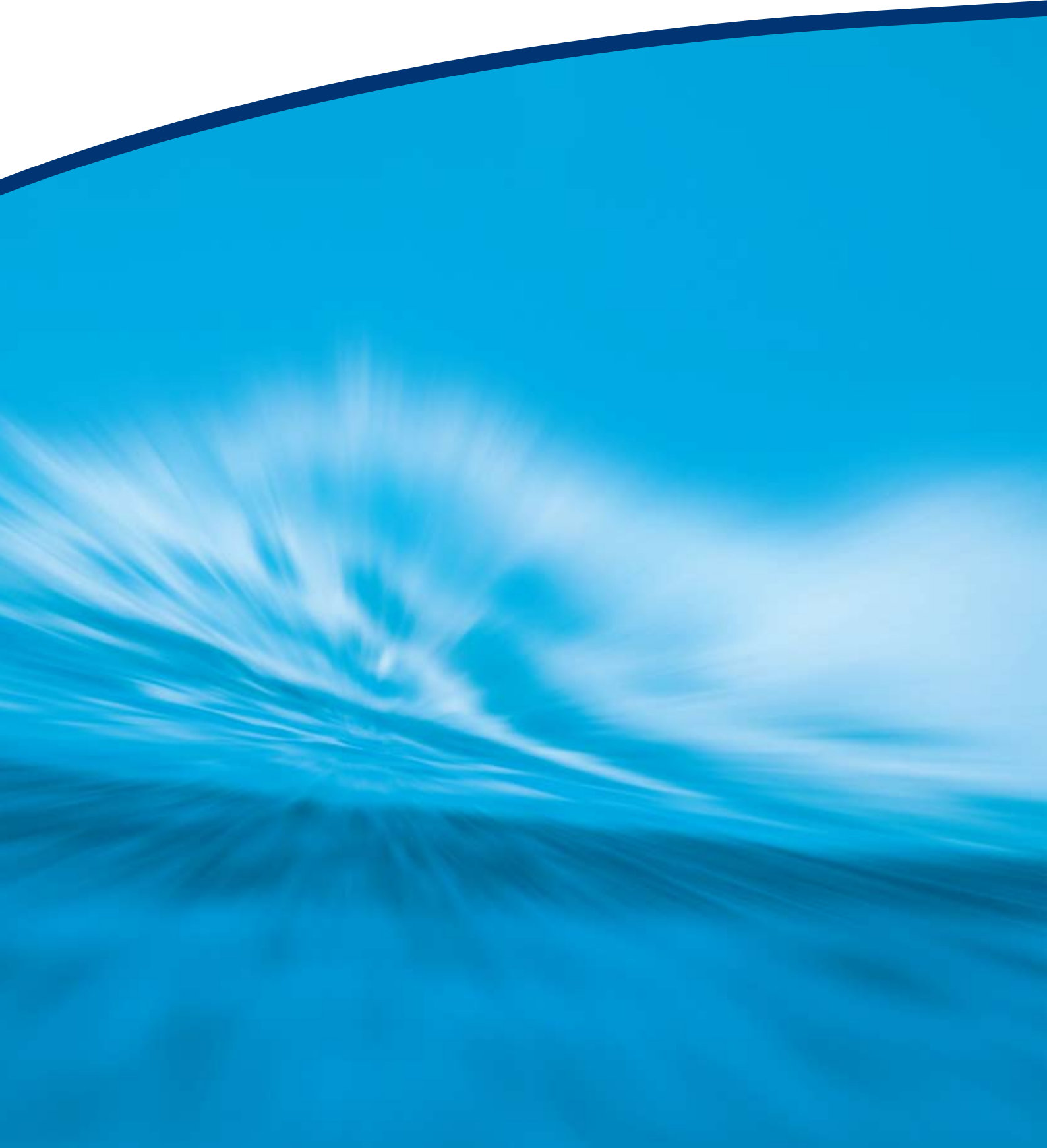




Commercial air condition systems

DC Inverter – Future technology



Ideal air temperature in the business and residential facilities

The Coolwex commercial air-conditioners are intended for the complete air-conditioning of premises – either in business facilities, shops and hotels or in residential facilities...

With their help, it is possible to create and maintain a comfortable working and living environment practically throughout the entire year.

In addition to cooling and dehumidification, the Coolwex air conditioners also remove the dust particles and other air pollutants. We can use them for the heating of premises as well.

The most optimal solution includes the possibility of installing the commercial air-conditioning systems into

the facilities, for which the air-conditioners have been envisaged already in the initial facility design.

On the basis of experience, we recommend installation into the newly-built facilities as well as for adaptations of business or living premises. They blend excellently with the layout of the room since the distinctiveness of certain lines enables them to be completely imperceptible.

Special types of Coolwex air-conditioners resolve also apparently impossible problems, thus enabling air-conditioning also at the locations with exceptionally strict environment protection laws and regulations.

Types of Coolwex commercial air-conditioners

DC Inverter

DC Inverter – Future technology

The adoption of DC inverter technology has allowed an extremely precise control of the compressor rotation speed with an energy saving up to 40% in relation to a conventional air conditioner. The DC inverter system guarantees higher entrust ability and a considerable maintenance costs reduction. Once reached the settled temperature the unit works reducing the speed compressor regulation, therefore the power and energetic consumption, adapting to the demanded operating temperatures and avoiding the expensive on/off of the traditional not inverter models.

DC Inverter Cassette air-conditioners

Achieving excellent comfort and well-being with a four-sided exhaust of air

The closest-to-nature system, which enables the most equal distribution of pleasantly cooled and fresh air around the room, is provided by the four-sided air exhaust of the Coolwex cassette air-conditioners. The highest level of comfort and well-being is provided by the option of adjusting the exhaust of the air-conditioner directly under the ceiling. This is an additional reason that makes it possible to feel an almost natural atmosphere.

DC Inverter Floor/Ceiling air-conditioners

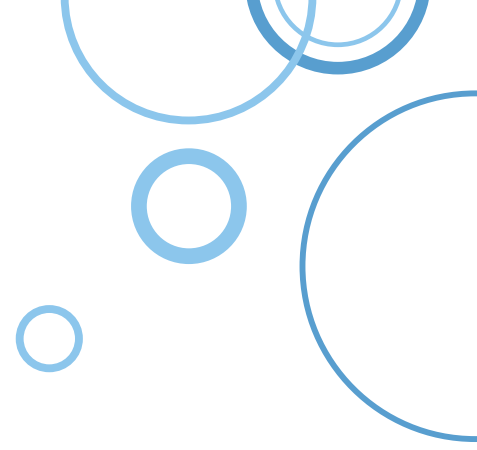
One device – two installation options

The special shape of Coolwex floor/ceiling air-conditioners provides the option of two methods of installations. The indoor unit can be used as a floor-standing unit. It can be installed as a radiator or mounted on the ceiling. Thus, the same device enables both types of installation as well as the complete adjustment to the room and requirements.



Unique advantages of Coolwex commercial air-conditioners

Guarantee for great efficiency and comfort



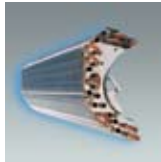
1



Using new ecological cooling gases enables greater yield

All air-conditioning systems are filled with ecological gas, thus following provisions of the European Union. Ecological gas contributes to greater yield and is not harmful to environment or human beings. Coolwex air conditioning systems use type R410a of ecological gases.

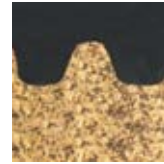
2



4-Bend Heat Exchanger enables lower energy consumption

Compared to other models, Coolwex air-conditioners adopt the technology of 4-bend heat exchangers, which expands heat-exchange area by up to 32% and thus improves efficiency. The enlarged performance surface together with an increased number of tube pairs contribute to greater efficiency and higher energy yield.

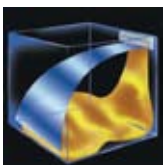
3



More efficient cooling performance is achieved by means of a new, trapezoid form of the inner grooves tubes in the heat exchanger

A greater cooling efficiency is enabled by means of a new form of internal surfaces of copper tubes which contain the cooling agent. The internal tube surfaces are now serrated in form of a trapezoid, which has replaced previously triangle-shaped tubes. The above mentioned form of tubes substantially increases the performance surface of the cooling medium and thus also increases the heating exchanger efficiency.

3



Two-direction Airstream Technology

A specially designed flap and the micro-computer management enable a unique two-way flap movement – a horizontal and a vertical. During the cooling procedure the lamellate flap, and thus also the air outlet, are opened, so that the cold air rushes through the air-conditioning system horizontally and, according to the basic gravitation law, drops toward the floor.

4



Refresh the air without lowering its temperature

Automatic dehumidifying function: The dehumidifying function is usually used in rainy spring or summer periods and in areas with high levels of humidity. This function enables you to dehumidify and refresh the room during the "heavy" and sultry days, without actually decreasing the air temperature.

Safety, reliability of operation and long durability

1



DC Inverter – Future technology

The adoption of DC inverter technology has allowed an extremely precise control of the compressor rotation speed with an energy saving up to 40% in relation to a conventional air conditioner. The DC inverter system guarantees higher entrustability and a considerable maintenance costs reduction. Once reached the settled temperature the unit works reducing the speed compressor regulation, therefore the power and energetic consumption, adapting to the demanded operating temperatures and avoiding the expensive on/off of the traditional not inverter models.

2



The function of automatic startup in case of power supply blackout (auto-restart)

The function is suitable in premises where constant temperature is of vital importance. The function ensures safety with a universal protection in case of power supply blackout. After supply of electrical energy has been restored, the air-conditioning device is automatically turned on, operating according to the last set parameters.

3



The function of hot exhaust in heating mode

In heating mode, the ventilator inside the internal unit is turned on only when the air-conditioning device heats the medium to the temperature which enables heating. Thus, the exhaust of cold air into the room is prevented.

4



Long durability of the external unit

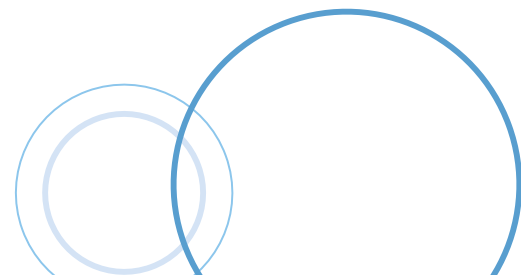
The housing of the external unit is made of electrolytic ally zinc-coated steel sheet and stainless components, and is painted without dust contamination, which prevents rusting even in seaside places thus enabling long durability.

5



Additional protection

The protection lid of the valves on the external unit enables an additional protection for the pipe valves, simultaneously protecting them against external effects.





DC Inverter – for Improving Efficiency

Features

Lower energy consumption



Higher energy consumption

Wide product series

Wide adjustment range, high level and human nature design

Coolwex DC inverter A/C can you bring perfect living condition

Comfortable

At start is used to achieve the room temperature setting quickly. Then, the capacity is adjusted according to the outdoor temperature changes and subtle indoor load changes to achieve fine-control of the room temperature setting.

Non-inverter type air conditioners must be switched on and off repeatedly, causing large fluctuations of the room temperature.

Universal outdoor unit design

Indoor unit of same capacity can match with the same outdoor unit.

High efficiency and energy saving

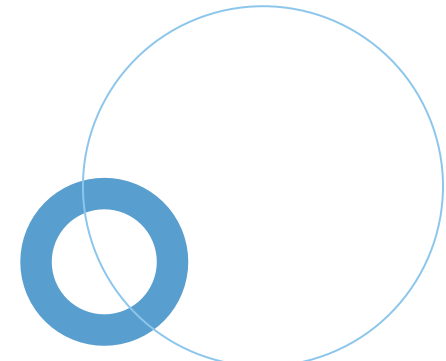
Thank to the DC Inverter technology and optimized piping system, the EER and COP of whole series can easily reach A-class.

Low noise and low starting current

The system can work with low noise and very small starting current

Working under -15°C

Outdoor unit built-in with low ambient kit, it can control the outdoor units fan and cooling can be performed throughout the year for computer rooms, banquet halls, etc. Wide operation range covers outdoor temperatures as low -15°C for cooling.



DC Inverter Cassette air-conditioners

Lower energy consumption



Higher energy consumption

- DC Inverter
- Advanced filtration system
- "Auto restart" function
- Automatic flaps oscillation
- 3D spiral ventilator form
- 4-way air outflow
- Silent operation
- "Timer" function
- "Sleep" function

The Coolwex cassette air-conditioner blends with the room

Since the cassette models are installed onto the lowered ceiling, they remain imperceptible. Namely, the entire indoor unit is installed into the ceiling, with only the mask with the entry air grille remaining visible. Devices can be used for practically all types of lowered ceilings (with minimal height required by the device). They are suitable for small as well as large premises; they are especially recommended for use in large premises (banks, post offices, shops, halls, conference rooms, restaurants...).

Excellent references for use in business premises as well as in living and representative premises

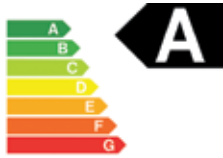
Inaudibility, comfort, economy and aesthetics are the arguments for the best experience in the use of Coolwex cassette air-conditioners. Since the four-sided air-exhaust is oriented directly below the ceiling, it does not obstruct the work and living in the room. On the contrary, living in the room becomes pleasant while the work productivity rises to the maximum level.





DC Inverter Floor/ceiling air-conditioners

Lower energy consumption



Higher energy consumption

- DC Inverter
- New design, more modern and elegant appearance
- Two direction auto swing (vertical & horizontal)
- Three level fan speed, more humanism design, meets different air-supply requirement
- Silent operation
- Advances filtration system
- "Auto restart" function
- Automatic lower flap oscillation
- Wall or ceiling installation
- "Timer" function
- "Sleep" function



DC Inverter – Future technology

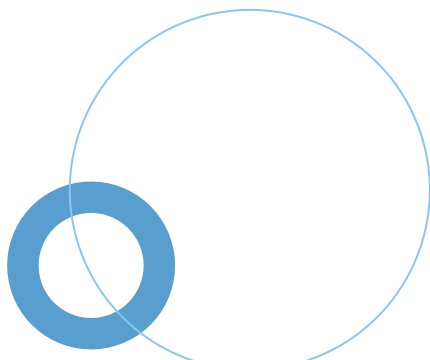
The adoption of DC inverter technology has allowed an extremely precise control of the compressor rotation speed with an energy saving up to 40% in relation to a conventional air conditioner. The DC inverter system guarantees higher entrust ability and a considerable maintenance costs reduction.

One device – two installation options

The special shape of Coolwex floor/ceiling air-conditioners provides the option of two methods of installations. The indoor unit can be used as a floor-standing unit. It can be installed as a radiator or mounted on the ceiling. Thus, the same device enables both types of installation as well as the complete adjustment to the room and requirements.

It is recommended for premises with large numbers of people

The Coolwex floor/ceiling air-conditioners have an exceptionally large circulation of air. For that reason, they perform excellently also in business facilities with a large circulation of people. We recommend them for residential as well as business premises. The automatic swinging of the longitudinal flap and a large circulation of air provide for exceptionally quick and efficient air-conditioning of the room.



DC Inverter Cassette air-conditioners

Model			CHCI 18 I 10	CBCI 24 I 10	CBCI 36 I 10	CBCI 48 I 10
Cooling capacity	rated	W	5270	7030	10545	14060
	min/max	W	3065-6019	3922-7700	5975-11732	7788-15293
Cooling Input Power	rated	W	1620	2180	3280	4330
	min/max	W	863-2006	1105-2567	1683-3911	2194-5098
Rated current	max	A	6,7	9,1	8,72	11,4
Moisture removal		l/h	1,8	2,4	3,8	4,8
Energy class cooling		EER	A	A	A	A
Heating capacity	rated	W	6150	8200	11715	15225
	min/max	W	3592-7052	3977-8809	7211-14159	8360-16416
Heating Input Power	rated	W	1700	2230	3180	4200
	min/max	W	945-2351	1047-2603	1898-4720	2200-5472
Rated current		A	7,2	9,35	8,41	10,96
Energy class heating		COP	A	A	A	A
Air flow volume - Indoor		m³/h	500/760/860	695/770/920	1200/1420/1600	1200/1420/1600
Noise level - Indoor		dB(A)	33/36/39	33/36/39	39/41/43	39/41/43
Air flow volume - Outdoor	min	m³/h	2400	3000	5000	6000
Noise level - Outdoor	middle	dB(A)	50	50	52	53
Power supply	max	V/Ph/Hz	230/1/50	230/1/50	380/3/50	380/3/50
Refrigerant filling		g	1650	2200	2600	3550
Pipe diameter		mm	6,35/12,7	9,53/16	9,53/16	9,53/16
Max. current		A	20	20	3x16	3x16
Net dimension - Body	(W/H/D)	mm	580/580/254	840/840/230	840/840/230	840/840/230
Net dimension - Panel	(W/H/D)	mm	650/650/30	950/950/55	950/950/55	950/950/55
Net dimension - Outdoor unit	(W/H/D)	mm	880/340/707	930/330/860	990/360/960	940/340/1245
Weight Body/Panel/Outdoor unit		kg	21/3/62,5	29/6/106	29/6/106	33/6/117

DC Inverter Floor/ceiling air-conditioners

Model			CTNI 18 I 10	CTNI 24 I 10	CTNI 36 I 10	CTNI 48 I 10	CTNI 60 I 10
Cooling capacity	rated	W	5270	7030	10545	14060	17575
	min/max	W	3065-6019	3922-7700	5975-11732	7788-15293	9672-18992
Cooling Input Power	rated	W	1620	2180	3290	4330	4940
	min/max	W	863-2006	1105-2567	1683-3911	2194-5098	2724-6331
Rated current	max	A	6,7	9,1	8,72	11,4	11,47
Moisture removal		l/h	1,8	2,4	3,8	4,8	6
Energy class cooling		EER	A	A	A	A	A
Heating capacity	rated	W	6150	8200	11715	15225	18160
	min/max	W	3592-7052	3977-8809	7211-14159	8360-16416	9994-19625
Heating Input Power	rated	W	1700	2230	3180	4170	4880
	min/max	W	945-2351	1047-2603	1898-4720	2200-5472	2630-6542
Rated current		A	7,35	9,4	8,33	10,99	11,4
Energy class heating		COP	A	A	A	A	A
Air flow volume - Indoor		m³/h	700/810/910	700/810/910	1000/1200/1400	1600/1800/2000	1600/1800/2000
Noise level - Indoor		dB(A)	33/36/38	35/38/40	35/38/40	39/41/42	39/41/42
Air flow volume - Outdoor	min	m³/h	2400	3000	5000	6000	6000
Noise level - Outdoor	middle	dB(A)	50	50	52	53	53
Power supply	max	V/Ph/Hz	230/1/50	230/1/50	380/3/50	380/3/50	380/3/50
Refrigerant filling		g	1650	2200	2600	3550	4200
Pipe diameter		mm	6,35/12,7	9,53/16	9,53/16	9,53/16	9,53/16
Max. current		A	20	20	3x16	3x16	3x16
Net dimension - Indoor unit	(W/H/D)	mm	995/660/198	995/660/198	1285/660/198	1670/680/240	1670/680/240
Net dimension - Outdoor unit	(W/H/D)	mm	880/707/340	880/707/340	980/960/360	940/1245/340	940/1245/340
Weight Indoor/Outdoor unit		kg	29/63	29/72	37/106	54/117	54/117



Coolwex group USA
www.coolwex.com



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Dealer: