

Air-air units
outdoor unit with axial
fan and vertical discharge

AirDuo RSK Series
Air-air cooling units

AirDuo ISK Series
Air-air heat pump units

TECHNICAL BROCHURE

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AirDuo SK-CK



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Split-system cooling units and heat pumps



Outdoor unit: SK



Indoor unit: CK



Cooling capacity: 20,6 to 134,8 kW
 Heating capacity: 22,9 to 144,9 kW

Scroll compressors
 R-410A refrigerant
 Configuration flexibility
 Silent operation

DESCRIPTION

The **AirDuo** cooling units and heat pumps are units which feature a split-system construction with components optimised for the R-410A refrigerant.

They are presented in two different elements:

- An outdoor unit (RSK/ISK series) equipped with an axial fan with free vertical supply, hermetic scroll-type compressor and electrical panel with electronic control.
- An indoor unit or air-conditioning unit (RCK/ICK series) equipped with centrifugal fan and expansion valve.

A vast number of options meet numerous operating demands.

All of the units are tested and checked in the factory.

SERIES

Outdoor unit

RSK series: Outdoor unit **cooling-only** air-condensed, designed for installation outdoors.

ISK series: Outdoor air-air reversible **heat pump** unit, designed for installation outdoors.

Indoor unit

RCK series: Indoor unit **cooling-only** with horizontal construction, designed for installation indoors, connected to a network of ducts.

ICK series: Indoor reversible **heat pump** unit with horizontal construction, designed for installation indoors, connected to a network of ducts.

RANGE

	1 cooling circuit 1 compressor						2 cooling circuits 2 compressors							
SK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
CK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
	-	-	-	-	-	-	2 x 100	2 x 120	2 x 160	2 x 180	-	-	-	-

OPERATING LIMITS

Inlet air conditions		Cooling	Heating
Indoor coil	Minimum	14 °C WB	10 °C
	Maximum	22 °C WB	27 °C
Outdoor coil	Minimum	12 °C ①	-10 °C WB
	Maximum	48 °C	15 °C WB

① With control of operation condensation pressure activated up to -10°C.

UNIT COMPONENTS

Outdoor unit SK

- Casing made of galvanised steel metal with polyester paint, white colour RAL 7035. Self-supporting frame.

Outdoor air circuit

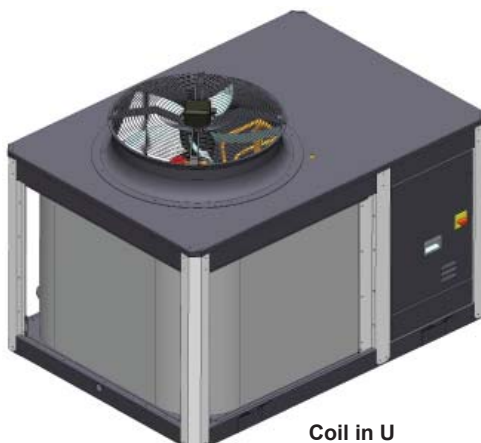
- Axial 2-speed fan(s) directly coupled to the motor (models 90 to 182 wired to high speed). Watertight motor class F, IP54 and internal thermal protection. Dynamically balanced propellers and outdoor protective grille.
- Coil(s) with copper pipes and aluminium fins. Two designs:
 - Models 90 to 320: Coil in U
 - Models 360 to 600: Coils in V
- Condensate drain pan (in models 360 to 600).

Cooling circuit

- Hermetic scroll-type compressor(s) with sound insulation, assembled over shock absorbers. Control of phase equilibrium and the direction of rotation.
- Crankcase heater.
- Thermostatic expansion valve(s) with external equalisation (heat pump units).
- Four-way cycle reversing valve(s) (heat pump units).
- Particle separator(s), anti-acid dehydrating filter(s) and liquid receiver(s).
- Cooling connections for welding.
- Maximum equivalent length of the cooling line 50 metres (for longer distances, it is necessary to use an oil separator).

Protections

- High and low pressure pressostats.
- Compressor discharge temperature control.
- Non-return valve built into the compressor.
- Main door switch.
- Magnetothermic protection switches for the compressor(s) and fan(s) motor power line.
- Automatic switch in the control circuit.



Coil in U

Electric panel

- Complete and fully wired electrical panel. Insulated panel cover to prevent condensation. Protection IP55.
- Transformer for power supply without neutral included in the electrical panel.
- Main ground connection.
- Compressor(s) and fan(s) motor contacts.

Indoor unit CK

- Casing made of galvanised steel metal with polyester paint, white colour RAL 7035. Self-supporting frame.

Indoor air circuit

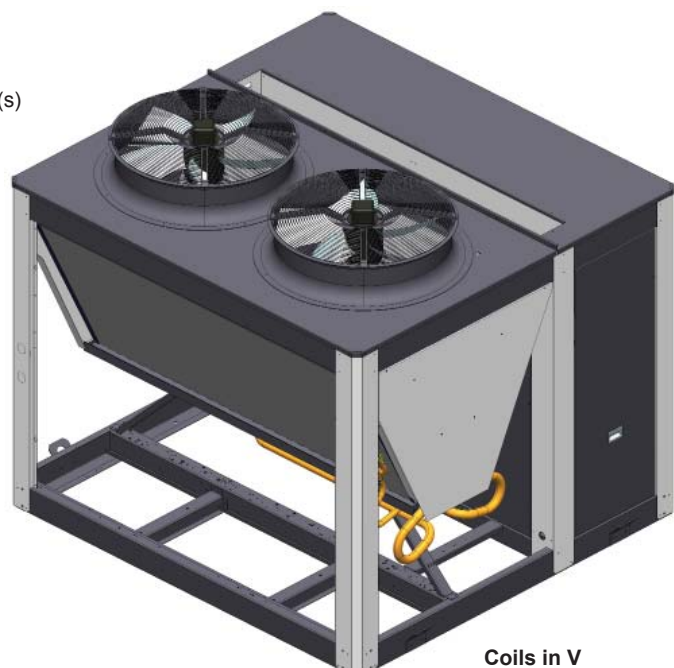
- Coil(s) with copper pipes and aluminium fins.
- Centrifugal fan(s) coupling by pulleys and belts. Electric motor(s) with tensioner, class F, IP55 and internal thermal protection. Double-intake turbines, with an impeller of front-curved blades. Greased spherical bearings, with no maintenance required.
- Reusable air filters, assembled on a frame.
- Condensate drain pan.

Cooling circuit

- Thermostatic expansion valve(s) with external equalisation (check valve in ICK series).

Protections

- Main door switch.



Coils in V



Split-system cooling units and heat pumps

Electronic controls

AVANT / AVANT+ electronic control (standard)

Available in two versions:

- AVANT : models 90 to 182
- AVANT+ : models 200 to 600

Note: Optionally, the models 90 to 182 can incorporate the AVANT+ version.

AVANT / AVANT+ control is an electronic module with microprocessor comprised of a control board and a TCO user terminal that ensures the following functions:

- Selection of the operating mode:
 - HEATING
 - COOLING
 - AUTO *Auto*
 - DEHUMIDIFICATION
 - FAN (no icon).
- Modification of the setpoint.
- Permanent control of the operating parameters.
- View of the values measured by the sensors.
- View of the alarms produced by means of codes.
- Timing of the compressors.
- Control of the compressor discharge temperature by probe.
- Control of the ambient temperature thanks to the probe incorporated into TCO terminal. This probe can be replaced by an return or ambient probe that would be installed in the control board.
- Operation during all seasons via the condensation and evaporation pressure control.
- Control of the outlet temperature to improve thermal **comfort level** of the installation.
 - In cooling mode this control prevents excessively significant drops in the ambient temperature.
 - In heating mode, it prevent the stratification of the hot air masses.
- The following features improve the energy management of the installation:



Defrosting management (in heat pump units). Possibility of **intelligent defrosting** that reduces energy consumption of the heat pump, by adjusting the time between defrosting operations to the actual needs of the unit.



Compensation of the setpoint based on the outdoor temperature. This function prevents thermal "shock" between the inside and outside of the premises whilst at the same time provides significant energy savings



Time schedule that reduces energy consumption, adjusting the needs of air conditioning of the building throughout the day.

TCO terminal has a schedule programmer with an intuitive graphic interface that allows 6 time slots to be chosen for each day of the week. A change in the setpoint temperature or the disconnection of the unit can be scheduled in these time slots (according to the building occupancy).



Optional functions:

- Control of the auxiliary electrical heaters.
- Proportional control of a hot water auxiliary coil.
- Humidity control.
- Anti-fire safety.
- Control of the opening of the outdoor air damper.
- Management of thermal free-cooling.
- Detection of clogged filters and air flow control.
- Connection to a centralised technical management system (BMS) for supervision (please see "Optional" chapter).

Optionally, this control can have a terminal for pGD1 maintenance that facilitates the initial scheduling of the unit, the modification of the operating parameters and the description of the alarms produced.



CIATrc electronic control (optional)

Electronic module with microprocessor comprised of a control board and a pGD1 graphic terminal installed over the unit electric panel and accessed using a polycarbonate collapsible window.

Optionally this terminal can be replaced by a TCO user terminal for installation inside of the premises. In this case the TCO terminal are not allowed to access parameters control and time schedule.

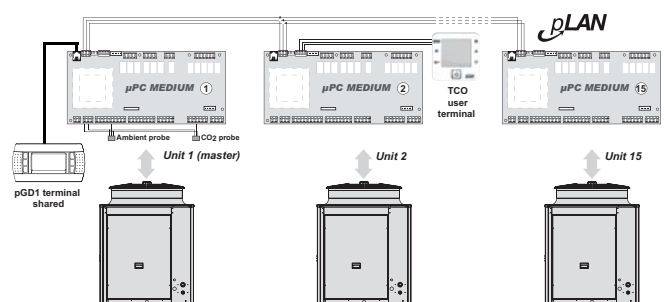
The management of the ambient temperature is controlled via a NTC ambient probe. This probe can be replaced by 1 or 2 RS485 probes.



In addition to the functions described in AVANT / AVANT+ control, this control allows controlling optional elements such as:

- Electronic plug-fans.
- Enthalpic or thermoenthalpic free-cooling.
- Smoke detecting station.
- Air quality probe for measuring CO₂ and/or volatile compounds..
- Energy meter.
- Refrigerant leak detector.

It also manages a local connection between units through a pLAN network (μPC MEDIUM Local Area Network), thus allowing communication of data and information for a maximum of 15 units. This enables the reduction of the number of pGD1 terminals, since a single shared terminal can monitor all control boards. It also allows to share the reading of some probes.



OPTIONAL

Optional for the outdoor unit SK

Outdoor environment

Temperature

- Electrical heater for protection of the components of the electric panel. This is compulsory if the outdoor temperature is lower than -8°C WB. With an outdoor temperature over than -16°C WB will be compulsory a reinforced resistance.
- Compressor with protection for low temperature (supplementary crankcase heater). This is compulsory if the outdoor temperature is lower than -8°C WB.

Corrosion

- Coil with copper pipes and copper fins.
- INERA® coil with copper pipes and fins of an aluminium alloy, of high performance and great resistance to the corrosion.
- Coil with copper pipes and aluminium fins with polyurethane and Blygold® coating.

Humidity

- Tropicalised electric panel.
- Tropicalised motors and fans (please consult).

Installation

- Antivibration mounts made of rubber.
- Service valves for cooling connections.
- Oil separator for cooling connections with maximum equivalent length of the cooling line greater than 50 metres.
- Air coil protection grille (in models 90 to 320).



- Condensates drain pan (in models 90 to 320).

Electric panel

- Electrical power supply with neutral.
- Energy meter for monitoring of the power consumption of the installation (with CIATrct control).
 - Models 90 to 182: available if the unit does not incorporate electrical heaters.
 - Models 200 to 600: available with all optional.



Energy saving



Electronic EC axial fans that adjust their rotation speed to the installation requirements, thereby reducing electricity consumption, the sound level at partial charge and improving the average seasonal output of the unit.

Optional for the indoor unit CK

Outdoor environment

Corrosion

- Coil with copper pipes and copper fins.
- INERA® coil with copper pipes and fins of an aluminium alloy, of high performance and great resistance to the corrosion.
- Coil with copper pipes and aluminium fins with polyurethane and Blygold® coating (indoor unit and/or hot water coil).
- Condensates drain pan in stainless steel.

Humidity

- Stop-drop in the indoor air coil. Recommended in cases where a high moisture content in the air is foreseen or when the air flow is high.
- Stop-drop in the outdoor air intake.

Comfort / heating options

- Hot water auxiliary coil, with three-way valve. Two options:

- Nominal coil for heating in cooling-only units.
- Auxiliary coil for heating in heat pump units.

If the unit includes hot water coil and free-cooling, and works with negative temperatures of outdoor air, an anti-freeze thermostat as safety system is mandatory.

- Auxiliary electrical heaters. With this option, the air flow controller is included.

Comfort / indoor air quality options

- Filtration of the supply air:

- Gravimetric filter G4.
- Gravimetric filter G4 + creased opacimetric filters F6 to F9.

- Filtration of the return air (with centrifugal return fan):

- Gravimetric filter G4.
- Gravimetric filter G4 + creased opacimetric filters F6.

- Air quality probe for installation in the environment or in duct to enable measuring CO₂ and/or volatile compounds (with CIATrct control).





Split-system cooling units and heat pumps

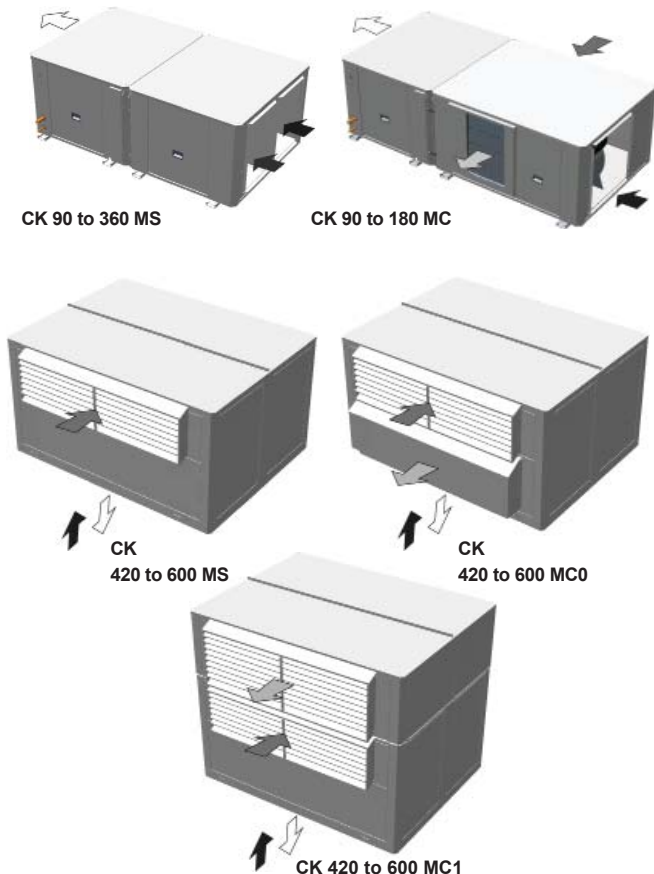
Installation

- Antivibration mounts made of rubber.
- Position of supply and/or return of the indoor unit air.
- Supply and/or return fan with high available pressure.
- Electronic plug-fan(s) in air supply (upon request).
- **Compatibility 2 x 1**: two indoor units: CK and one outdoor unit: SK (models 200 to 360) with a single terminal.
 - Two indoor units operate simultaneously.
 - This optional is not possible for indoor units with supply plug-fan or mixing box.

Compatibility 2 x 1	Models			
Outdoor unit: SK	200	240	320	360
Indoor unit: CK	2 x 100	2 x 120	2 x 160	2 x 180

- Assemblies with **mixing box** for air renewal and free-cooling:
 - 2 motorised dampers:
 - * MS assembly: outdoor air intake.
 - 3 motorised dampers:
 - * MC assembly: outdoor air intake, air extraction and centrifugal return (models 90 to 180 and 420 to 600) or plug-fan (models 420 to 600 with MC0 assembly).
- Note: Plug-fan in models 420 to 600 with MC0 assembly: upon request.

All the possible combinations of "Assemblies with mixing boxes" are represented on the following page.



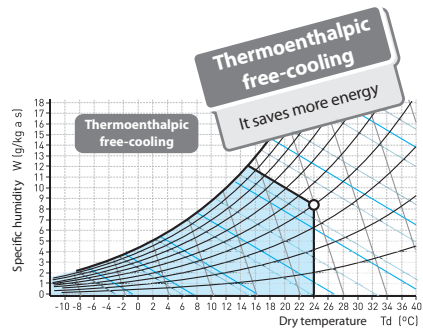
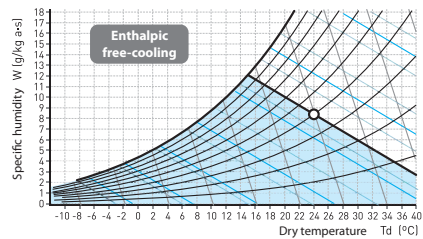
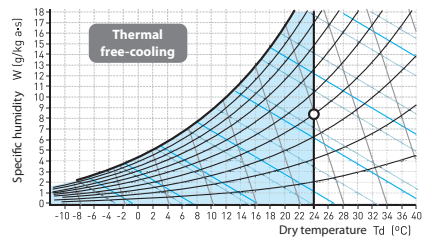
Free-cooling



On units with mixing box, the free-cooling can be managed by the electronic control. This function allows the outdoor air conditions to be taken advantage of when these are more favourable than those of the return (or ambient) air. As such, this allows the cooling capacity to be reduced under these circumstances. The percentage of air renewal will range from 0% to 100%.

There are three options for the free-cooling management:

- Thermal, with comparison of temperatures.
- Enthalpic, with comparison of enthalpies.
- Thermoenthalpic, with comparison of enthalpies and a correction for temperature.



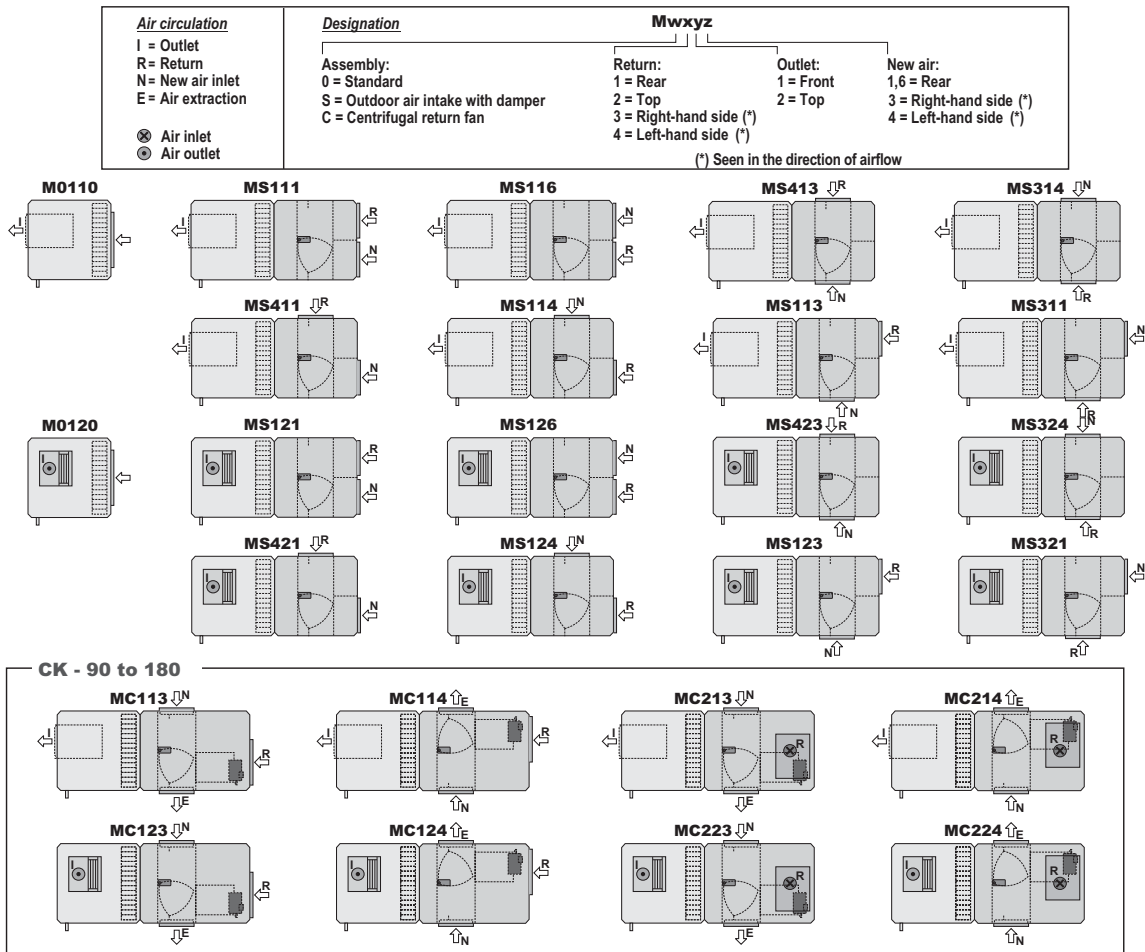
Note: With enthalpic or thermoenthalpic free-cooling change to the CIATrtrc electronic control is obligatory

Safety

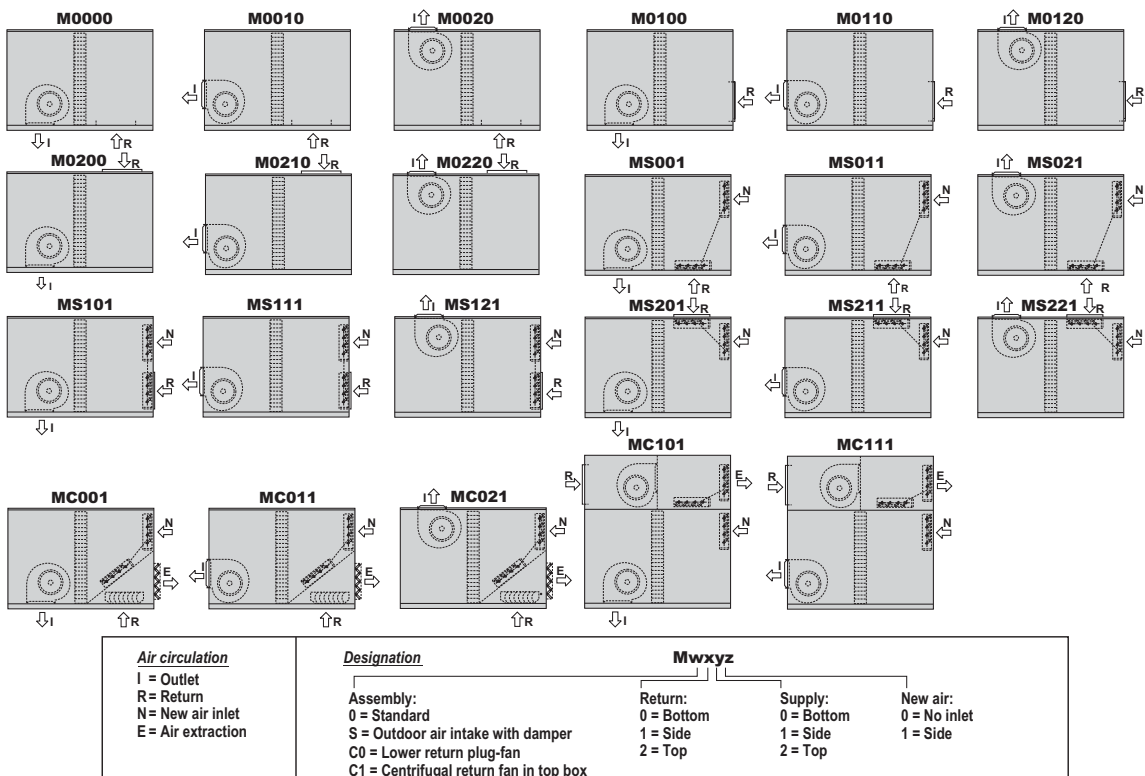
- Soft starter of the supply and/or return centrifugal fans which prolongs the set time mainly aimed at installations with cloth ducts. Compulsory for motors with an output of 15 kW and above.
- Differential pressostat for the detection of clogged filters.
- Differential pressostat for control of air flow.
- Smoke detecting station in accordance with the NF S 61-961 standard.
- Refrigerant leak detector (with CIATrtrc control). This allows prompt identification of gas leaks, guaranteeing the safety of any people in the vicinity. Installation of the device ensures compliance with European standards F-GAS and EN378 as well as ASHRAE 15.



CK - 90 to 360: assemblies with mixing box (plan view)



CK - 420 to 600: assemblies with mixing box (raised view)





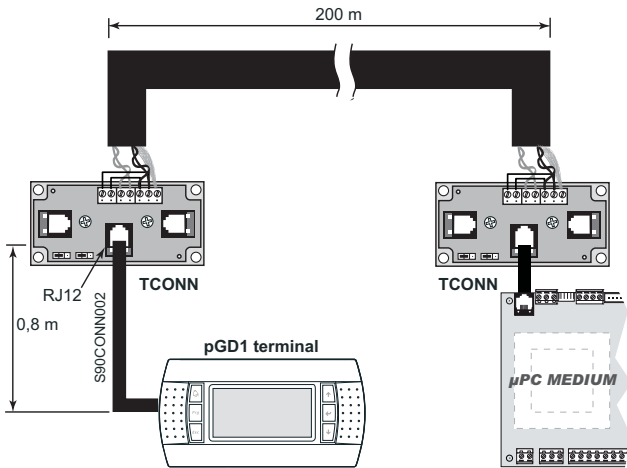
Split-system cooling units and heat pumps

Optional for electronic controls

Control

AVANT / AVANT+ (standard)

- pGD1 terminal for maintenance of the unit.
- Kit remote control to 200 meters with pGD1 terminal (pGD1 terminal + 2 TCONN bypass cards).



- Return or ambient temperature probe connected to the board that replaces the ambient probe of the thermostat TCO. Return probe is required for anti-fire safety.
- Mixing temperature probe: compulsory to manage of the free-cooling.

CIATrtc (optional)

- TCO user terminal, instead of pGD1 terminal.
- Control without pGD1 terminal (for units with shared terminal).
- Kit remote control to 200 meters with pGD1 terminal (pGD1 terminal + 2 TCONN bypass cards).
- Ambient temperature probe with RS485 communication. By default the control incorporates a NTC probe.
Note: An ambient probe with RS485 communication is required for installation to more than 30 m.
- Double ambient temperature probe with RS485 communication.
- Ambient T+RH probe with RS485 (compulsory in units with enthalpic or thermoenthalpic free-cooling as optional). In this case also added outdoor air humidity probe.
- Air quality probe for installation in the environment or in duct to enable measuring CO₂ and/or volatile compounds.

Communication

AVANT / AVANT+ and CIATrtc controls allow the connection to a centralised technical management system by using a specific BMS card for some of the following communication protocols:

- RS485 serial cards for network communication with protocols: Carel, Modbus, LonWorks®, BACnet™ MSTP, Konnex.
- Ethernet pCO Web card for network communication with protocols: Modbus TCP/IP, BACnet™ Ethernet, TCP/IP, SNMP V1-2-3, FTP and HTTP.

Supervision solutions

Different solutions of supervision are available according to the dimensions of the installation.

• pCO Web

It is the solution for the management and supervision of a single unit if it incorporates the Ethernet pCO Web card.

• PlantWatchPRO3

It is a solution designed for the monitoring of installations of medium - small dimensions, with ability to manage up to 30 units. Suitable for technical environments, it has no parts in movement. It's available in two versions: panel and wall.

Includes: 7 " touch display, buzzer for notifications, 1 USB port and 1 SD card slot for downloading reports, charge devices models and applying service packs.

In this case, each unit needs one RS485 Carel / Modbus board.

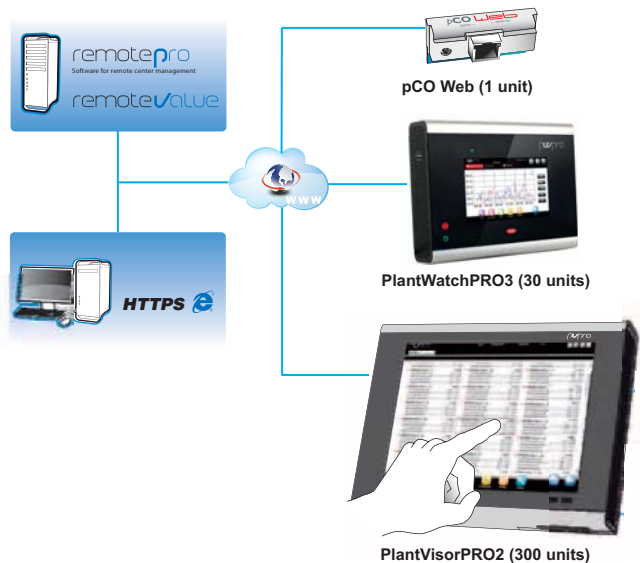
• PlantVisorPRO2

This is the solution for the management and supervision of air-conditioning installations with up to 300 units. It performs advanced monitoring and maintenance functions and enables creating areas and groups which simplify the management of the installation. It also allows the integration of energy meters for monitoring the power consumption of the installation.

PlantVisorPRO2 is available in two versions:

- **Box:** comprised of the CPU unit and, optionally, by monitor and keyboard.
- **Touch:** this includes the CPU and the touchscreen in the one device.

In this case, each unit needs one RS485 Carel / Modbus board.



These systems allow the installation in remote management. Through a single connection to the Internet is accessed the information system. The Web interface, which is available for the local user, allows the monitoring and the complete configuration of the installation: from the office or any other user's current location.

For remote control of multiple sites, there are dedicated tools for centralized management as **RemotePRO** and **RemoteValue**.



Split-system cooling units and heat pumps

AirDuo SK-CK

TECHNICAL CHARACTERISTICS (EN-14511-2013)

SK		90	100	120	160	180	182	200
Cooling capacities	Cooling capacity ① (kW)	20,6	22,9	27,0	35,8	38,3	40,7	47,6
	Power input ③ (kW)	7,2	8,3	9,5	14,0	15,5	14,6	17,5
	EER performance	2,86	2,75	2,83	2,56	2,48	2,78	2,73
Heating capacities	Heating capacity ② (kW)	22,9	25,8	31,2	41,0	44,7	46,8	55,2
	Power input ③ (kW)	6,7	7,6	9,4	12,2	14,3	15,0	17,1
	COP performance	3,42	3,38	3,30	3,37	3,12	3,13	3,23
Outdoor circuit axial fan	Nominal air flow (m³/h)	10.000		14.200			20.000	
	Available static pressure (mm.w.c)	--						
	Number	1						
	Diameter (mm)	630			800			
	Output (kW)	0,7 / 0,4		0,8 / 0,5			2,0 / 1,3	
	Speed (r.p.m.)	875 / 650		680 / 540			895 / 705	
Compressor	Type	Scroll						
	No. compressors / No. circuits / No. stages	1 / 1 / 1						2 / 2 / 2
	Oil type	Copeland 3MAF 32 cST, Danfoss POE 160 SZ, ICI Emkarate RL32 CF, Mobil EAL Artic 22 CC						
	Volume of oil (l)	3,0	3,3	3,3	3,3	6,2	6,2	2 x 3,3
Cooling connections	Circuit 1: Liquid line	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	1/2"
	Circuit 1: Gas line	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
	Circuit 2: Liquid line	--	--	--	--	--	--	1/2"
	Circuit 2: Gas line	--	--	--	--	--	--	1 1/8"
Refrigerant	Type	R-410A						
	Global warming potential (GWP) ④	2.088						
	Load up to 7,5 m (kg)	6,3	6,4	8,6	8,2	9,2	12,8	17,3
	Environment impact (tCO2 e)	13,2	13,4	18,0	17,1	19,2	26,7	36,1
Electrical features	Mains voltage	400 V / III ph / 50 Hz (±10%)						
	Power supply	3 Wires + Ground						
Maximum absorbed current	Compressor(s) (A)	15,3	18,5	20,1	25,1	29,1	29,1	37,0
	Fan (A)	1,3	1,3	2,2	2,2	2,2	4,3	4,3
	Control (A)	0,9	0,9	0,9	0,9	0,9	0,9	1,8
	Total (A)	17,5	20,7	23,2	28,2	32,2	34,3	43,1
Dimensions	Length (mm)	1.511		1.511			1.811	
	Width (mm)	1.066		1.066			1.066	
	Height (mm)	1.088		1.413			1.763	
Weight	(kg)	275	281	317	326	368	388	490
CK		90	100	120	160	180	182	200
Indoor circuit centrifugal fan	Nominal air flow (m³/h)	4.000	4.600	5.200	7.000	7.000	8.000	9.200
	Available static pressure (mm.w.c)	15	15	15	15	15	15	20
	Number / turbines	1 / 1					2 / 2	
	Motor output (kW)	1,1	1,1	1,1	1,5	1,5	2 x 0,75	2 x 1,1
	Power input (kW)	0,61	0,83	0,88	1,08	1,08	2 x 0,59	2 x 0,91
	Speed (r.p.m.)	985	1049	916	761	761	963	1126
Max. absorbed current	Fan (A)	2,7	2,7	2,7	3,6	3,6	4,2	5,4
Dimensions	Length (mm)	1.190		1.520			2.144	
	Width (mm)	950		1.028			950	
	Height (mm)	731		731			731	
Weight	(kg)	147	147	190	199	199	262	262

① Cooling capacity calculated in accordance with the EN-14511-2013 standard given for indoor temperature conditions 27°C (19°C WB) and 35°C outdoor temperature.

② Heating capacity calculated in accordance with the EN-14511-2013 standard given for indoor temperature conditions 20°C and 6°C WB outdoor temperature.

③ Total power input by compressors and motorised fans under nominal conditions, calculated in accordance with the EN-14511-2013 standard.

④ Climatic warming potential of a kilogram of fluorinated greenhouse gas in relation to a kilogram of carbon dioxide over a period of 100 years.



Split-system cooling units and heat pumps

TECHNICAL CHARACTERISTICS (EN-14511-2013)

SK		240	320	360	420	485	540	600	
Cooling capacities	Cooling capacity ① (kW)	52,8	71,2	82,5	100,9	108,7	122,9	134,8	
	Power input ③ (kW)	20,8	28,9	30,4	34,3	39,2	44,7	50,7	
	EER performance	2,55	2,46	2,72	2,94	2,77	2,75	2,66	
Heating capacities	Heating capacity ② (kW)	62,6	80,7	95,3	109,7	120,1	132,9	144,9	
	Power input ③ (kW)	20,4	25,7	32,2	34,5	39,8	42,9	47,3	
	COP performance	3,07	3,14	2,96	3,18	3,02	3,10	3,07	
Outdoor circuit axial fan	Nominal air flow (m³/h)	20.000		39.000		37.000			
	Available static pressure (mm.w.c)	--							
	Number	1		2					
	Diameter (mm)	800							
	Output (kW)	2,0 / 1,3							
	Speed (r.p.m.)	895 / 705							
Compressor	Type	Scroll							
	No. compressors / No. circuits / No. stages	2 / 2 / 2							
	Oil type	Copeland 3MAF 32 cST, Danfoss POE 160 SZ, ICI Emkarate RL32 CF, Mobil EAL Artic 22 CC							
	Volume of oil (l)	2 x 3,3	2 x 3,3	2 x 6,2	2 x 6,2	2 x 6,2	2 x 6,2	2 x 6,2	
Cooling connections	Circuit 1: Liquid line	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"	
	Circuit 1: Gas line	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	
	Circuit 2: Liquid line	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	
	Circuit 2: Gas line	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	
Refrigerant	Type	R-410A							
	Global warming potential (GWP) ④	1.720							
	Load up to 7,5 m (kg)	17,4	22,2	22,7	31,4	31,4	33,4	33,6	
	Environment impact (tCO2 e)	36,3	46,4	47,4	65,6	65,6	69,7	70,2	
Electrical features	Mains voltage	400 V / III ph / 50 Hz (±10%)							
	Power supply	3 Wires + Ground							
Maximum absorbed current	Compressor(s) (A)	40,2	50,2	58,2	68,9	79,6	91,1	102,6	
	Fan (A)	4,3	4,3	8,6	8,6	8,6	8,6	8,6	
	Control (A)	1,8	1,8	1,8	1,8	1,8	1,8	1,8	
	Total (A)	46,3	56,3	68,6	79,3	90,0	101,5	113,0	
Dimensions	Length (mm)	1.811	1.811	2.201					
	Width (mm)	1.066	1.066	2.069					
	Height (mm)	1.763	2.063	1.966					
Weight (kg)	492	544	974	1.024	1.029	1.078	1.127		
CK		240	320	360	420	485	540	600	
Indoor circuit centrifugal fan	Nominal air flow (m³/h)	10.300	14.000	15.500	18.000	18.200	20.400	24.000	
	Available static pressure (mm.w.c)	20	20	20	20	20	20	20	
	Number / turbines	2 / 2			1 / 3				
	Motor output (kW)	2 x 1,5	2 x 1,5	2 x 2,2	4	4	4	5,5	
	Power input (kW)	2 x 0,94	2 x 1,15	2 x 1,39	2,52	2,82	2,96	3,40	
	Speed (r.p.m.)	974	789	816	677	677	643	681	
Max. absorbed current	Fan (A)	7,2	7,2	10,0	9,0	9,0	9,0	11,6	
Dimensions	Length (mm)	2.144	2.804		2.853				
	Width (mm)	950	1.028		2.160				
	Height (mm)	731	800		1.524				
Weight (kg)	262	365	365	920	920	963	964		

- ① Cooling capacity calculated in accordance with the EN-14511-2013 standard given for indoor temperature conditions 27°C (19°C WB) and 35°C outdoor temperature.
 ② Heating capacity calculated in accordance with the EN-14511-2013 standard given for indoor temperature conditions 20°C and 6°C WB outdoor temperature.
 ③ Total power input by compressors and motorised fans under nominal conditions, calculated in accordance with the EN-14511-2013 standard.
 ④ Climatic warming potential of a kilogram of fluorinated greenhouse gas in relation to a kilogram of carbon dioxide over a period of 100 years.



SOUND LEVELS dB(A)

Sound power level on the outdoor unit

SK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
20 Hz	19,2	20,5	33,6	30,8	25,9	25,9	29,8	29,9	33,5	33,4	31,9	32,1	32,2	32,0
25 Hz	21,3	22,3	36,5	33,8	30,0	30,0	33,6	33,3	36,8	36,8	35,7	36,3	36,3	35,8
31,5 Hz	24,9	26,2	39,2	36,3	33,5	33,5	37,1	37,1	39,0	40,8	39,3	39,4	39,4	39,4
40 Hz	29,0	30,1	42,6	39,7	38,3	38,3	42,1	42,3	41,3	46,2	46,3	46,3	46,3	46,0
50 Hz	39,9	40,9	51,5	48,5	49,9	49,9	58,1	58,2	50,4	66,1	65,4	65,8	65,8	65,3
63 Hz	36,3	37,5	53,5	50,7	55,2	55,2	55,0	55,4	55,5	55,0	58,1	57,9	57,9	57,7
80 Hz	40,8	42,2	57,4	54,8	70,2	70,2	67,6	68,1	71,2	65,6	68,6	68,8	68,8	68,6
100 Hz	55,0	56,2	58,8	55,8	56,6	56,6	62,3	62,1	55,1	67,7	64,9	64,9	64,9	64,9
125 Hz	47,5	48,9	56,9	54,4	60,8	60,8	60,1	60,3	58,4	59,4	68,8	68,7	68,7	68,5
160 Hz	50,0	51,2	59,9	57,0	74,3	74,3	71,1	71,0	68,5	67,9	79,0	79,5	79,5	79,2
200 Hz	62,6	63,8	62,3	59,7	69,2	69,2	70,5	70,6	66,8	72,2	78,5	78,9	78,9	78,5
250 Hz	56,8	58,2	65,6	63,0	73,3	73,3	73,2	73,0	70,9	73,0	80,2	79,9	79,9	79,8
315 Hz	60,1	61,5	70,3	67,8	73,9	73,9	75,0	74,9	71,5	76,1	80,3	80,6	80,6	80,4
400 Hz	61,2	62,5	70,4	67,5	76,7	76,7	77,4	77,3	73,5	77,8	81,5	82,0	82,0	81,5
500 Hz	62,2	63,4	71,6	69,0	78,3	78,3	78,6	78,5	77,5	79,2	82,4	82,5	82,5	82,2
630 Hz	63,6	64,7	72,5	69,6	77,8	77,8	77,9	78,2	76,8	78,2	82,4	82,2	82,2	82,2
800 Hz	65,2	66,3	72,7	70,0	78,4	78,4	78,5	78,6	77,2	78,3	82,9	83,0	83,0	82,9
1000 Hz	65,6	67,0	73,4	70,8	80,1	80,1	79,7	79,8	80,0	79,6	83,8	83,8	83,8	83,6
1250 Hz	64,8	66,1	75,1	72,5	78,0	78,0	79,2	79,1	78,8	80,5	81,9	81,9	81,9	81,8
1600 Hz	63,1	64,2	71,3	68,6	74,9	74,9	75,4	75,5	75,2	76,5	79,5	79,7	79,7	79,4
2000 Hz	60,8	62,1	69,5	66,9	74,2	74,2	74,6	75,0	75,3	75,2	77,8	78,1	78,1	77,7
2500 Hz	57,5	58,6	70,1	67,5	71,9	71,9	72,9	72,6	71,6	73,6	75,8	76,1	76,1	75,8
3150 Hz	54,7	56,0	67,2	64,6	69,9	69,9	70,7	71,0	69,7	71,6	73,9	73,6	73,6	73,6
4000 Hz	53,3	54,7	63,3	60,5	68,1	68,1	68,9	69,1	66,8	69,9	70,9	70,8	70,8	70,7
5000 Hz	54,0	55,5	62,2	59,4	65,9	65,9	66,9	67,0	64,4	67,6	67,8	67,6	67,6	67,6
6300 Hz	51,9	53,1	58,5	55,8	62,7	62,7	64,9	64,9	61,8	66,8	66,6	66,6	66,6	66,2
8000 Hz	49,6	51,0	55,5	52,6	59,4	59,4	61,2	61,3	58,4	63,5	63,1	63,3	63,3	62,8
10000 Hz	45,4	46,7	51,3	48,6	56,3	56,3	59,1	59,0	54,7	62,0	58,3	58,5	58,5	58,0
12500 Hz	40,8	42,1	47,0	44,0	51,3	51,3	57,1	57,2	49,7	60,0	52,3	52,4	52,4	52,2
16000 Hz	34,9	36,3	41,4	38,5	45,4	45,4	54,9	54,9	44,7	59,0	46,4	46,5	46,5	46,5
20000 Hz	28,1	29,1	34,3	31,7	37,9	37,9	49,5	49,7	38,1	59,0	39,3	39,4	39,4	39,5
Total dB(A)	74	75	83	80	88	88	88	88	87	89	92	92	92	92

Sound pressure level on the outdoor unit

Measurement conditions: in free field, measured at a distance of 5 metres, directivity 2 and at 1.5 metres from the ground.

SK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
Total dB(A)	48	49	56	54	62	62	62	62	60	62	65	66	66	65

Note: The sound pressure level depends on the installation conditions and, as such, it only indicated as a guide. Values obtained according to standard ISO 3744.

Sound power level on the indoor unit

Sound power level in the indoor fan outlet to be taken into account for the silencer calculation:

CK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
Total dB(A)	79	82	80	80	80	82	85	82	83	85	86	87	89	92

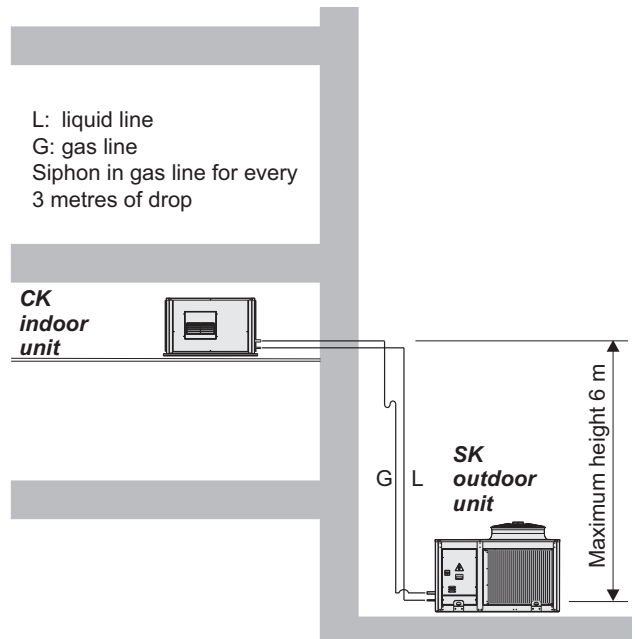
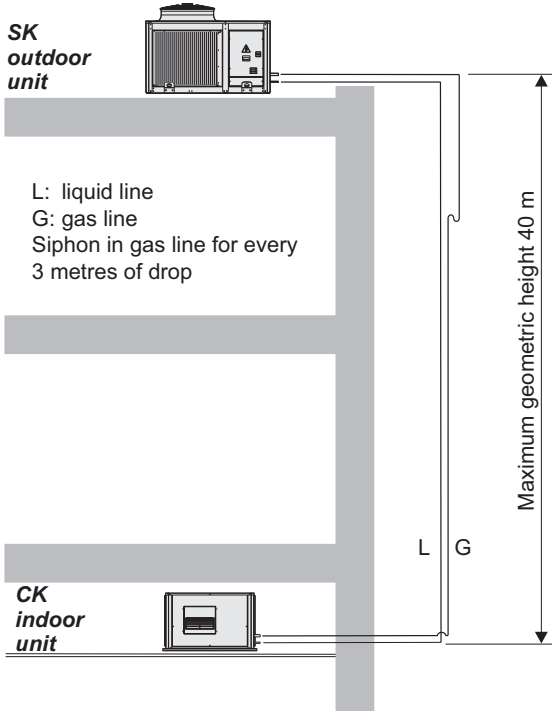
RECOMMENDATIONS FOR THE COOLING CONNECTION

Outdoor unit top

Maximum equivalent length of the cooling line: 50 metres
For longer lengths an oil separator must be used

Outdoor unit bottom

Maximum equivalent length of the cooling line: 7 metres



ADDITIONAL LOAD OF R-410A REFRIGERANT

Additional load per linear metre of piping for equivalent maximum lengths exceeding 7 metres:

Nominal diameter (inches)	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
Interior section (cm ²)	0,149	0,444	0,900	1,505	2,282	3,120	4,290	5,346
Liquid line charge (g/m)	19,3	57,0	115,0	193,5	292,3	404,1	550,3	685,7
Gas line charge (g/m)	--	0,2	0,4	0,7	1,0	1,4	2,0	2,5

OPTIONAL FOR THE OUTDOOR UNITS: SK SERIES

Electronic axial fan

SK		90	100	120	160	180	182	200	240	320	360	420	485	540	600	
Max. available static pressure	(mm.w.c)	15	12,5													
Number / diameter	(mm)	1 / 630	1 / 800						2 / 800							
Motor output	(kW)	1 x 0,9	1 x 2,1						2 x 2,1							
Maximum speed	(r.p.m.)	1.000	1.100													
Maximum absorbed current	(A)	2,0	3,4						6,8							



OPTIONAL FOR THE INDOOR UNITS: CK SERIES

Lower radial centrifugal return fan (MC0 assembly)

CK		420	485	540	600
Nominal air flow	(m ³ /h)	18.000	18.200	20.400	24.000
Available static pressure	(mm.w.c)	21	21	19	17
Number / diameter		4 / 500			
Motor output	(kW)	2 x (2,7 + 1,4)			
Speed	(r.p.m.)	2 x 1.700 / 2 x 1.375			
Maximum absorbed current	(A)	14,6			

Centrifugal return fan (MC1 and MC2 assembly)

CK		90	100	120	160	180	420	485	540	600	
Nominal air flow	(m ³ /h)	4.000	4.600	5.200	7.000	7.000	18.000	18.200	20.400	24.000	
Available static pressure	(mm.w.c)	15	15	15	15	15	20	20	20	20	
Number / turbines		1 / 1					1 / 2				
Motor output	(kW)	0,75	1,1	0,75	1,1	1,1	4	4	5,5	5,5	
Power input	(kW)	0,48	0,65	0,58	0,72	0,72	2,73	2,85	3,57	3,86	
Speed	(r.p.m.)	834	882	689	578	578	602	616	644	619	
Maximum absorbed current	(A)	2,1	2,7	2,1	2,7	2,7	9,0	9,0	11,6	11,6	

Nominal hot water coil

Hot water coil assembled inside the unit with a three-way valve managed by the unit control for heating in cooling-only unit.

CK		90	100	120	160	180	182	200	240	320	360	420	485	540	600	
Air pressure drop	(mm.w.c)	3,0	3,8	4,7	4,4	4,4	2,8	3,5	4,1	3,6	4,2	2,0	2,1	2,5	3,2	
Water 80/60°C and inlet air 20°C	Heating capacity	(kW)	29,1	31,7	34,2	57,9	57,9	71,2	77,6	83,0	121,2	128,9	172,3	173,5	186,3	205,5
	Water flow	(m ³ /h)	1,3	1,4	1,5	2,6	2,6	3,2	3,4	3,7	5,4	5,7	7,4	7,5	8,0	8,8
	Water pressure drop	(m.w.c)	0,3	0,4	0,4	1,4	1,4	0,7	0,9	1,0	2,1	2,3	0,3	0,3	0,3	0,4
Water 90/70°C and inlet air 20°C	Heating capacity	(kW)	36,2	39,5	42,7	71,4	71,4	87,8	95,9	102,6	148,9	158,4	212,9	214,5	230,5	254,7
	Water flow	(m ³ /h)	1,6	1,8	1,9	3,2	3,2	3,9	4,3	4,6	6,6	7,0	9,2	9,2	9,9	11,0
	Water pressure drop	(m.w.c)	0,5	0,6	0,6	2,1	2,1	1,1	1,2	1,4	3,0	3,3	0,4	0,4	0,4	0,4
Weight (empty)	(kg)	10,4	10,4	10,4	16,3	16,3	23,4	23,4	34,4	34,4	34,4	62,5	62,5	62,5	62,5	
Diameter of hydraulic connections		1"			1 1/4"				1 1/2"			2"				

Note: with stop-drop in the indoor air coil it is not possible to assemble the hot water coil.

Auxiliary hot water coil

Hot water coil assembled inside the unit with a three-way valve managed by the unit control for back-up during heating in heat pump units. In this case the air inlet temperature matches the air outlet temperature of the indoor coil.

CK		90	100	120	160	180	182	200	240	320	360	420	485	540	600	
Air pressure drop	(mm.w.c)	2,9	3,6	4,5	4,2	4,2	2,7	3,4	4,0	6,6	7,8	1,9	2,0	2,4	3,2	
Water 80/60°C	Heating capacity	(kW)	12,9	13,7	14,9	23,0	23,0	30,2	31,6	33,6	40,9	43,7	66,1	60,8	63,6	76,9
	Water flow	(m ³ /h)	0,6	0,6	0,7	1,0	1,0	1,3	1,4	1,5	1,8	1,9	2,9	2,7	2,8	3,4
	Water pressure drop	(m.w.c)	0,1	0,1	0,2	0,5	0,5	0,4	0,5	0,5	0,8	0,9	0,6	0,5	0,6	0,8
Water 90/70°C	Heating capacity	(kW)	17,9	19,2	20,8	31,5	31,5	41,2	43,5	46,5	56,3	60,1	90,1	85,0	89,8	106,1
	Water flow	(m ³ /h)	0,8	0,9	0,9	1,4	1,4	1,8	1,9	2,0	2,5	2,6	4,0	3,8	3,9	4,6
	Water pressure drop	(m.w.c)	0,2	0,3	0,3	0,8	0,8	0,8	0,9	1,0	1,4	1,6	1,1	1,0	1,1	1,5
Weight (empty)	(kg)	7,8	7,8	7,8	11,0	11,0	16,3	16,3	16,3	16,3	16,3	38,4	38,4	38,4	38,4	
Diameter of hydraulic connections		3/4"					1"									

Note: with stop-drop in the indoor air coil it is not possible to assemble the hot water coil.

Electrical heaters

- Important: with this option, the air flow controller is included.
- Standard assembly in two stages (optional assembly in one stage with no over price).
- In the case of two indoor units with the one outdoor unit the assembly of the support is not possible in two stages (each indoor unit is equivalent to 1 stage).

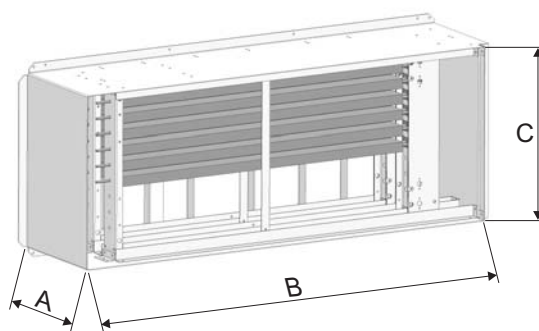
Models 90 to 360 (assembled in the fan outlet): available capacities

CK	Total output (kW)	6	9	12	15	18	24	30	36
	Stage power (kW)	3 + 3	3 + 6	6 + 6	6 + 9	9 + 9	12 + 12	15 + 15	18 + 18
Current (A) (400V / IIIph / 50Hz)	90 / 100 / 120	8,7	13,0	17,3	unavailable				
	160 / 180	unavailable		17,3	21,7	26,0	unavailable		
	182 / 200 / 240 / 320 / 360	unavailable			21,7	26,0	34,6	53,4	52,0

Note: in models with centrifugal return fan it is not possible to assemble electrical heaters with outputs of 30 and 36 kW.

Frame for assembly of the auxiliary heater in the supply fan outlet:

CK	Total output (kW)	Dimensions (mm)		
		A	B	C
90 / 100 / 120 (1 supply outlet)	6 / 9 kW (1 row)	150	482	443
	12 kW (2 rows)	262	482	443
160 / 180 (1 supply outlet)	12 / 15 / 18 kW (1 row)	189	1.142	443
182 / 200 / 240 (2 supply outlets)	15 / 18 kW (1 row)	189	1.142	443
	24 / 30 / 36 kW (2 rows)	297	1.142	443
320 / 360 (2 supply outlets)	15 / 18 / 24 / 30 / 36 kW (1 row)	189	1.142	443



This frame is designed with side access for maintenance purposes.

In models 90 to 120 each of the rows of electrical heaters has an output of 1 kW. As from model 160, the output of each row will be 2 or 3 kW according to the total output.

In models with two supply fan outlets (two frames), as well as in the case of 1 supply outlet with 2 rails, the electrical heaters are distributed as symmetrically as possible between both frames.

Models 420 to 600 (assembled inside the unit): available capacities

CK	Total output (kW)	36	45	54	72
	Stage power (kW)	18 + 18	18 + 27	27 + 27	36 + 36
Current (A) (400V / IIIph / 50Hz)	420 / 485	52,0	65,0	78,0	unavailable
	540 / 600	unavailable	65,0	78,0	104,0

Stop-drop in the indoor air coil

Air flow as from which it is recommended to install a stop-drop in the indoor coil.

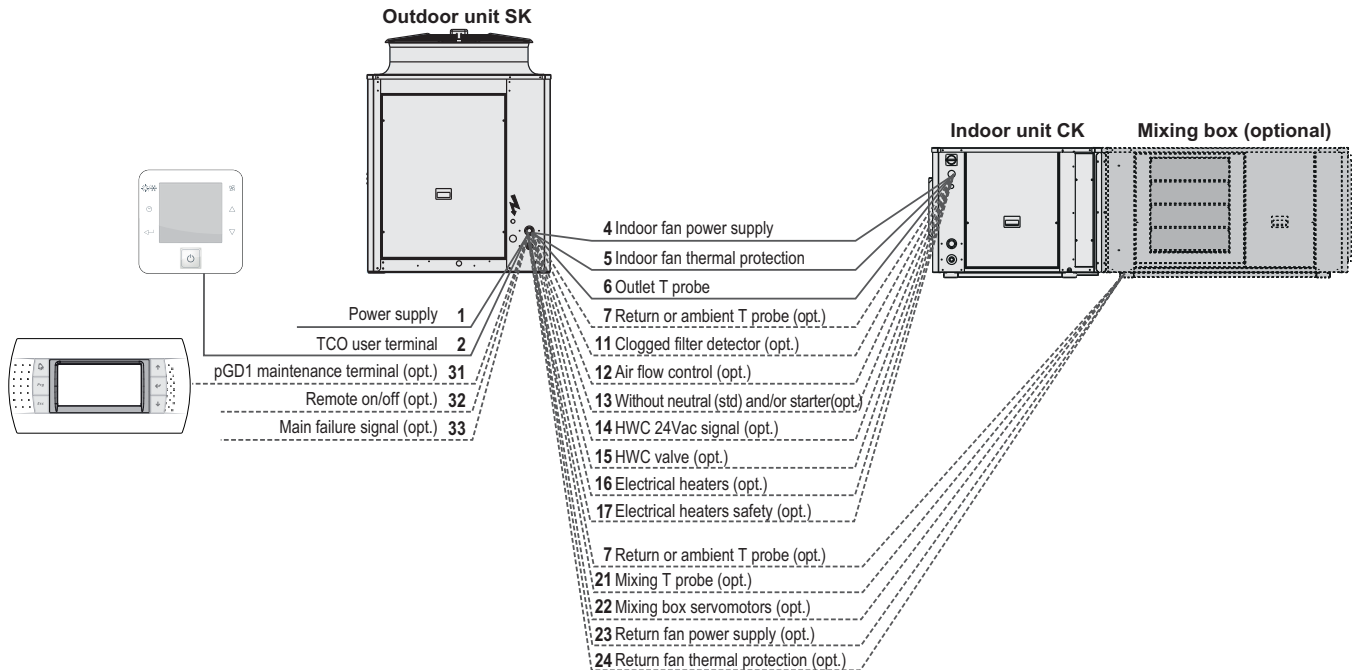
CK		90	100	120	160	180	182	200	240	320	630	420	485	540	600
Air flow	(m ³ /h)	5.246		7.283		11.110		16.566		30.089					

Note: for operating conditions with high dehumidification in the indoor coil (e.g. in installations close to the coast) it may be necessary to install a separator even if the flow is less than the previous one.

Note: with hot water coil (nominal or auxiliary) it is not possible to assemble the stop-drop.

ELECTRICAL CONNECTIONS

AVANT (1 stage) and AVANT+ (2 stages) electronic control



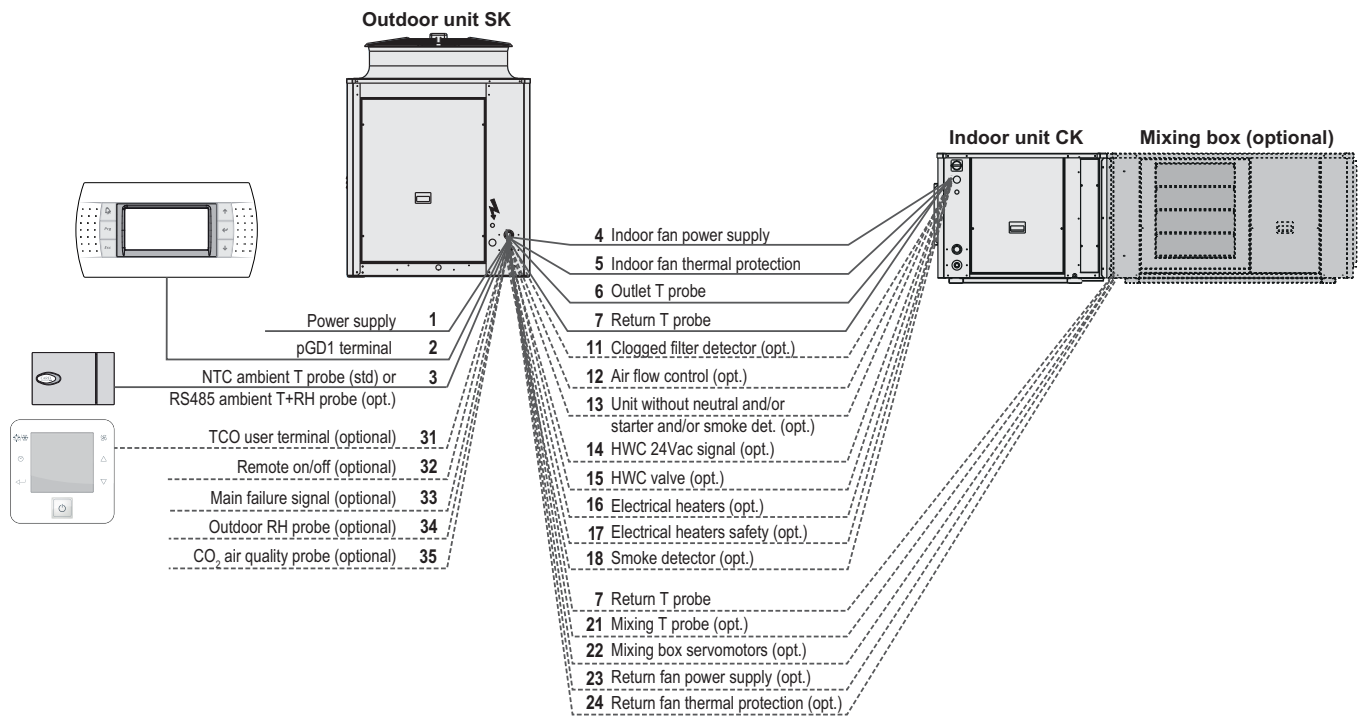
No	SK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
1	Power supply	400 III ($\pm 10\%$)													
2	TCO user terminal connection ^①	3 + GND													
4	Indoor fan power supply	2 wires for power supply 230V + 1 shielded cable for communication type AGW20 / 22 (1 braided pair + drainwire + shielding)													
5	Thermal relay signal of the indoor fan	3 + GND													
6	Outlet temperature probe	2 wires													
7	Return or ambient temperature probe (optional) ^②	2 wires													
11	Clogged filters detector (optional)	2 wires													
12	Air flow control (optional)	2 wires													
13	Unit without neutral (std) and/or soft starter (opt.)	1 wire													
14	HWC 24 Vac signal (optional)	2 wires													
15	HWC valve (optional)	1 wire													
16	Electrical heaters (optional) ^③	3 wires (per stage) + GND													
17	Safety thermistors of electrical heaters (optional)	2 wires													
21	Mixing temperature probe (optional) ^②	2 wires													
22	Mixing box servomotors power supply (optional) ^②	3 wires													
23	Return fan power supply (optional) ^②	3 + GND													
24	Thermal relay signal of the return fan (optional) ^②	2 wires													
31	pGD1 maintenance terminal connection (optional)	telephone cable 6 wires standard (RJ12 connector)													
32	Remote on/off (optional)	2 wires													
33	Main failure signal (optional)	2 wires													

^① If the unit is going to be installed in an industrial environment with a high level of electromagnetic interference, it is recommended to shield the cables of the thermostat control.

^② In indoor units with the optional mixing box, these connections are realized directly between the outdoor unit and the terminal board of the box mentioned

^③ The power supply for the electrical heater must be protected by an automatic switch and/or fuses to be foreseen by the installer.

CIATrtc electronic control (optional)



No	SK	90	100	120	160	180	182	200	240	320	360	420	485	540	600
1	Power supply	400 III (±10%)		3 + GND											
2	pGD1 terminal connection	telephone cable 6 wires standard (RJ12 connector)													
3	NTC ambient T probe (std) or RS485 ambient T+RH (opt.)	2 wires (std) / 5 wires (RS485)													
4	Indoor fan power supply	3 + GND													
5	Thermal relay signal of the indoor fan	2 wires													
6	Outlet temperature probe	2 wires													
7	Return or ambient temperature probe (optional) ②	2 wires													
11	Clogged filters detector (optional)	2 wires													
12	Air flow control (optional)	2 wires													
13	Unit without neutral (std), soft starter and/or smoke detector (opts)	1 wire													
14	HWC 24 Vac signal (optional)	2 wires													
15	HWC valve (optional)	1 wire													
16	Electrical heaters (optional) ③	3 wires (per stage) + GND													
17	Safety thermistors of electrical heaters (optional)	2 wires													
18	Smoke detector (optional)	2 wires													
21	Mixing temperature probe (optional) ②	2 wires													
22	Mixing box servomotors power supply (optional) ②	3 wires													
23	Return fan power supply (optional) ②	3 + GND													
24	Thermal relay signal of the return fan (optional) ②	2 wires													
31	TCO user terminal connection (optional) ①	2 wires for power supply 230V + 1 shielded cable for communication type AGW20 / 22 (1 braided pair + drainwire + shielding)													
32	Remote on/off (optional)	2 wires													
33	Main failure signal (optional)	2 wires													
34	Outdoor RH probe (optional)	3 wires													
35	CO ₂ air quality probe (optional)	3 wires													

① If the unit is going to be installed in an industrial environment with a high level of electromagnetic interference, it is recommended to shield the cables of the thermostat control.

② In indoor units with the optional mixing box, these connections are realized directly between the outdoor unit and the terminal board of the box mentioned

③ The power supply for the electrical heater must be protected by an automatic switch and/or fuses to be foreseen by the installer.



COOLING CAPACITY (kW)

Outdoor temperature 35°C

RSK ISK	Flow (m³/h)	Indoor air temperature																	
		20 °C / 50 % RH			23 °C / 50 % RH			25 °C / 50 % RH			27 °C / 50 % RH			29 °C / 50 % RH			31 °C / 50 % RH		
		Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa
90	3.200	17,1	13,6	5,9	18,5	14,0	6,0	19,4	14,2	6,1	20,3	14,5	6,2	21,2	14,8	6,3	22,1	15,0	6,4
	4.000	17,8	15,0	6,0	19,1	15,5	6,1	20,0	15,8	6,2	21,0	16,1	6,3	21,9	16,4	6,4	22,8	16,7	6,5
	4.800	18,2	16,3	6,0	19,6	16,9	6,1	20,5	17,3	6,2	21,5	17,6	6,3	22,4	18,0	6,4	23,4	18,3	6,5
100	3.680	19,1	15,3	6,8	20,6	15,7	6,9	21,6	16,0	7,0	22,7	16,3	7,1	23,7	16,6	7,2	24,8	16,9	7,3
	4.600	19,9	16,9	6,9	21,4	17,4	7,0	22,4	17,8	7,1	23,5	18,1	7,2	24,5	18,4	7,3	25,6	18,8	7,4
	5.520	20,3	18,3	6,9	21,9	19,0	7,0	22,9	19,4	7,2	24,0	19,8	7,3	25,1	20,2	7,4	26,1	20,7	7,5
120	4.160	22,5	17,5	7,7	24,3	18,1	7,8	25,5	18,4	7,9	26,7	18,7	8,0	27,9	19,0	8,1	29,1	19,4	8,2
	5.200	23,4	19,4	7,7	25,1	20,0	7,9	26,3	20,4	8,0	27,6	20,8	8,1	28,8	21,2	8,2	30,0	21,6	8,3
	6.240	23,9	21,0	7,8	25,8	21,8	7,9	27,0	22,3	8,0	28,2	22,7	8,1	29,4	23,2	8,2	30,7	23,7	8,3
160	5.600	29,8	23,4	11,7	32,1	24,1	11,9	33,7	24,5	12,0	35,4	24,9	12,2	37,0	25,3	12,3	38,6	25,8	12,5
	7.000	30,9	25,8	11,8	33,3	26,7	12,0	34,9	27,2	12,1	36,5	27,7	12,3	38,1	28,2	12,4	39,7	28,8	12,6
	8.400	31,6	28,0	11,9	34,1	29,1	12,0	35,7	29,7	12,2	37,3	30,3	12,4	38,9	31,0	12,5	40,6	31,6	12,7
180	5.600	31,9	24,3	13,1	34,4	25,1	13,3	36,1	25,5	13,5	37,9	25,9	13,7	39,6	26,4	13,9	41,3	26,8	14,0
	7.000	33,1	26,9	13,2	35,6	27,8	13,4	37,3	28,3	13,6	39,1	28,9	13,8	40,8	29,5	14,0	42,5	30,0	14,1
	8.400	33,9	29,2	13,3	36,5	30,3	13,5	38,2	31,0	13,7	40,0	31,6	13,9	41,7	32,3	14,1	43,5	33,0	14,2
182	6.400	33,8	26,1	11,4	36,5	26,9	11,6	38,3	27,3	11,8	40,2	27,8	12,0	42,0	28,3	12,2	43,9	28,8	12,3
	8.000	35,1	28,8	11,5	37,8	29,8	11,7	39,6	30,3	11,9	41,5	30,9	12,1	43,3	31,5	12,3	45,2	32,1	12,4
	9.600	35,9	31,3	11,6	38,7	32,4	11,8	40,5	33,2	12,0	42,4	33,8	12,2	44,3	34,5	12,4	46,1	35,2	12,5
200	7.360	39,9	31,2	13,7	43,0	32,1	13,9	45,1	32,7	14,1	47,3	33,3	14,3	49,4	33,9	14,5	51,5	34,5	14,6
	9.200	41,4	34,5	13,8	44,5	35,6	14,1	46,6	36,3	14,2	48,8	37,0	14,5	50,9	37,7	14,7	53,0	38,4	14,9
	11.040	42,3	37,4	13,9	45,6	38,8	14,1	47,7	39,7	14,4	49,9	40,5	14,6	52,1	41,4	14,8	54,2	42,3	15,0

Pft: Total cooling capacity in kW

Pfs: Sensitive cooling capacity in kW

Pa: Compressor power input in kW

Correction coefficients due to outdoor temperature variation

Outdoor temperature	12°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	48°C
Coefficient K1	1,212	1,190	1,145	1,095	1,048	1,000	0,944	0,891	0,856
Coefficient K2	1,112	1,102	1,077	1,048	1,024	1,000	0,969	0,942	0,924
Coefficient K3	0,613	0,660	0,733	0,807	0,894	1,000	1,100	1,225	1,302

Correction coefficients due to relative humidity variation

Relative humidity	40%	50%	60%	70%
Coefficient K4	0,951	1,000	1,044	1,093
Coefficient K5	1,124	1,000	0,873	0,757
Coefficient K6	0,982	1,000	1,015	1,032

$$PFT = Pft \times K1 \times K4$$

$$PFS = Pfs \times K2 \times K5$$

$$PA = Pa \times K3 \times K6$$



Split-system cooling units and heat pumps

COOLING CAPACITY (kW)

Outdoor temperature 35°C

RSK ISK	Flow (m³/h)	Indoor air temperature																	
		20 °C / 50 % RH			23 °C / 50 % RH			25 °C / 50 % RH			27 °C / 50 % RH			29 °C / 50 % RH			31 °C / 50 % RH		
		Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa
240	8.240	44,2	34,5	16,8	47,6	35,5	17,0	49,9	36,1	17,3	52,4	36,8	17,5	54,7	37,5	17,7	57,1	38,1	17,9
	10.300	45,8	38,1	16,9	49,3	39,4	17,2	51,7	40,1	17,4	54,1	40,9	17,7	56,5	41,7	17,9	58,8	42,5	18,2
	12.360	46,9	41,3	17,0	50,5	42,9	17,3	52,9	43,9	17,6	55,3	44,7	17,8	57,7	45,7	18,0	60,1	46,6	18,3
320	11.200	59,0	46,6	24,6	63,6	48,0	25,1	66,7	48,8	25,4	70,1	49,7	25,8	73,3	50,6	26,1	76,4	51,5	26,5
	14.000	61,3	51,5	24,8	65,9	53,2	25,3	69,0	54,2	25,6	72,3	55,2	26,0	75,4	56,3	26,3	78,6	57,3	26,7
	16.800	62,7	55,8	25,0	67,5	57,9	25,4	70,7	59,2	25,8	74,0	60,4	26,2	77,2	61,7	26,5	80,5	63,0	26,9
360	12.400	68,8	52,8	23,4	74,2	54,5	23,8	77,8	55,4	24,2	81,7	56,3	24,5	85,4	57,3	24,8	89,1	58,3	25,1
	15.500	71,4	58,4	23,6	76,8	60,4	24,1	80,5	61,5	24,4	84,3	62,7	24,8	88,0	63,9	25,1	91,7	65,2	25,5
	18.600	73,1	63,4	23,8	78,7	65,7	24,2	82,4	67,2	24,6	86,2	68,5	24,9	89,9	70,0	25,2	93,7	71,4	25,5
420	14.400	83,6	64,1	26,9	89,9	65,8	27,5	94,2	66,8	27,9	98,8	67,8	28,3	105,7	68,8	27,7	110,7	70,8	28,1
	18.000	87,0	71,0	27,2	93,4	73,1	27,8	97,9	74,5	28,3	102,5	75,8	28,8	109,7	78,5	28,0	114,7	79,5	28,8
	21.600	89,2	77,2	27,4	95,6	79,9	28,0	100,2	81,5	28,5	105,0	82,9	29,0	113,5	84,9	28,4	117,7	87,6	28,8
485	14.560	90,2	67,1	31,2	96,9	68,9	31,9	101,6	70,0	32,4	106,5	71,0	32,9	114,0	72,9	32,2	119,4	74,3	32,7
	18.200	93,8	74,5	31,6	100,7	76,6	32,3	105,6	78,1	32,8	110,5	79,4	33,4	118,2	82,2	32,6	123,6	83,3	33,4
	21.840	96,1	81,0	31,8	103,1	83,8	32,5	108,0	85,4	33,1	113,2	86,9	33,6	122,4	89,5	33,0	126,8	91,8	33,5
540	16.320	101,8	76,4	36,2	109,4	78,5	37,1	114,7	79,7	37,6	120,2	80,8	38,2	128,6	83,5	37,4	134,7	84,5	38,0
	20.400	105,8	84,7	36,7	113,7	87,2	37,5	119,2	88,9	38,1	124,8	90,4	38,8	133,4	93,6	37,9	139,5	94,8	38,8
	24.480	108,5	92,1	36,9	116,4	95,3	37,8	121,9	97,2	38,4	127,8	98,9	39,0	138,2	102,5	38,3	143,2	104,5	38,9
600	19.200	112,1	86,8	41,3	120,5	89,1	42,2	126,3	90,5	42,9	132,4	91,8	43,6	140,2	116,3	42,7	146,8	95,0	43,4
	24.000	116,6	96,2	41,9	125,2	99,1	42,8	131,2	101,0	43,4	137,4	102,6	44,2	145,4	105,2	43,3	152,1	106,5	44,4
	28.800	119,5	104,6	42,1	128,2	108,3	43,1	134,3	110,4	43,8	140,7	112,3	44,5	150,6	111,3	43,8	156,0	117,4	44,5

Pft: Total cooling capacity in kW

Pfs: Sensitive cooling capacity in kW

Pa: Compressor power input in kW

Correction coefficients due to outdoor temperature variation

Outdoor temperature	12°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	48°C
Coefficient K1	1,212	1,190	1,145	1,095	1,048	1,000	0,944	0,891	0,856
Coefficient K2	1,112	1,102	1,077	1,048	1,024	1,000	0,969	0,942	0,924
Coefficient K3	0,613	0,660	0,733	0,807	0,894	1,000	1,100	1,225	1,302

Correction coefficients due to relative humidity variation

Relative humidity	40%	50%	60%	70%
Coefficient K4	0,951	1,000	1,044	1,093
Coefficient K5	1,124	1,000	0,873	0,757
Coefficient K6	0,982	1,000	1,015	1,032

$$PFT = Pft \times K1 \times K4$$

$$PFS = Pfs \times K2 \times K5$$

$$PA = Pa \times K3 \times K6$$

AirDuo SK-CK



Split-system cooling units and heat pumps

AirDuo SK-CK

HEATING CAPACITY (kW)

Indoor temperature 20°C

ISK	Flow (m³/h)	Outdoor air temperature															
		-10 °C WB		-5 °C WB		-3 °C WB		0 °C WB		3 °C WB		6 °C WB		10 °C WB		15 °C WB	
		Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa
90	3.200	15,0	5,2	16,8	5,4	17,7	5,5	19,1	5,7	20,6	5,9	22,1	6,1	24,3	6,4	27,2	6,9
	4.000	15,1	5,0	16,9	5,2	17,8	5,3	19,3	5,4	20,8	5,6	22,3	5,8	24,6	6,0	27,6	6,5
	4.800	15,1	4,8	17,6	5,0	17,9	5,1	19,4	5,2	20,9	5,4	22,5	5,5	24,8	5,8	28,0	6,1
100	3.680	16,8	5,9	18,8	6,1	19,8	6,2	21,4	6,4	23,0	6,7	24,8	6,9	27,2	7,2	30,5	7,8
	4.600	16,9	5,6	18,9	5,8	20,0	6,0	21,6	6,1	23,3	6,3	25,0	6,5	27,6	6,8	31,0	7,3
	5.520	17,0	5,5	19,7	5,7	20,1	5,8	21,7	5,9	23,4	6,1	25,2	6,2	27,9	6,5	31,4	6,9
120	4.160	20,6	7,2	23,0	7,5	24,2	7,6	26,2	7,9	28,2	8,1	30,3	8,4	33,3	8,9	37,3	9,5
	5.200	20,7	6,9	23,1	7,2	24,4	7,3	26,4	7,5	28,4	7,7	30,6	8,0	33,7	8,4	37,9	9,0
	6.240	20,7	6,7	24,1	6,9	24,5	7,0	26,6	7,2	28,6	7,4	30,8	7,6	34,0	8,0	38,4	8,5
160	5.600	26,8	9,5	30,0	9,9	31,6	10,1	34,2	10,4	36,7	10,8	39,5	11,1	43,4	11,7	48,6	12,6
	7.000	26,9	9,1	30,2	9,5	31,8	9,6	34,5	9,9	37,1	10,2	39,9	10,5	43,9	11,1	49,4	11,8
	8.400	27,0	8,8	31,4	9,2	32,0	9,3	34,7	9,6	37,3	9,8	40,2	10,1	44,4	10,5	50,0	11,2
180	5.600	29,6	11,4	33,1	11,9	34,9	12,1	37,7	12,5	40,5	13,0	43,5	13,4	47,9	14,1	53,6	15,2
	7.000	29,7	11,0	33,3	11,4	35,1	11,6	38,0	11,9	40,9	12,3	44,0	12,7	48,5	13,3	54,5	14,3
	8.400	29,8	10,7	34,6	11,0	35,3	11,2	38,2	11,5	41,2	11,8	44,3	12,2	49,0	12,7	55,2	13,5
182	6.400	30,9	11,1	34,6	11,6	36,5	11,8	39,4	12,2	42,4	12,6	45,5	13,1	50,1	13,8	56,1	14,8
	8.000	31,1	10,7	34,8	11,1	36,7	11,3	39,7	11,7	42,8	12,0	46,0	12,4	50,7	13,0	56,9	13,9
	9.600	31,2	10,4	36,2	10,8	36,9	10,9	40,0	11,2	43,1	11,5	46,4	11,9	51,2	12,4	57,7	13,2
200	7.360	36,3	12,7	40,6	13,2	42,8	13,5	46,3	13,9	49,8	14,4	53,5	14,9	58,8	15,7	65,9	16,8
	9.200	36,5	12,2	40,9	12,6	43,1	12,9	46,7	13,2	50,2	13,6	54,0	14,1	59,5	14,8	66,9	15,8
	11.040	36,6	11,8	42,5	12,2	43,3	12,4	46,9	12,8	50,6	13,1	54,4	13,5	60,2	14,1	67,8	15,0

Pc: Total heating capacity in kW

Pa: Compressor power input in kW

Correction coefficients due to indoor temperature variation

Indoor temperature	17°C	19°C	20°C	21°C	23°C	25°C	27°C
Coefficient K1	1,011	1,004	1,000	0,996	0,989	0,982	0,975
Coefficient K2	0,940	0,979	1,000	1,021	1,065	1,110	1,157

$$PC = Pc \times K1$$

$$PA = Pa \times K2$$



Split-system cooling units and heat pumps

AirDuo SK-CK

HEATING CAPACITY (kW)

Indoor temperature 20°C

ISK	Flow (m³/h)	Outdoor air temperature															
		-10 °C WB		-5 °C WB		-3 °C WB		0 °C WB		3 °C WB		6 °C WB		10 °C WB		15 °C WB	
		Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa
240	8.240	41,2	15,6	46,1	16,2	48,6	16,6	52,5	17,1	56,5	17,7	60,7	18,3	66,8	19,3	74,7	20,7
	10.300	41,4	15,0	46,4	15,6	48,9	15,8	53,0	16,3	57,0	16,8	61,3	17,3	67,5	18,2	75,9	19,5
	12.360	41,6	14,5	48,3	15,1	49,2	15,3	53,3	15,7	57,4	16,1	61,8	16,6	68,3	17,3	76,9	18,4
320	11.200	53,5	20,5	59,9	21,4	63,1	21,8	68,2	22,5	73,3	23,3	78,8	24,1	86,7	25,4	97,1	27,3
	14.000	53,8	19,8	60,2	20,5	63,5	20,8	68,8	21,5	74,0	22,1	79,6	22,8	87,7	23,9	98,6	25,6
	16.800	54,0	19,2	62,7	19,8	63,9	20,2	69,2	20,7	74,5	21,2	80,2	21,9	88,7	22,8	99,9	24,3
360	12.400	62,8	23,8	70,3	24,8	74,1	25,3	80,1	26,2	86,1	27,0	92,5	28,0	101,8	29,5	113,9	31,6
	15.500	63,1	22,9	70,7	23,8	74,6	24,2	80,7	24,9	86,9	25,7	93,4	26,5	103,0	27,8	115,7	29,8
	18.600	63,4	22,2	73,6	23,0	75,0	23,4	81,2	24,0	87,5	24,7	94,2	25,4	104,1	26,5	117,2	28,2
420	14.400	75,1	26,2	79,7	26,3	85,2	27,6	92,3	28,6	99,5	29,7	106,9	30,8	118,0	32,6	132,7	34,9
	18.000	75,4	24,9	80,0	25,6	85,9	26,3	93,0	27,2	100,3	28,1	108,0	29,0	119,6	30,5	135,0	32,4
	21.600	75,3	24,3	80,4	24,9	86,0	25,5	93,4	26,3	100,7	27,0	108,7	27,8	120,5	29,1	136,6	30,9
485	14.560	82,2	30,7	87,1	30,8	93,2	32,3	101,0	33,5	108,8	34,7	117,0	36,0	129,1	38,1	145,2	40,8
	18.200	82,5	29,2	87,5	29,9	93,9	30,8	101,8	31,8	109,8	32,8	118,2	33,9	130,8	35,6	147,7	37,9
	21.840	82,3	28,5	88,0	29,1	94,1	29,8	102,2	30,7	110,1	31,6	119,0	32,5	131,9	34,0	149,4	36,1
540	16.320	91,1	33,4	96,5	33,5	103,3	35,2	111,9	36,5	120,5	37,8	129,6	39,3	143,0	41,5	160,8	44,5
	20.400	91,3	31,8	96,9	32,6	104,1	33,5	112,7	34,7	121,6	35,8	130,9	37,0	144,9	38,8	163,6	41,3
	24.480	91,2	31,0	97,4	31,7	104,2	32,5	113,2	33,5	122,0	34,4	131,8	35,4	146,1	37,1	165,5	39,3
600	19.200	99,0	36,8	104,9	37,0	112,3	38,8	121,6	40,2	131,0	41,7	140,8	43,3	155,4	45,7	174,8	49,0
	24.000	99,3	35,0	105,3	36,0	113,1	37,0	122,5	38,2	132,1	39,4	142,3	40,7	157,5	42,8	177,8	45,6
	28.800	99,1	34,2	105,9	34,9	113,3	35,8	123,1	36,9	132,6	37,9	143,2	39,1	158,7	40,9	179,8	43,4

Pc: Total heating capacity in kW

Pa: Compressor power input in kW

Correction coefficients due to indoor temperature variation

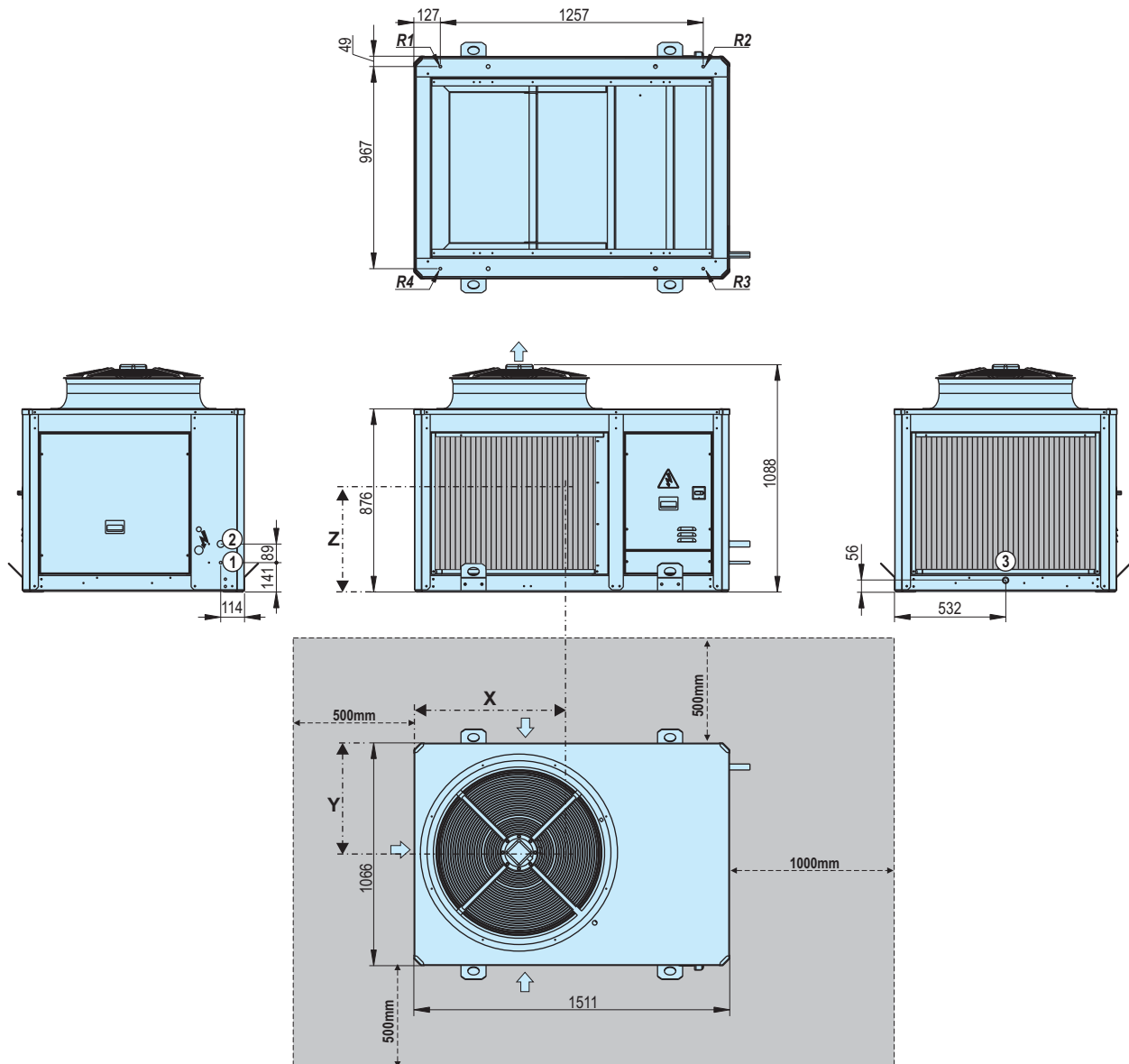
Indoor temperature	17°C	19°C	20°C	21°C	23°C	25°C	27°C
Coefficient K1	1,011	1,004	1,000	0,996	0,989	0,982	0,975
Coefficient K2	0,940	0,979	1,000	1,021	1,065	1,110	1,157

$$PC = Pc \times K1$$

$$PA = Pa \times K2$$

DIMENSIONS SCHEMES: OUTDOOR UNITS

SK - 90 and 100 (mm)



LEGEND

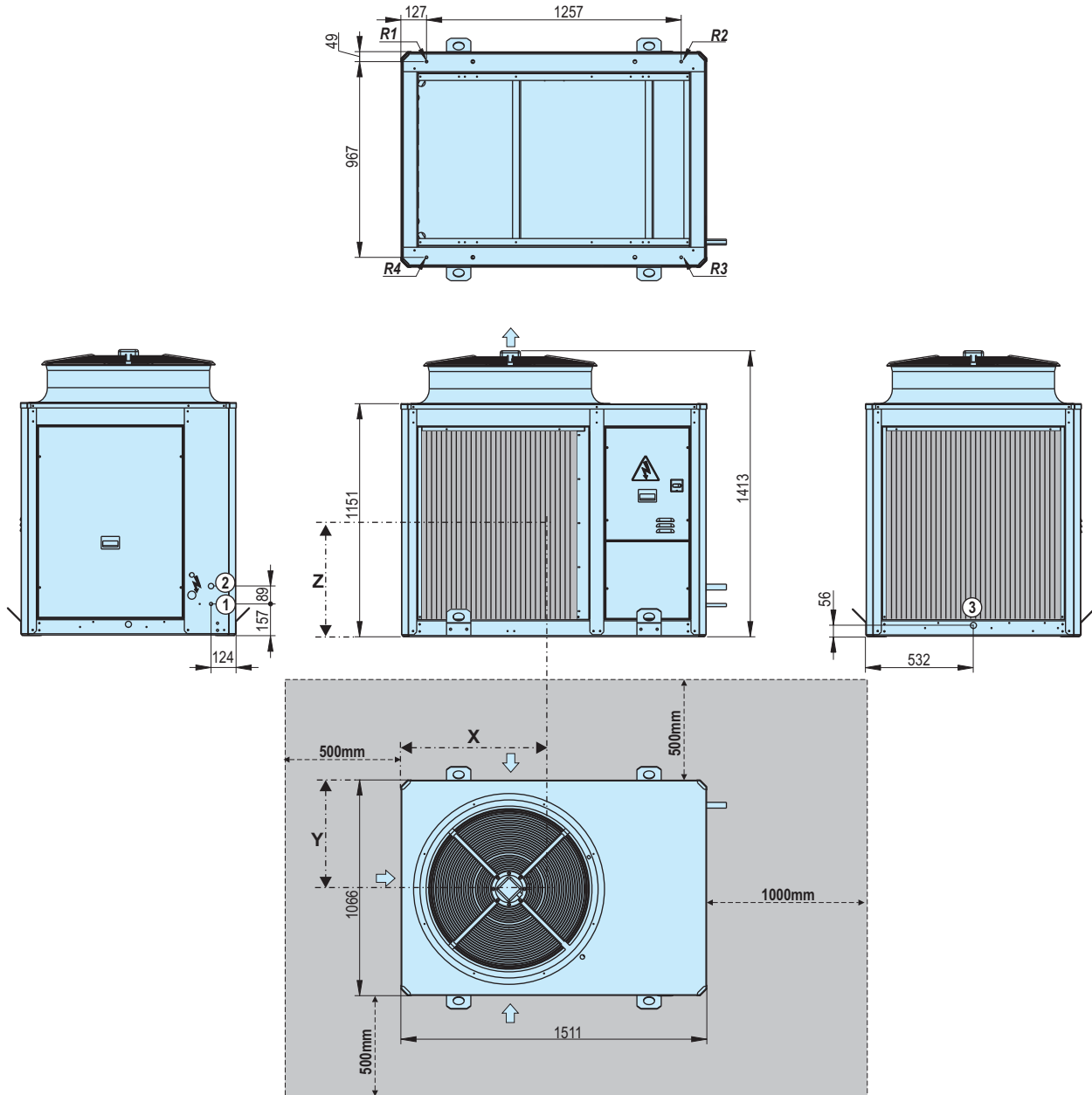
- Outdoor air circulation
 - Electric panel
 - Electric power supply
 - Door switch
 - ① Liquid line
 - ② Gas line
 - ③ Condensate outlet: pipe 22 mm (optional)
- Antivibration anchoring: rivet nut M10
- Clear space to be observed for maintenance operations and unit start-up

SK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
90	945	602	440	275	58	99	80	38
100	945	602	440	281	59	102	81	39



Split-system cooling units and heat pumps

SK - 120, 160, 180 and 182 (mm)



LEGEND

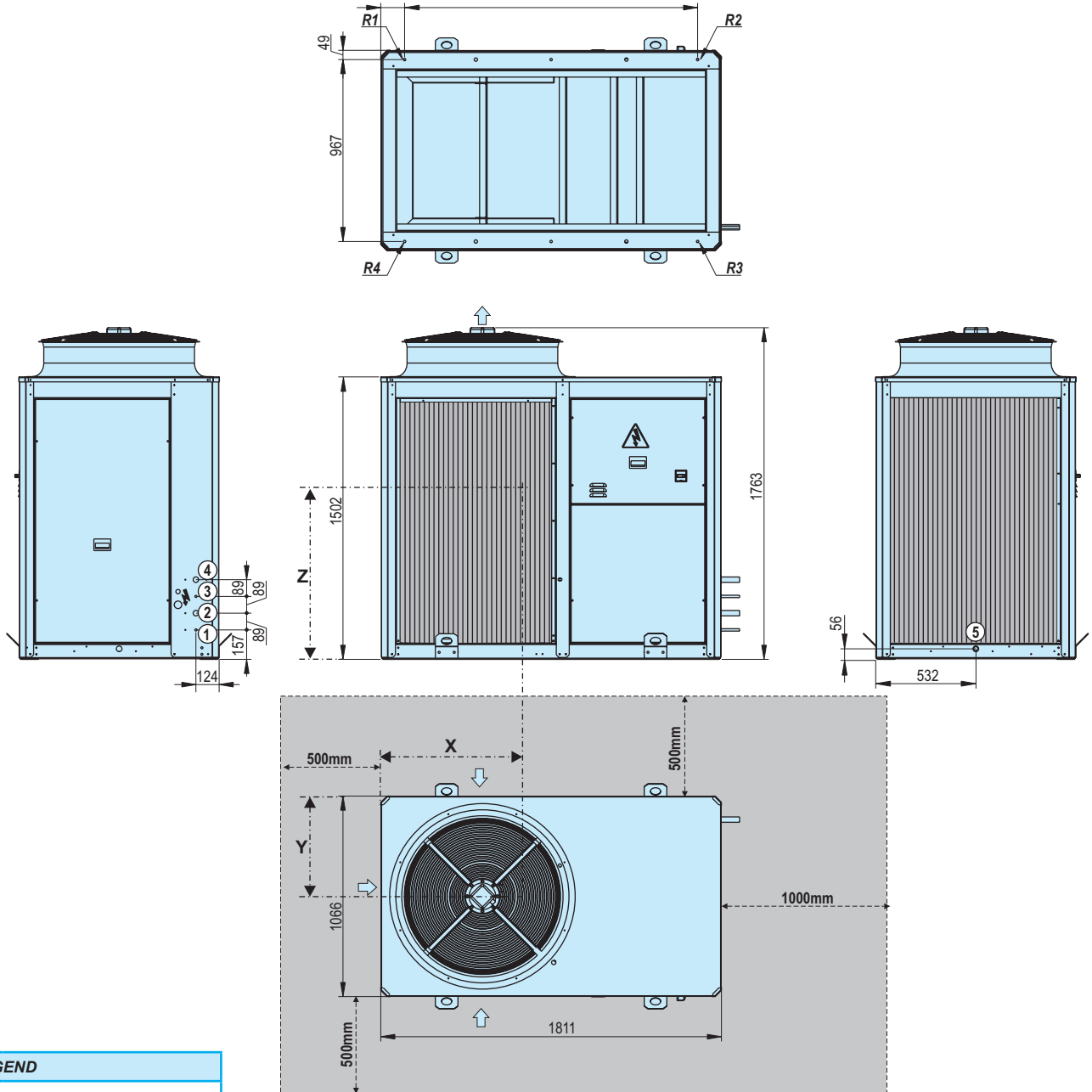
- Outdoor air circulation
- Electric panel
- Electric power supply
- Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: pipe 22 mm (optional)

Antivibration anchoring: rivet nut M10

Clear space to be observed for maintenance operations and unit start-up

SK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
120	908	595	589	317	70	109	88	50
160	913	595	593	326	72	112	91	51
180	909	584	512	368	79	124	105	60
182	909	584	512	388	84	131	110	63

SK - 200 and 240 (mm)



LEGEND

- Outdoor air circulation
- Electric panel
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: pipe 22 mm (optional)

Antivibration anchoring: rivet nut M10

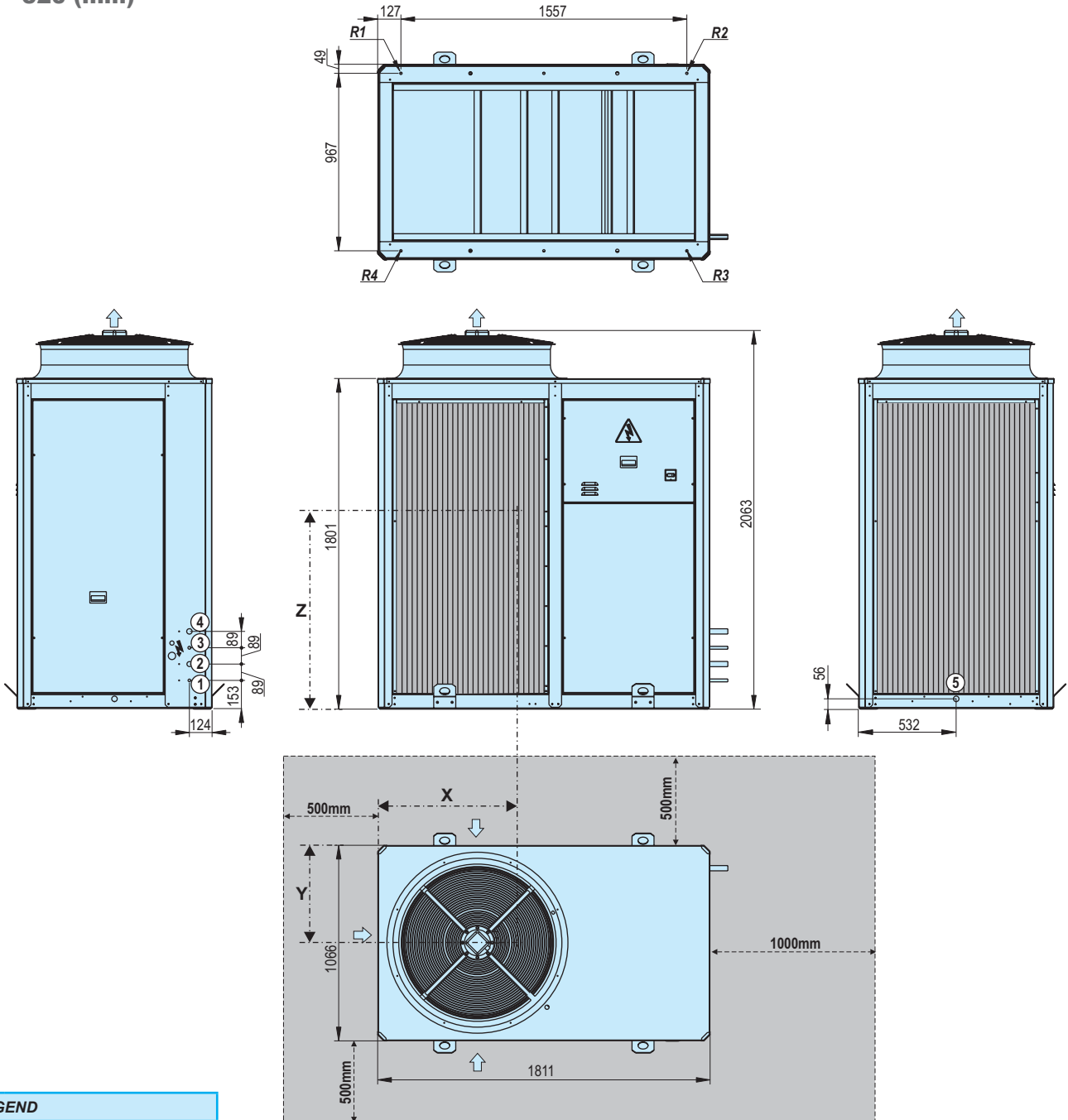
Clear space to be observed for maintenance operations and unit start-up

SK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
200	1.029	610	658	490	118	166	127	79
240	1.030	609	657	492	123	162	123	84



Split-system cooling units and heat pumps

SK - 320 (mm)



LEGEND

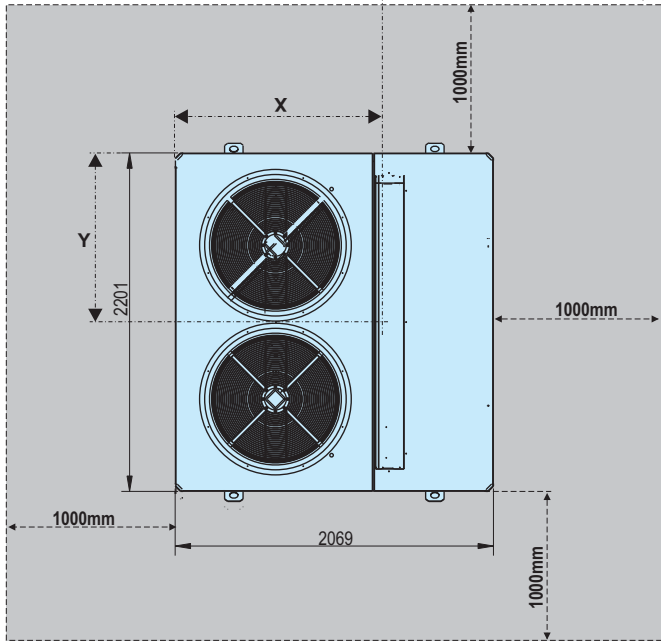
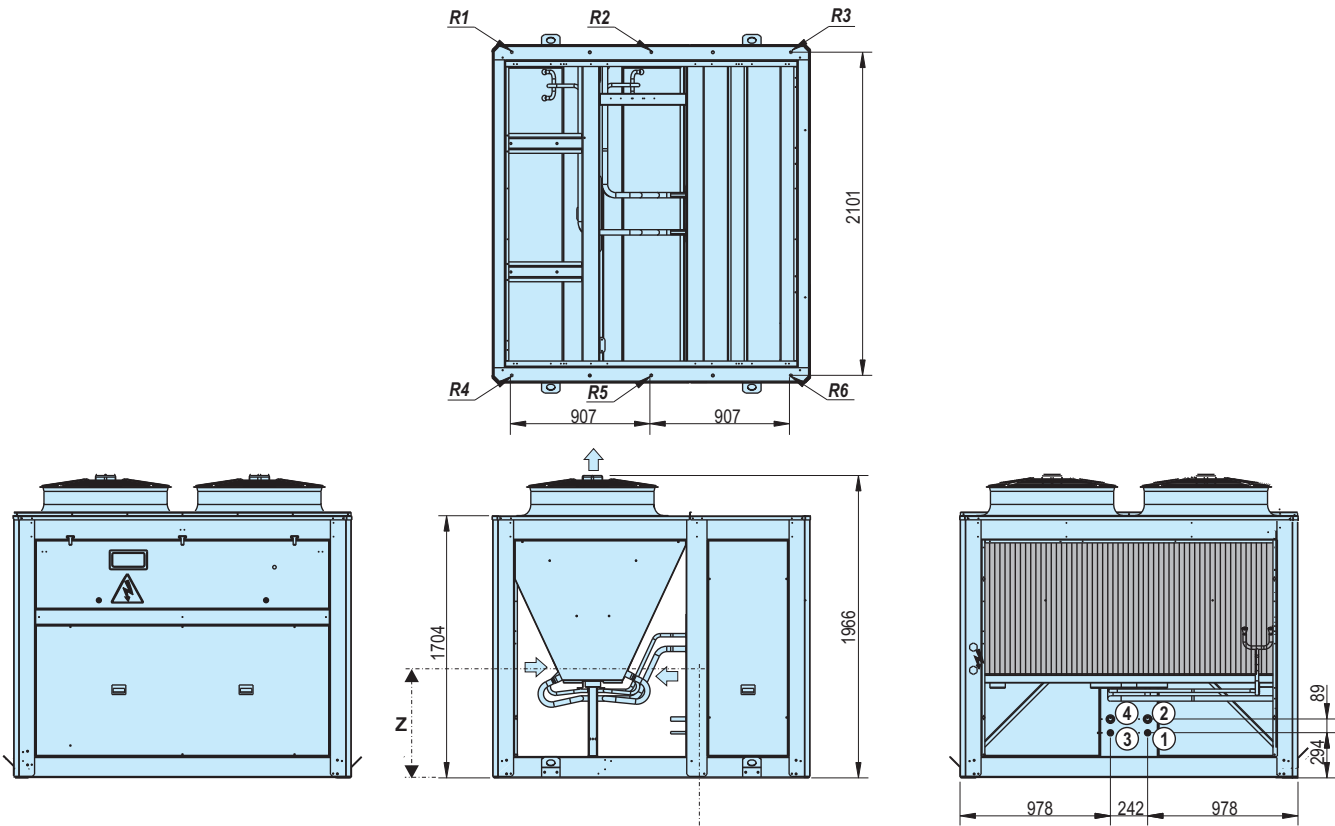
- Outdoor air circulation
- Electric panel
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: pipe 22 mm (optional)

Antivibration anchoring: rivet nut M10

Clear space to be observed for maintenance operations and unit start-up

SK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
320	1.019	605	777	544	136	176	136	96

SK - 360, 420, 485, 540 and 600 (mm)



LEGEND

- Outdoor air circulation
- Electric panel
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2

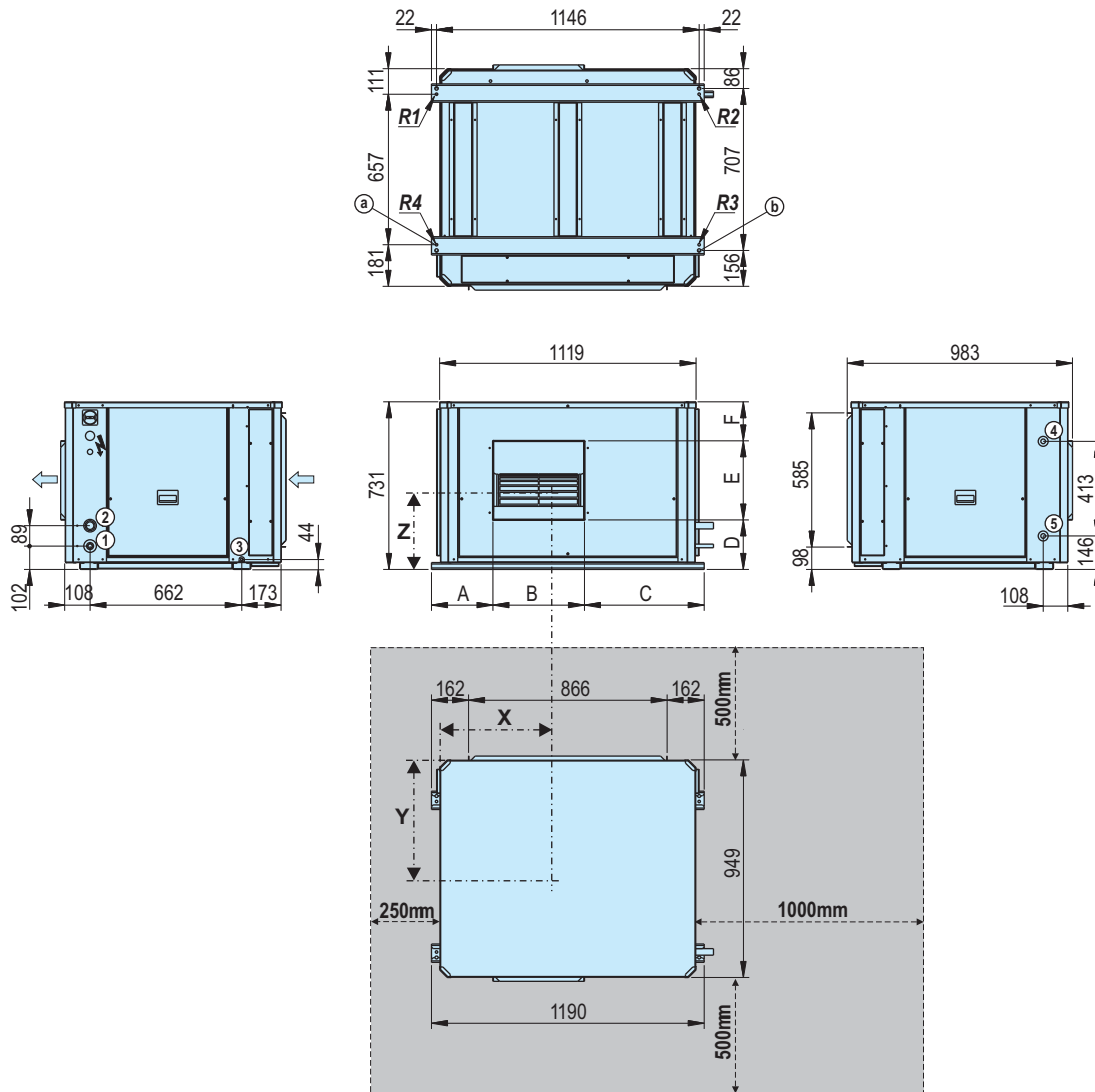
Antivibration anchoring: rivet nut M12

Clear space to be observed for maintenance operations and unit start-up

SK	Centre of gravity (mm)			Reactions in the supports (kg)						
	X	Y	Z	Weight	R1	R2	R3	R4	R5	R6
360	1.280	1.110	795	974	62	235	194	59	232	191
420	1.254	1.111	807	1.024	73	247	197	70	244	194
485	1.256	1.108	805	1.029	72	248	198	70	245	196
540	1.278	1.129	780	1.078	73	263	218	63	253	208
600	1.297	1.104	757	1.127	66	271	229	65	269	228

DIMENSIONS SCHEMES: INDOOR UNITS

CK - 90, 100 y 120 with side supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: trunk 3/4" M
- ④ Auxiliary coil water inlet (optional)
- ⑤ Auxiliary coil water outlet (optional)

Intake profile: 20mm

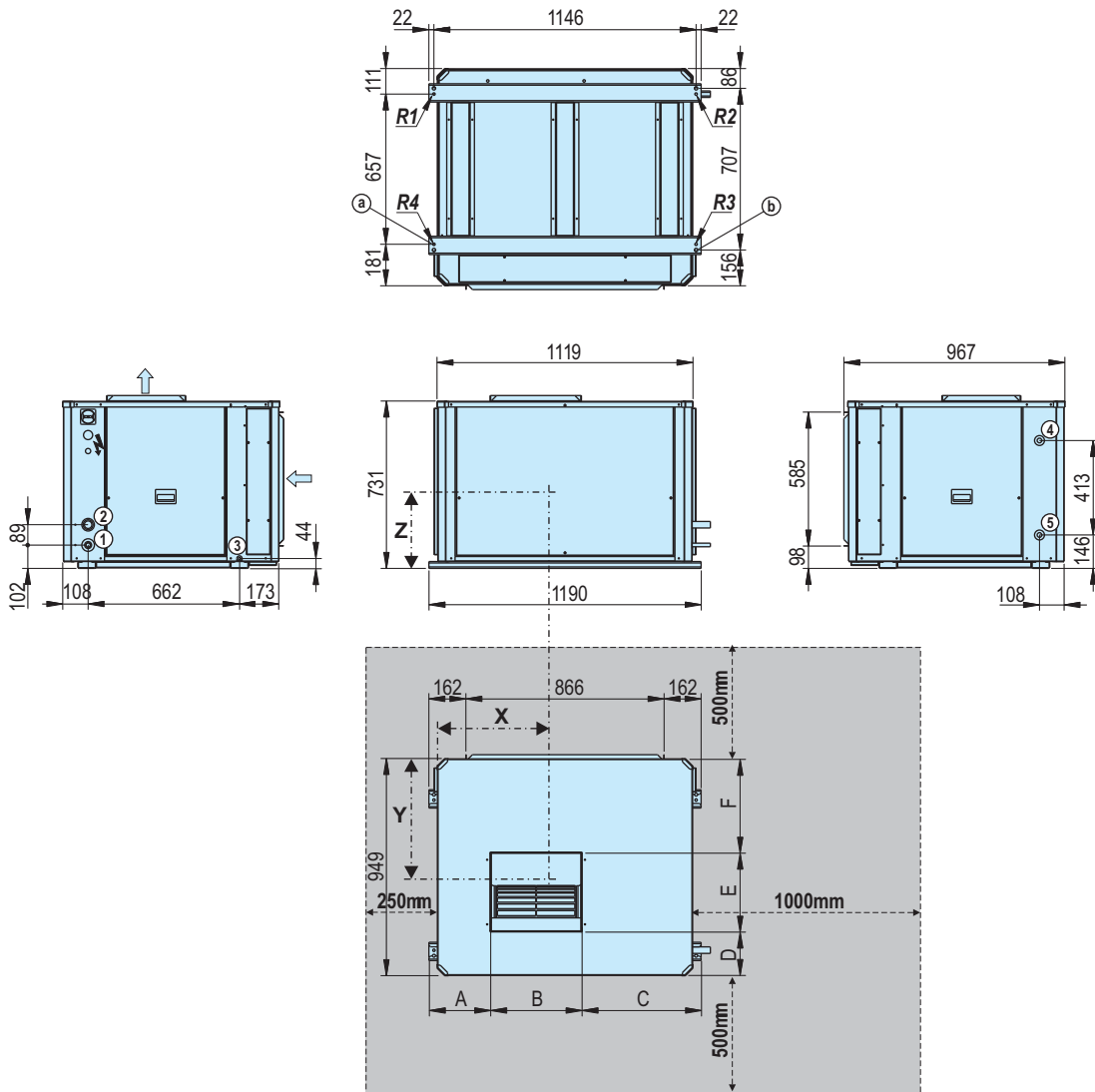
a: Antivibration anchoring: rivet nut M8
b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	A	B	C	D	E	F
90 / 100 (mm)	301	334	555	190	285	256
120 (mm)	268	399	522	216	345	170

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
90 / 100	539	327	391	147	22	19	52	55
120	539	327	391	190	28	24	67	71

CK - 90, 100 and 120 with upper supply (mm)



LEGEND

- ⇨ Indoor air circulation
- ⚡ Electric power supply
- ⊗ Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: trunk 3/4" M
- ④ Auxiliary coil water inlet (optional)
- ⑤ Auxiliary coil water outlet (optional)

Intake profile: 20mm

a: Antivibration anchoring: rivet nut M8

b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

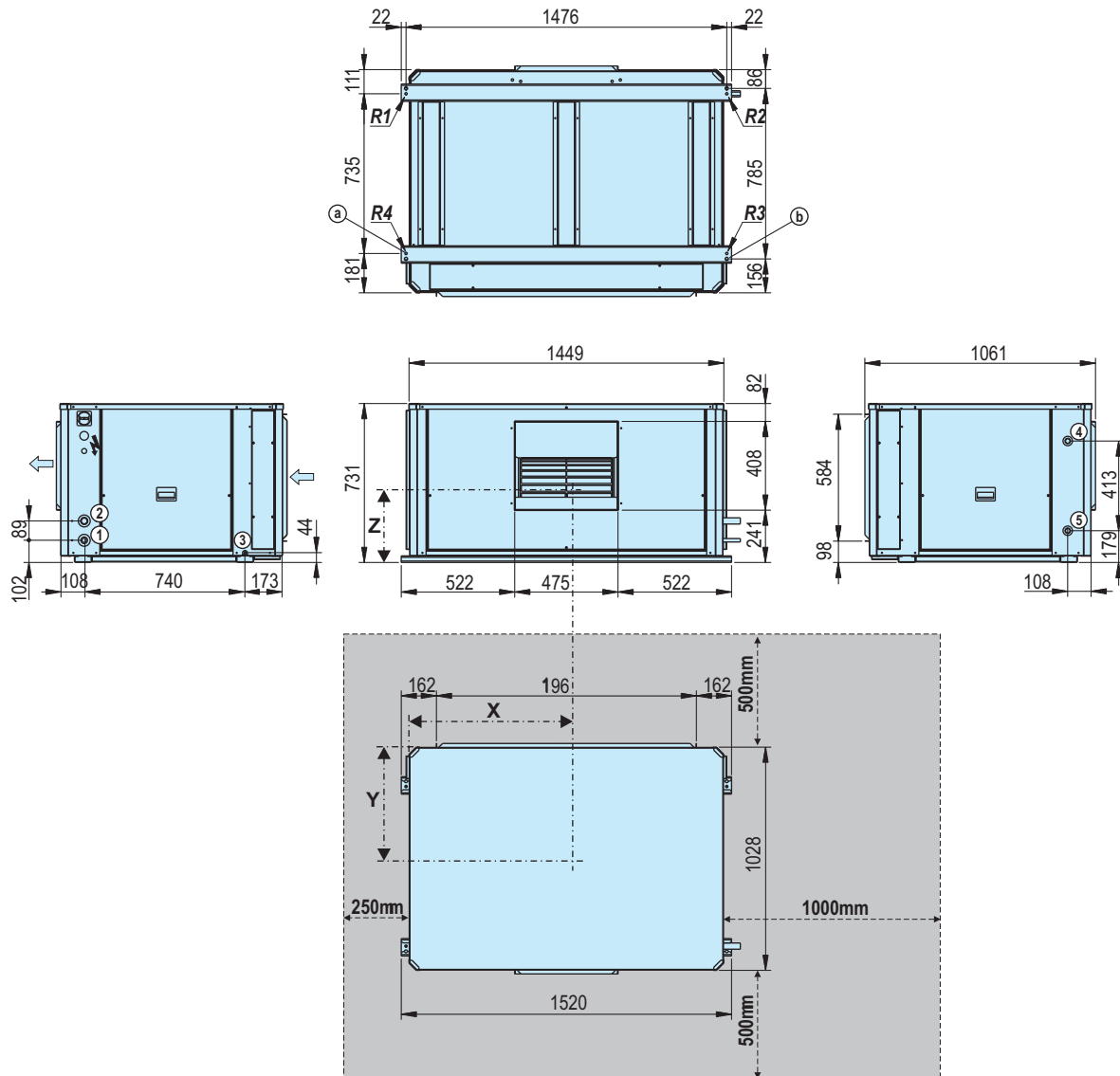
CK	A	B	C	D	E	F
90 / 100 (mm)	301	334	555	168	285	497
120 (mm)	268	399	522	193	345	411

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
90 / 100	539	327	391	147	22	19	52	55
120	539	327	391	190	28	24	67	71



Split-system cooling units and heat pumps

CK - 160 and 180 with side supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: trunk 3/4" M
- ④ Auxiliary coil water inlet (optional)
- ⑤ Auxiliary coil water outlet (optional)

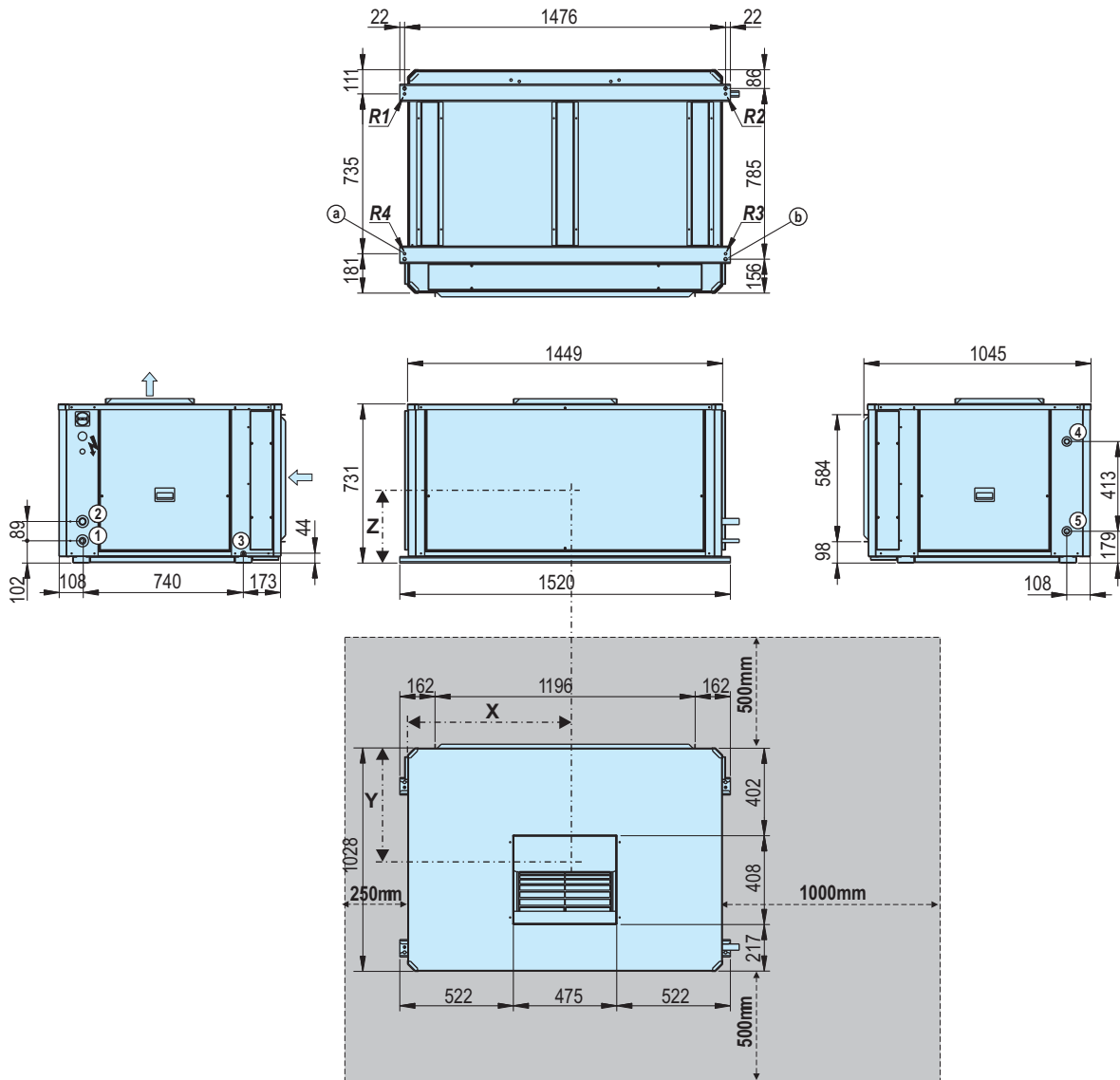
Intake profile: 20mm

a: Antivibration anchoring: rivet nut M8
b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
160 / 180	757	346	387	199	25	29	75	70

CK - 160 and 180 with upper supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: trunk 3/4" M
- ④ Auxiliary coil water inlet (optional)
- ⑤ Auxiliary coil water outlet (optional)

Intake profile: 20mm

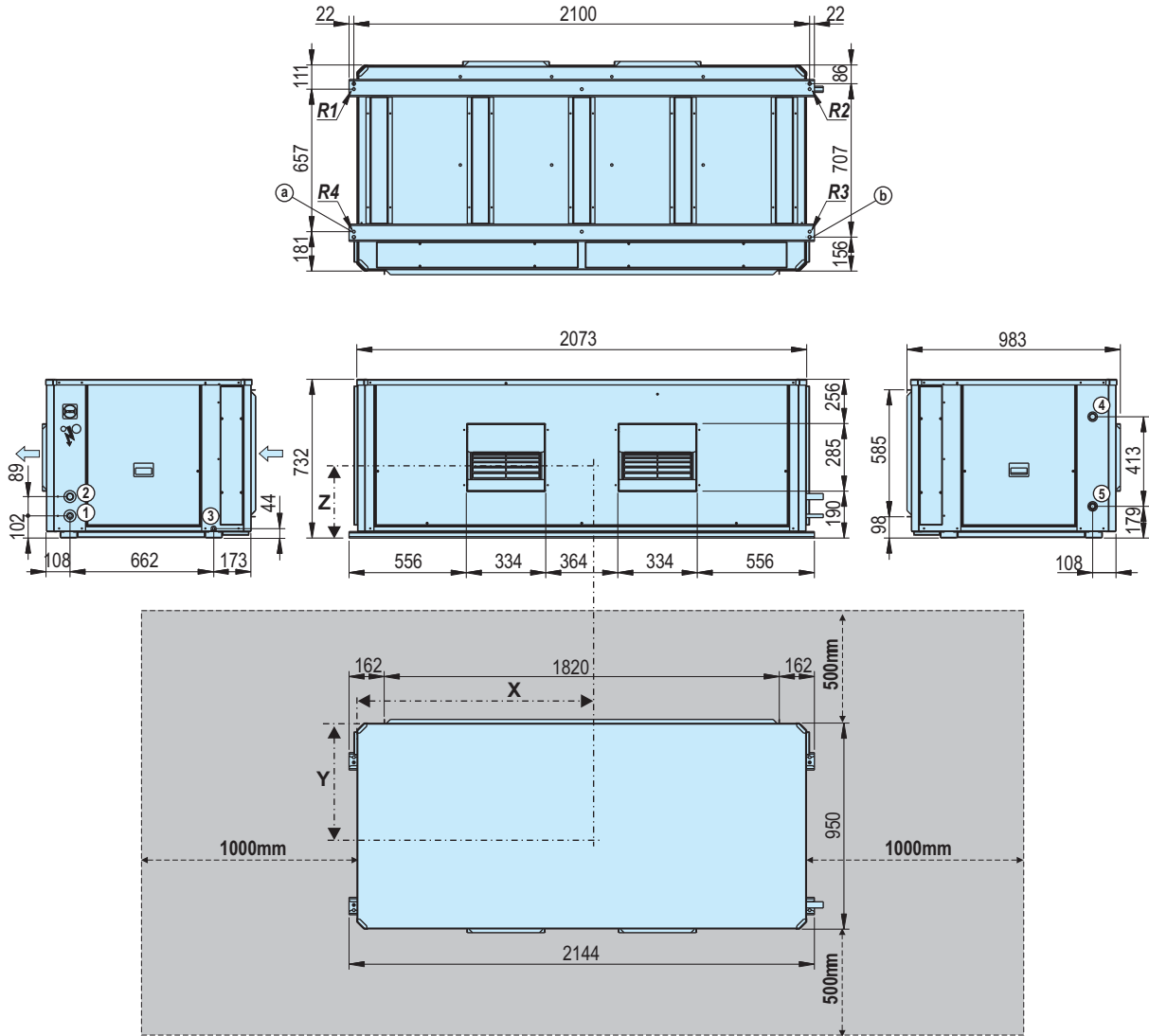
a: Antivibration anchoring: rivet nut M8

b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
160 / 180	757	346	387	199	25	29	75	70

CK - 182 with side supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: trunk 3/4" M
- ④ Auxiliary coil water inlet (optional)
- ⑤ Auxiliary coil water outlet (optional)

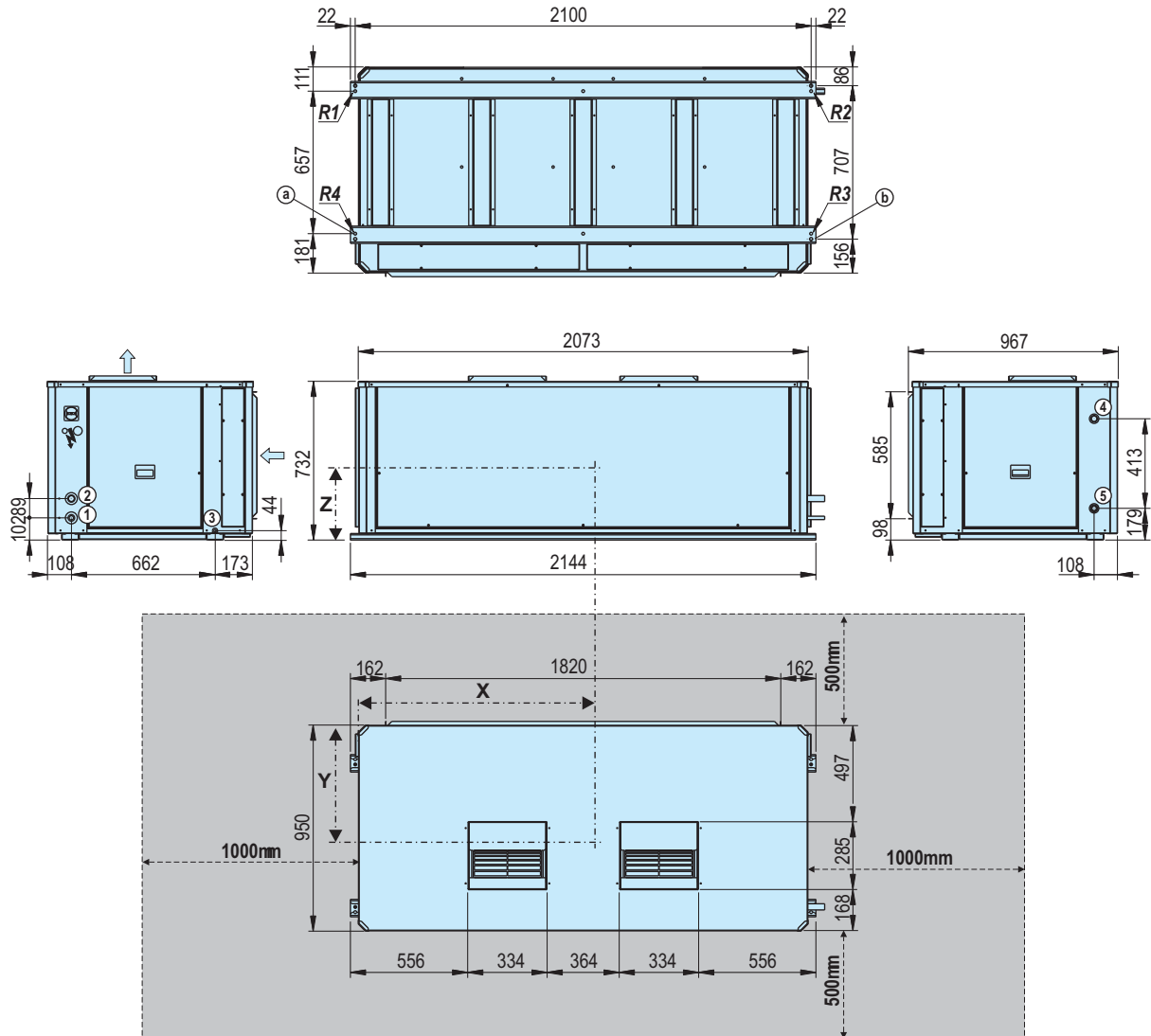
Intake profile: 20mm

a: Antivibration anchoring: rivet nut M8
b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
182	1.048	333	390	262	36	38	95	93

CK - 182 with upper supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line
- ② Gas line
- ③ Condensate outlet: trunk 3/4" M
- ④ Auxiliary coil water inlet (optional)
- ⑤ Auxiliary coil water outlet (optional)

Intake profile: 20mm

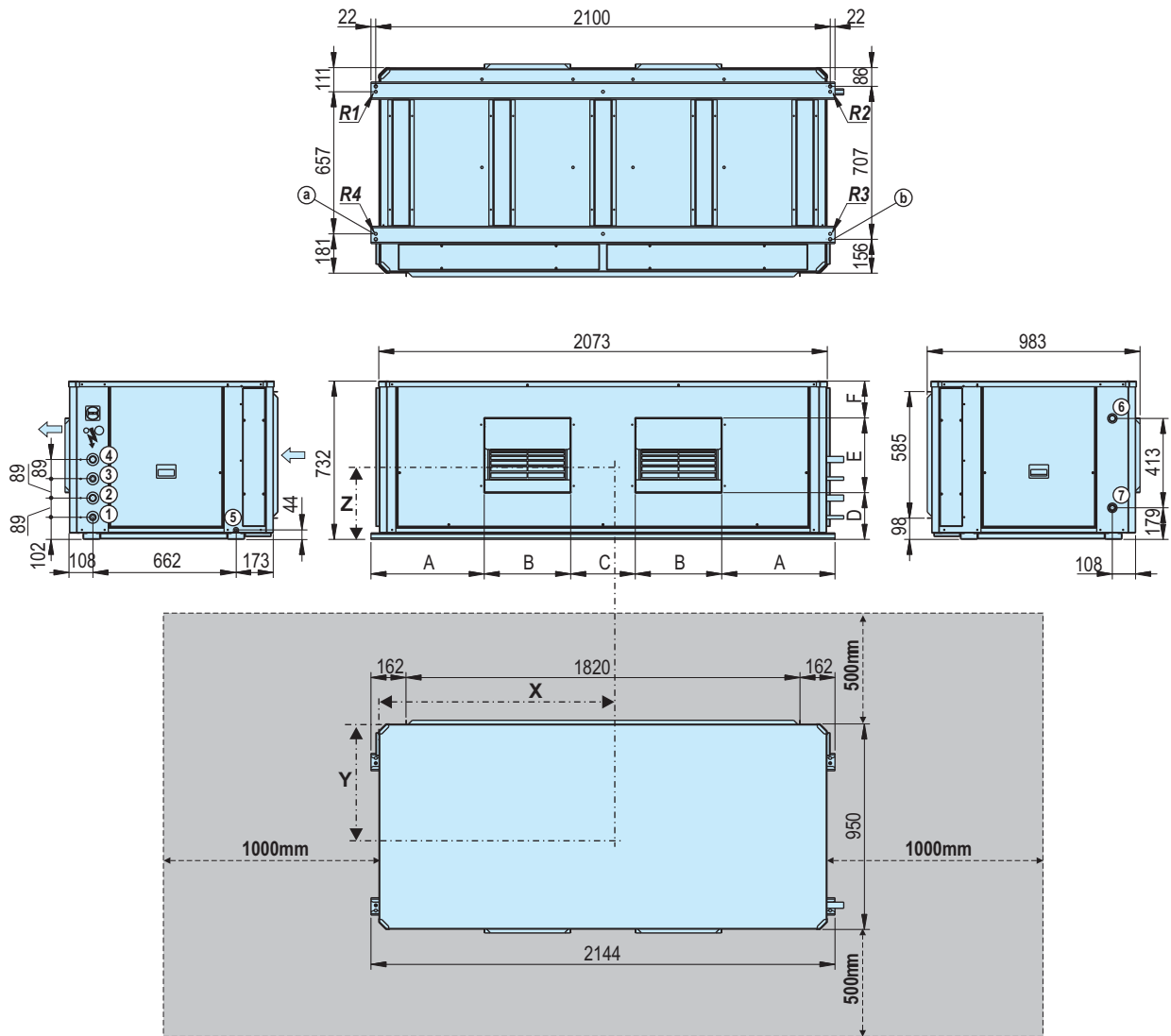
a: Antivibration anchoring: rivet nut M8

b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
182	1.048	333	390	262	36	38	95	93

CK - 200 and 240 with side supply (mm)



LEGEND

- ↻ Indoor air circulation
- ⚡ Electric power supply
- 🚪 Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: trunk 3/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)

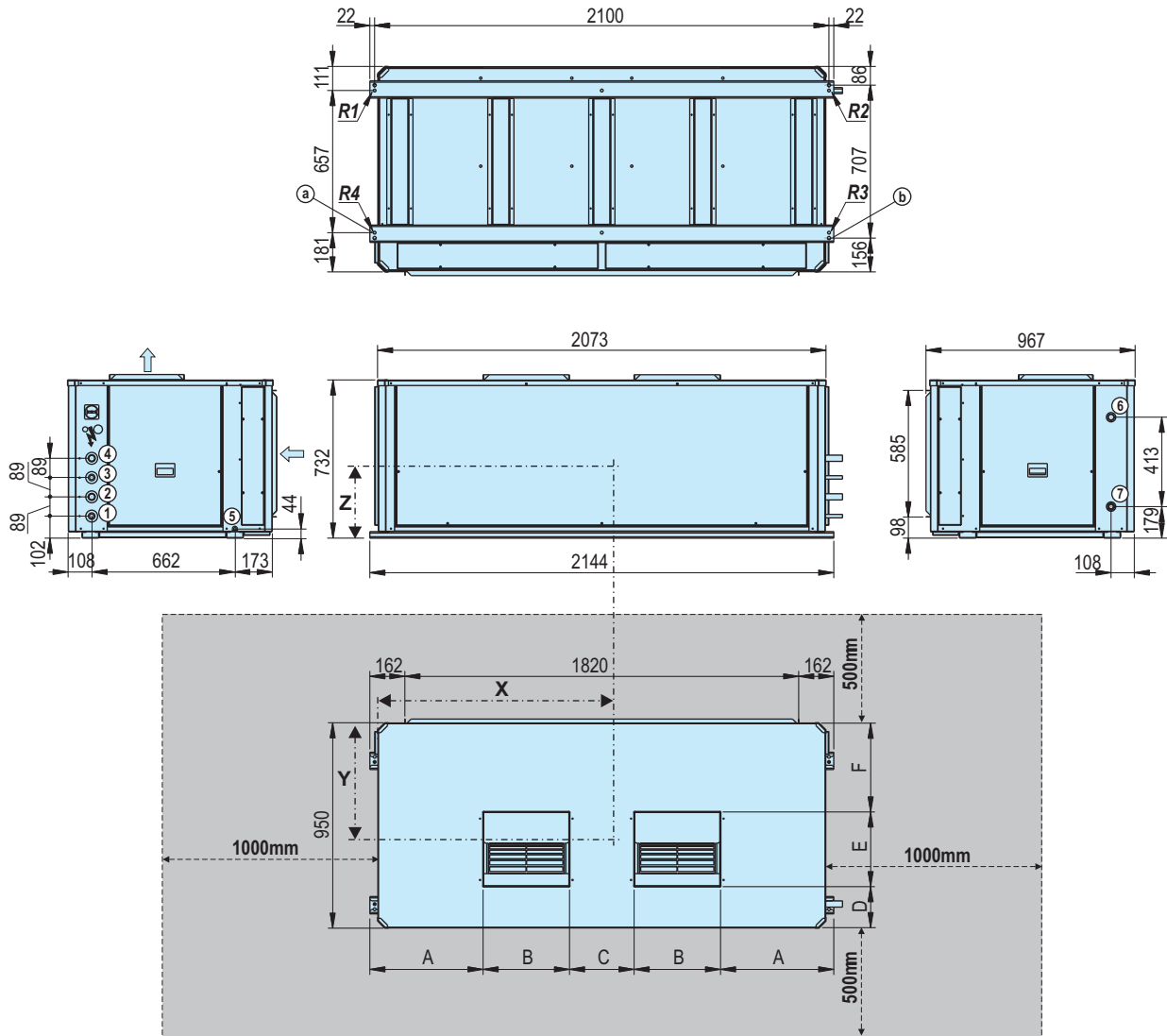
Intake profile: 20mm
 a: Antivibration anchoring: rivet nut M8
 b: Ceiling anchoring: threaded rod \varnothing 15mm

Clear space to be observed for maintenance operations and unit start-up

CK	A	B	C	D	E	F
200 (mm)	556	334	364	190	285	256
240 (mm)	523	399	299	216	345	170

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
200 / 240	1.048	333	390	262	36	38	95	93

CK - 200 and 240 with upper supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: trunk 3/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)

Intake profile: 20mm

a: Antivibration anchoring: rivet nut M8
b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

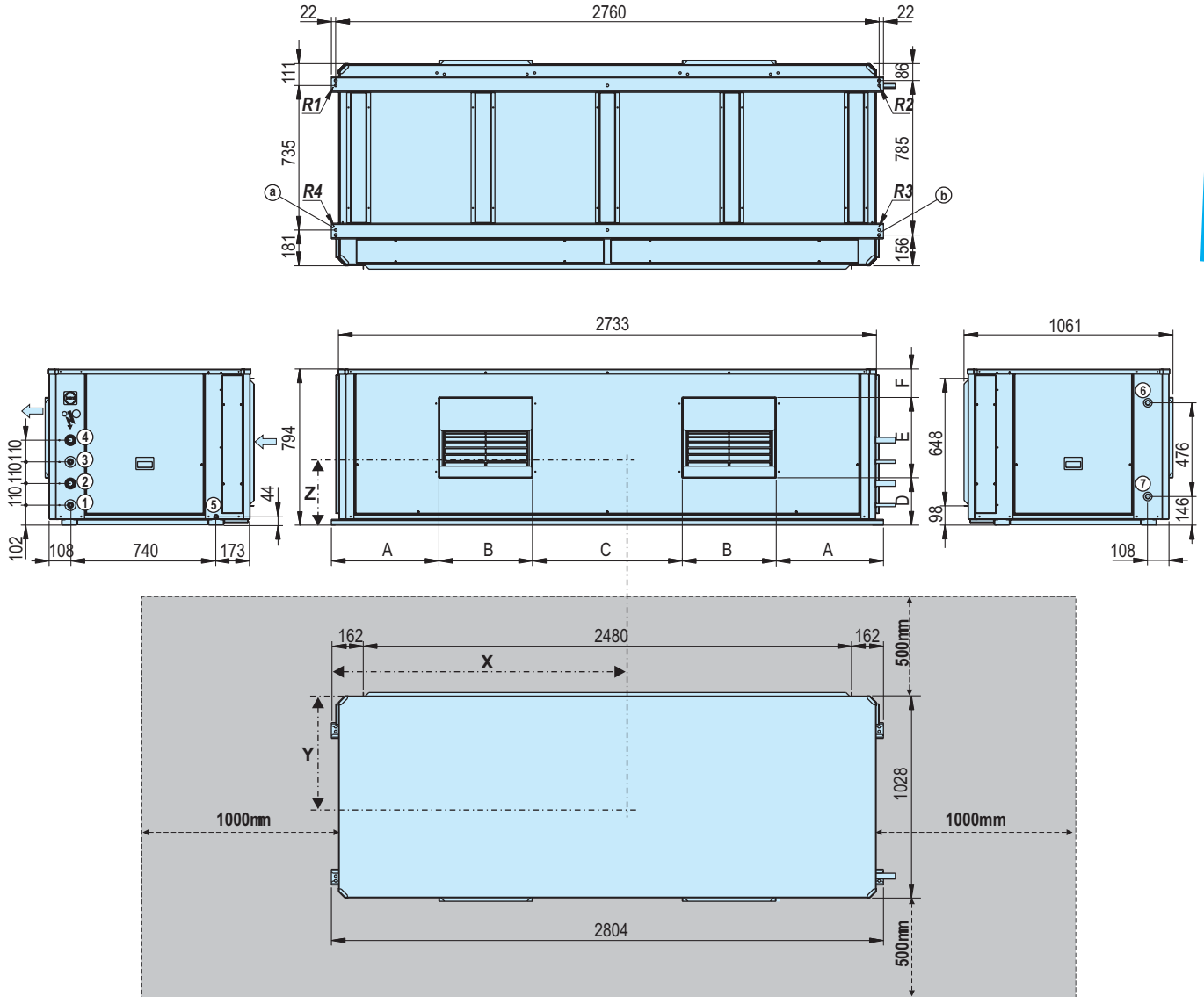
CK	A	B	C	D	E	F
200 (mm)	556	334	364	168	285	497
240 (mm)	523	399	299	139	345	411

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
200 / 240	1.048	333	390	262	36	38	95	93



Split-system cooling units and heat pumps

CK - 320 and 360 with side supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: trunk 3/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)

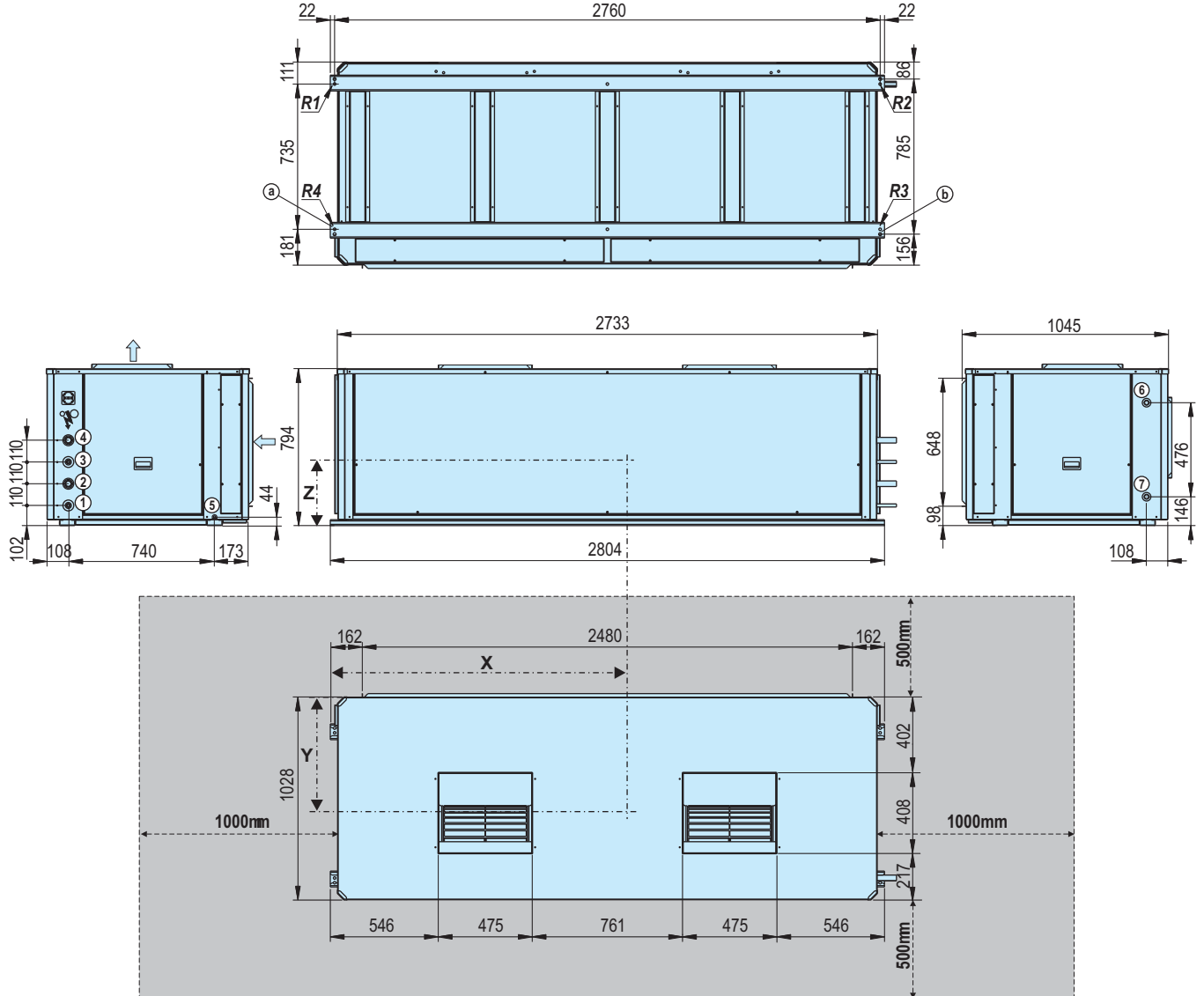
Intake profile: 20mm

a: Antivibration anchoring: rivet nut M8
 b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
320 / 360	1.384	330	416	365	44	47	138	136

CK - 320 and 360 with upper supply (mm)



LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: trunk 3/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)

Intake profile: 20mm

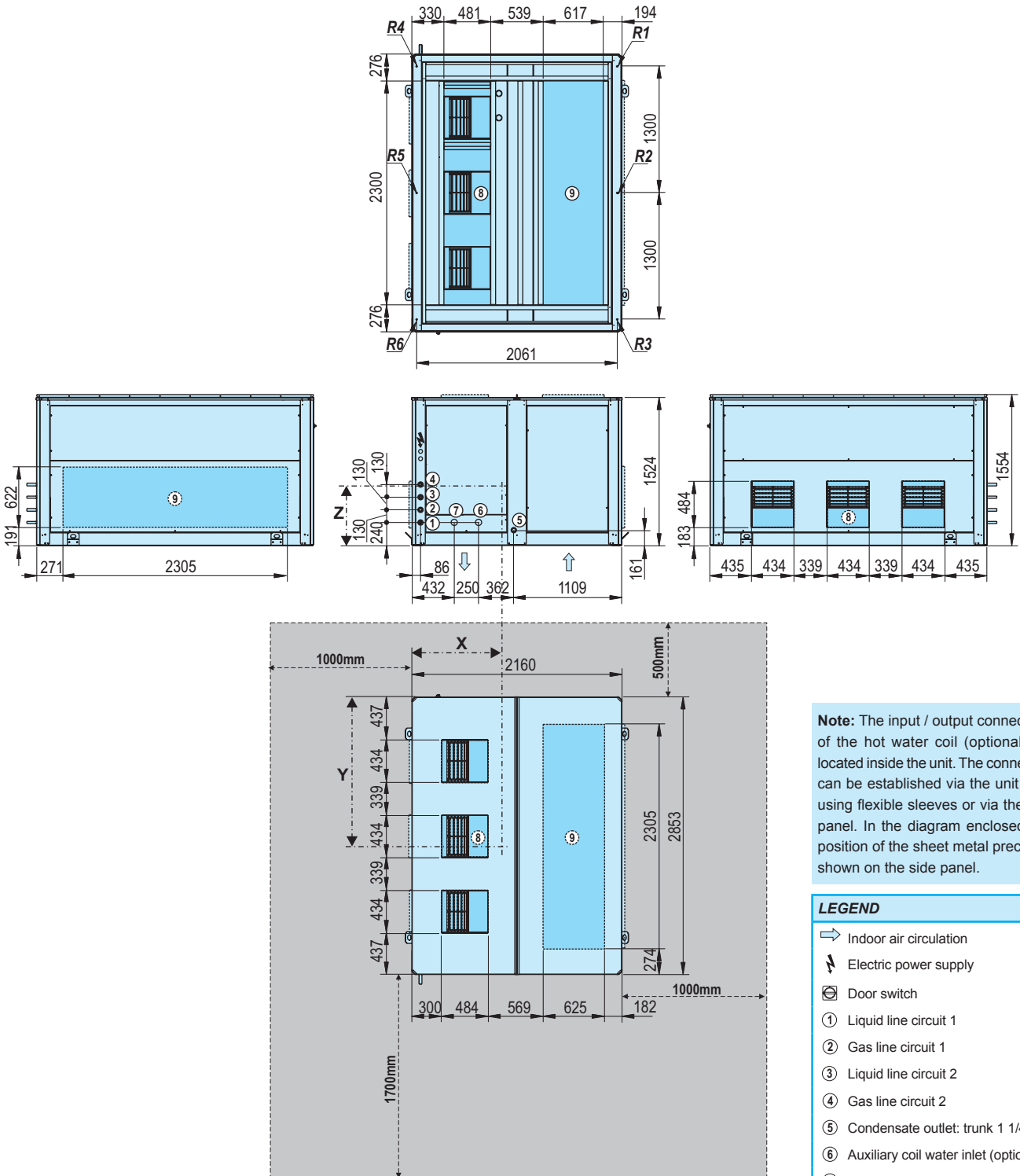
a: Antivibration anchoring: rivet nut M8

b: Ceiling anchoring: threaded rod Ø15mm

Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)				
	X	Y	Z	Weight	R1	R2	R3	R4
320 / 360	1.384	330	416	365	44	47	138	136

CK - 420, 485, 540 and 600: MO assembly (mm)



Note: The input / output connections of the hot water coil (optional) are located inside the unit. The connection can be established via the unit base using flexible sleeves or via the side panel. In the diagram enclosed, the position of the sheet metal precuts is shown on the side panel.

LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line circuit 1
- ② Gas line circuit 1
- ③ Liquid line circuit 2
- ④ Gas line circuit 2
- ⑤ Condensate outlet: trunk 1 1/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)
- ⑧ Standard air outlet
- ⊗ Optional air outlet
- ⑨ Standard return air
- ⊙ Optional return air

Intake profile: 25mm
 Antivibration anchoring: rivet nut M12

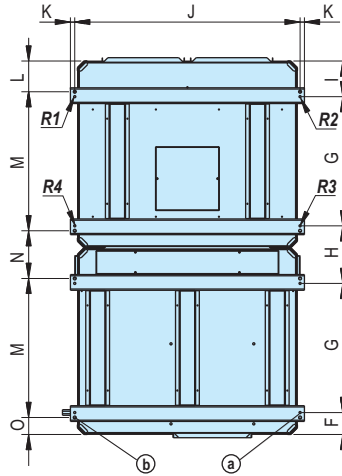
Clear space to be observed for maintenance operations and unit start-up

CK	Centre of gravity (mm)			Reactions in the supports (kg)						
	X	Y	Z	Weight	R1	R2	R3	R4	R5	R6
420	924	1.346	676	920	135	208	80	159	232	104
485	924	1.346	676	920	135	208	80	159	232	104
540	931	1.348	682	963	141	218	86	165	243	110
600	931	1.350	682	964	141	219	86	165	243	110

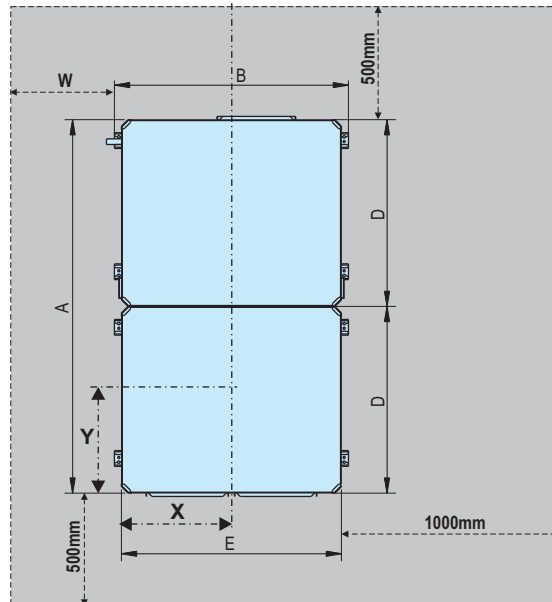
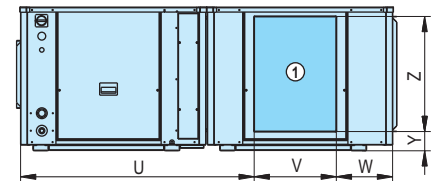
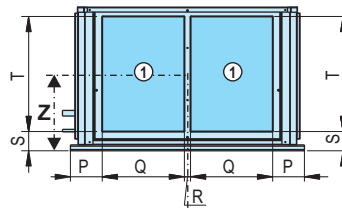
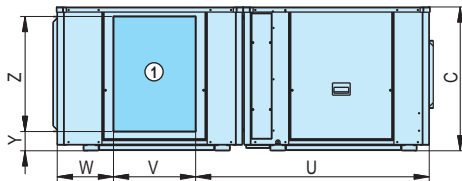
DIMENSIONS SCHEMES: ASSEMBLIES WITH MIXING BOXES (OPTIONAL)

CK - 90 to 360 with MS - 111, 116, 413, 314, 411, 114, 113, 311, 121, 126, 423, 324, 421, 124, 123, 321 assemblies (mm)

CK	Centre of gravity of the box (mm)			Weight (kg)
	X	Y	Z	
90 / 100 / 120	558	459	330	98
160 / 180	723	465	327	118
182 / 200 / 240	1.030	436	327	152
320 / 360	1.360	471	360	200



CK	Reactions in the supports of the box (kg)			
	R1	R2	R3	R4
90 / 100 / 120	23	23	26	26
160 / 180	26	26	33	33
182 / 200 / 240	34	33	42	43
320 / 360	44	44	56	56



LEGEND	
①	New or return air inlet (depending on the assembly)
Intake profile: 20mm	
a:	Antivibration anchoring: rivet nut M8
b:	Ceiling anchoring: threaded rod Ø15mm
	Clear space to be observed for maintenance operations and unit start-up

CK (mm)	W
90 to 180	250
182 to 360	1.000

CK (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y	Z
90 / 100 / 120	1.900	1.190	731	950	1.119	111	657	293	181	1.146	22	156	707	243	86	162	418	30	98	585	1.188	418	286	98	585
160 / 180	2.056	1.520	731	1.028	1.499	111	735	293	181	1.476	22	156	785	243	86	327	418	30	98	585	1.303	418	327	98	585
182 / 200 / 240	1.900	2.144	731	950	2.073	111	657	293	181	2.100	22	156	707	243	86	293	664	230	83	592	1.188	418	286	98	585
320 / 360	2.056	2.804	794	1.028	2.733	111	735	293	181	2.760	22	156	785	243	86	537	750	230	83	655	1.305	418	325	98	648

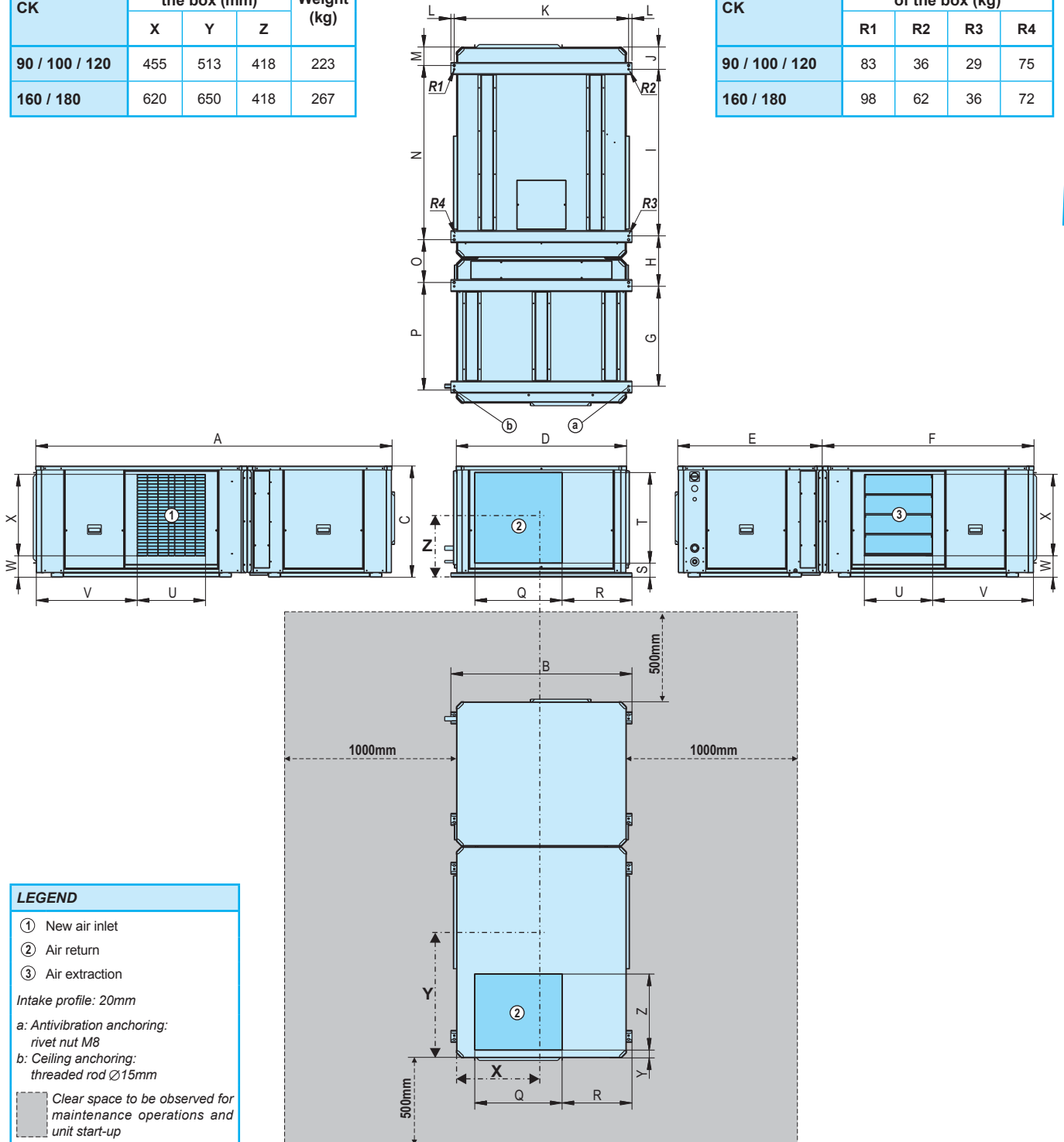


Split-system cooling units and heat pumps

CK - 90 to 180 with MC - 113, 114, 123, 124 assemblies (mm)

CK	Centre of gravity of the box (mm)			Weight (kg)
	X	Y	Z	
90 / 100 / 120	455	513	418	223
160 / 180	620	650	418	267

CK	Reactions in the supports of the box (kg)			
	R1	R2	R3	R4
90 / 100 / 120	83	36	29	75
160 / 180	98	62	36	72



LEGEND

- ① New air inlet
- ② Air return
- ③ Air extraction

Intake profile: 20mm

a: Antivibration anchoring:
rivet nut M8

b: Ceiling anchoring:
threaded rod $\varnothing 15\text{mm}$

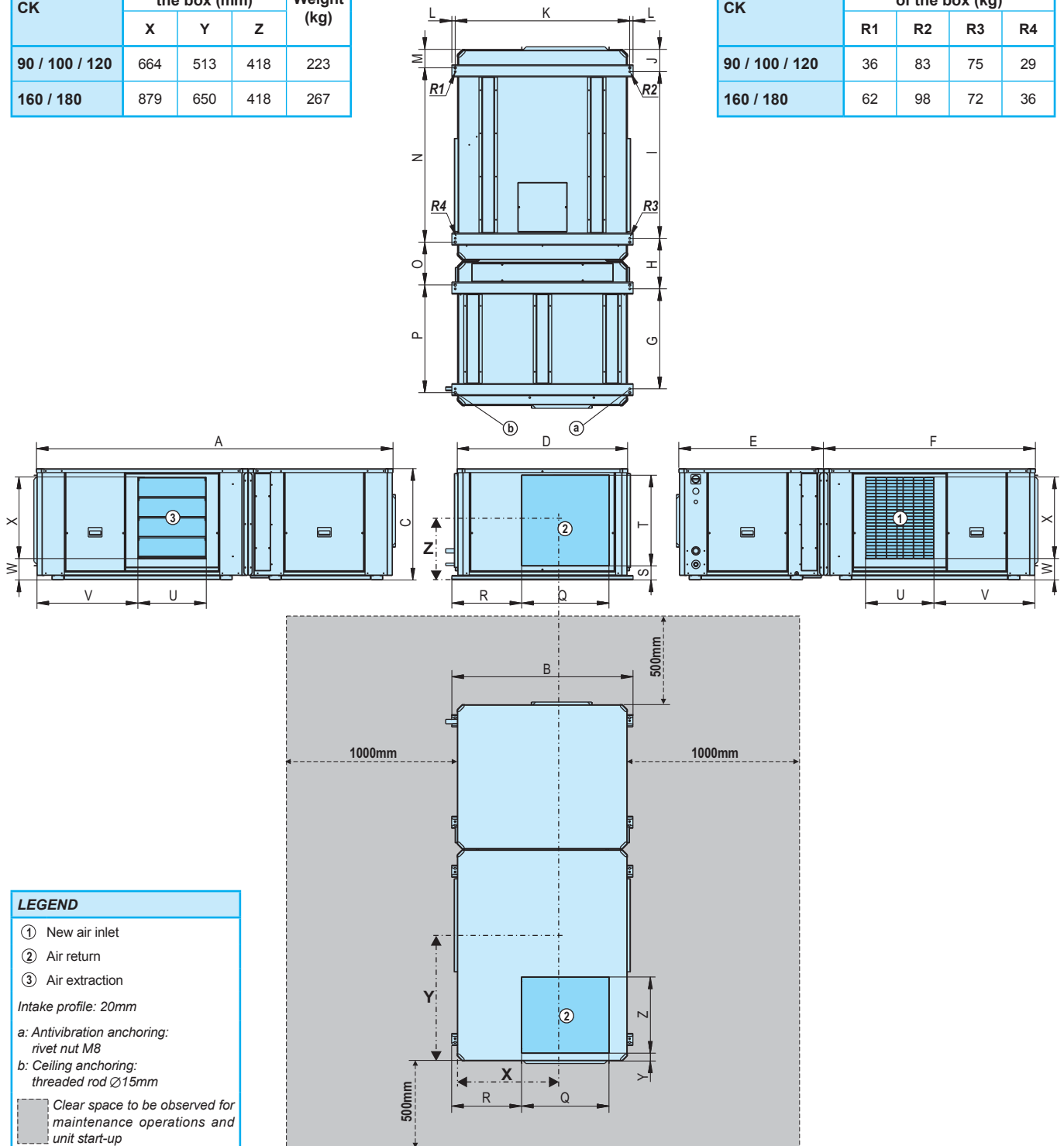
Clear space to be observed for maintenance operations and unit start-up

CK (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
90 / 100 / 120	2.338	1.190	731	1.119	950	1.392	657	328	1.095	146	1.146	22	121	1.145	278	707	573	459	93	595	350	663	141	536	51	500
160 / 180	2.731	1.520	731	1.499	1.028	1.635	735	328	1.338	146	1.476	22	121	1.388	278	785	905	459	93	595	452	813	141	536	51	578

CK - 90 to 180 with MC - 213, 214, 223, 224 assemblies (mm)

CK	Centre of gravity of the box (mm)			Weight (kg)
	X	Y	Z	
90 / 100 / 120	664	513	418	223
160 / 180	879	650	418	267

CK	Reactions in the supports of the box (kg)			
	R1	R2	R3	R4
90 / 100 / 120	36	83	75	29
160 / 180	62	98	72	36



CK (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
90 / 100 / 120	2338	1190	731	1119	950	1392	657	328	1095	146	1146	22	121	1145	278	707	573	459	93	595	350	663	141	536	51	500
160 / 180	2731	1520	731	1499	1028	1635	735	328	1338	146	1476	22	121	1388	278	785	905	459	93	595	452	813	141	536	51	578

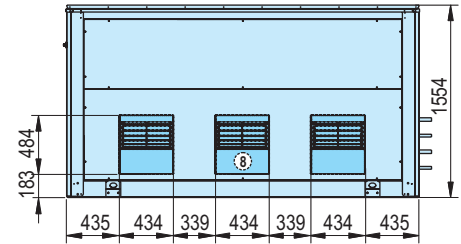
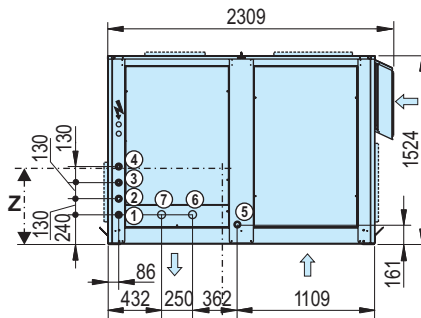
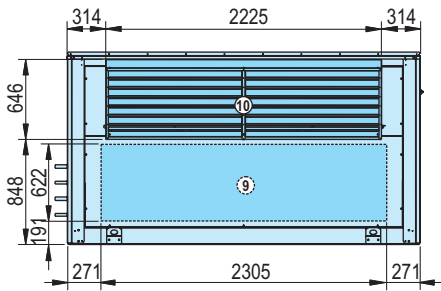
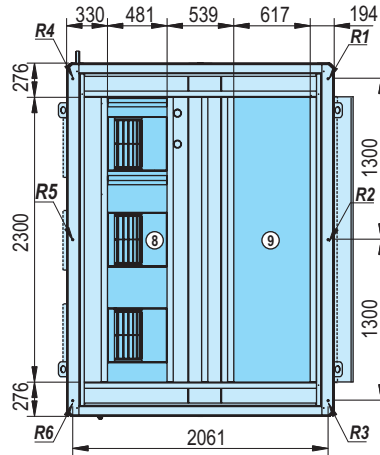


Split-system cooling units and heat pumps

CK - 420, 485, 540 and 600: MS assemblies (mm)

CK	C.o.g. (mm)			Weight (kg)
	X	Y	Z	
420	1.104	1.346	699	1.000
485	1.106	1.346	699	1.000
540	1.107	1.348	705	1.043
600	1.107	1.350	705	1.044

CK	Reactions in the supports (kg)					
	R1	R2	R3	R4	R5	R6
420	113	227	122	139	253	148
485	112	227	122	138	253	148
540	117	237	128	144	263	154
600	118	237	128	143	263	154



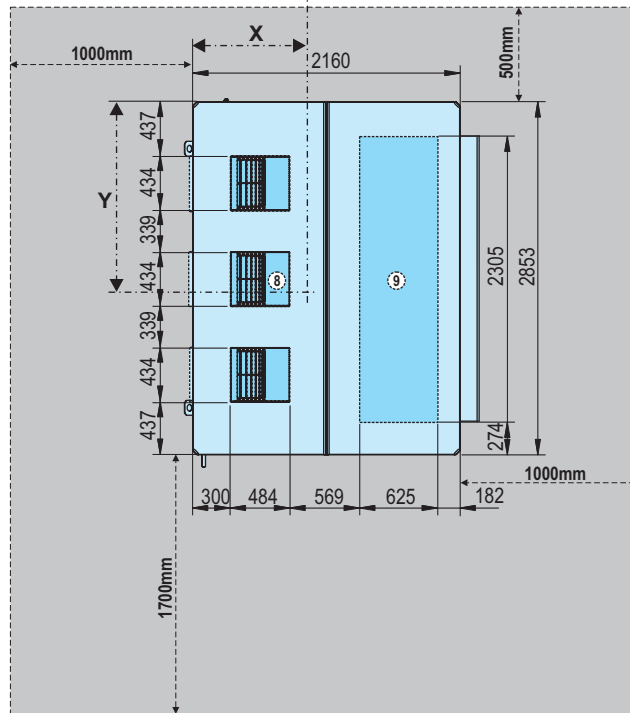
LEGEND

- Indoor air circulation
- Electric power supply
- Door switch
- ① Liquid line: circuit 1
- ② Gas line: circuit 1
- ③ Liquid line: circuit 2
- ④ Gas line: circuit 2
- ⑤ Condensate outlet: trunk 1 1/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)
- ⑧ Standard air outlet
- ⊗ Optional air outlet
- ⑨ Standard return air
- ⊙ Optional return air
- ⑩ New air inlet

Intake profile: 25mm

Antivibration anchoring: rivet nut M12

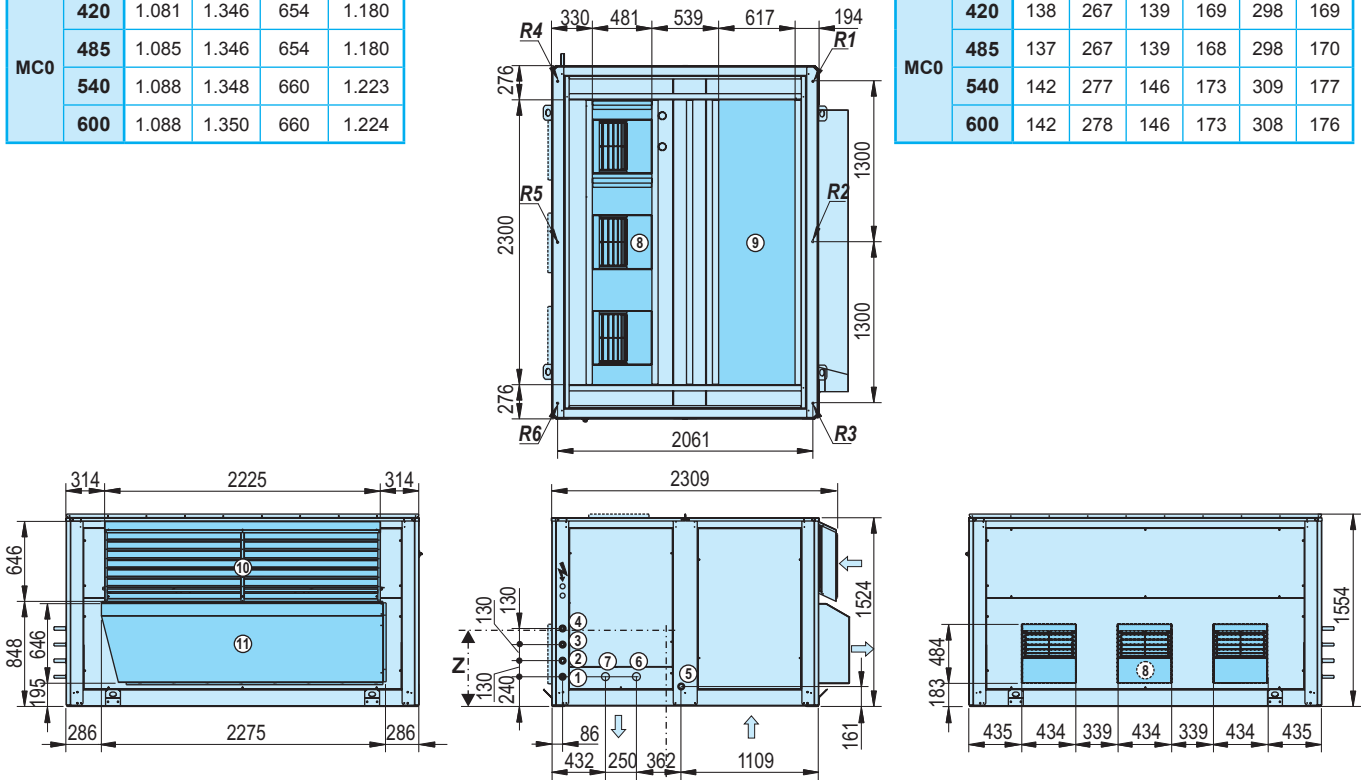
Clear space to be observed for maintenance operations and unit start-up



CK - 420, 485, 540 and 600: MC0 assemblies (mm)

CK	C.o.g. (mm)			Weight (kg)	
	X	Y	Z		
MC0	420	1.081	1.346	654	1.180
	485	1.085	1.346	654	1.180
	540	1.088	1.348	660	1.223
	600	1.088	1.350	660	1.224

CK	Reactions in the supports (kg)						
	R1	R2	R3	R4	R5	R6	
MC0	420	138	267	139	169	298	169
	485	137	267	139	168	298	170
	540	142	277	146	173	309	177
	600	142	278	146	173	308	176



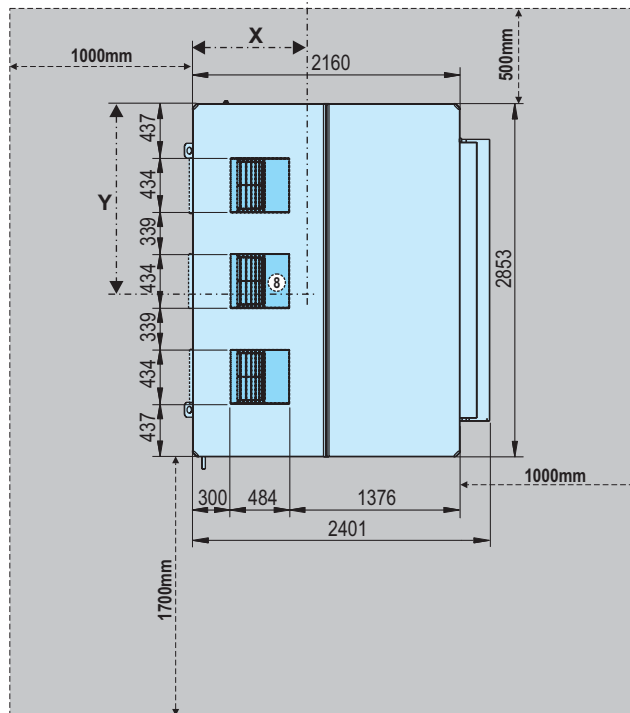
LEGEND

- ↻ Indoor air circulation
- ⚡ Electric power supply
- ⊞ Door switch
- ① Liquid line: circuit 1
- ② Gas line: circuit 1
- ③ Liquid line: circuit 2
- ④ Gas line: circuit 2
- ⑤ Condensate outlet: trunk 1 1/4" M
- ⑥ Auxiliary coil water inlet (optional)
- ⑦ Auxiliary coil water outlet (optional)
- ⑧ Standard air outlet
- ⊞ Optional air outlet
- ⑨ Standard return air
- ⊞ Optional return air
- ⑩ New air inlet

Intake profile: 25mm

Antivibration anchoring: rivet nut M12

Clear space to be observed for maintenance operations and unit start-up

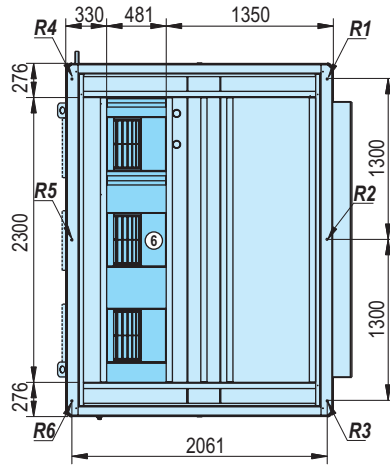




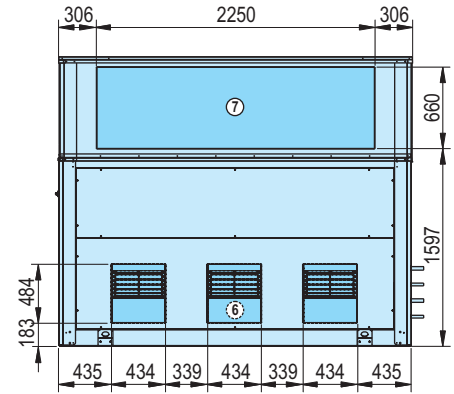
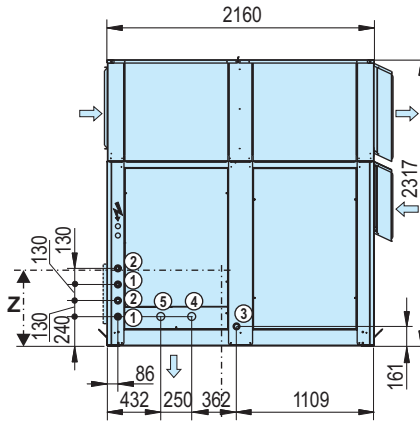
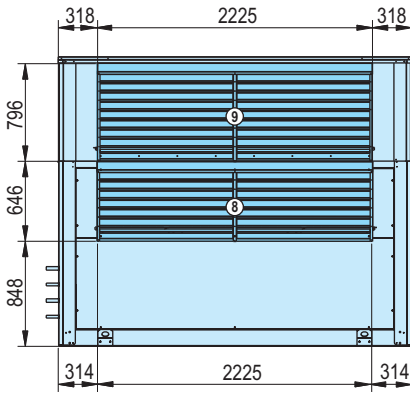
Split-system cooling units and heat pumps

CK - 420, 485, 540 and 600 with MC1 assemblies (mm)

CK	C.o.g. (mm)			Weight (kg)	
	X	Y	Z		
MC1	420	1.156	1.346	933	1.626
	485	1.158	1.346	937	1.626
	540	1.158	1.348	938	1.669
	600	1.148	1.350	930	1.697

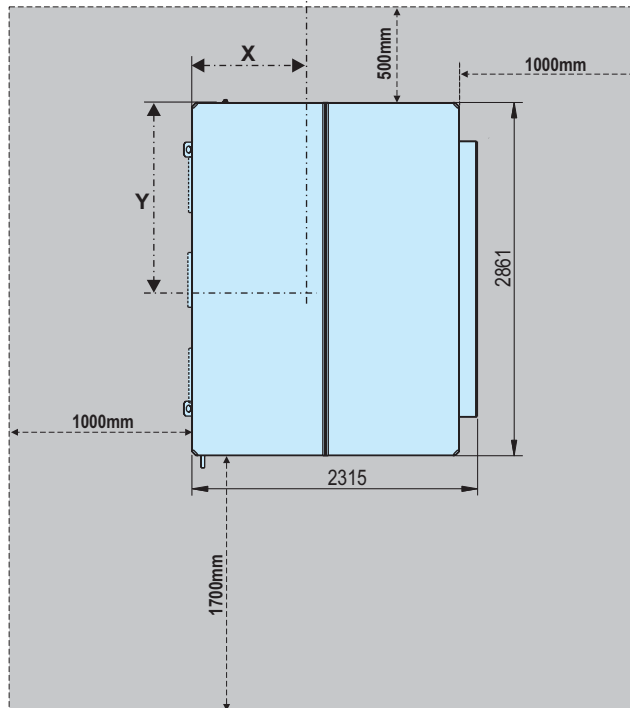


CK	Reactions in the supports (kg)						
	R1	R2	R3	R4	R5	R6	
MC1	420	167	368	214	209	411	257
	485	166	368	215	208	411	257
	540	171	379	221	213	421	264
	600	178	386	222	220	428	264



LEGEND

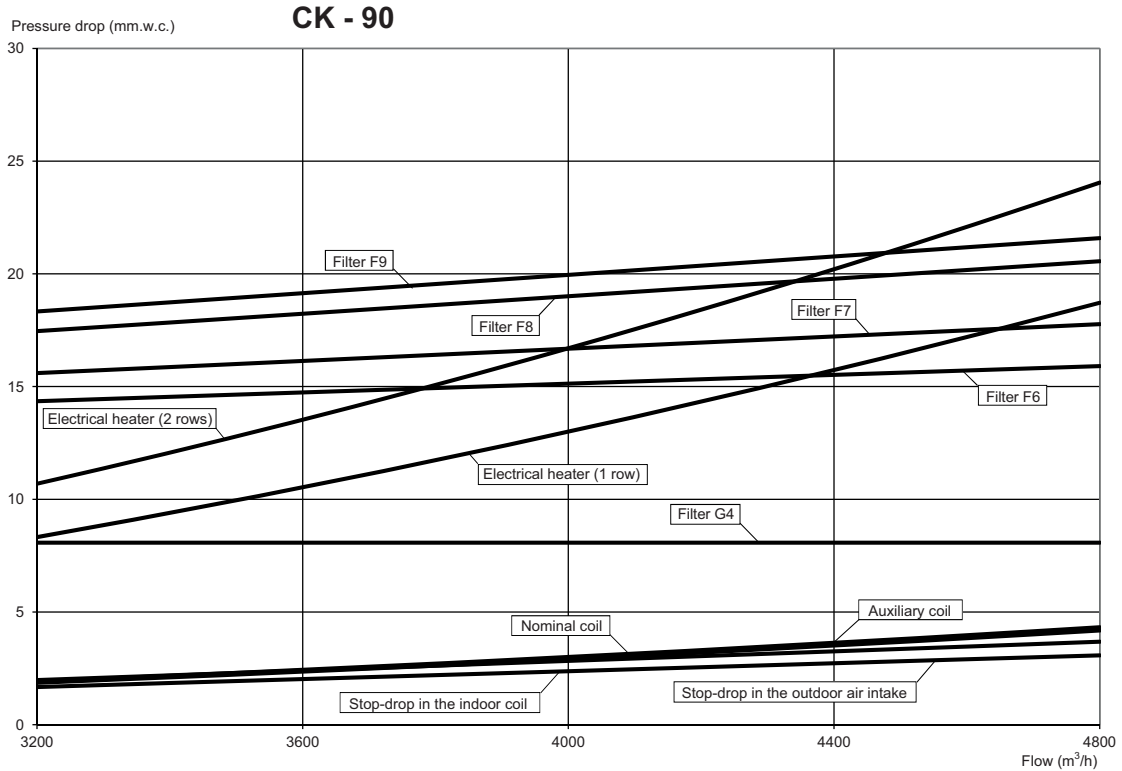
- ⇨ Indoor air circulation
 - ⚡ Electric power supply
 - ⊕ Door switch
 - ① Liquid line: circuit 1
 - ② Gas line: circuit 1
 - ③ Liquid line: circuit 2
 - ④ Gas line: circuit 2
 - ⑤ Condensate outlet: trunk 1 1/4" M
 - ⑥ Auxiliary coil water inlet (optional)
 - ⑦ Auxiliary coil water outlet (optional)
 - ⑧ Standard air outlet
 - ⑧ Optional air outlet
 - ⑨ Standard return air
 - ⑨ Optional return air
 - ⑩ New air inlet
- Intake profile: 25mm
 Antivibration anchoring: rivet nut M12
- Clear space to be observed for maintenance operations and unit start-up



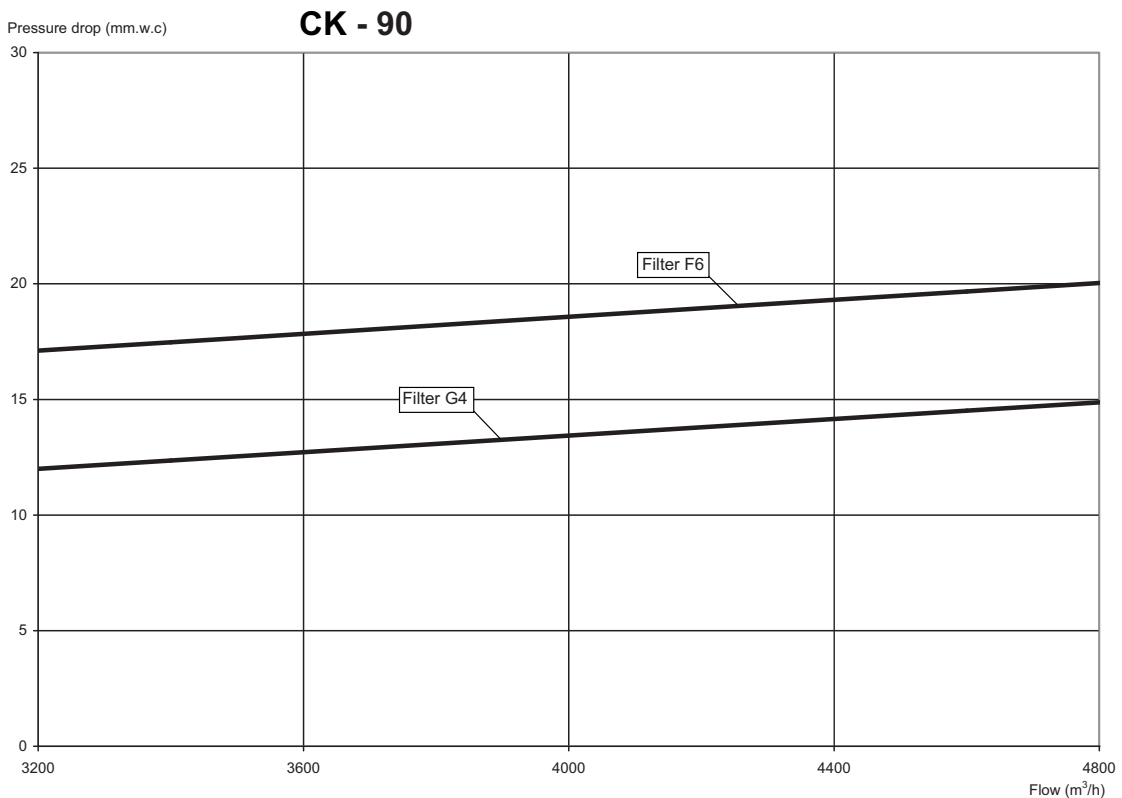


PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



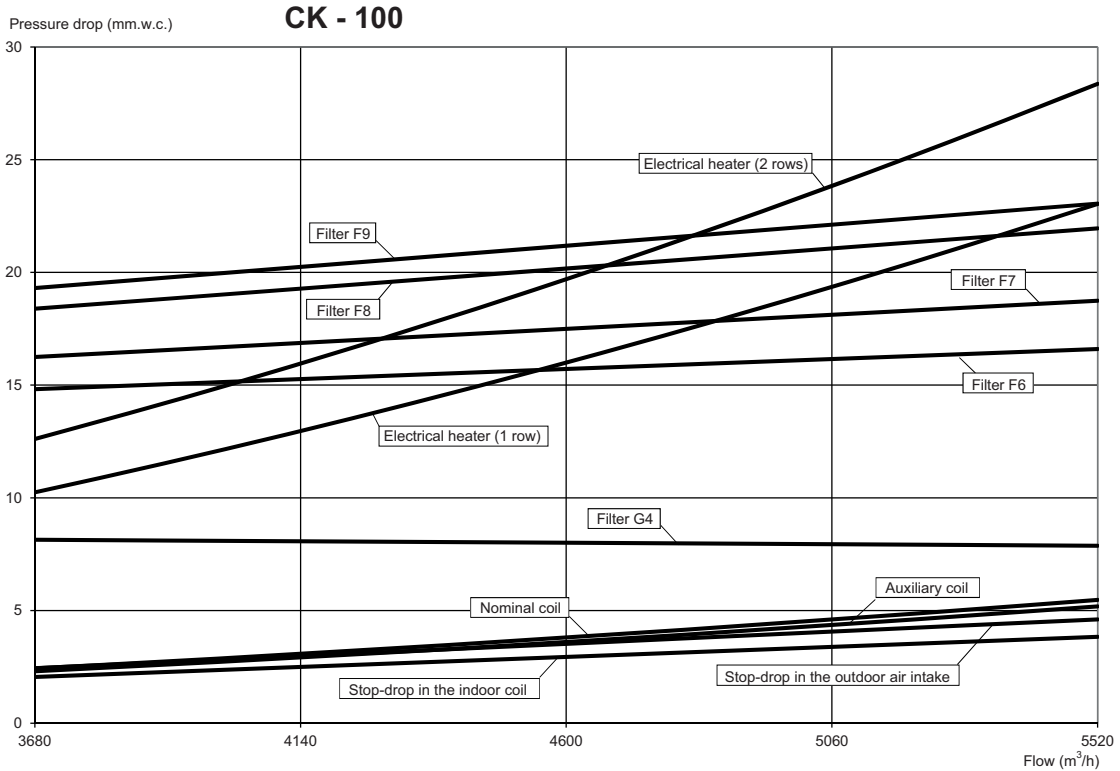
Note: pressure drops in the filters have been calculated for an average level of clogging.



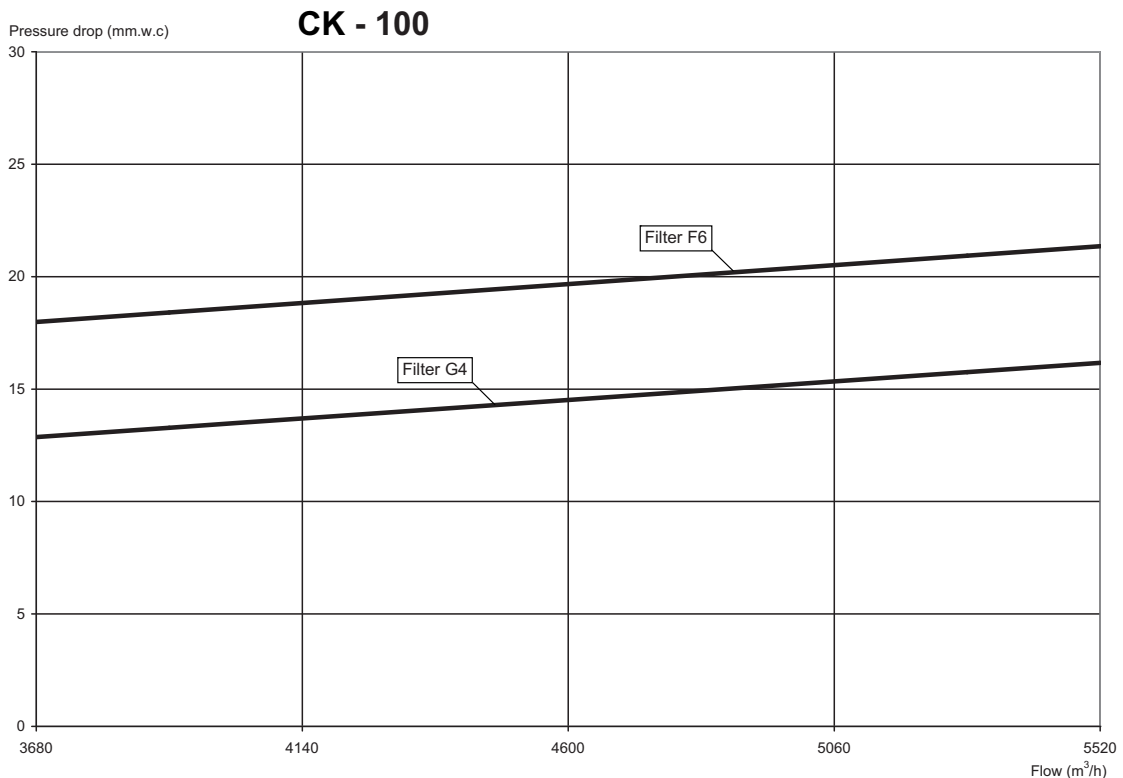
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



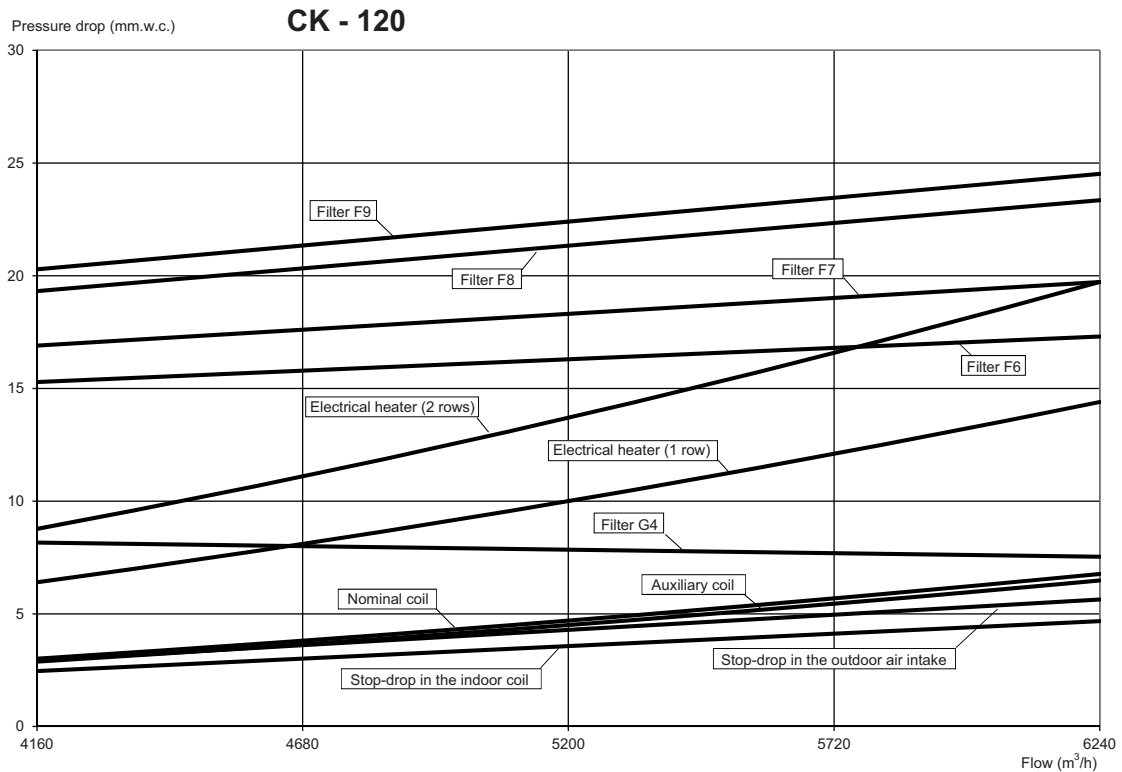
■ Return pressure drops



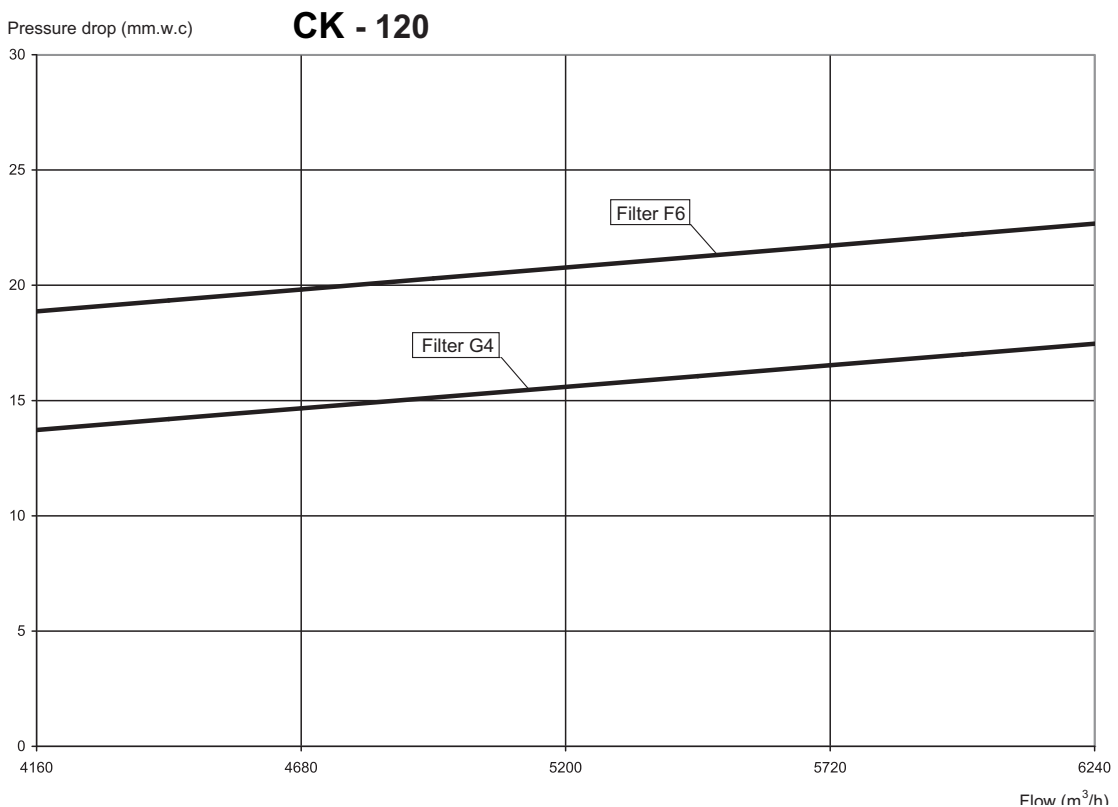
Note: pressure drops in the filters have been calculated for an average level of clogging.

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



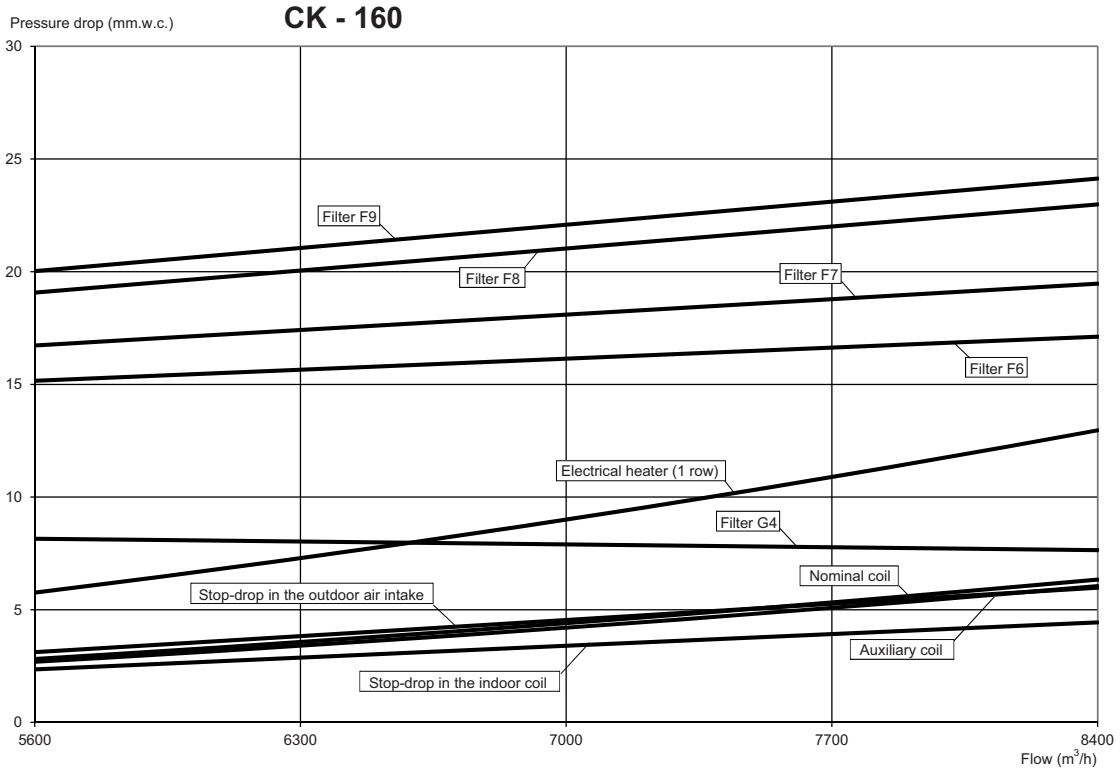
Note: pressure drops in the filters have been calculated for an average level of clogging.



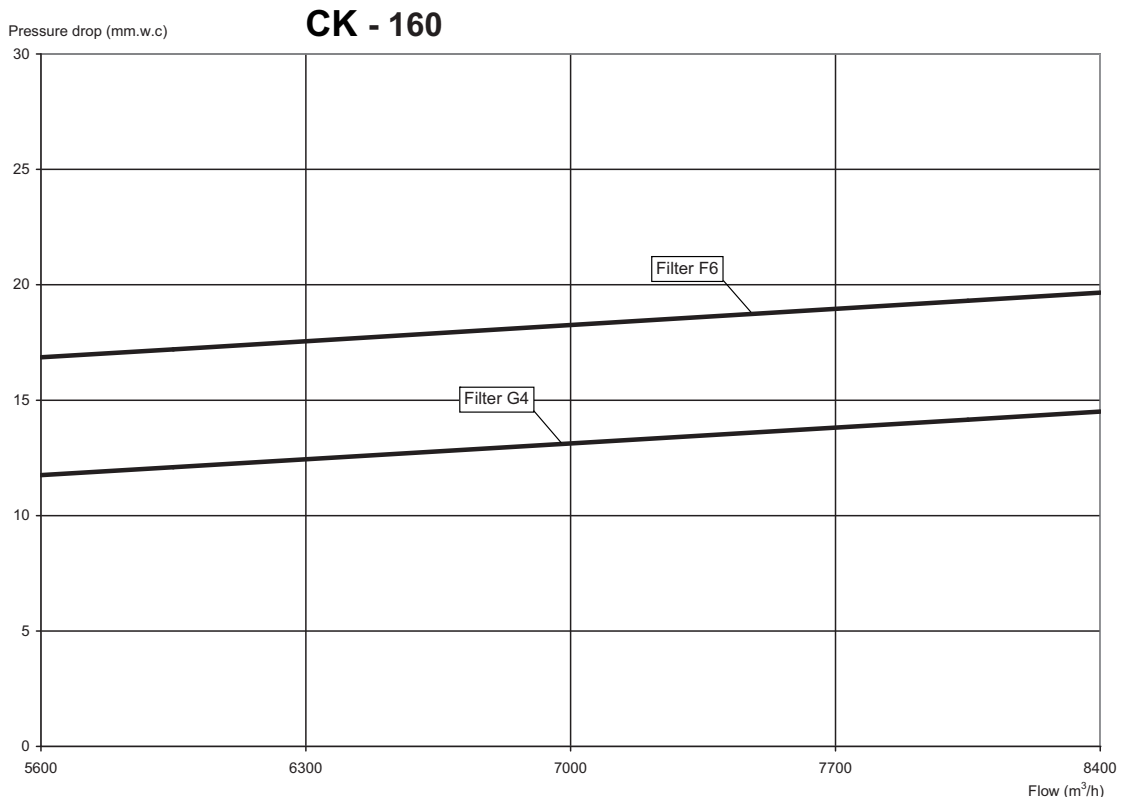
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



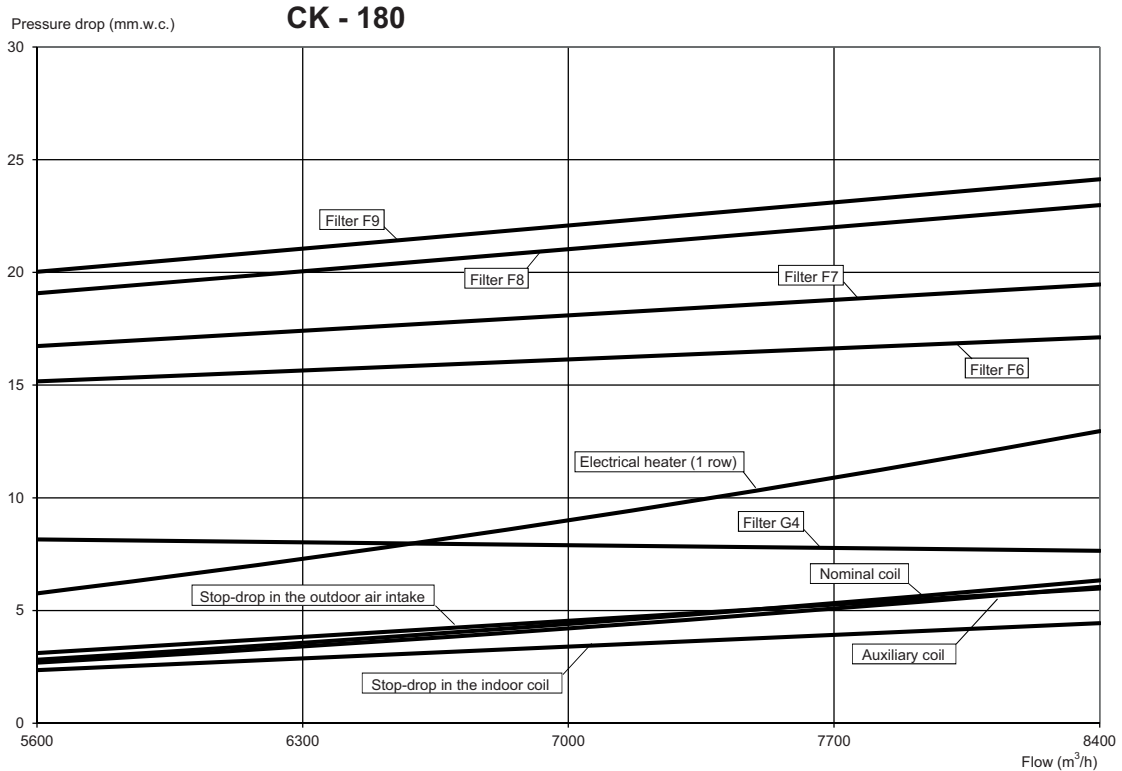
■ Return pressure drops



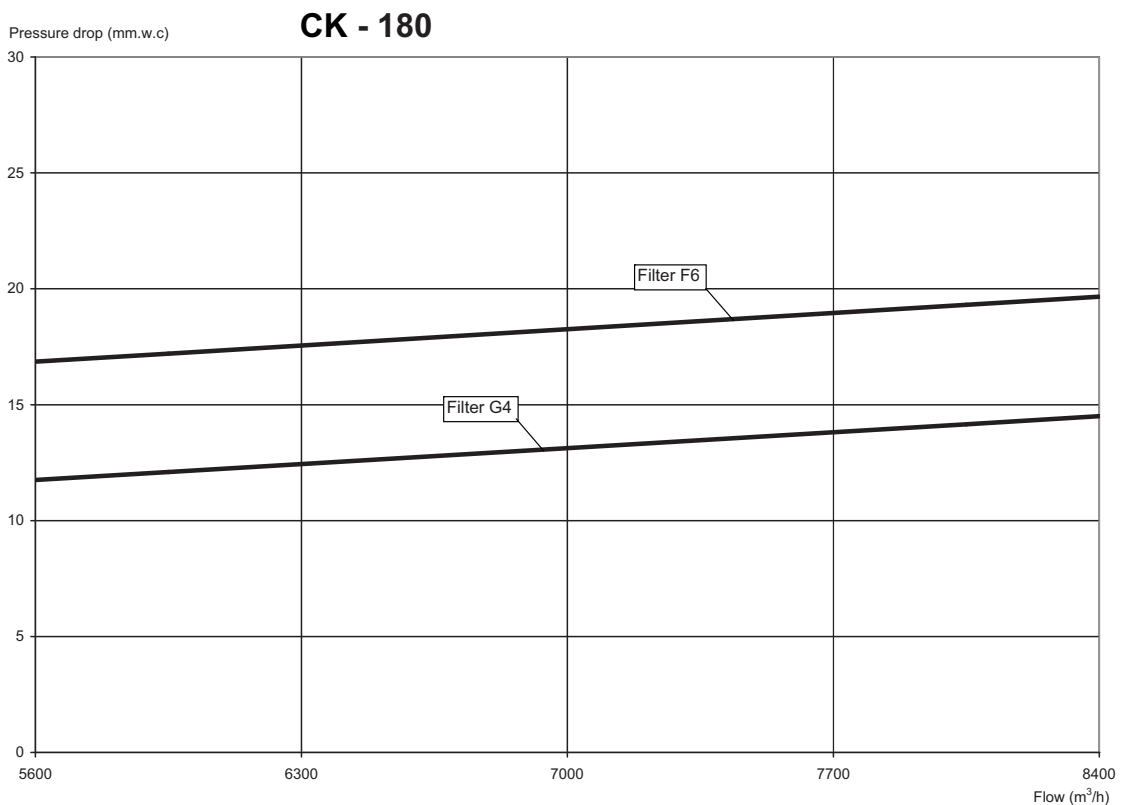
Note: pressure drops in the filters have been calculated for an average level of clogging.

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



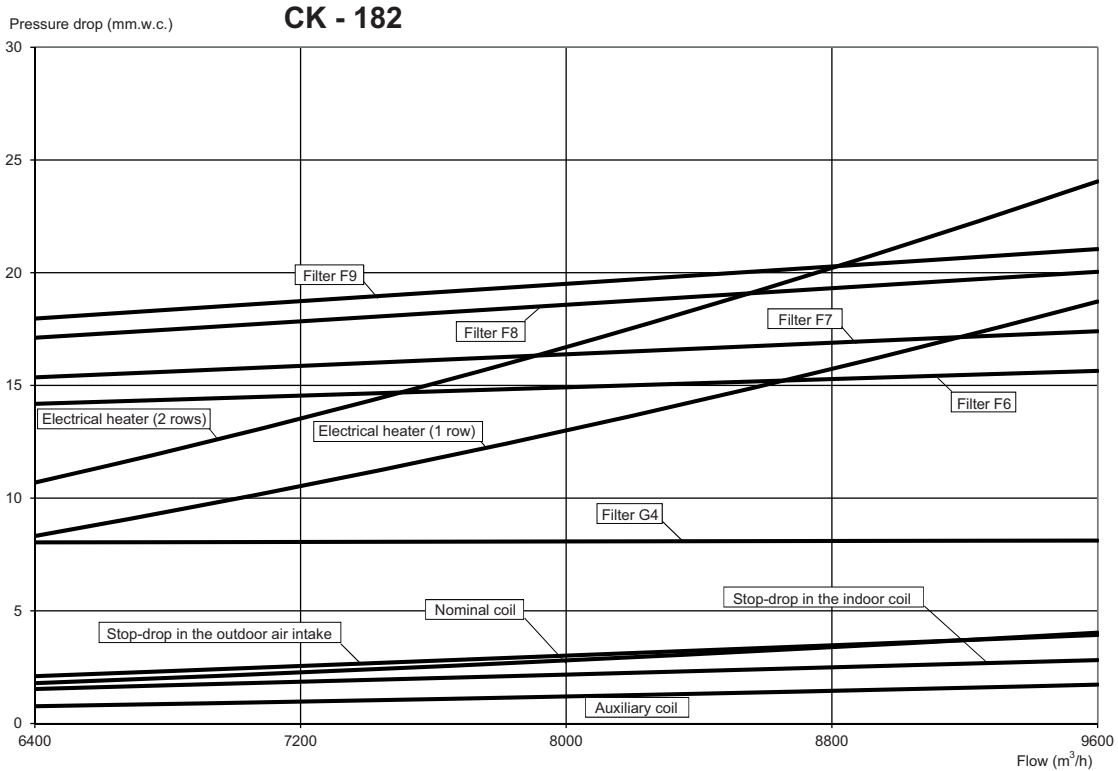
Note: pressure drops in the filters have been calculated for an average level of clogging.



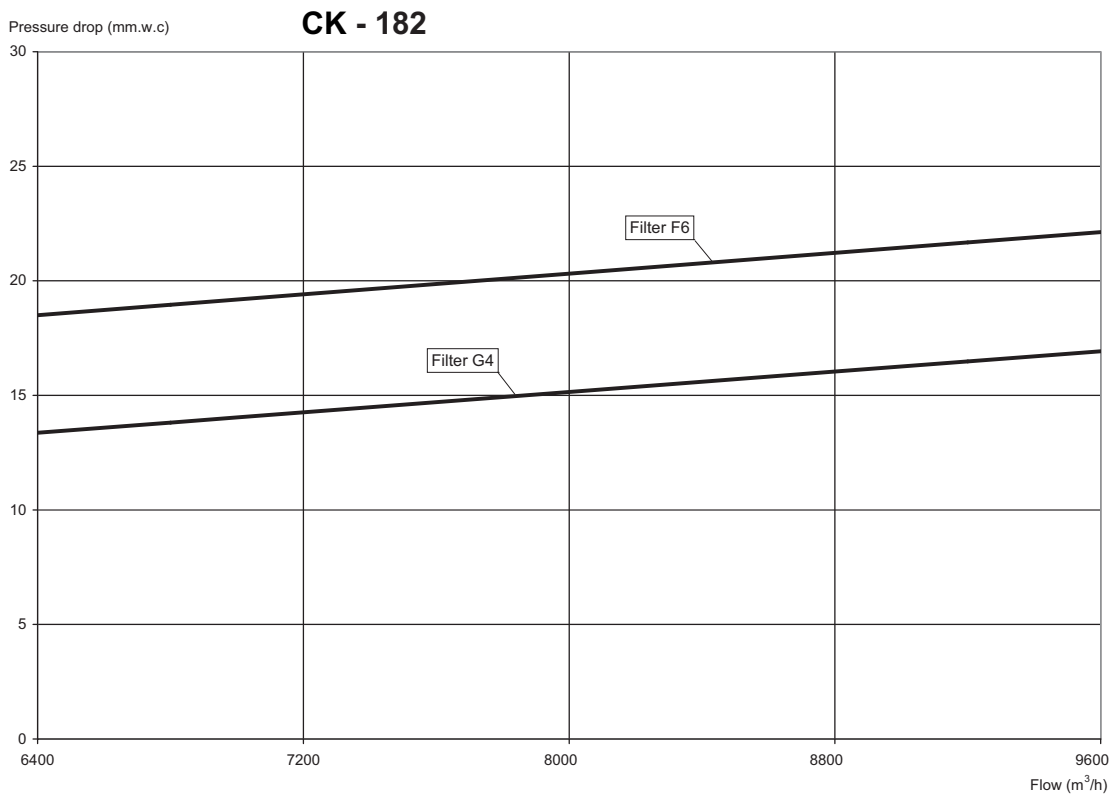
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



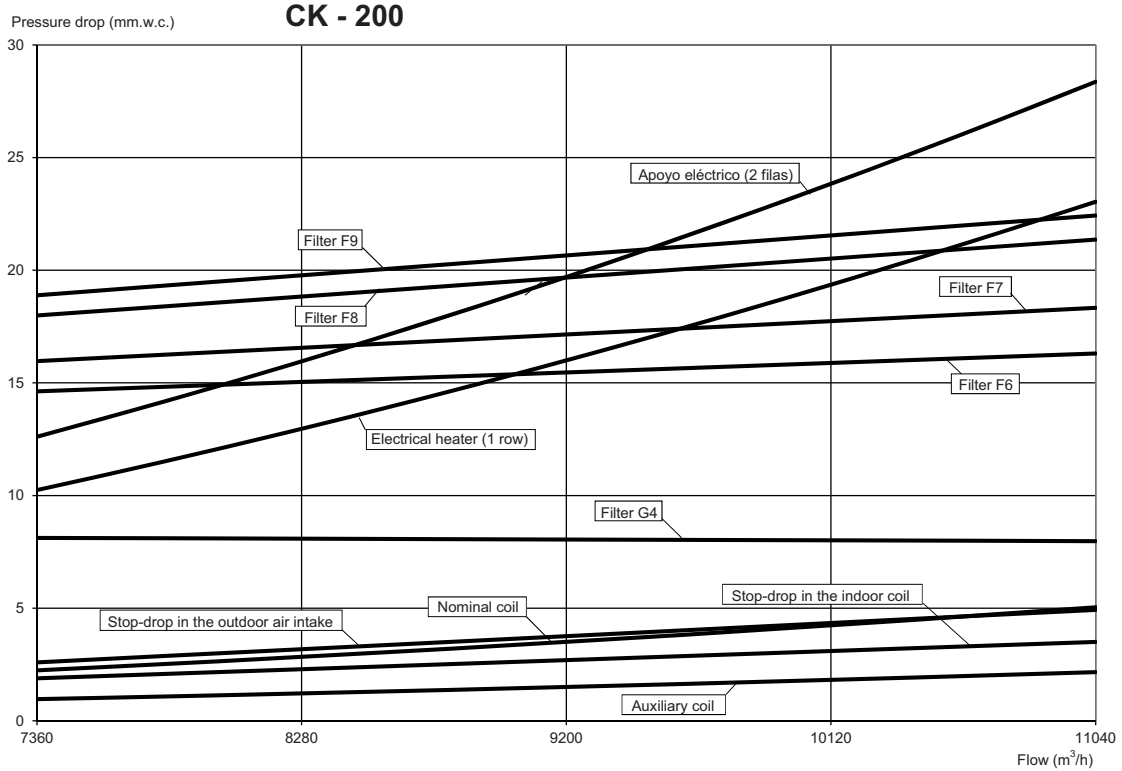
■ Return pressure drops



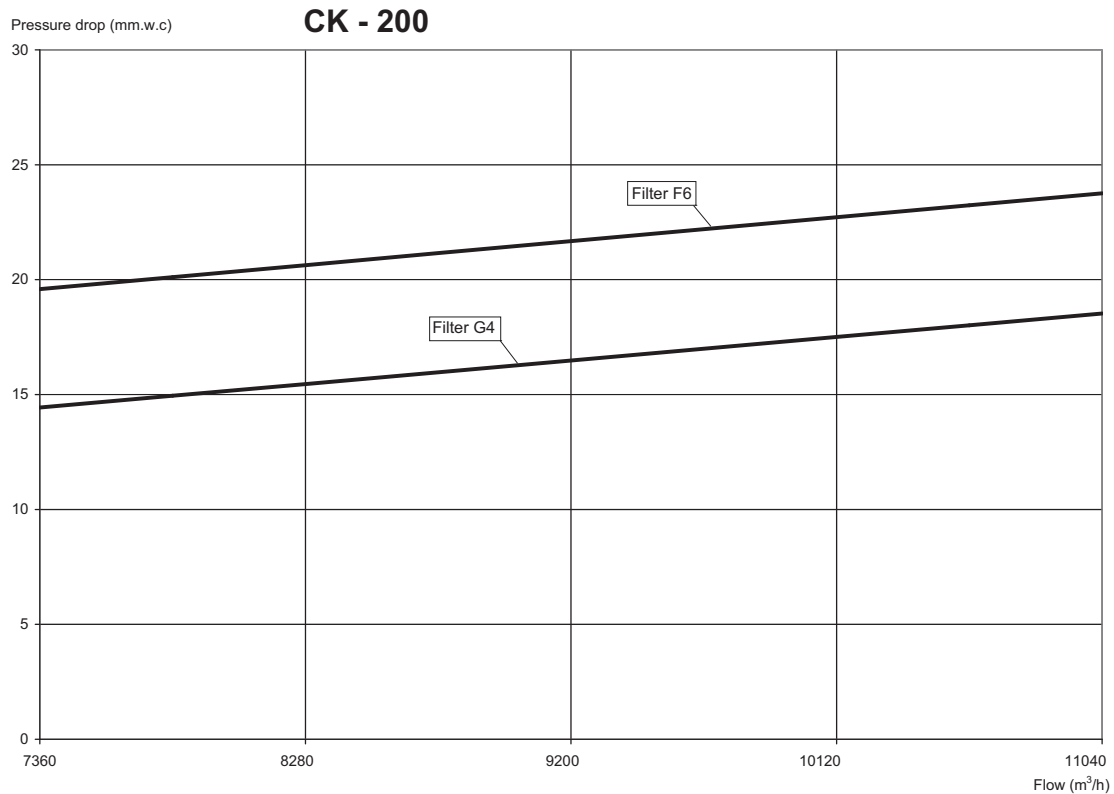
Note: pressure drops in the filters have been calculated for an average level of clogging.

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



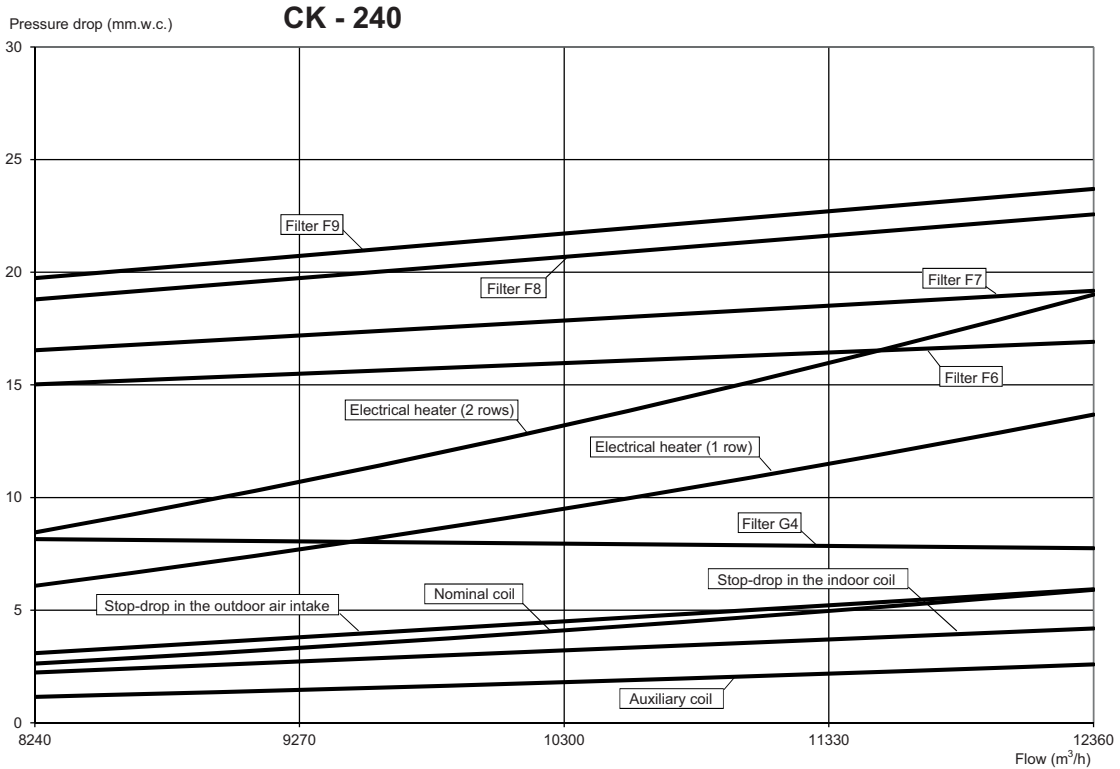
Note: pressure drops in the filters have been calculated for an average level of clogging.



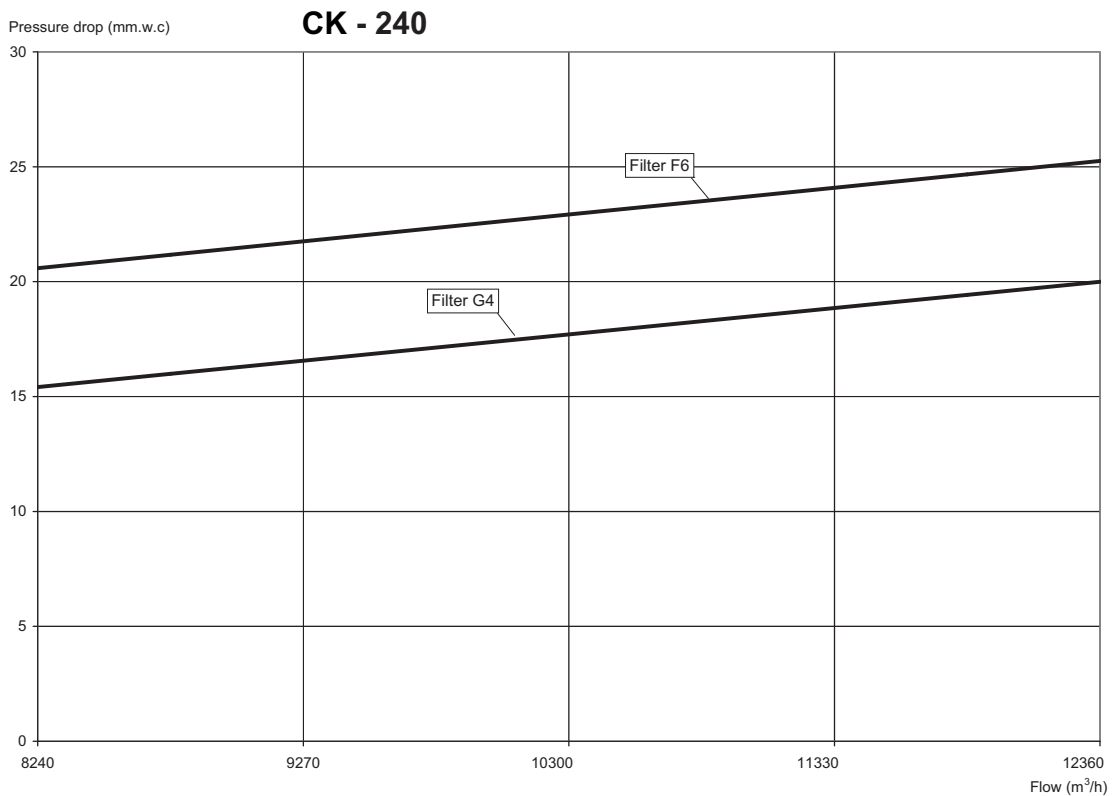
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops

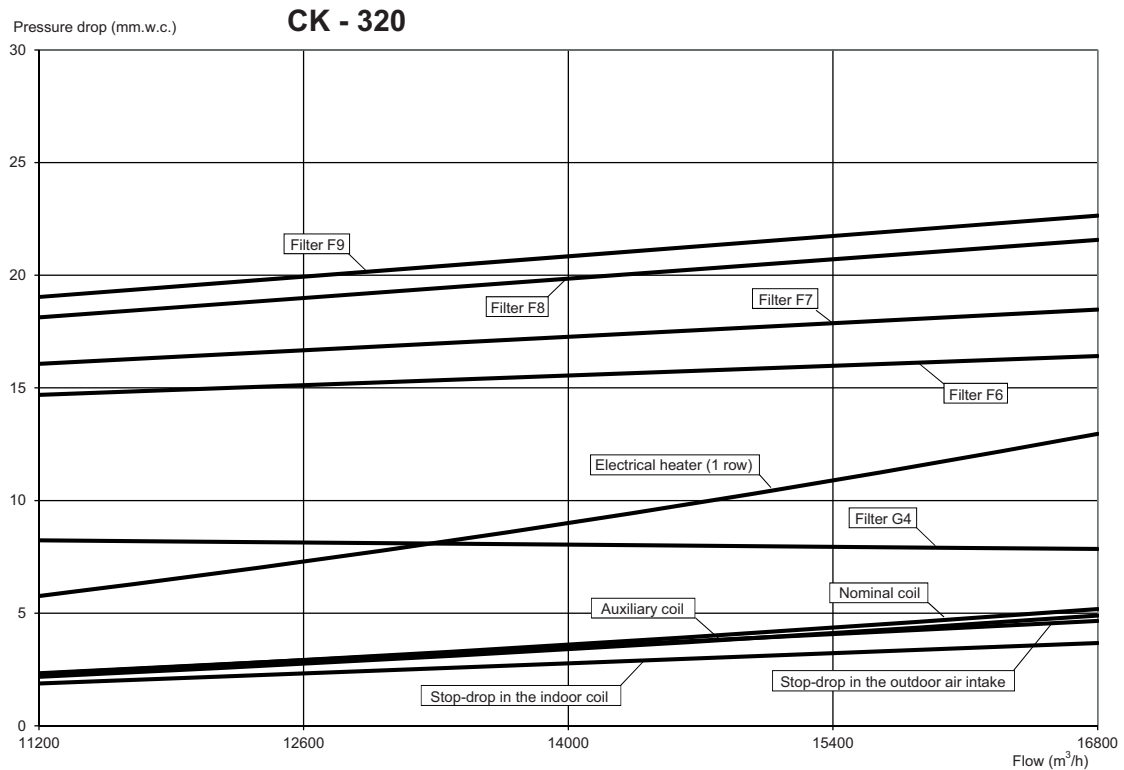


Note: pressure drops in the filters have been calculated for an average level of clogging.

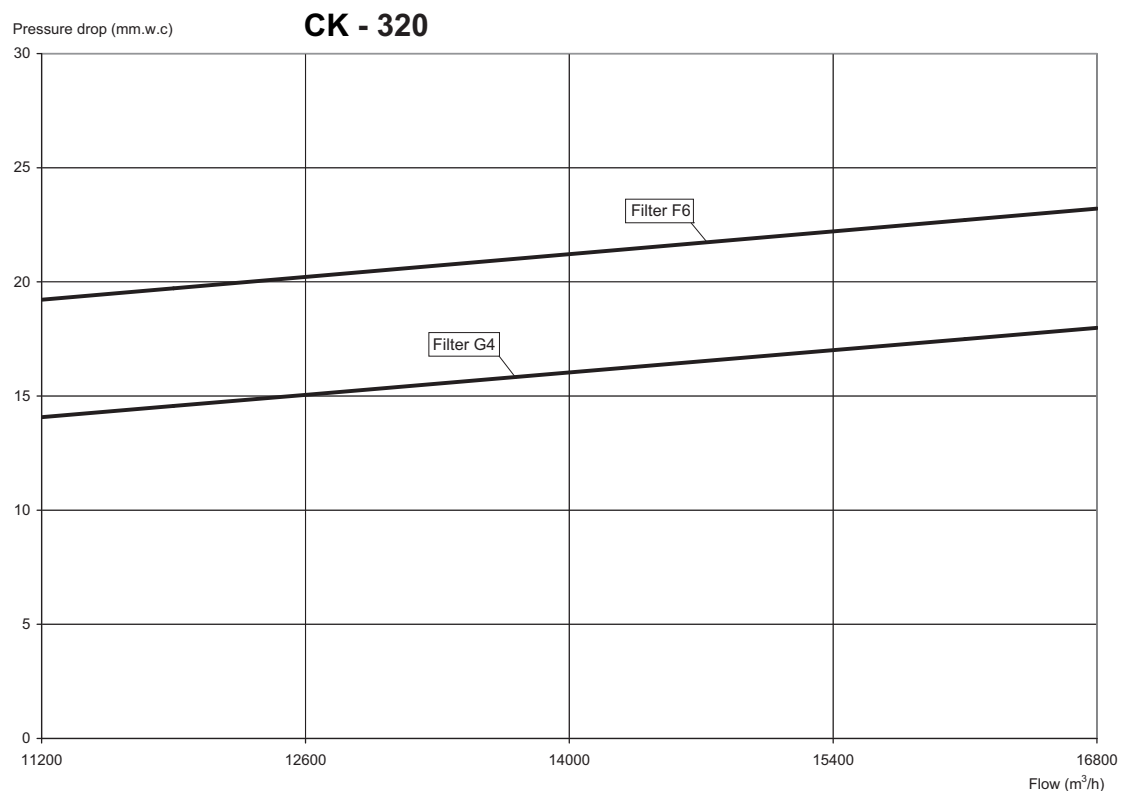


PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



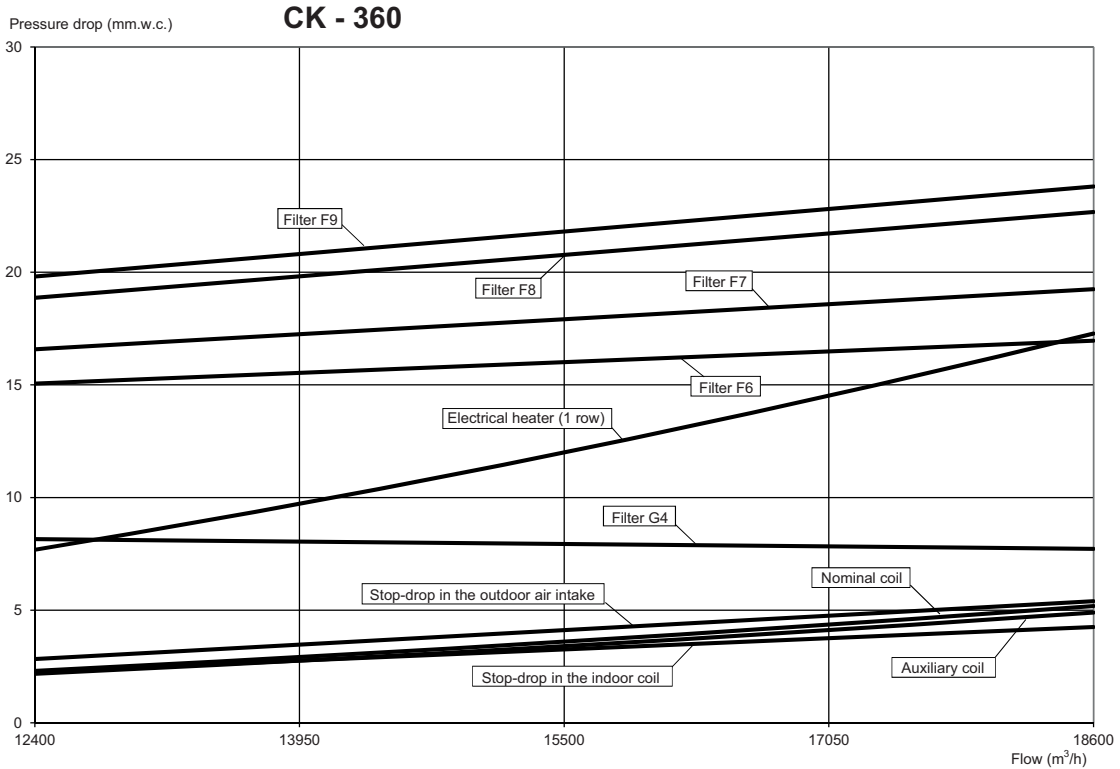
Note: pressure drops in the filters have been calculated for an average level of clogging.



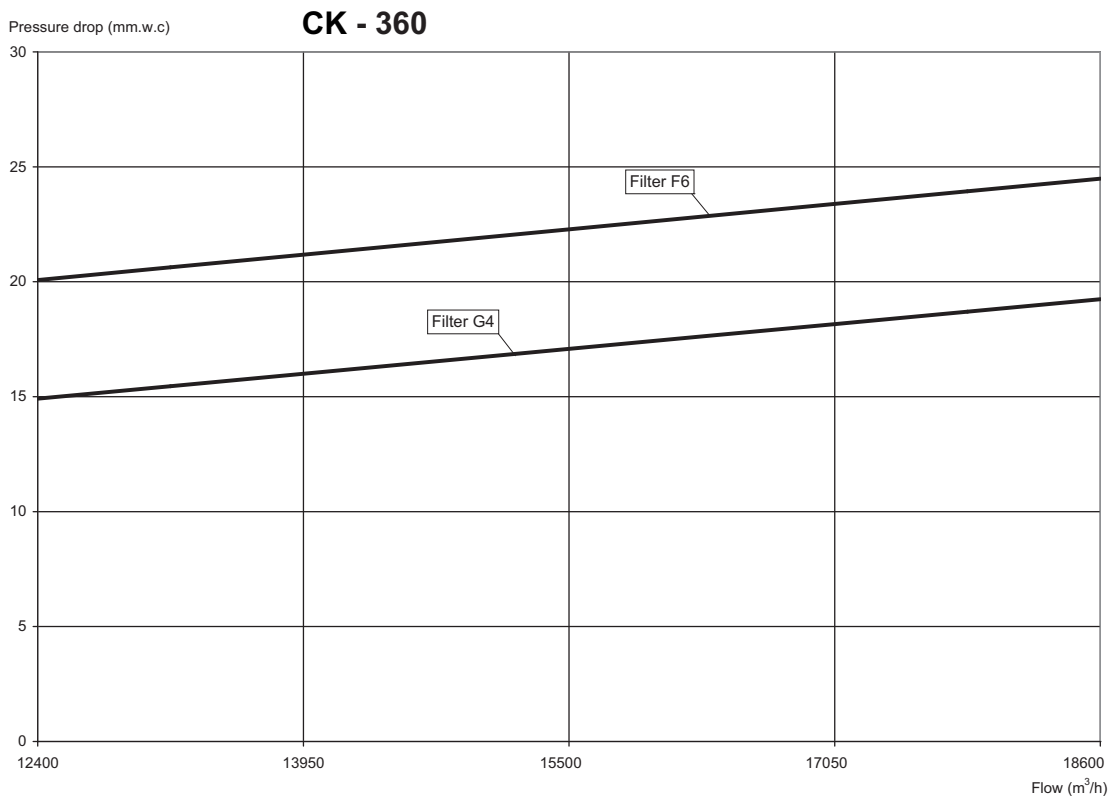
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops

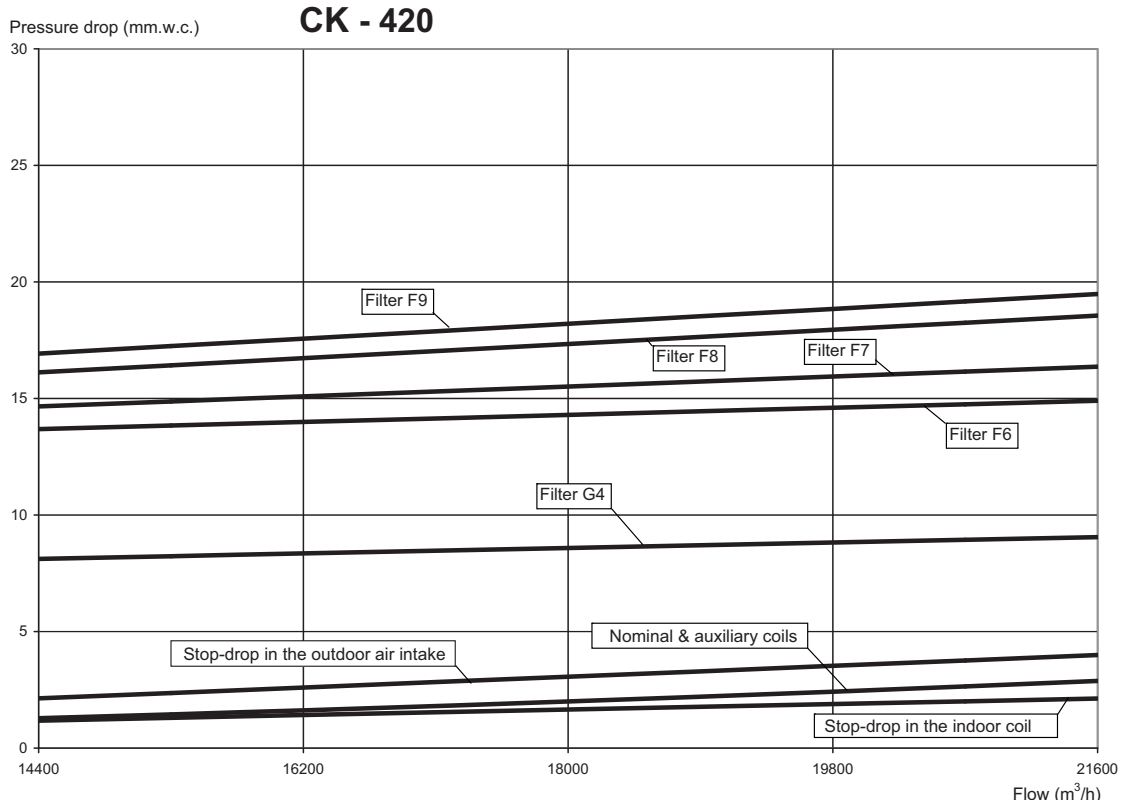


Note: pressure drops in the filters have been calculated for an average level of clogging.

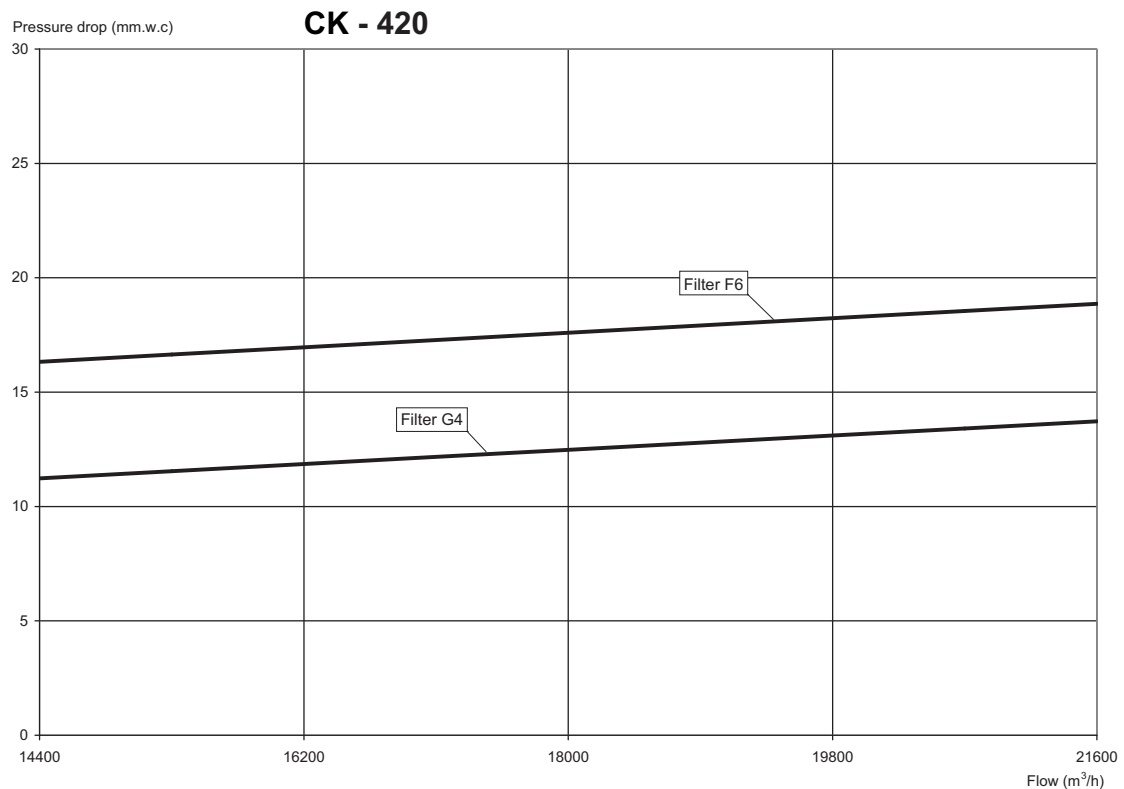


PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



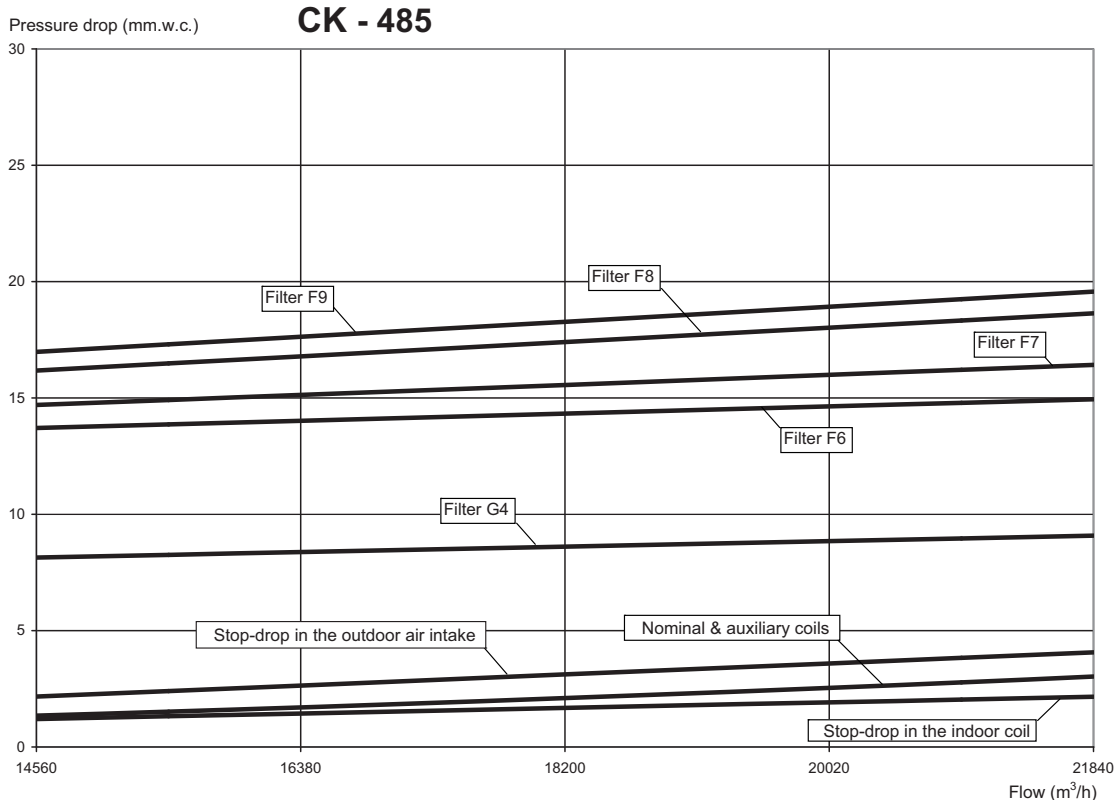
Note: pressure drops in the filters have been calculated for an average level of clogging.



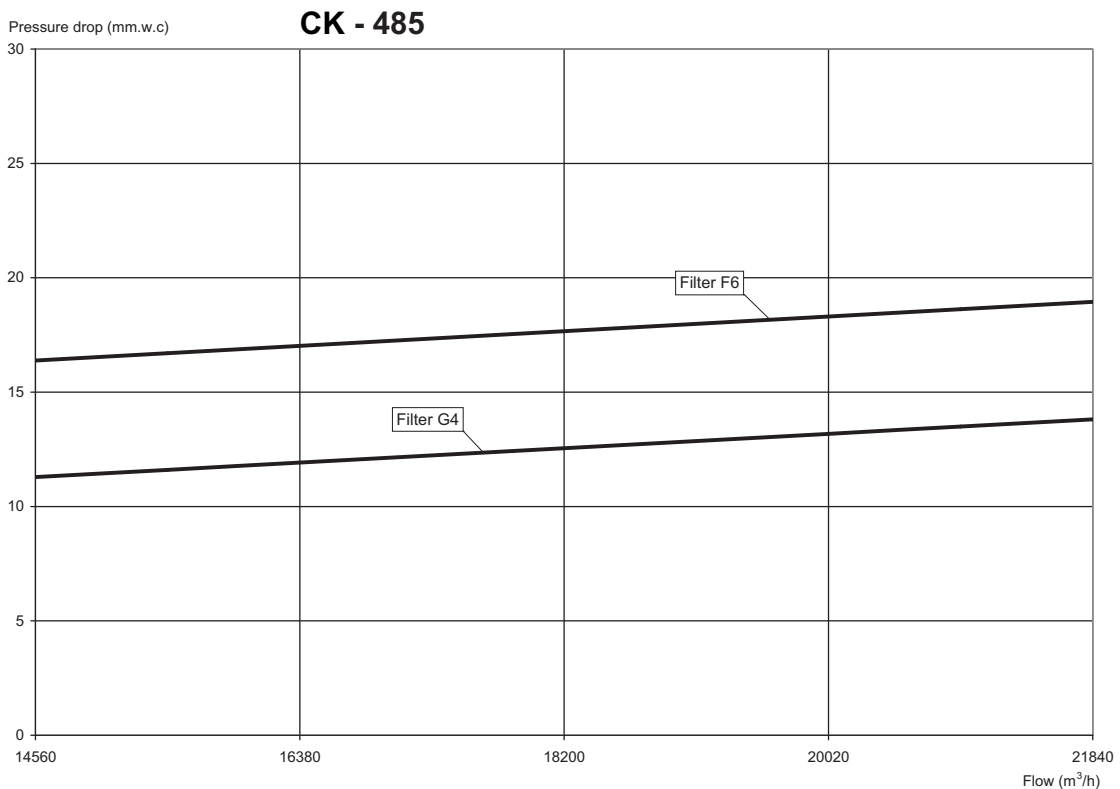
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



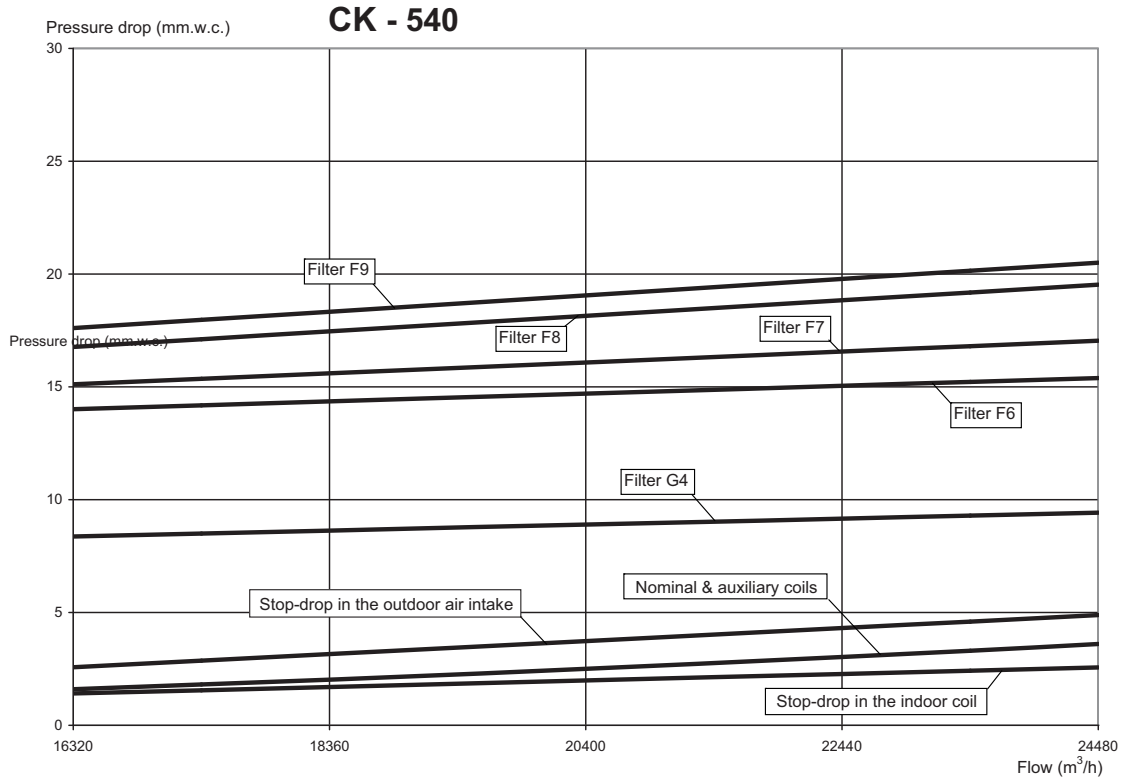
■ Return pressure drops



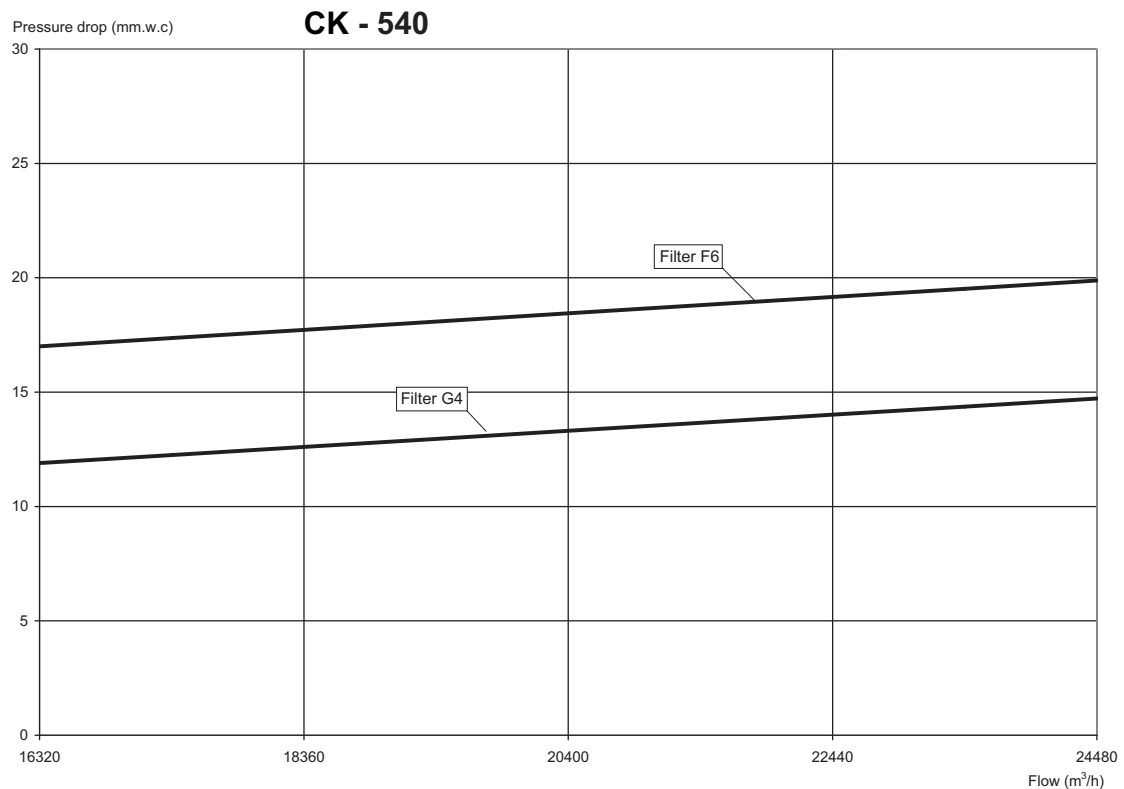
Note: pressure drops in the filters have been calculated for an average level of clogging.

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



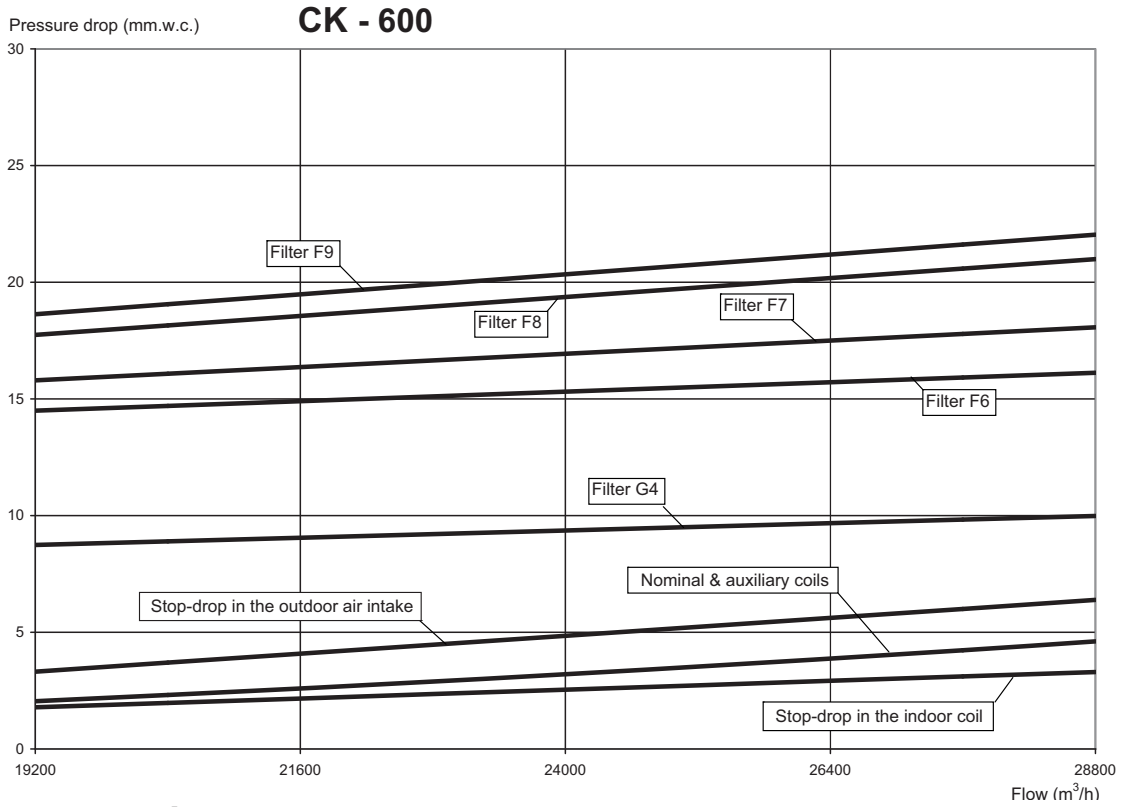
Note: pressure drops in the filters have been calculated for an average level of clogging.



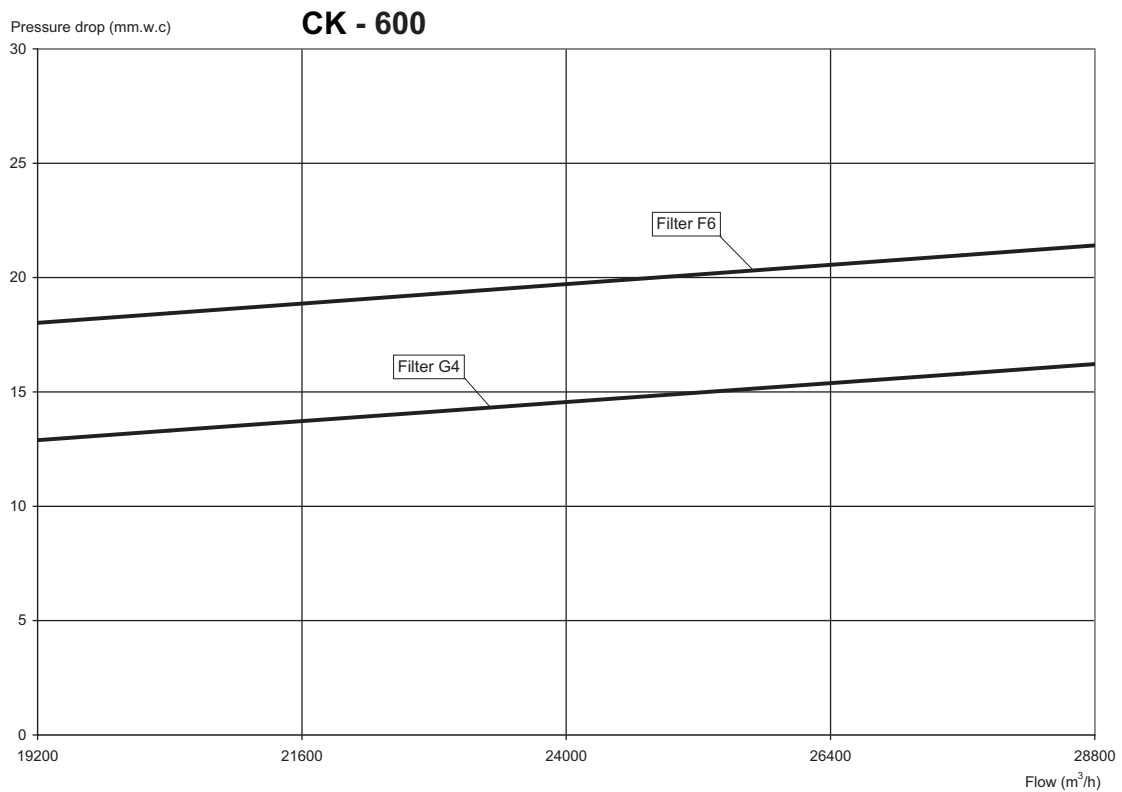
Split-system cooling units and heat pumps

PRESSURE DROPS IN THE AVAILABLE OPTIONS FOR THE INDOOR UNIT

■ Outlet pressure drops



■ Return pressure drops



Note: pressure drops in the filters have been calculated for an average level of clogging.



SUPPLY FAN OF THE INDOOR UNIT

■ Tables of selection of the ventilation group

CK - 90				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 3.200 m ³ /h				
7	0,37	0,29	744	OPK0001
15	0,55	0,37	886	OPK0003
20	0,55	0,44	986	OPK0002
25	0,75	0,50	1072	OPK0006
30	0,75	0,57	1155	OPK0005
40	1,1	0,71	1309	OPK0012
50	1,1	0,86	1452	OPK0011
60	1,5	1,01	1583	OPK0023
Flow: 3.600 m ³ /h				
7	0,55	0,39	804	OPK0004
15	0,75	0,48	933	OPK0007
20	0,75	0,55	1024	OPK0009
25	1,1	0,62	1104	OPK0014
30	1,1	0,69	1182	OPK0013
40	1,1	0,84	1328	OPK0012
50	1,1	1,00	1465	OPK0012
60	1,5	1,16	1593	OPK0023
Flow: 4.000 m ³ /h				
7	0,75	0,51	868	OPK0008
15	1,1	0,61	985	OPK0016
20	1,1	0,68	1069	OPK0015
25	1,1	0,76	1143	OPK0014
30	1,1	0,83	1215	OPK0013
40	1,5	0,99	1353	OPK0024
50	1,5	1,16	1484	OPK0024
60	2,2	1,33	1607	OPK0027
Flow: 4.400 m ³ /h				
7	1,1	0,65	933	OPK0016
15	1,1	0,76	1041	OPK0017
20	1,1	0,84	1118	OPK0014
25	1,5	0,92	1186	OPK0021
30	1,5	1,00	1254	OPK0020
40	1,5	1,17	1384	OPK0019
50	2,2	1,35	1508	OPK0032
60	2,2	1,53	1626	OPK0027
Flow: 4.800 m ³ /h				
7	1,1	0,83	1000	OPK0017
15	1,5	0,94	1099	OPK0022
20	1,5	1,03	1171	OPK0021
25	1,5	1,11	1234	OPK0020
30	1,5	1,20	1297	OPK0020
40	2,2	1,38	1419	OPK0028
50	2,2	1,56	1537	OPK0032
60	2,2	1,76	1650	OPK0033

CK - 100				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 3.680 m ³ /h				
7	0,55	0,40	800	OPK0004
15	0,75	0,49	927	OPK0010
20	0,75	0,56	1017	OPK0009
25	1,1	0,63	1096	OPK0015
30	1,1	0,70	1173	OPK0013
40	1,1	0,85	1319	OPK0012
50	1,5	1,01	1455	OPK0019
60	1,5	1,18	1583	OPK0023
Flow: 4.140 m ³ /h				
7	0,75	0,54	871	OPK0008
15	1,1	0,64	985	OPK0016
20	1,1	0,72	1067	OPK0015
25	1,1	0,79	1140	OPK0014
30	1,1	0,87	1210	OPK0013
40	1,5	1,03	1347	OPK0024
50	1,5	1,20	1476	OPK0024
60	2,2	1,38	1598	OPK0027
Flow: 4.600 m ³ /h				
7	1,1	0,72	945	OPK0016
15	1,1	0,83	1049	OPK0015
20	1,1	0,91	1123	OPK0014
25	1,5	0,99	1190	OPK0021
30	1,5	1,07	1255	OPK0020
40	1,5	1,24	1382	OPK0019
50	2,2	1,42	1504	OPK0032
60	2,2	1,61	1620	OPK0027
Flow: 5.060 m ³ /h				
7	1,5	0,93	1021	OPK0026
15	1,5	1,05	1116	OPK0025
20	1,5	1,14	1184	OPK0021
25	1,5	1,22	1245	OPK0020
30	2,2	1,31	1306	OPK0029
40	2,2	1,49	1424	OPK0028
50	2,2	1,68	1538	OPK0032
60	3	1,88	1649	OPK0034
Flow: 5.520 m ³ /h				
7	1,5	1,18	1098	OPK0022
15	2,2	1,31	1185	OPK0030
20	2,2	1,41	1248	OPK0029
25	2,2	1,50	1305	OPK0029
30	2,2	1,59	1361	OPK0031
40	2,2	1,78	1471	OPK0028
50	3	1,98	1579	OPK0035
60	3	2,19	1683	OPK0034

CK - 120				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 4.160 m ³ /h				
9	0,75	0,45	728	OPK0038
15	0,75	0,54	821	OPK0037
20	1,1	0,64	909	OPK0044
25	1,1	0,74	985	OPK0040
30	1,1	0,84	1057	OPK0039
40	1,5	1,05	1190	OPK0045
50	2,2	1,27	1312	OPK0058
60	2,2	1,50	1423	OPK0054
Flow: 4.680 m ³ /h				
9	0,75	0,60	782	OPK0037
15	1,1	0,70	866	OPK0041
20	1,1	0,80	948	OPK0040
25	1,1	0,91	1019	OPK0043
30	1,5	1,01	1087	OPK0046
40	1,5	1,23	1214	OPK0045
50	2,2	1,47	1332	OPK0058
60	2,2	1,71	1441	OPK0054
Flow: 5.200 m ³ /h				
9	1,1	0,77	839	OPK0041
15	1,1	0,88	916	OPK0044
20	1,5	1,00	991	OPK0051
25	1,5	1,11	1057	OPK0046
30	1,5	1,22	1121	OPK0050
40	2,2	1,46	1243	OPK0055
50	2,2	1,70	1356	OPK0058
60	3	1,97	1463	OPK0059
Flow: 5.720 m ³ /h				
9	1,5	0,99	899	OPK0048
15	1,5	1,10	969	OPK0047
20	1,5	1,23	1038	OPK0052
25	2,2	1,34	1100	OPK0057
30	2,2	1,46	1160	OPK0056
40	2,2	1,71	1275	OPK0055
50	3	1,98	1384	OPK0059
60	3	2,25	1487	OPK0059
Flow: 6.240 m ³ /h				
9	1,5	1,24	960	OPK0047
15	2,2	1,37	1025	OPK0053
20	2,2	1,50	1089	OPK0057
25	2,2	1,62	1146	OPK0057
30	2,2	1,75	1203	OPK0056
40	3	2,01	1311	OPK0060
50	3	2,29	1415	OPK0059
60	3	2,29	1415	OPK0059

Note: for other available pressures refer to the option of radial plug-fan (upon request).



Split-system cooling units and heat pumps

SUPPLY FAN OF THE INDOOR UNIT

■ Tables of selection of the ventilation group

CK - 160				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 5.600 m ³ /h				
9	0,75	0,55	605	OPK0061
15	1,1	0,67	682	OPK0064
20	1,1	0,81	756	OPK0063
25	1,5	0,93	819	OPK0067
30	1,5	1,06	878	OPK0069
40	2,2	1,34	989	OPK0070
50	2,2	1,63	1090	OPK0073
60	3	1,93	1182	OPK0078
Flow: 6.300 m ³ /h				
9	1,1	0,73	649	OPK0064
15	1,1	0,86	720	OPK0063
20	1,5	1,00	787	OPK0067
25	1,5	1,14	846	OPK0066
30	2,2	1,28	903	OPK0071
40	2,2	1,57	1009	OPK0070
50	3	1,88	1107	OPK0075
60	3	2,21	1198	OPK0074
Flow: 7.000 m ³ /h				
9	1,5	0,94	696	OPK0068
15	1,5	1,08	761	OPK0067
20	1,5	1,23	823	OPK0066
25	2,2	1,38	878	OPK0071
30	2,2	1,53	931	OPK0071
40	3	1,84	1032	OPK0076
50	3	2,17	1127	OPK0075
60	3	2,17	1127	OPK0075
Flow: 7.700 m ³ /h				
9	1,5	1,20	745	OPK0068
15	2,2	1,35	805	OPK0072
20	2,2	1,51	862	OPK0071
25	2,2	1,67	914	OPK0071
30	2,2	1,82	964	OPK0070
40	3	2,16	1059	OPK0075
50	4	2,51	1150	OPK0080
60	4	2,51	1150	OPK0080
Flow: 8.400 m ³ /h				
9	2,2	1,51	796	OPK0072
15	2,2	1,67	851	OPK0071
20	3	1,84	904	OPK0077
25	3	2,00	952	OPK0076
30	3	2,17	999	OPK0076
40	4	2,52	1090	OPK0081
50	4	2,89	1176	OPK0080
60	4	2,89	1176	OPK0080

CK - 180				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 5.600 m ³ /h				
9	0,75	0,55	605	OPK0061
15	1,1	0,67	682	OPK0064
20	1,1	0,81	756	OPK0063
25	1,5	0,93	819	OPK0067
30	1,5	1,06	878	OPK0069
40	2,2	1,34	989	OPK0070
50	2,2	1,63	1090	OPK0073
60	3	1,93	1182	OPK0078
Flow: 6.300 m ³ /h				
9	1,1	0,73	649	OPK0064
15	1,1	0,86	720	OPK0063
20	1,5	1,00	787	OPK0067
25	1,5	1,14	846	OPK0066
30	2,2	1,28	903	OPK0071
40	2,2	1,57	1009	OPK0070
50	3	1,88	1107	OPK0075
60	3	2,21	1198	OPK0074
Flow: 7.000 m ³ /h				
9	1,5	0,94	696	OPK0068
15	1,5	1,08	761	OPK0067
20	1,5	1,23	823	OPK0066
25	2,2	1,38	878	OPK0071
30	2,2	1,53	931	OPK0071
40	3	1,84	1032	OPK0076
50	3	2,17	1127	OPK0075
60	3	2,17	1127	OPK0075
Flow: 7.700 m ³ /h				
9	1,5	1,20	745	OPK0068
15	2,2	1,35	805	OPK0072
20	2,2	1,51	862	OPK0071
25	2,2	1,67	914	OPK0071
30	2,2	1,82	964	OPK0070
40	3	2,16	1059	OPK0075
50	4	2,51	1150	OPK0080
60	4	2,51	1150	OPK0080
Flow: 8.400 m ³ /h				
9	2,2	1,51	796	OPK0072
15	2,2	1,67	851	OPK0071
20	3	1,84	904	OPK0077
25	3	2,00	952	OPK0076
30	3	2,17	999	OPK0076
40	4	2,52	1090	OPK0081
50	4	2,89	1176	OPK0080
60	4	2,89	1176	OPK0080

CK - 182				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 6.400 m ³ /h				
8	2 x 0,37	2 x 0,29	745	2 x OPK0001
15	2 x 0,55	2 x 0,36	869	2 x OPK0003
20	2 x 0,55	2 x 0,43	970	2 x OPK0002
25	2 x 0,75	2 x 0,49	1057	2 x OPK0006
30	2 x 0,75	2 x 0,56	1140	2 x OPK0005
40	2 x 1,1	2 x 0,70	1296	2 x OPK0012
50	2 x 1,1	2 x 0,84	1439	2 x OPK0011
60	2 x 1,5	2 x 1,00	1572	2 x OPK0023
Flow: 7.200 m ³ /h				
8	2 x 0,55	2 x 0,38	801	2 x OPK0004
15	2 x 0,75	2 x 0,46	914	2 x OPK0010
20	2 x 0,75	2 x 0,53	1005	2 x OPK0009
25	2 x 1,1	2 x 0,60	1086	2 x OPK0015
30	2 x 1,1	2 x 0,67	1164	2 x OPK0013
40	2 x 1,1	2 x 0,82	1312	2 x OPK0012
50	2 x 1,5	2 x 0,98	1450	2 x OPK0019
60	2 x 1,5	2 x 1,14	1578	2 x OPK0023
Flow: 8.000 m ³ /h				
8	2 x 0,75	2 x 0,51	861	2 x OPK0008
15	2 x 0,75	2 x 0,59	963	2 x OPK0007
20	2 x 1,1	2 x 0,66	1047	2 x OPK0015
25	2 x 1,1	2 x 0,74	1122	2 x OPK0014
30	2 x 1,1	2 x 0,81	1194	2 x OPK0013
40	2 x 1,5	2 x 0,97	1334	2 x OPK0024
50	2 x 1,5	2 x 1,14	1465	2 x OPK0024
60	2 x 2,2	2 x 1,31	1590	2 x OPK0027
Flow: 8.800 m ³ /h				
8	2 x 1,1	2 x 0,64	923	2 x OPK0018
15	2 x 1,1	2 x 0,74	1016	2 x OPK0017
20	2 x 1,1	2 x 0,82	1094	2 x OPK0015
25	2 x 1,1	2 x 0,89	1163	2 x OPK0014
30	2 x 1,5	2 x 0,97	1230	2 x OPK0020
40	2 x 1,5	2 x 1,14	1362	2 x OPK0024
50	2 x 1,5	2 x 1,32	1487	2 x OPK0024
60	2 x 2,2	2 x 1,50	1606	2 x OPK0027
Flow: 9.600 m ³ /h				
8	2 x 1,1	2 x 0,81	986	2 x OPK0016
15	2 x 1,1	2 x 0,91	1072	2 x OPK0015
20	2 x 1,5	2 x 1,00	1144	2 x OPK0025
25	2 x 1,5	2 x 1,08	1208	2 x OPK0021
30	2 x 1,5	2 x 1,16	1271	2 x OPK0020
40	2 x 2,2	2 x 1,34	1395	2 x OPK0028
50	2 x 2,2	2 x 1,52	1513	2 x OPK0032
60	2 x 2,2	2 x 1,72	1627	2 x OPK0027

Note: for other available pressures refer to the option of radial plug-fan (upon request).



Split-system cooling units and heat pumps

AirDuo SK-CK

SUPPLY FAN OF THE INDOOR UNIT

■ Tables of selection of the ventilation group

CK - 200				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 7.360 m ³ /h				
7	2 x 0,55	2 x 0,40	802	2 x OPK0004
15	2 x 0,75	2 x 0,49	929	2 x OPK0010
20	2 x 0,75	2 x 0,56	1019	2 x OPK0009
25	2 x 1,1	2 x 0,63	1098	2 x OPK0015
30	2 x 1,1	2 x 0,70	1175	2 x OPK0013
40	2 x 1,1	2 x 0,85	1321	2 x OPK0012
50	2 x 1,5	2 x 1,01	1457	2 x OPK0019
60	2 x 1,5	2 x 1,18	1585	2 x OPK0023
Flow: 8.280 m ³ /h				
7	2 x 0,75	2 x 0,54	874	2 x OPK0008
15	2 x 1,1	2 x 0,64	988	2 x OPK0016
20	2 x 1,1	2 x 0,72	1069	2 x OPK0015
25	2 x 1,1	2 x 0,79	1142	2 x OPK0014
30	2 x 1,1	2 x 0,87	1213	2 x OPK0013
40	2 x 1,5	2 x 1,03	1349	2 x OPK0024
50	2 x 1,5	2 x 1,20	1478	2 x OPK0024
60	2 x 2,2	2 x 1,38	1600	2 x OPK0027
Flow: 9.200 m ³ /h				
7	2 x 1,1	2 x 0,72	948	2 x OPK0016
15	2 x 1,1	2 x 0,83	1051	2 x OPK0015
20	2 x 1,1	2 x 0,91	1126	2 x OPK0014
25	2 x 1,5	2 x 0,99	1192	2 x OPK0021
30	2 x 1,5	2 x 1,07	1257	2 x OPK0020
40	2 x 1,5	2 x 1,24	1384	2 x OPK0019
50	2 x 2,2	2 x 1,42	1506	2 x OPK0032
60	2 x 2,2	2 x 1,61	1622	2 x OPK0027
Flow: 10.120 m ³ /h				
7	2 x 1,5	2 x 0,93	1024	2 x OPK0026
15	2 x 1,5	2 x 1,05	1118	2 x OPK0025
20	2 x 1,5	2 x 1,14	1187	2 x OPK0021
25	2 x 1,5	2 x 1,22	1248	2 x OPK0020
30	2 x 2,2	2 x 1,31	1308	2 x OPK0029
40	2 x 2,2	2 x 1,49	1426	2 x OPK0028
50	2 x 2,2	2 x 1,68	1541	2 x OPK0032
60	2 x 3	2 x 1,88	1651	2 x OPK0034
Flow: 11.040 m ³ /h				
7	2 x 1,5	2 x 1,18	1101	2 x OPK0022
15	2 x 2,2	2 x 1,31	1188	2 x OPK0030
20	2 x 2,2	2 x 1,41	1251	2 x OPK0029
25	2 x 2,2	2 x 1,50	1308	2 x OPK0029
30	2 x 2,2	2 x 1,59	1364	2 x OPK0031
40	2 x 2,2	2 x 1,78	1474	2 x OPK0028
50	2 x 3	2 x 1,98	1582	2 x OPK0035
60	2 x 3	2 x 2,19	1686	2 x OPK0034

CK - 240				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 8.240 m ³ /h				
7	2 x 0,55	2 x 0,39	678	2 x OPK0036
15	2 x 0,75	2 x 0,52	808	2 x OPK0037
20	2 x 1,1	2 x 0,61	898	2 x OPK0044
25	2 x 1,1	2 x 0,71	975	2 x OPK0040
30	2 x 1,1	2 x 0,81	1048	2 x OPK0039
40	2 x 1,5	2 x 1,01	1182	2 x OPK0045
50	2 x 1,5	2 x 1,23	1304	2 x OPK0049
60	2 x 2,2	2 x 1,46	1416	2 x OPK0054
Flow: 9.270 m ³ /h				
7	2 x 0,75	2 x 0,52	733	2 x OPK0038
15	2 x 1,1	2 x 0,66	850	2 x OPK0041
20	2 x 1,1	2 x 0,76	933	2 x OPK0040
25	2 x 1,1	2 x 0,86	1005	2 x OPK0043
30	2 x 1,5	2 x 0,97	1074	2 x OPK0046
40	2 x 1,5	2 x 1,19	1204	2 x OPK0045
50	2 x 2,2	2 x 1,42	1323	2 x OPK0058
60	2 x 2,2	2 x 1,66	1433	2 x OPK0054
Flow: 10.300 m ³ /h				
7	2 x 1,1	2 x 0,69	790	2 x OPK0042
15	2 x 1,1	2 x 0,83	898	2 x OPK0044
20	2 x 1,5	2 x 0,94	974	2 x OPK0047
25	2 x 1,5	2 x 1,05	1041	2 x OPK0052
30	2 x 1,5	2 x 1,16	1106	2 x OPK0050
40	2 x 2,2	2 x 1,40	1230	2 x OPK0055
50	2 x 2,2	2 x 1,64	1344	2 x OPK0058
60	2 x 3	2 x 1,90	1452	2 x OPK0059
Flow: 11.330 m ³ /h				
7	2 x 1,1	2 x 0,88	850	2 x OPK0041
15	2 x 1,5	2 x 1,04	948	2 x OPK0047
20	2 x 1,5	2 x 1,16	1019	2 x OPK0051
25	2 x 2,2	2 x 1,27	1081	2 x OPK0057
30	2 x 2,2	2 x 1,39	1142	2 x OPK0057
40	2 x 2,2	2 x 1,64	1259	2 x OPK0055
50	2 x 3	2 x 1,90	1370	2 x OPK0059
60	2 x 3	2 x 2,17	1474	2 x OPK0059
Flow: 12.360 m ³ /h				
7	2 x 1,5	2 x 1,12	911	2 x OPK0048
15	2 x 2,2	2 x 1,28	1001	2 x OPK0053
20	2 x 2,2	2 x 1,41	1067	2 x OPK0057
25	2 x 2,2	2 x 1,53	1125	2 x OPK0057
30	2 x 2,2	2 x 1,65	1182	2 x OPK0056
40	2 x 3	2 x 1,92	1293	2 x OPK0060
50	2 x 3	2 x 2,19	1399	2 x OPK0059
60	2 x 3	2 x 2,47	1499	2 x OPK0059

Note: for other available pressures refer to the option of radial plug-fan (upon request).



Split-system cooling units and heat pumps

SUPPLY FAN OF THE INDOOR UNIT

■ Tables of selection of the ventilation group

CK - 320				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 11.200 m ³ /h				
10	2 x 0,75	2 x 0,53	591	2 x OPK0061
15	2 x 1,1	2 x 0,63	655	2 x OPK0064
20	2 x 1,1	2 x 0,76	730	2 x OPK0063
25	2 x 1,1	2 x 0,88	795	2 x OPK0062
30	2 x 1,5	2 x 1,01	856	2 x OPK0066
40	2 x 2,2	2 x 1,28	969	2 x OPK0070
50	2 x 2,2	2 x 1,57	1071	2 x OPK0073
60	2 x 3	2 x 1,87	1165	2 x OPK0078
Flow: 12.600 m ³ /h				
10	2 x 1,1	2 x 0,69	630	2 x OPK0065
15	2 x 1,1	2 x 0,80	689	2 x OPK0064
20	2 x 1,5	2 x 0,94	758	2 x OPK0067
25	2 x 1,5	2 x 1,07	818	2 x OPK0067
30	2 x 1,5	2 x 1,21	876	2 x OPK0069
40	2 x 2,2	2 x 1,50	984	2 x OPK0070
50	2 x 2,2	2 x 1,81	1084	2 x OPK0073
60	2 x 3	2 x 2,13	1176	2 x OPK0078
Flow: 14.000 m ³ /h				
10	2 x 1,1	2 x 0,89	672	2 x OPK0064
15	2 x 1,5	2 x 1,00	726	2 x OPK0068
20	2 x 1,5	2 x 1,15	789	2 x OPK0067
25	2 x 2,2	2 x 1,29	845	2 x OPK0071
30	2 x 2,2	2 x 1,44	900	2 x OPK0071
40	2 x 2,2	2 x 1,75	1003	2 x OPK0070
50	2 x 3	2 x 2,07	1099	2 x OPK0075
60	2 x 3	2 x 2,41	1189	2 x OPK0074
Flow: 15.400 m ³ /h				
10	2 x 1,5	2 x 1,13	717	2 x OPK0068
15	2 x 2,2	2 x 1,25	766	2 x OPK0072
20	2 x 2,2	2 x 1,41	824	2 x OPK0072
25	2 x 2,2	2 x 1,55	876	2 x OPK0071
30	2 x 2,2	2 x 1,71	927	2 x OPK0071
40	2 x 3	2 x 2,03	1025	2 x OPK0076
50	2 x 3	2 x 2,38	1117	2 x OPK0075
60	2 x 3	2 x 2,38	1117	2 x OPK0075
Flow: 16.800 m ³ /h				
10	2 x 2,2	2 x 1,41	763	2 x OPK0072
15	2 x 2,2	2 x 1,54	808	2 x OPK0072
20	2 x 2,2	2 x 1,70	862	2 x OPK0071
25	2 x 3	2 x 1,86	911	2 x OPK0077
30	2 x 3	2 x 2,02	958	2 x OPK0076
40	2 x 3	2 x 2,36	1051	2 x OPK0079
50	2 x 4	2 x 2,73	1139	2 x OPK0080
60	2 x 4	2 x 2,73	1139	2 x OPK0080

CK - 360				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 12.400 m ³ /h				
10	2 x 1,1	2 x 0,65	615	2 x OPK0065
15	2 x 1,1	2 x 0,76	675	2 x OPK0064
20	2 x 1,1	2 x 0,89	745	2 x OPK0063
25	2 x 1,5	2 x 1,02	806	2 x OPK0067
30	2 x 1,5	2 x 1,16	865	2 x OPK0066
40	2 x 2,2	2 x 1,45	974	2 x OPK0070
50	2 x 2,2	2 x 1,75	1075	2 x OPK0073
60	2 x 3	2 x 2,07	1168	2 x OPK0078
Flow: 13.950 m ³ /h				
10	2 x 1,1	2 x 0,86	660	2 x OPK0064
15	2 x 1,5	2 x 0,97	714	2 x OPK0068
20	2 x 1,5	2 x 1,12	778	2 x OPK0067
25	2 x 2,2	2 x 1,26	835	2 x OPK0072
30	2 x 2,2	2 x 1,40	889	2 x OPK0071
40	2 x 2,2	2 x 1,71	993	2 x OPK0070
50	2 x 3	2 x 2,03	1090	2 x OPK0075
60	2 x 3	2 x 2,37	1181	2 x OPK0078
Flow: 15.500 m ³ /h				
10	2 x 1,5	2 x 1,12	708	2 x OPK0068
15	2 x 1,5	2 x 1,24	757	2 x OPK0067
20	2 x 2,2	2 x 1,39	816	2 x OPK0072
25	2 x 2,2	2 x 1,54	868	2 x OPK0071
30	2 x 2,2	2 x 1,70	919	2 x OPK0071
40	2 x 3	2 x 2,02	1017	2 x OPK0076
50	2 x 3	2 x 2,36	1109	2 x OPK0075
60	2 x 4	2 x 2,72	1197	2 x OPK0080
Flow: 17.050 m ³ /h				
10	2 x 2,2	2 x 1,43	758	2 x OPK0072
15	2 x 2,2	2 x 1,56	803	2 x OPK0072
20	2 x 2,2	2 x 1,72	857	2 x OPK0071
25	2 x 3	2 x 1,88	905	2 x OPK0077
30	2 x 3	2 x 2,04	952	2 x OPK0076
40	2 x 3	2 x 2,38	1044	2 x OPK0079
50	2 x 4	2 x 2,74	1132	2 x OPK0080
60	2 x 4	2 x 2,74	1132	2 x OPK0080
Flow: 18.600 m ³ /h				
10	2 x 2,2	2 x 1,80	809	2 x OPK0072
15	2 x 3	2 x 1,94	851	2 x OPK0077
20	2 x 3	2 x 2,11	901	2 x OPK0077
25	2 x 3	2 x 2,28	945	2 x OPK0076
30	2 x 3	2 x 2,45	989	2 x OPK0076
40	2 x 4	2 x 2,80	1075	2 x OPK0081
50	2 x 4	2 x 3,18	1159	2 x OPK0080
60	2 x 4	2 x 3,18	1159	2 x OPK0080

Note: for other available pressures refer to the option of radial plug-fan (upon request).



Split-system cooling units and heat pumps

AirDuo SK-CK

SUPPLY FAN OF THE INDOOR UNIT

■ Tables of selection of the ventilation group

CK - 420				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 14.400 m ³ /h				
14	2,2	1,32	542	K1256
20	2,2	1,75	636	K1275
26	3	2,09	679	K1186
31	3	2,44	722	K1089
36	4	2,80	765	K1142
41	4	3,18	808	K1129
46	5,5	3,57	851	K1193
51	5,5	3,97	894	K1231
61	7,5	4,80	1021	K1532
Flow: 16.200 m ³ /h				
14	2,2	1,64	570	K1256
20	3	2,11	667	K1099
26	4	2,48	716	K1188
31	4	2,85	764	K1078
36	4	3,24	813	K1188
41	5,5	3,64	861	K1163
46	5,5	4,05	910	K1193
51	7,5	4,48	958	K1232
61	7,5	5,35	1021	K1532
71	7,5	6,27	1108	K1544
Flow: 18.000 m ³ /h				
14	3	2,02	562	K1258
20	4	2,52	677	K1096
26	4	2,91	718	K1188
31	4	3,32	771	K1103
36	5,5	3,73	818	K1223
41	5,5	4,16	864	K1163
46	5,5	4,60	911	K1302
51	7,5	5,05	958	K1232
61	7,5	6,00	1021	K1532
71	11	6,93	1108	K1541
82	11	7,92	1164	K1551
92	11	8,95	1237	K1735
Flow: 19.800 m ³ /h				
14	4	2,46	600	K1208
20	4	3,00	677	K1096
26	5,5	3,42	722	K1190
31	5,5	3,85	766	K1105
36	5,5	4,30	811	K1143
41	7,5	4,74	855	K1165
46	7,5	5,21	900	K1304
51	7,5	5,68	944	K1195
61	11	6,66	1043	K1531
71	11	7,67	1108	K1541
82	11	8,70	1237	K1735
92	15	9,78	1241	K1733
Flow: 21.600 m ³ /h				
14	4	2,99	643	K1279
20	5,5	3,57	715	K1190
26	5,5	4,01	752	K1098
31	5,5	4,47	790	K1216
36	7,5	4,94	827	K1225
41	7,5	5,41	864	K1145
46	7,5	5,90	902	K1165
51	11	6,40	939	K1233
61	11	7,43	1108	K1541
71	11	8,49	1168	K1551
82	15	9,58	1237	K1733
92	15	10,00	1237	K1733

CK - 485				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 14.560 m ³ /h				
11	2,2	1,33	542	K1256
20	3	1,92	672	K1186
26	3	2,27	720	K1099
31	4	2,62	767	K1114
36	4	2,99	815	K1162
41	4	3,38	863	K1129
46	5,5	3,77	910	K1302
51	5,5	4,18	958	K1334
61	7,5	5,02	1021	K1535
Flow: 16.400 m ³ /h				
11	2,2	1,70	570	K1256
20	3	2,33	672	K1099
26	4	2,70	720	K1188
31	4	3,09	767	K1078
36	5,5	3,49	815	K1132
41	5,5	3,90	863	K1163
46	5,5	4,32	910	K1193
51	7,5	4,75	958	K1232
61	7,5	5,64	1021	K1535
71	7,5	6,57	1108	K1544
Flow: 18.200 m ³ /h				
11	3	2,13	600	K1206
20	4	2,82	677	K1096
26	4	3,22	683	K1096
31	5,5	3,63	771	K1262
36	5,5	4,06	818	K1143
41	5,5	4,49	864	K1163
46	7,5	4,94	911	K1195
51	7,5	5,40	958	K1232
61	11	6,34	1043	K1535
71	11	7,32	1108	K1541
82	11	8,32	1237	K1735
92	11	9,37	1237	K1735
Flow: 20.000 m ³ /h				
11	4	2,64	641	K1208
20	4	3,38	674	K1096
26	5,5	3,80	721	K1190
31	5,5	4,25	769	K1105
36	7,5	4,70	816	K1165
41	7,5	5,18	863	K1165
46	7,5	5,64	911	K1304
51	7,5	6,12	958	K1232
61	11	7,12	1043	K1531
71	11	8,15	1168	K1551
82	11	9,20	1164	K1551
92	15	10,30	1247	K1733
Flow: 21.840 m ³ /h				
11	4	3,25	643	K1279
20	5,5	4,05	715	K1098
26	5,5	4,50	770	K1216
31	7,5	4,98	824	K1145
36	7,5	5,46	879	K1165
41	7,5	5,95	934	K1165
46	11	6,45	988	K1233
51	11	6,97	1043	K1233
61	11	8,02	1108	K1541
71	11	9,10	1168	K1551
82	15	10,20	1104	K1541
92	15	11,35	1241	K1733

Note: for other available pressures refer to the option of radial plug-fan (upon request).



Split-system cooling units and heat pumps

SUPPLY FAN OF THE INDOOR UNIT

■ Tables of selection of the ventilation group

CK - 540				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 16.320 m³/h				
13	2,2	1,49	542	K1256
20	3	2,01	634	K1277
26	3	2,37	677	K1099
31	4	2,75	721	K1103
36	5,5	3,13	764	K1223
41	5,5	3,53	807	K1163
46	5,5	3,94	851	K1302
51	5,5	4,36	894	K1174
61	7,5	5,32	993	K1333
71	7,5	6,15	1108	K1544
82	11	7,08	1164	K1551
92	--	--	--	--
Flow: 18.400 m³/h				
13	3	1,89	566	K1258
20	3	2,45	634	K1277
26	4	2,84	686	K1188
31	4	3,25	737	K1090
36	5,5	3,66	789	K1223
41	5,5	4,09	841	K1163
46	7,5	4,53	892	K1304
51	7,5	4,98	944	K1195
61	7,5	5,90	993	K1333
71	11	6,83	1108	K1541
82	11	7,86	1164	K1551
92	11	8,89	1237	K1735
Flow: 20.400 m³/h				
13	3	2,35	562	K1258
20	4	2,96	643	K1279
26	4	3,38	683	K1096
31	7,5	3,81	743	K1190
36	5,5	4,25	794	K1223
41	7,5	4,71	844	K1304
46	7,5	5,17	894	K1304
51	7,5	5,65	944	K1195
61	11	6,63	1043	K1531
71	11	7,65	1108	K1541
82	11	8,70	1164	K1551
92	15	9,78	1241	K1733
Flow: 22.500 m³/h				
13	4	2,93	569	K1260
20	5,5	3,58	638	K1271
26	5,5	4,03	688	K1190
31	5,5	4,49	738	K1105
36	7,5	4,96	789	K1225
41	7,5	5,45	839	K1165
46	7,5	5,94	889	K1304
51	11	6,45	939	K1233
61	11	7,49	1043	K1531
71	11	8,57	1108	K1541
82	15	9,67	1168	K1555
92	15	10,81	1241	K1733
Flow: 24.480 m³/h				
13	5,5	3,56	638	K1271
20	5,5	4,26	715	K1422
26	7,5	4,74	752	K1107
31	7,5	5,23	788	K1218
36	7,5	5,73	825	K1225
41	11	6,24	861	K1167
46	11	6,77	898	K1167
51	11	7,30	934	K1197
61	11	8,39	1043	K1531
71	15	9,53	1108	K1521
82	15	10,68	1168	K1555
92	15	11,88	1241	K1733

CK - 600				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 19.200 m³/h				
13	3	2,05	562	K1258
20	4	2,62	643	K1096
26	4	3,02	696	K1214
31	5,5	3,44	748	K1262
36	5,5	3,87	801	K1143
41	5,5	4,30	853	K1132
46	7,5	4,75	906	K1195
51	7,5	5,21	958	K1232
61	7,5	6,16	1005	K1333
71	11	6,70	1051	K1551
82	11	7,69	1164	K1556
92	11	8,73	1237	K1736
Flow: 21.600 m³/h				
13	4	2,19	606	K1206
20	5,5	2,78	683	K1098
26	5,5	3,20	729	K1190
31	5,5	3,63	775	K1105
36	7,5	4,08	821	K1145
41	7,5	4,54	866	K1165
46	7,5	5,01	912	K1195
51	7,5	5,49	958	K1236
61	11	6,48	1005	K1534
71	11	7,51	1051	K1542
82	11	8,57	1164	K1556
92	15	9,67	1241	K1734
Flow: 24.000 m³/h				
13	5,5	2,76	638	K1422
20	5,5	3,40	681	K1098
26	5,5	3,85	737	K1216
31	7,5	4,31	767	K1107
36	7,5	4,79	810	K1145
41	7,5	5,28	853	K1165
46	11	5,78	896	K1305
51	11	6,29	939	K1233
61	11	7,35	1039	K1534
71	11	8,44	1051	K1542
82	15	9,55	1168	K1565
92	15	10,71	1241	K1734
Flow: 26.400 m³/h				
13	5,5	3,43	622	K1201
20	7,5	4,12	681	K1463
26	7,5	4,60	724	K1218
31	11	5,09	767	K1107
36	7,5	5,60	810	K1145
41	11	6,12	853	K1167
46	11	6,65	896	K1305
51	11	7,19	939	K1237
61	11	8,31	1024	K1534
71	15	9,47	1108	K1521
82	15	10,64	1168	K1565
92	15	11,87	1241	K1734
Flow: 28.800 m³/h				
13	7,5	4,23	681	K1424
20	7,5	4,97	715	K1463
26	11	5,48	751	K1601
31	11	6,00	787	K1108
36	11	6,54	823	K1146
41	11	7,09	859	K1167
46	11	7,65	895	K1305
51	11	8,23	931	K1199
61	15	9,40	1040	K1513
71	15	10,62	1148	K1521
82	18,5	11,86	1241	K1732
92	18,5	13,14	1241	K1732

Note: for other available pressures refer to the option of radial plug-fan (upon request).



RETURN FAN OF THE INDOOR UNIT (OPTIONAL)

■ Tables of selection of the ventilation group

CK - 90				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 3.200 m ³ /h				
6	---	---	---	---
15	0,55	0,30	770	OPK0083
20	0,55	0,36	874	OPK0003
25	0,55	0,42	966	OPK0002
30	0,75	0,49	1053	OPK0006
40	1,1	0,62	1216	OPK0013
50	1,1	0,77	1366	OPK0012
60	1,5	0,92	1503	OPK0088
Flow: 3.600 m ³ /h				
6	0,37	0,29	639	OPK0082
15	0,55	0,38	799	OPK0004
20	0,75	0,45	894	OPK0010
25	0,75	0,51	978	OPK0007
30	0,75	0,58	1060	OPK0006
40	1,1	0,72	1215	OPK0013
50	1,1	0,87	1359	OPK0012
60	---	---	---	---
Flow: 4.000 m ³ /h				
6	0,55	0,38	689	OPK0084
15	0,75	0,48	834	OPK0008
20	0,75	0,55	921	OPK0010
25	1,1	0,62	999	OPK0017
30	1,1	0,69	1074	OPK0015
40	1,1	0,84	1220	OPK0013
50	1,5	1,00	1358	OPK0024
60	---	---	---	---
Flow: 4.400 m ³ /h				
6	0,75	0,48	739	OPK0085
15	0,75	0,60	873	OPK0008
20	1,1	0,67	953	OPK0016
25	1,1	0,74	1024	OPK0017
30	1,1	0,82	1095	OPK0015
40	1,5	0,97	1231	OPK0020
50	1,5	1,14	1363	OPK0024
60	---	---	---	---
Flow: 4.800 m ³ /h				
6	1,1	0,61	792	OPK0086
15	1,1	0,74	915	OPK0018
20	1,1	0,82	989	OPK0017
25	1,1	0,89	1055	OPK0015
30	1,5	0,97	1121	OPK0025
40	1,5	1,13	1249	OPK0020
50	2,2	1,31	1373	OPK0031
60	---	---	---	---

CK - 100				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 3.680 m ³ /h				
6	0,55	0,30	640	OPK0084
15	0,55	0,40	797	OPK0004
20	0,75	0,46	891	OPK0010
25	0,75	0,53	974	OPK0007
30	0,75	0,59	1054	OPK0006
40	1,1	0,74	1208	OPK0013
50	1,1	0,89	1352	OPK0012
60	---	---	---	---
Flow: 4.140 m ³ /h				
6	0,55	0,40	695	OPK0084
15	0,75	0,51	837	OPK0008
20	0,75	0,58	921	OPK0010
25	1,1	0,65	997	OPK0017
30	1,1	0,72	1071	OPK0015
40	1,1	0,87	1214	OPK0013
50	1,5	1,03	1350	OPK0024
60	---	---	---	---
Flow: 4.600 m ³ /h				
6	0,75	0,54	754	OPK0085
15	1,1	0,65	882	OPK0018
20	1,1	0,73	959	OPK0016
25	1,1	0,80	1028	OPK0017
30	1,1	0,88	1096	OPK0015
40	1,5	1,04	1229	OPK0020
50	1,5	1,21	1357	OPK0024
60	---	---	---	---
Flow: 5.060 m ³ /h				
6	1,1	0,70	813	OPK0086
15	1,1	0,82	931	OPK0018
20	1,1	0,91	1002	OPK0017
25	1,5	0,98	1065	OPK0022
30	1,5	1,06	1128	OPK0025
40	1,5	1,23	1251	OPK0020
50	2,2	1,41	1371	OPK0031
60	---	---	---	---
Flow: 5.520 m ³ /h				
6	1,5	0,92	1503	OPK0088
15	1,5	1,02	983	OPK0087
20	1,5	1,11	1048	OPK0022
25	1,5	1,19	1107	OPK0025
30	2,2	1,28	1165	OPK0030
40	2,2	1,46	1280	OPK0029
50	2,2	1,64	1392	OPK0028
60	3	1,84	1501	OPK0089

CK - 120				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 4.160 m ³ /h				
7	0,37	0,27	514	OPK0090
15	0,55	0,38	645	OPK0036
20	0,75	0,46	742	OPK0038
25	0,75	0,55	826	OPK0037
30	1,1	0,64	906	OPK0044
40	1,1	0,83	1054	OPK0039
50	1,5	1,04	1188	OPK0045
60	2,2	1,26	1309	OPK0055
Flow: 4.680 m ³ /h				
7	0,55	0,36	547	OPK0091
15	0,75	0,47	664	OPK0092
20	0,75	0,56	752	OPK0038
25	1,1	0,65	829	OPK0041
30	1,1	0,75	905	OPK0044
40	1,5	0,95	1047	OPK0046
50	1,5	1,17	1178	OPK0045
60	2,2	1,40	1299	OPK0055
Flow: 5.200 m ³ /h				
7	0,75	0,47	583	OPK0093
15	0,75	0,58	689	OPK0092
20	1,1	0,68	769	OPK0094
25	1,1	0,77	840	OPK0041
30	1,1	0,87	910	OPK0044
40	1,5	1,08	1045	OPK0046
50	2,2	1,31	1171	OPK0056
60	2,2	1,56	1290	OPK0055
Flow: 5.720 m ³ /h				
7	0,75	0,59	621	OPK0093
15	1,1	0,72	718	OPK0094
20	1,1	0,82	790	OPK0042
25	1,5	0,92	856	OPK0096
30	1,5	1,02	920	OPK0048
40	1,5	1,24	1047	OPK0046
50	2,2	1,48	1168	OPK0056
60	2,2	1,73	1283	OPK0055
Flow: 6.240 m ³ /h				
7	1,1	0,74	660	OPK0095
15	1,1	0,88	750	OPK0094
20	1,5	0,99	817	OPK0097
25	1,5	1,09	877	OPK0048
30	1,5	1,20	937	OPK0047
40	2,2	1,43	1055	OPK0098
50	2,2	1,67	1169	OPK0056
60	3	1,93	1280	OPK0060



Split-system cooling units and heat pumps

RETURN FAN OF THE INDOOR UNIT (OPTIONAL)

■ Tables of selection of the ventilation group

CK - 160				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 5.600 m ³ /h				
7	0,55	0,32	430	OPK0104
15	0,75	0,46	542	OPK0099
20	0,75	0,58	622	OPK0061
25	1,1	0,69	692	OPK0064
30	1,1	0,81	759	OPK0063
40	1,5	1,07	881	OPK0069
50	2,2	1,35	992	OPK0070
60	2,2	1,64	1092	OPK0073
Flow: 6.300 m ³ /h				
7	0,55	0,45	455	OPK0105
15	0,75	0,58	558	OPK0099
20	1,1	0,70	631	OPK0064
25	1,1	0,81	696	OPK0064
30	1,5	0,94	759	OPK0067
40	1,5	1,21	876	OPK0069
50	2,2	1,50	985	OPK0070
60	2,2	1,81	1084	OPK0073
Flow: 7.000 m ³ /h				
7	0,75	0,55	486	OPK0102
15	1,1	0,72	578	OPK0065
20	1,1	0,84	645	OPK0064
25	1,5	0,96	705	OPK0068
30	1,5	1,09	764	OPK0067
40	2,2	1,37	876	OPK0071
50	2,2	1,68	980	OPK0070
60	3	2,00	1078	OPK0075
Flow: 7.700 m ³ /h				
7	1,1	0,72	516	OPK0100
15	1,1	0,88	601	OPK0065
20	1,5	1,01	663	OPK0101
25	1,5	1,14	719	OPK0068
30	2,2	1,27	773	OPK0072
40	2,2	1,56	878	OPK0071
50	3	1,87	979	OPK0076
60	3	2,21	1074	OPK0075
Flow: 8.400 m ³ /h				
7	1,1	0,90	548	OPK0100
15	1,5	1,07	627	OPK0101
20	1,5	1,21	685	OPK0068
25	2,2	1,34	736	OPK0103
30	2,2	1,48	787	OPK0072
40	2,2	1,78	886	OPK0071
50	3	2,10	981	OPK0076
60	3	2,45	1072	OPK0075

CK - 180				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 5.600 m ³ /h				
7	0,55	0,32	430	OPK0104
15	0,75	0,46	542	OPK0099
20	0,75	0,58	622	OPK0061
25	1,1	0,69	692	OPK0064
30	1,1	0,81	759	OPK0063
40	1,5	1,07	881	OPK0069
50	2,2	1,35	992	OPK0070
60	2,2	1,64	1092	OPK0073
Flow: 6.300 m ³ /h				
7	0,55	0,45	455	OPK0105
15	0,75	0,58	558	OPK0099
20	1,1	0,70	631	OPK0064
25	1,1	0,81	696	OPK0064
30	1,5	0,94	759	OPK0067
40	1,5	1,21	876	OPK0069
50	2,2	1,50	985	OPK0070
60	2,2	1,81	1084	OPK0073
Flow: 7.000 m ³ /h				
7	0,75	0,55	486	OPK0102
15	1,1	0,72	578	OPK0065
20	1,1	0,84	645	OPK0064
25	1,5	0,96	705	OPK0068
30	1,5	1,09	764	OPK0067
40	2,2	1,37	876	OPK0071
50	2,2	1,68	980	OPK0070
60	3	2,00	1078	OPK0075
Flow: 7.700 m ³ /h				
7	1,1	0,72	516	OPK0100
15	1,1	0,88	601	OPK0065
20	1,5	1,01	663	OPK0101
25	1,5	1,14	719	OPK0068
30	2,2	1,27	773	OPK0072
40	2,2	1,56	878	OPK0071
50	3	1,87	979	OPK0076
60	3	2,21	1074	OPK0075
Flow: 8.400 m ³ /h				
7	1,1	0,90	548	OPK0100
15	1,5	1,07	627	OPK0101
20	1,5	1,21	685	OPK0068
25	2,2	1,34	736	OPK0103
30	2,2	1,48	787	OPK0072
40	2,2	1,78	886	OPK0071
50	3	2,10	981	OPK0076
60	3	2,45	1072	OPK0075

CK - 420				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 14.400 m ³ /h				
8	1,5	1,15	428	K3372
15	2,2	1,51	509	K3342
20	2,2	1,78	561	K3255
26	3	2,05	613	K3205
31	3	2,33	665	K3094
36	4	2,63	717	K3187
41	4	2,93	769	K3102
Flow: 16.200 m ³ /h				
8	1,5	1,15	428	K3372
15	2,2	1,51	509	K3342
20	2,2	1,78	561	K3255
26	3	2,05	613	K3205
31	3	2,33	665	K3094
36	4	2,63	717	K3187
41	4	2,93	769	K3102
Flow: 18.000 m ³ /h				
8	3	2,00	503	K3374
15	3	2,42	566	K3257
20	4	2,73	602	K3259
26	4	3,05	638	K3278
31	4	3,37	674	K3095
36	5,5	3,71	710	K3189
41	5,5	4,06	746	K3104
Flow: 19.800 m ³ /h				
8	4	2,57	510	K3623
15	4	3,02	574	K3259
20	4	3,35	611	K3207
26	5,5	3,68	648	K3280
31	5,5	4,04	686	K3097
36	5,5	4,40	723	K3189
41	7,5	4,76	760	K3602
Flow: 21.600 m ³ /h				
8	4	3,23	569	K3259
15	5,5	3,72	572	K3261
20	5,5	4,07	613	K3351
26	5,5	4,43	654	K3421
31	7,5	4,80	695	K3217
36	7,5	5,18	736	K3217
41	7,5	5,57	777	K3106



RETURN FAN OF THE INDOOR UNIT (OPTIONAL)

■ Tables of selection of the ventilation group

CK - 485				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 14.560 m ³ /h				
7	1,5	1,18	474	K3372
15	2,2	1,57	542	K3255
20	3	1,84	594	K3257
26	3	2,12	646	K3276
31	3	2,40	697	K3185
36	4	2,70	749	K3102
41	4	3,00	801	K3221
Flow: 16.400 m ³ /h				
6,9	2,2	1,57	458	K3373
15,3	3	2,02	566	K3257
20,4	3	2,30	602	K3205
25,5	4	2,60	638	K3278
30,6	4	2,92	674	K3095
35,7	4	3,24	710	K3086
40,8	5,5	3,56	746	K3104
Flow: 18.200 m ³ /h				
7	3	2,05	503	K3374
15	3	2,54	569	K3257
20	4	2,85	616	K3207
26	4	3,17	664	K3361
31	5,5	3,50	711	K3097
36	5,5	3,84	759	K3215
41	5,5	4,19	806	K3104
Flow: 20.000 m ³ /h				
7	4	2,64	510	K3623
15	4	3,16	569	K3259
20	5,5	3,49	617	K3210
26	5,5	3,84	665	K3097
31	5,5	4,19	714	K3189
36	5,5	4,55	762	K3104
41	7,5	4,93	810	K3224
Flow: 21.840 m ³ /h				
7	4	3,35	572	K3259
15	5,5	3,91	645	K3351
20	5,5	4,27	678	K3362
26	5,5	4,63	711	K3097
31	7,5	5,00	744	K3217
36	7,5	5,39	777	K3106
41	7,5	5,79	810	K3224

CK - 540				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 16.320 m ³ /h				
7	2,2	1,50	458	K3373
15	3	1,95	505	K3622
20	3	2,24	553	K3257
26	3	2,53	601	K3276
31	4	2,84	650	K3095
36	4	3,15	698	K3187
41	5,5	3,48	746	K3104
Flow: 18.400 m ³ /h				
7	2,2	1,50	458	K3373
15	3	1,95	505	K3622
20	3	2,24	553	K3257
26	3	2,53	601	K3276
31	4	2,84	650	K3095
36	4	3,15	698	K3187
41	5,5	3,48	746	K3104
Flow: 20.400 m ³ /h				
7	4	2,69	520	K3623
15	4	3,23	606	K3207
20	5,5	3,57	644	K3421
26	5,5	3,91	681	K3097
31	5,5	4,27	719	K3189
36	5,5	4,63	756	K3104
41	7,5	5,00	794	K3241
Flow: 22.500 m ³ /h				
7	5,5	3,51	572	K3261
15	5,5	4,10	645	K3210
20	5,5	4,46	678	K3280
26	7,5	4,83	712	K3462
31	7,5	5,21	745	K3217
36	7,5	5,60	779	K3103
41	7,5	6,00	812	K3602
Flow: 24.480 m ³ /h				
7	5,5	4,43	572	K3261
15	7,5	5,07	650	K3423
20	7,5	5,45	685	K3462
26	7,5	5,84	720	K3217
31	7,5	6,25	755	K3217
36	--	--	--	--
41	--	--	--	--

CK - 600				
Available pressure (mm.w.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Flow: 19.200 m ³ /h				
8	2,2	1,64	458	K3373
15	3	2,13	538	K3257
20	3	2,49	592	K3257
26	4	2,86	645	K3278
31	4	3,25	699	K3187
36	5,5	3,65	752	K3104
41	5,5	4,07	806	K3222
Flow: 21.600 m ³ /h				
8	3	2,18	480	K3374
15	4	2,72	569	K3259
20	4	3,10	611	K3207
26	5,5	3,51	652	K3280
31	5,5	3,92	694	K3189
36	5,5	4,36	735	K3215
41	7,5	4,80	777	K3106
Flow: 24.000 m ³ /h				
8	4	2,85	510	K3344
15	5,5	3,44	572	K3261
20	5,5	3,86	619	K3421
26	5,5	4,29	667	K3097
31	7,5	4,74	714	K3217
36	7,5	5,20	762	K3106
41	7,5	5,67	809	K3224
Flow: 26.400 m ³ /h				
8	5,5	3,66	515	K3346
15	5,5	4,29	572	K3261
20	7,5	4,74	620	K3423
26	7,5	5,20	668	K3462
31	7,5	5,68	716	K3217
36	7,5	6,17	764	K3106
41	--	--	--	--
Flow: 28.800 m ³ /h				
8	7,5	4,60	550	K3353
15	7,5	5,28	580	K3353
20	7,5	5,77	627	K3363
26	7,5	6,27	674	K3217
31	--	--	--	--
36	--	--	--	--
41	--	--	--	--

