/29/30/31	540/470/400	210 x 700 x 450
MMD-UP0091SPHY-E	2,80	3,20	26/28/29/31/32	570/500/430	210 x 700 x 450
MMD-UP0121SPHY-E	3,60	4,00	27/29/30/32/33	600/520/440	210 x 700 x 450
MMD-UP0151SPHY-E	4,50	5,00	28/29/30/31/33	690/640/550	210 x 900 x 450
MMD-UP0181SPHY-E	5,60	6,30	29/31/32/33/34	780/750/660	210 x 900 x 450
MMD-UP0241SPHY-E	7,10	8,00	30/32/33/35/36	1080/950/860	210 x 1100 x 450
MMD-UP0271SPHY-E	8,00	9,00	32/33/34/36/37	1140/980/910	210 x 1100 x 450



Troyer Fliesen & Marmor GmbH Innsbruck, EDMUND SPARER Klima & Kältetechnik GmbH

Hotel KOWALD Loipersdorf, PAMMER GesmbH

Kirchdorf Cement Works, Kirchdorfer Zementwerk Hofmann Gesellschaft m.b.H Kirchdorf / Krems, EBA Cooling GmbH

MRCT Diagnostic Center Dr. Andreas Oberhauser GmbH Innsbruck, EDMUND SPARER Klima & Kältetechnik GmbH

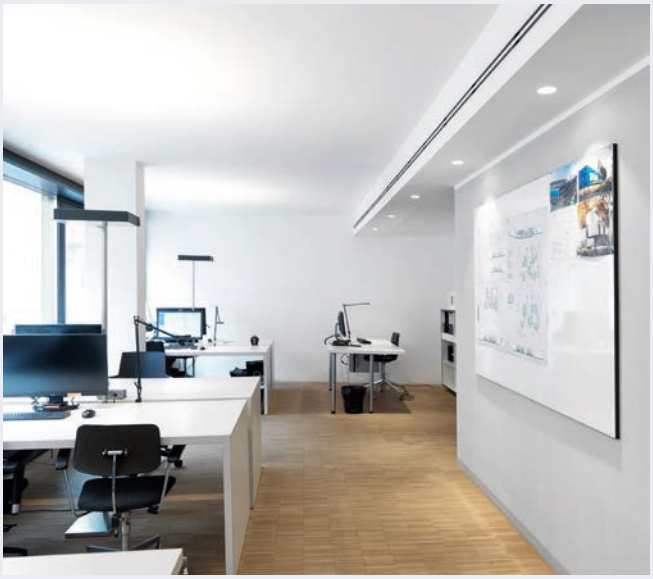
Standard duct unit

R410A
R32

The invisible classic

Air supply is possible via the bottom or back side. An optional spigot flange is available. Also suitable for connecting textile air hoses.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	External static pressure	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	Pa	mm
MMD-UP0051BHP-E	1,70	1,90	29/26/23	360/450/540	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0071BHP-E	2,20	2,50	23/26/29	360/450/540	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0091BHP-E	2,80	3,20	23/26/30	390/480/570	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0121BHP-E	3,60	4,00	23/26/30	390/480/570	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0151BHP-E	4,50	5,00	25/29/33	540/660/920	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0181BHP-E	5,60	6,30	25/29/33	540/660/920	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0241BHP-E	7,10	8,00	27/31/36	870/1090/1320	30/40/50/65/80/ 100/120	275 x 1000 x 750
MMD-UP0271BHP-E	8,00	9,00	27/31/36	870/1090/1320	30/40/50/65/80/ 100/120	275 x 1000 x 750
MMD-UP0301BHP-E	9,00	10,00	27/31/36	960/1200/1450	30/40/50/65/80/ 100/120	275 x 1000 x 750
MMD-UP0361BHP-E	11,20	12,50	33/36/40	1380/1620/1920	30/40/50/65/80/ 100/120	275 x 1400 x 750
MMD-UP0481BHP-E	14,00	16,00	33/36/40	1500/1920/2350	30/40/50/65/80/ 100/120	275 x 1400 x 750
MMD-UP0561BHP-E	16,00	18,00	33/36/40	1500/1920/2350	30/40/50/65/80/ 100/120	275 x 1400 x 750



Architects' Office, Imgang Architekten ZT GmbH Innsbruck, EDMUND SPARER Klima & Kältetechnik GmbH

High-pressure duct unit

R410A
R32

With full power

The high static compression makes this unit most suitable for large buildings. Optional long-life air filter kit available.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	External static pressure	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	Pa	mm
MMD-UP0181HP-E	5,60	6,30	31/33/37	900/990/1100	50/75/100/125/150/175/200	298 x 1000 x 750
MMD-UP0241HP-E	7,10	8,00	31/34/38	960/1050/1200	50/75/100/125/150/175/200	298 x 1000 x 750
MMD-UP0271HP-E	8,00	9,00	38/41/43	1200/1350/1500	50/75/100/125/150/175/200	298 x 1000 x 750
MMD-UP0361HP-E	11,20	12,50	34/37/41	1340/1560/1920	50/75/100/125/150/175/200	298 x 1400 x 750
MMD-UP0481HP-E	14,00	16,00	38/41/44	1695/1980/2340	50/75/100/125/150/175/200	298 x 1400 x 750
MMD-UP0561HP-E	16,00	18,00	41/44/46	1920/2340/2760	50/75/100/125/150/175/200	298 x 1400 x 750
MMD-UP0721HP-E1	22,40	25,00	36/40/44	2500/3200/3800	50/83/117/150/183/217/250	448 x 1400 x 900
MMD-UP0961HP-E1	28,00	31,50	38/42/46	3500/4200/4800	50/83/117/150/183/217/250	448 x 1400 x 900

Fresh-air duct unit

R410A
R32

For fresh air preconditioning

Preheating or cooling function in combination with other indoor units.
The drain pump is available as an option.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	External static pressure	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	Pa	mm
MMD-UP0481HFP-E	14,00	8,90	31/32/35/37/38	760/930/1080	50/75/100/125/150/175/200	327 x 1430 x 750
MMD-UP0721HFP-E1	22,40	13,90	33/35/36/37/38	1200/1440/1680	50/75/100/125/150/175/200	477 x 1430 x 900
MMD-UP0961HFP-E1	28,00	17,40	33/35/36/38/39	1470/1800/2100	50/75/100/125/150/175/200	477 x 1430 x 900
MMD-UP1121HFP-E1	33,50	20,80	34/36/37/39/40	1770/2130/2520	50/75/100/125/150/175/200	477 x 1430 x 900
MMD-UP1281HFP-E1	40,00	25,20	35/37/38/40/42	2130/2580/3060	50/75/100/125/150/175/200	477 x 1430 x 900

FINTEK IN HOTELS

Holistic HOTEL climate solutions from FINTEK offer guests throughout the hotel a comfortable, pleasant stay with affordable operating costs for the owner. Efficiently planned overall solutions are an important component of sustainable and environmentally-friendly hotel management.

Hotel rooms

With local comfort remote controls, every guest can adapt the climate in their room to their own individual wishes and expectations. The set-back function clears all special requests, and restores the optimized basic settings. Window contacts and key-card readers reduce un-necessary operating times. High-wall units fit unobtrusively and quietly (almost unnoticed) into the interior. Duct units are entirely invisible.

Restaurant

In the restaurant, it is not only the dishes served and the attentive service that delight; the ambiance and indoor climate also contribute to the positive overall experience.
FINTEK cassette units ensure optimum air quality while fitting unobtrusively into any suspended ceiling. The individually controllable louvers guarantee optimum air distribution with extremely quiet operation.

Kitchen

The kitchen personnel work wonders in order to spoil their guests with culinary highlights. A comfortable climate in the kitchen area increases productivity and enjoyment of the work. Duct units are the first choice for kitchens since they are very powerful, and offer flexible air intake and exhaust options.

HOTEL

Project

Hotel Gilbert
Air conditioning of hotel rooms, lobby, seminar rooms, kitchen, breakfast room, and fitness studio

Vienna, Austria

Requirements

- Full air conditioning of the hotel with integration of existing systems
- Energy efficient air conditioning with user friendly controls
- Low noise emissions

Installation company

ICEBEAR Entfeuchtung & Klima GmbH

Vienna, Austria

Installed units

34x high-wall units
2.2 kW

4x slim duct units
4.5 kW

2x outdoor units
SMMSe
33.5 – 45 kW

Fitness and spa area

Fitness and spa areas not only have high temperature control requirements; they also need to be able to equalize the humidity. Three-pipe systems are especially suitable for these areas. For example, heat recovery allows them to use surplus energy for efficient hot water preparation.

Management

For management, the cost effectiveness of a hotel climate solution is of immense significance alongside the wellbeing and satisfaction of their guests. The energy consumption can be easily optimized via a central control, or via the building manage-ment system. Special FINTEK features such as energy monitoring make it even easier to maintain an overview of costs.

Conference and meeting rooms

These rooms require a productive working climate. Air conditioners regulate the fresh air supply, and bring oxygen into the room. At the same time, they can filter out spores and allergens, and provide pure, clean air. An optional presence sensor saves energy when there are no people in the room.

Console unit

Suitable for any room

Smaller than a standard heater, but with flexible air outlet and the unique floor heating effect. An infrared remote control is supplied as standard.

R410A
R32

Flexible set-up

- Floor heating effect for warm feet
- Silent mode function

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MML-UP0071NHP-E	2,20	2,50	26/32/38	282/366/510	600 x 700 x 220
MML-UP0091NHP-E	2,80	3,20	26/32/38	282/366/510	600 x 700 x 220
MML-UP0121NHP-E	3,60	4,00	29/34/40	324/804/552	600 x 700 x 220
MML-UP0151NHP-E	4,50	5,00	31/37/43	384/468/624	600 x 700 x 220
MML-UP0181NHP-E	5,60	6,30	34/40/47	426/528/726	600 x 700 x 220

Chassis

Individual covering

Coverings supplied by the customer to suit the interior ensure that the units integrate perfectly into the room.

R410A
R32

Well concealed

- Easy installation
- Covering provided by the customer
- With optional infrared remote control

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MML-UP0071BH-E	2,20	2,50	32/34/36	300/400/460	600 x 745 x 220
MML-UP0091BH-E	2,80	3,20	32/34/36	300/400/460	600 x 745 x 220
MML-UP0121BH-E	3,60	4,00	32/34/36	300/400/460	600 x 745 x 220
MML-UP0151BH-E	4,50	5,00	32/34/36	460/600/740	600 x 1045 x 220
MML-UP0181BH-E	5,60	6,30	32/34/36	490/600/740	600 x 1045 x 220
MML-UP0241BH-E	7,10	8,00	33/37/42	640/790/950	600 x 1045 x 220

Solictors' Practice, RECHTSATELIER - Proxauf Meyer Zeilinger Rechtsanwälte GmbH Innsbruck, EDMUND SPARER Klima & Kältetechnik GmbH

Floor standing unit

Space-saving

The slim design allows the unit to be positioned flexibly. The automatic swing mode distributes the air optimally – even when positioned in a corner of the room. The front panel has a recess with cover for fitting a remote control.

R410A
R32

Sleek and compact

- Auto swing of the louvers
- Wide air outlet
- Free setup possible

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄	kW ☀	dB(A) ❄	m³/h	mm
MMF-UP0151H-E	4,50	5,00	37/42/46	660/780/900	1750 x 600 x 210
MMF-UP0181H-E	5,60	6,30	37/42/46	660/780/900	1750 x 600 x 210
MMF-UP0241H-E	7,10	8,00	39/45/49	840/990/1200	1750 x 600 x 210
MMF-UP0271H-E	8,00	9,00	39/45/49	840/990/1200	1750 x 600 x 210
MMF-UP0361H-E	11,20	12,50	41/46/51	1380/1620/1920	1750 x 600 x 390
MMF-UP0481H-E	14,00	16,00	44/49/54	1560/1730/2160	1750 x 600 x 390
MMF-UP0561H-E	16,00	18,00	44/49/54	1560/1730/2160	1750 x 600 x 390

This is a special order item. Delivery time provided on request.

Direct expansion kits

Integration of 3rd party heat exchangers

The direct expansion (DX) kit allows heat exchangers from other manufacturers to be incorporated into a FINTEK system. It is ideal for use with air handling units or air curtains. The kit is expandable for larger capacities. The wiring is ready to connect. An appropriate valve kit is needed for use.

Exhaust air direct expansion kit

R410A

Temperature-controlled room/exhaust air

- Valve kits available for 8, 14, and 28 kW
- Further indoor units may be connected

Cooling capacity (kW)	Heating capacity (kW)	Airflow (m^3/h)	Dimensions (mm) H × W × D
5.6 – 28.0	6.3 – 31.5	720 – 5040	400 × 300 × 150 mm

Direct expansion kit 0 – 10 V

R410A

External power control

Controls the heating or cooling operation of a connected DX heat exchanger via a 0 – 10 V signal from the building management system according to the output required. Valve kits available for 11.2 – 16 kW and 22.4 – 28 kW. No further indoor units may be connected.

Cooling capacity (kW)	Heating capacity (kW)	Airflow (m^3/h)	Dimensions (mm) H × W × D
8.0 – 28.0	7.2 – 31.5	3,300 – 5,000	400 × 300 × 150 mm

Direct expansion kit NEXT

All control options – high capacities

Controls the heating or cooling mode of a connected DX heat exchanger via the room or exhaust air temperature, the supply air temperature, or via a 0 – 10 V signal from the ventilation control according to the output required.

- One controller can be configured for all control options
- Single valve kit up to 56 kW power (20 HP)
- One controller allows two valve kits to be connected in parallel
- This means that 112 kW (40 HP) can be achieved with just one refrigeration cycle
- Total outputs of up to 335 kW (120 HP) can be achieved
- For combination with SMMSu, SMMSe, and SHRMe outdoor units

Type of control	Supply air, exhaust air, or 0 – 10 V capacity control												Supply air or exhaust air control								
PMV control	Single							Twin					Double twin					Triple			
Number of CONTROLLERS	1							1					2					3			
Number of VALVE KITS	1							2					4 (2 x 2)					6 (3 x 2)			
Register version	1 cycle							1 cycle					4 cycles					6 cycles			
Total achievable capacity (kW)	22.40	28.00	33.50	40.00	45.00	50.40	56.00	67.00	80.00	89.50	100.50	112.00	134.00	156.50	179.00	201.00	223.50	234.50	268.00	301.50	335.00
Total achievable capacity (HP)	8	10	12	14	16	18	20	24	28	32	36	40	48	56	64	72	80	84	96	108	120

VN heat exchangers

Highly efficient fresh air supply

The cross-flow heat exchangers offer perfect heat recovery from the conditioned room air of up to 75 %.

Sustainable energy recovery

- Available with register for heating / cooling function
- Free cooling possible
- Optional air humidification

Cooling capacity (kW)	Heating capacity (kW)	Sound pressure level (dB(A))	Airflow (m^3/h)	External static pressure (Pascals)	Dimensions (mm) H × W × D
4.1 – 8.3	5.5 – 10.9	34.5 – 43	150 – 2,000	100 – 135	430 × 1,140 × 1,690 mm (4.1 kW) 430 × 1,190 × 1,740 mm (6.6 / 8.3 kW)

Hot water module MT

Using hot water preparation for low-temperature systems, highly efficient room heating, or domestic hot water preparation is possible. The module can be integrated into all water systems.

R410A

Additional hot water preparation

- Water outlet temperature of 25 to 50°C
- Supply water temperature control
- Two modules per system possible

TYPE	Heating capacity	Water outlet operating range (min.-max.)	Water flow rate (min.)	Dimensions (HxWxD)
	kW ☀	°C	m³/h	mm
MMW-UP0271LQ-E	8,00	+25 / +50	1,17	580 x 400 x 250
MMW-UP0561LQ-E	16,00	+25 / +50	2,33	580 x 400 x 250

Hot water module HT

Efficient hot water preparation for high temperature systems. For combining with 3-pipe heat recovery systems and external hydronic components.

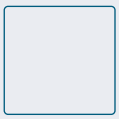
R410A

High temperature hot water preparation

- Water outlet temperature of up to 80°C
- Compact cascade system
- For 3-pipe VRF systems

TYPE	Heating capacity	Water outlet operating range (min.-max.)	Water flow rate (min.)	Dimensions (HxWxD)
	kW ☀	°C	m³/h	mm
MMW-AP0481CHQ-E	14,00	+50 / +82	2,00	700 x 900 x 320

MULTI-ROOM OUTDOOR UNITS



MiNi SMMS SINGLE FAN

MiNi SMMS R32

MiNi SMMSe

MiNi SMMS SINGLE FAN

2-pipe in compact form

R410A

- 2-pipe VRF system: cooling up to 14 kW or heating up to 16 kW
- 1-phase available
- Twin-rotary compressor
- Up to 10 indoor units can be connected

TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄	kW ☀	❄	☀	dB(A) ❄	dB(A) ☀	Pce.	mm
MCY-WC 0406HT-E	12,10	12,50	8,08	3,83	54	57	8	910 x 990 x 390
MCY WC 0504HT-E	14,00	16,00	7,77	3,88	54	58	10	910 x 990 x 390

MiNi SMMS R32

Low GWP alternative in compact form

R32

- The new generation R32 MiNi VRF with comprehensive safety concept
- Small, refined & efficient – simple to use
- Optimum protection of the environment: made in Europe with low GWP refrigerant
- Quiet: 3-stage night operation to reduce noise
- For 2-pipe systems up to 15.5 kW cooling & heating
- Up to 13 indoor units can be connected

1-phase

TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄	kW ☀	❄	☀	dB(A) ❄	dB(A) ☀	Pce.	mm
MCY-WCG0401HSW-E	12,10	12,10	9,98	5,21	71	54	8	1050 x 1010 x 370
MCY-WCG0501HSW-E	14,00	14,00	9,21	4,93	72	55	10	1050 x 1010 x 370
MCY-WCG0601HSW-E	15,50	15,50	8,80	4,80	73	56	13	1050 x 1010 x 370

MiNi SMMSe

2-pipe in compact form

- 2-pipe VRF system: Cooling up to 15.5 kW or heating up to 18 kW
- 1-phase or 3-phase available
- Twin-rotary compressor
- Up to 13 indoor units can be connected

R410A

1-phase

TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄	kW ☀	❄	☀	dB(A) ❄	dB(A) ☀	Pce.	mm
MCY-WC0404HS-E	12,10	12,50	9,42	4,17	49	52	8	1235 x 990 x 390
MCY-WC0504HS-E	14,00	16,00	9,23	4,24	50	53	10	1235 x 990 x 390
MCY-WC0604HS-E	15,50	18,00	9,68	4,37	51	54	13	1235 x 990 x 390

3-phase

TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄	kW ☀	❄	☀	dB(A) ❄	dB(A) ☀	Pce.	mm
MCY-WC0404HS8-E	12,10	12,50	-	4,19	49	52	8	1235 x 990 x 390
MCY-WC0504HS8-E	14,00	16,00	-	4,25	50	53	10	1235 x 990 x 390
MCY-WC0604HS8-E	15,50	18,00	-	4,38	51	54	13	1235 x 990 x 390
MCY-WC0806HS8-E	22,40	22,40	8,09	4,50	58	59	12	1740 x 990 x 390
MCY-WC1006HS8-E	28,00	28,00	7,40	4,38	59	60	16	1740 x 990 x 390

CONTROLS

Your individual needs taken care of

High quality air conditioners are naturally important but the controls also play a significant part in the ease-of-use and efficiency of the system. Optimized settings create the perfect ambiance for every room to suit individual requirements. As well as local control options, FINTEK also offers a broad selection of central controls, or the option to integrate these into the building management system.

Just one control system for all units

Control via app or browser

Integration into existing systems

Connection of external modules

Controls at a glance

Local controls

Wired remote controls (max. cable length 500 m) or wireless infrared remote controls are used to control single units or groups of up to 8 indoor units. Additional modules allow location independent control via apps or the Internet.

- Wired remote controls
- Infrared remote controls
- WiFi solutions
- Control options

Central controls

Complex air conditioners can be controlled from any central location, such as the reception area or plant room. Cable lengths of up to 2,000 m are possible, and up to 2,048 indoor units can be controlled.

- Compliant Manager
- Smart Manager
- Touchscreen controller
- Smart Manager Touch
- Small Central app
- Time switch

External control options

A range of options can be used to connect external units, issue messages or alarms, facilitate noise reduction or redundancy switching – virtually any control requirement can be met.

- Leak detection system
- Accessory modules
- CN connector
- Redundancy box

Building management systems

FINTEK air conditioners can be networked with all standard building management systems, making the air conditioning an integral part of the central control of a building.

- LonWorks®
- Modbus®
- BACnet®
- Coolmaster
- KNX®

Local controls

Simplified wired remote control:
Perfect for hotel rooms.

Standard wired remote control:
Controls all indoor unit functions, 168 hours ON/OFF timer.

Compact wired remote control:
Slim version of the standard wired remote control.

Wired remote control:
As for the standard wired remote control, but with 8 time events/day and 6 parameters/event.

Wired comfort remote control:
As for the standard, plus weekly timer, soft keys, night operation, louver lock, key lock, illuminated display.

Local touch lite remote control:
Compact local touchscreen remote control in smartphone format with customizable screens and logos.

Remote temperature sensor:
When an exact temperature measurement is not possible via the sensor in the indoor unit or in the wired remote control.

IR remote control + receiver kits:
Scope of functions as for standard wired remote control, but wireless. For panel installation or external.

Combi control:
Control via mobile phone using SMS or APP.

Design comfort Wired remote control:
With or without Bluetooth support

AP-IR-WIFI:
Control of an indoor unit using a smartphone and APP.

TO-RC-WIFI:
WiFi module for controlling an indoor unit using a mobile phone and app or Internet browser.

TO-RC-KNX®:
Module for controlling an indoor unit via the KNX® bus.

Remote On/Off + Window contact module:
Potential-free contact for external On/Off and window contact input.

Control board:
3 analog and 3 digital inputs, 3 digital outputs for external control, alarms, and messages (for ceiling units).

Operating, error signal, remote On/Off module:
Operating and error signal output, On/Off control, plus error message from up to 8 indoor units via potential-free contacts.

Analog interface:
Controls unit functions via 0 – 10 V signals or fixed resistors.

Modbus® interface:
Control of unit functions via a Modbus register. Up to 64 interfaces are possible.

BACnet® 1:1 interface:
Control of up to 8 indoor units. For integration with a locally provided BACnet® system.

Central controls

Small Central app:
Control of up to 32 indoor units by app via smartphone or tablet.

Weekly timer:
Connection via local wired remote control, central remote control, or TCC link network. Weekly timer / time switch mode.

Smart Manager with energy billing:
Up to 128 indoor units. Web interface for PC control via a browser; energy monitoring and billing.

Touchscreen controller 64:
Control of up to 64 indoor units.
7" color touch screen. TCS Net relay interface not required.

Touchscreen controller with energy billing:
Control of up to 512 indoor units. 12.1" multi-touchscreen, operation via PC also possible. Energy monitoring and billing. TCS Net Relay interface required (up to 8 units).

Smart Manager TOUCH with energy billing:
Control of up to 256 indoor units with intuitive operation via 7" color touch screen interface.

Central remote control:
Compact central control unit for controlling up to 64 indoor units. Weekly timer can be connected.

Building management systems

Modbus® interface:
Control of up to 64 indoor units. For integration with a locally provided Modbus® system.

KNX®-16/64:
Modules for controlling up to 16/64 indoor units via the KNX® bus.

Coolmaster:
Control of up to 64 indoor units – optionally up to 128. KNX® option. Small touchscreen user interface. Control via smartphone, tablet, or PC possible.

LonWorks® interface:
Control of up to 64 indoor units. For integration with a locally provided LonWorks® building management system (requires a LonWorks® network card).

Small BACnet® interface:
Control of up to 64 indoor units. For integration with a locally provided BACnet® system.

Analog interface:
Control of up to 64 indoor units. Control via 0 – 10 V signals or fixed resistors. 8 analog and 2 digital inputs. 5 analog and 5 digital outputs.

External control options

Noise reduction module (RAV):
For DI & SDI size 5. Input for noise reduction (night operation).
Max. capacity 0/50/75 %.
Compressor operating signal.

Noise reduction cable set (RAV):
For DI Big & SDI from size 8. Input for noise reduction (night operation), max. capacity 0/50/75 %.
Compressor operating signal.

Redundancy box:
Switches between two indoor units (or groups) in the event of a fault. Switch-over dependent on operating hours; temperature-dependent switching on of the second system. Plug & Play, LAN port, monitoring via web browser possible.

Multi-function module:
Two potential-free contact inputs; one function per module: external master ON/OFF, night operation (noise reduction), operating mode priority heating / cooling.

Current limiting / power peak cut module:
Two dry contact inputs.
External ON/OFF; capacity reduction.

Output module:
Three potential-free contact outputs. Operating signal, error signal, operating time compressor 1 and 2, output capacity in 8 stages

CN connector with cable:
For indoor units; various input / output functions via locally provided equipment.

Leak detection & isolation system:
Leak detection with visual and audible alarms, conforms to EN378; additional separation of the affected indoor unit possible.

KEY EFFICIENCY FIGURES

The efficiency of air conditioning systems and heat pumps is expressed by the coefficient of performance.
The **coefficient of performance** is the ratio of cooling or heating capacity generated for the electrical power used. A high coefficient of performance indicates high energy efficiency.
A COP value of 4.0, for example, means that 4 kW of heating capacity is generated from 1 kW of electricity – four times as much.

EER
Energy Efficiency Ratio

Coefficient of performance for cooling mode

COP
Coefficient of Performance

The coefficient of performance for heating mode

With air conditioning systems, the EER indicates the coefficient of performance in cooling mode, while the COP is the coefficient of performance in heating mode. These figures are only related to a single operating point, so further coefficients of performance were defined especially for air conditioning. These take account of the part load and any climatic influences.

SEER
Seasonal Energy Efficiency Ratio

Means of determining the coefficient of performance over one year for cooling mode

- Includes additional seasonal factors
- Measuring points are +20, +25, +30, and +35°C

SCOP
Seasonal Coefficient of Performance

Means of determining the coefficient of performance over one year for heating mode

- Includes additional seasonal factors
- Measuring points are +12, +7, +2, and -7°C

For air conditioning systems and heat pumps, the coefficient of performance over one year is called SEER in cooling mode and SCOP in heating mode; it takes account of temperature fluctuations over the course of the year.

ESEER
European SEER

Today, VRF systems are usually evaluated according to their ESEER (European SEER) value, which takes account of part load factors. A formula is used which calculates the sum of four individual values with various weightings.

FINTEK

REDESIGN YOUR FEELINGS

Expertise in every sector –
air conditioning systems and heat pumps for cooling and heating

HOME comprises all the air conditioning solutions for your own home.

Every ESTIA heat pump incorporates FINTEK's knowledge and experience.

LIGHT BUSINESS / BUSINESS delivers air conditioning solutions for business and industry.

USX chillers – the new and superlative special systems.

FINTEK's innovative air conditioning systems were specially developed to ensure your wellbeing in your home, and its progressive technology offers comfort 365 days a year. Quiet operation, air filtering, and purification are just some of the benefits for greater comfort in your home. An air conditioning system is also the perfect heating solution, especially at season changes.

High quality and efficiency in a space-saving format. The ESTIA air-to-water heat pump is extremely effective and is ideal for heating, hot water preparation, and cooling in your home. Heating with heat from the air – environmentally friendly, cost-effective, and efficient.

Single-room solutions are suitable for smaller commercial applications, such as offices, shop floors, or plant rooms, where reliability is paramount and continuous operation is required.
Multi-room solutions comprise air conditioning systems for complex installations in large structures such as office buildings, shopping malls, or hotels.

FINTEK's USX chillers represent a new dimension in refrigeration and heat generation. If the capacity required exceeds the technical and financial limits of direct evaporation systems, then water-based systems are used.

FINTEK

REDESIGN YOUR FEELINGS

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