



Compact water-air rooftop units



Cooling capacity: 106,8 to 183,1 kW
Heating capacity: 121,8 to 226,6 kW

- Scroll compressors
- R-410A refrigerant
- Configuration flexibility
- Silent operation
- Plug-fan with EC HEE motor (optional)

DESCRIPTION

The **Space Aqua XF** cooling units and heat pumps are autonomous water-air units with a compact monoblock, horizontal rooftop design.

They are equipped with centrifugal fans, plates exchangers, air coils, hermetic scroll compressors and electronic control with microprocessor, components optimised for the R-410A refrigerant.

These units have been designed for the air conditioning of large surface areas used for business or industry. They are quick to install and operate reliably. A vast number of options meet numerous operating demands.

All units are charged with refrigerant and are tested at the factory, verifying the correct operation of all their components.

RANGE

- Series RXF - IXF: 2 cooling circuits, 2 compressors, 6 models: 415 / 420 / 480 / 485 / 540 / 600
- Series RXF - IXF: 2 cooling circuits, 4 compressors, 2 models: 650 / 720

SERIES

Space Aqua RXF Series

Autonomous water-air **cooling** units with a compact horizontal rooftop construction.

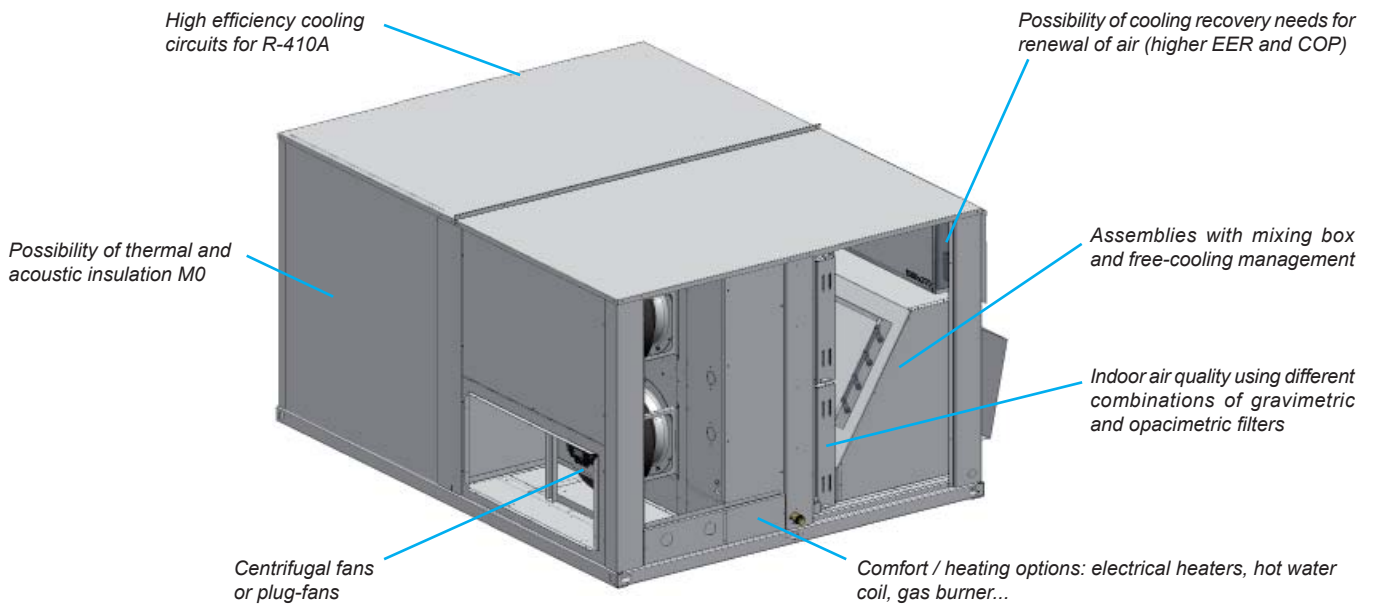
Space Aqua IXF Series

Autonomous reversible water-air **heat pump** units with a compact horizontal rooftop construction.

OPERATION LIMITS

Conditions		Cooling	Heating
Air inlet	Minimum	14°C WB	10°C
	Maximum	22°C WB	27°C
Water	Minimum	5°C ①	5°C ②
	Maximum	55°C ①	35°C ②

- ① Temperature of outlet water.
- ② Temperature of inlet water.
- ③ Where there is risk of freezing of the plate exchanger will be required the use of glycol water.



UNIT COMPONENTS

Casing

- Casing made of galvanised steel metal with polyester paint, white colour RAL 7035. Thermal insulation 10 mm thick, with fire classification M1.
- Self-supporting frame and access panels to the electric panel, compressors, fans, etc.

Cooling circuit

- Hermetic scroll-type compressors with sound insulation, assembled over antivibration mounts. Control of phase equilibrium and the direction of rotation.
- Crankcase heater (heat pump units).
- Liquid receivers.
- Four-way cycle reversing valves (heat pump units).
- Anti-acid dehydrating filters.

Indoor circuit

- Centrifugal fan(s) coupling by pulleys and belts. Electric motors with tensioner, class F, IP55 and internal thermal protection. One, two or three double-intake turbines, with an impeller of front-curved blades. Greased spherical bearings, with no maintenance required.
- Reusable air filters, assembled on a frame.
- Coil with copper pipes and aluminium fins.
- Condensates drain pan.
- Thermostatic expansion valves with external equalisation.

Outdoor circuit

- Welded stainless steel boards exchangers.

Protections

- High pressure pressostat.
- Low pressure pressostat.
- Compressor discharge temperature control.
- Non-return valve built into the compressor.
- Main door switch.
- Magnetothermic protection switches for the compressor(s) power line and fan motor.
- Automatic switch in the control circuit.
- Anti-freeze protection built into the control (heat pumps).
- Water flow switch (heat pump units).
- Condensation / evaporation pressure control with three-way valve.

Electric panel

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



Compact water-air rooftop units

Electronic controls

AVANT / AVANT+ electronic control (standard)

This control is standard for all models (in the AVANT+ version).

Electronic module with microprocessor comprised of a control board and a user terminal TCO ensures the following functions:

- Selection of the operating mode:
 - HEATING
 - COOLING
 - AUTO *Auto*
 - DEHUMIDIFICATION
 - FAN (without icon).
- Modification of the setpoint.
- Permanent control of the operating parameters.
- View of the values measured by the probes.
- Timing of the compressors.
- Anti-fire safety.
- Operation of all the stations via the condensation and evaporation pressure control.
- Control of the outlet temperature.
- Compressor discharge temperature control by probe.
- Compensation of the setpoint based on the outdoor temperature.
- Timer and weekly programming.



- Failure diagnosis and main alarm.
- Counters of the number of starts and operating hours of the unit's components.

Optional functions:

- Control of the auxiliary electrical heaters.
- Proportional control of a hot water auxiliary coil.
- Control of electronic fans.
- Humidity control.
- Control of the opening of the outdoor air damper.
- Management of thermal free-cooling (with the AVANT & AVANT+ versions).
- Management of enthalpic or thermoenthalpic free-cooling (only with the AVANT+ version).
- Detection of clogged filters and management of air flow.
- Connection to a centralised technical management system (BMS) for supervision.

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.



AVANT Pro electronic control (optional)

It is available for all the models of the Space Aqua XF series, being compulsory with the optionals of gas burner and cooling recovery.

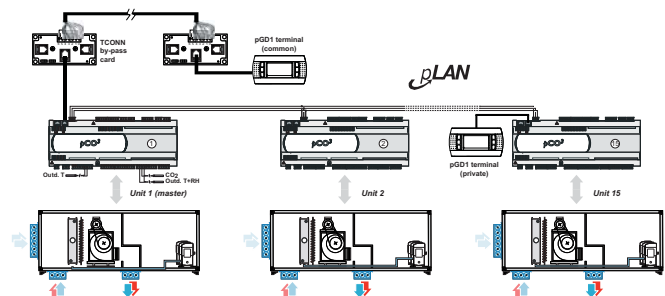
This electronic module with microprocessor comprised of a control board and a user terminal pGD1 ensures the following functions:

- Selection of the operating mode: COOLING / HEATING.
- Modification of the setpoint.
- Permanent control of the operating parameters.
- View of the values measured by the probes.
- Timing of the compressors.
- Anti-fire safety.
- Operation of all the stations via the condensation and evaporation pressure control.
- Control of the outlet temperature.
- Compensation of the setpoint in accordance with the outdoor temperature.
- Daily and weekly programming.
- Failure diagnosis and main alarm.



Optional functions:

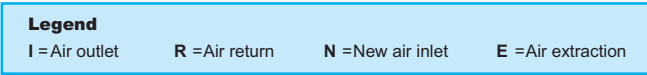
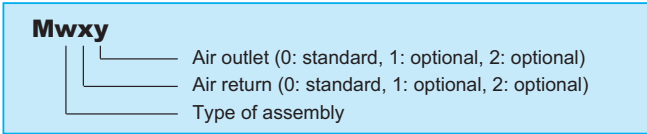
- Control of the auxiliary electrical heaters.
- Proportional control of a hot water auxiliary coil.
- Control of the gas burner.
- Management of the cooling recovery circuit.
- Control of electronic fans.
- Humidity control.
- Control of the opening of the outdoor air damper, depending on the mixing air temperature.
- Management of thermal, enthalpic or thermoenthalpic free-cooling.
- Control of the overpressure with the MC0 and MC1 assemblies.
- Management of clogged filters and control of air flow.
- Management of a smoke detecting station.
- Control of the air quality probe.
- Connection to a centralised technical management system (BMS) for supervision.
- Connection to a local pLAN network thus allowing data and information communication for a maximum of 15 units.



Options

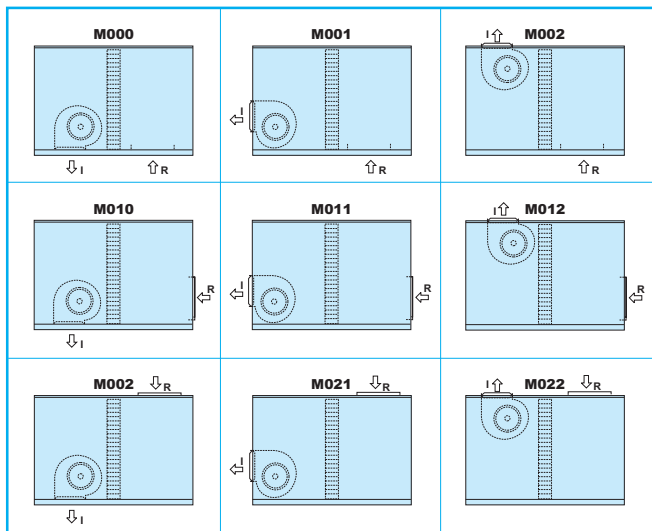
Configuration options

(Depending on the indoor air circulation)



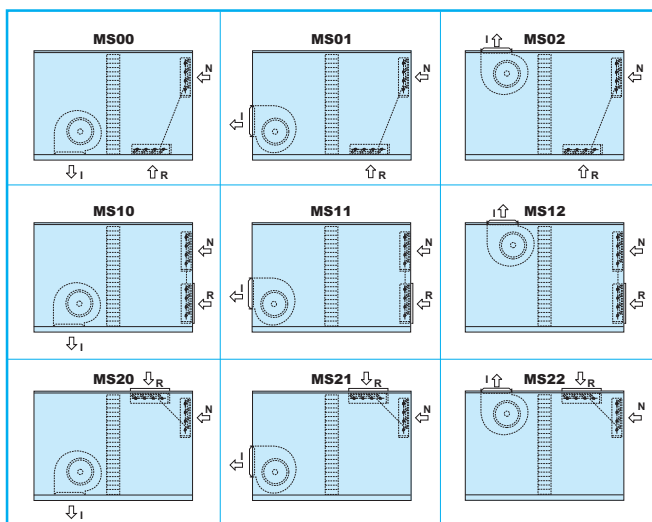
Standard assembly

- **MO assembly:** Change of outlet and/or return air position in the indoor circuit.

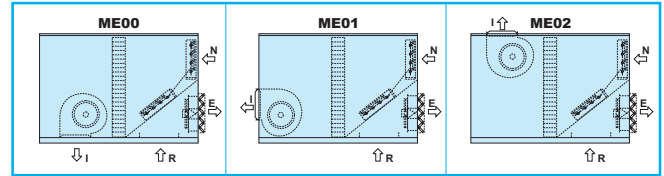


Assemblies with mixing box and free-cooling

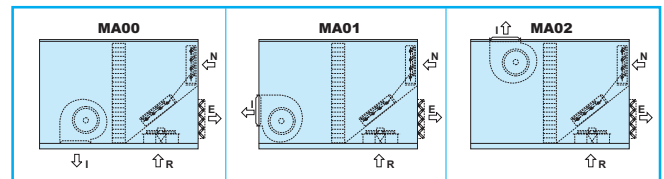
- **MS assemblies:** Outdoor air intake with damper, interlocked with return damper (mixing box of 2 dampers).



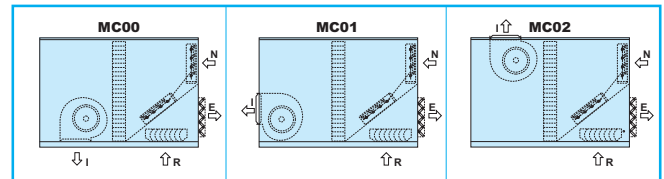
- **ME assemblies:** Axial air extraction fan (mixing box of 3 dampers).



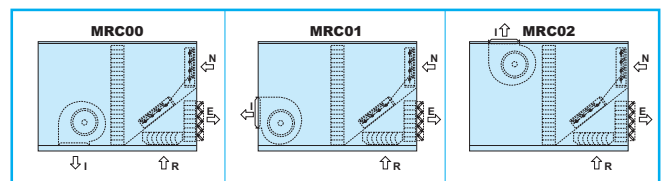
- **MA assemblies:** Axial return and air extraction fan (mixing box of 3 dampers).



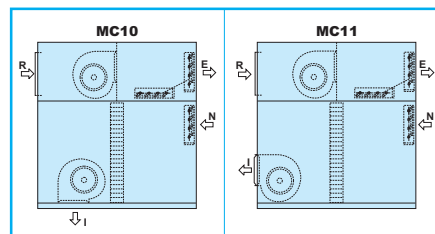
- **MC0 assemblies:** Electronic lower plug-fan (mixing box of 3 dampers).



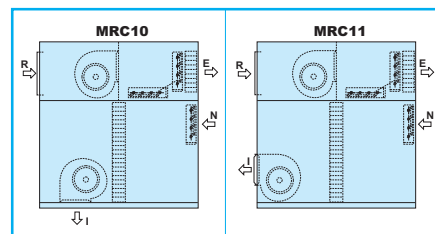
- **MRC0 assemblies:** Electronic lower plug-fan (mixing box of 3 dampers) + cooling recovery circuit.



- **MC1 assemblies:** Centrifugal fan in top box (mixing box of 3 dampers).



- **MRC1 assemblies:** Centrifugal fan in top box (mixing box of 3 dampers) + cooling recovery circuit.





Compact water-air rooftop units

Outdoor ambient temperature options

Temperature

- Thermal and acoustic insulation 30 mm or 50 mm thick, with fire classification Euroclass A2-s1, d0.



Cover loss:

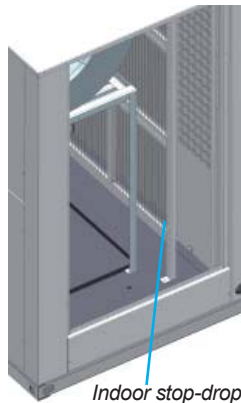
Conditions	Winter	
	Indoor	20°C
Outdoor	-20°C	94% RH
9mm NBR (std)	1790 W	2.0% HC
30mm rock wool	726 W	0.7% HC
50mm rock wool	437 W	0.4% HC

Conditions	Summer	
	Indoor	27°C
Outdoor	35°C	40% RH
9mm NBR (std)	615 W	1.00% TCC
25mm rock wool	249 W	0.45% TCC
50mm rock wool	151 W	0.24% TCC

- 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.
- Dampers with spring for automatic closing in case of a tension cut. This is compulsory if the outdoor temperature is lower than -8°C WB.
- Electrical heater for antifreeze protection of dampers of mixing boxes. This is compulsory if the outdoor temperature is lower than -12°C WB.
- Circuit of the hot water coil with antifreeze protection according to the water temperature. This is compulsory if the outdoor temperature is lower than -20°C WB.

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

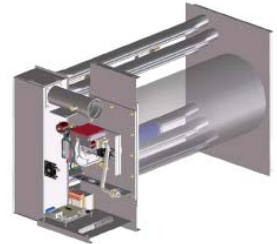


Corrosion

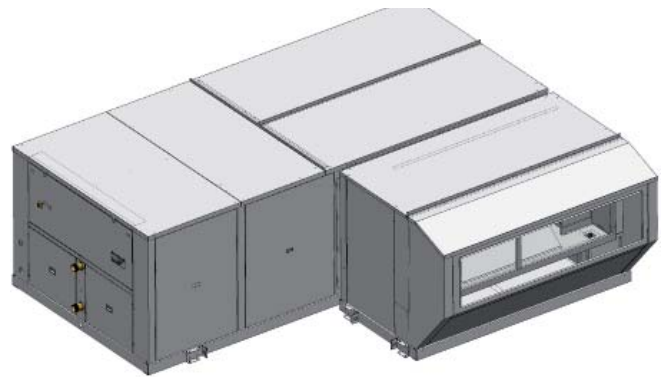
- Coils with copper pipes (indoor and/or auxiliary) and aluminium fins.
- Coils with copper pipes (indoor and /or auxiliary) and aluminium fins with polyurethane and blygold polual coating.
- Condensate drain pan for the indoor circuit in stainless steel.

Comfort / heating options

- Hot water auxiliary coil, with three-way valve. This optional always incorporates an anti-freeze thermostat as safety system.
- Auxiliary electrical heaters, except in models 90 to 180 with top outlet. With this option, the air flow controller is compulsory to be selected. Nevertheless, if the unit with electrical heaters incorporates outlet plug-fan, it is not possible to select the optional the air flow controller, since the proper fan realizes this function.
- Natural or propane gas burner with modulating actuator, except models 415 and 480. Available for all assemblies except top and bottom outlet. With this option, it is compulsory to change the AVANT Pro, as well as the differential pressostat for controlling the air flow that stops the burner in case of fire. It is also recommended to have the differential pressostat option for detecting clogged filters.



In case of units with gas burner and outlet plug-fan it is not possible to select the pressostat for the air flow controller, since the proper fan realizes this function.



Comfort / indoor air quality options

- Gravimetric filter G4.
- Gravimetric filter G4 of low pressure drop.
- Opacimetric folded filters F6 to F9 + gravimetric G4.
- Opacimetric folded filters F7 and F9 of low pressure drop + G4 of low pressure drop.
- Double stage creased opacimetric filters (F+F standard or F+F of low pressure drop). With this option, a technical consultation must be made due to changes in unit dimensions (MS assembly and top and bottom return).
- Air quality probe for installation in the environment or in duct to enable measuring CO₂ and/or volatile compounds (with AVANT Pro control, instead of the mixing probe).



Energy saving / recovery options

Compressors in tandem

- This setting improves the management of stages, and therefore the energy efficiency of the unit. Models 650 and 720 in tandem as standard.



Plug-fan

- Electronic plug-fans in outlet and/or return with variable speed and flow sensor. Consult dimensions schemes.

Facilities type of service industries consumption of fans associated with air transportation assumes 40 of the annual consumption of air conditioning. The use of fans of greater efficiency has a direct impact on the reduction of consumption.

Plug-fans with variable speed have associated the following advantages:

- Elimination of friction loss of the transmission by direct link.
- Greater efficiency aeraulics of the rotor (impeller jet with optimized profile), with available pressures higher than 1000 Pa.
- Greater efficiency of the motor, DC motors of permanent magnets powered by electronic switching integrated in the motor.
- Variable speed that allows to keep the outlet flow constant regardless of the degree of clogging of filters.
- Accurate measurement of flow, a section calibrated in the fan aspiration and a differential pressure sensor allow control handling flow reliably both on VAC as VAV systems.



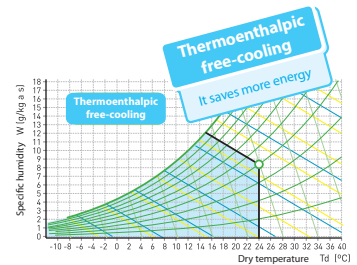
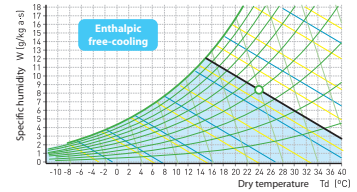
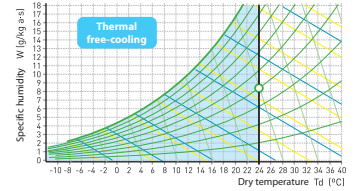
Free-cooling management

The operation of the unit in free-cooling 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 refreshing will range from 0% to 100%.

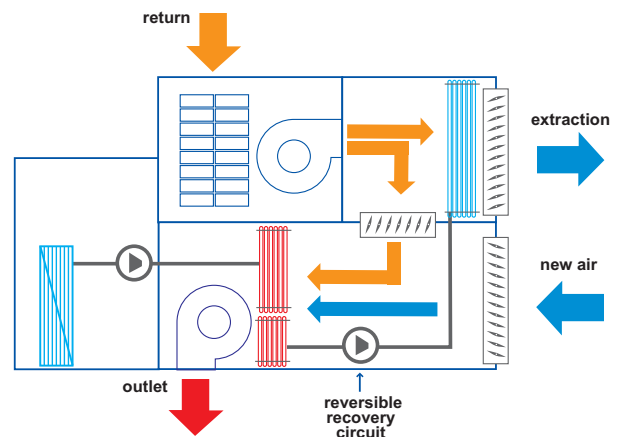
There are three options for the free-cooling management:

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



Active recovery

- Circuit dedicated to recovery, with independent control, adapted to the air refreshing requirements in order to raise the COP and EER of the unit set. With this option it is obligatory to change the AVANT Pro electronic control.
 - Centrifugal fan in top box MRC1 or electronic lower plug-fan MRC0.
 - Air circuit comprised of coils with copper pipes and aluminium fins.
 - Thermostatic expansion valve with external equalisation.
 - Hermetic scroll-type compressor with sound insulation, assembled over antivibration mounts.
 - Crankcase heater.
 - Four-way cycle reversing valve (heat pump units).
 - Anti-acid dehydrator filter.
 - Condensates drain pan.

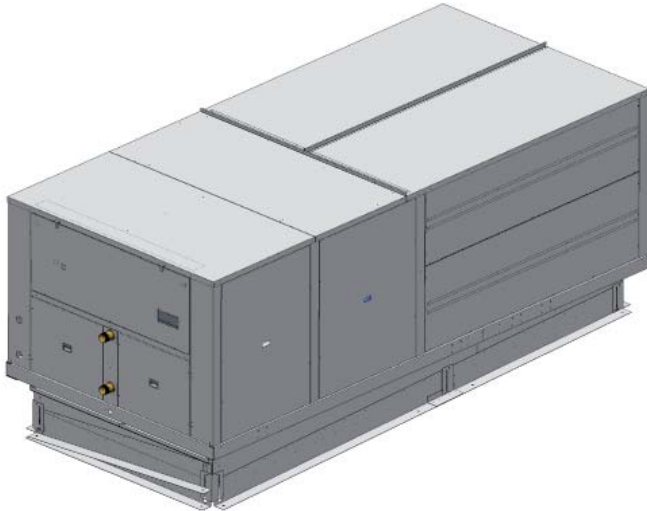




Compact water-air rooftop units

Installation options

- Outlet and/or return fan with high pressure available.
- Control of the overpressure with the MC0 and MC1 assemblies.
- Standardised pre-assembly frames made of galvanised steel panelling, thermally insulated. Adjustable height.



- Adaptation frames for replacing units on site.
- Antivibration mounts made of rubber.

Electric panel options

- Electrical power supply with neutral.
- Energy meter.
- Numeration of components in the electrical panel.
- Numeration of wired.

Safety options

- Soft starter of the outlet and/or return fan 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 (with AVANT Pro control).

Packing options

- Maritime packing SEI4C (with or without gas burner).
- Skis for transporting in closed container (except with MC1 and MRC1 assemblies).

Service options

- Commissioning and extension of guarantee of 1 year (with or without gas burner) in pieces, workforce and displacement.
- Commissioning and extension of guarantee of 2 years (with or without gas burner) in pieces, workforce and displacement.

Control / communication options

- RS485 serial cards for network communication with protocols: Carel/Modbus, LonWorks®, BACnet™ MSTP, Konnex.
- Ethernet serial cards for network communication with protocols: BACnet™ Ethernet™, IP, SNMP V1-2-3, FTP y HTTP.
- Supervisory software PlantVisorPRO2. It's the preinstalled solution on a PC 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. PlantVisorPRO2 is available in two versions:
 - PlantVisorPRO2 box: comprised of the CPU unit and, optionally, by the monitor and keyboard.
 - PlantVisorPRO2 touch: this includes the CPU and the touchscreen in the one device.

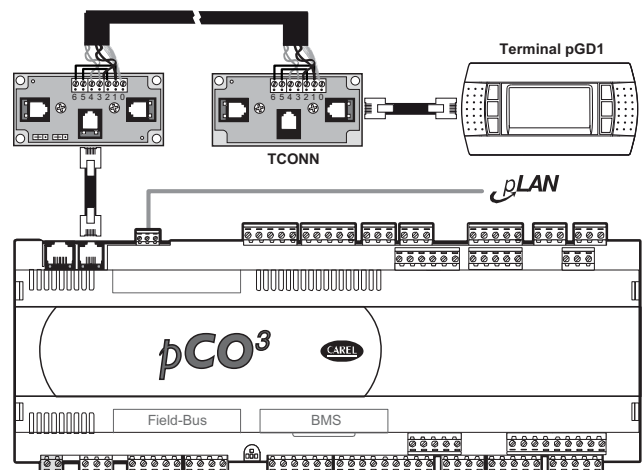


With AVANT / AVANT+ electronic control

- pGD1 terminal for maintaining of the unit.
- Return or ambient air temperature probe connected to the board that replaces the room probe of the thermostat TCO. This probe is required for fire safety.

With AVANT Pro electronic control

- Control without pGD1 terminal (for units with shared terminal).
- Kit remote control to 200 meters (pGD1 terminal + 2 TCONN bypass cards).
- Ambient air temperature probe: compulsory in units with gas burner.
- Ambient air enthalpy probe: compulsory in units with gas burner + enthalpic or thermoenthalpic free-cooling.
- Relative humidity probes of return and outdoor air: compulsory in units with enthalpic or thermoenthalpic free-cooling.





Compact water-air rooftop units

Space Aqua XF

TECHNICAL CHARACTERISTICS

Space Aqua XF		415	420	480	485	540	600	650	720
Cooling capacities	Cooling Capacity ① (kW)	106,82	109,07	115,29	122,32	136,53	156,54	162,26	183,05
	Power input ③ (kW)	23,52	21,44	26,06	24,03	28,85	31,48	33,57	41,19
	EER performance	4,54	5,09	4,42	5,09	4,73	4,97	4,83	4,44
Heating capacities	Heating capacity ② (kW)	121,84	125,86	134,31	139,45	160,45	181,33	193,99	226,85
	Power input ③ (kW)	27,81	25,99	32,27	29,94	34,75	38,11	39,22	49,89
	COP performance	4,38	4,84	4,16	4,66	4,62	4,76	4,95	4,55
Outdoor circuit	Nominal water flow (m³/h)	22,9	23,1	24,8	25,4	29,0	32,0	34,0	40,0
	Pressure drop (m.w.c)	11,5	11,6	11,3	11,6	11,8	5,7	7,0	11,1
	Type of hydraulic connections	Gas threaded							
	Diameter of connections	2" M	2 1/2" M	2" M	2 1/2" M				
Indoor circuit outlet fan	Nominal air flow (m³/h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000
	Available static pressure (mm.a.c.)	12,5	12,5	15,0	15,0	15,0	15,0	17,5	17,5
	Type	Centrifugal							
	Number / turbines	2 / 2							
	Motor output (kW)	2 x 2,2	2 x 1,5	2 x 2,2	2 x 1,5	2 x 2,2	2 x 3	2 x 4	2 x 4
	Power input (kW)	2,72	2,04	2,94	2,18	2,88	4,06	5,15	6,21
	Speed (r.p.m.)	688	535	717	554	597	639	654	677
Compressor	Type	Scroll							
	Number of compressors	2						4	
	Number stages	2						4	
	Number of circuits	2						2	
	Oil type	Copeland 3MAF 32cST, Danfoss POE 160SZ, ICI Emkarate RL 32CF, Mobil EAL Artic 22CC							
	Volume of oil (l)	2 x 6,2	2 x 6,2	2 x 6,2	2 x 6,2	2 x 6,2	2 x 6,2	4 x 3,3	4 x 6,2
Electrical characteristics	Electrical power supply	400 V / III ph / 50 Hz (±10%)							
	Power supply	3 Wires + Ground							
Maximum absorbed current	Compressors (A)	70,3	70,3	79,6	79,6	91,1	102,6	100,4	122,0
	Fans (A)	10,0	7,1	10,0	7,1	10,0	13,8	18,0	18,0
	Control (A)	1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8
	Total (A)	82,1	79,2	91,4	88,5	102,9	118,2	120,2	141,8
Refrigerant	Type	R-410A							
	Global warming potential (GWP) ④	1.720							
	Charge (kg)	35,0	31,7	35,5	32,0	33,0	34,0	34,0	40,0
Dimensions	Length (mm)	3.326	4.816	3.326	4.816	4.816	4.816	4.816	4.816
	Width (mm)	2.205	2.205	2.205	2.205	2.205	2.205	2.205	2.205
	Height (mm)	1.873	1.573	1.873	1.573	1.573	1.573	1.873	1.873
Weight	(kg)	1.514	1.723	1.580	1.773	1.853	1.927	2.055	2.117
Condensate outlet Ø		1 1/4" adaptor							

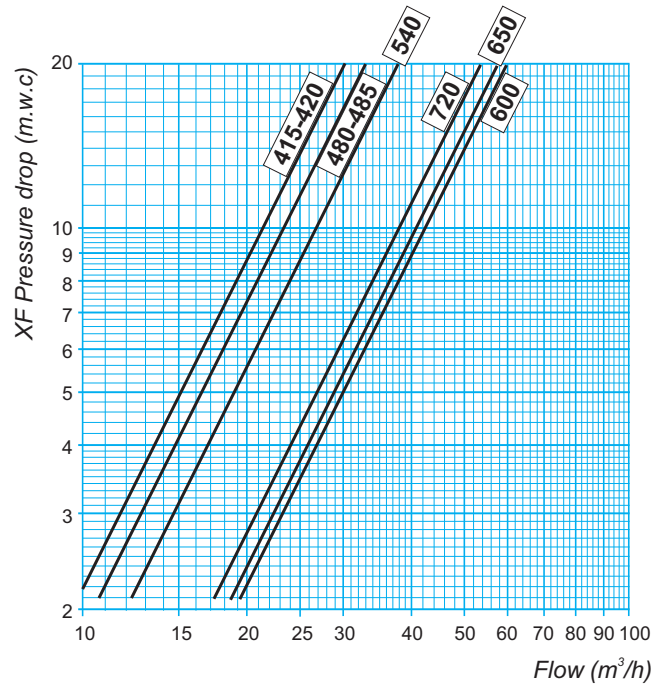
① Cooling capacity calculated in accordance with the UNE-EN-14511 standard given for inlet/outlet water temperature conditions of 30/35°C and indoor air temperature of 27°C (19°C WB).

② Heating capacity calculated in accordance with the UNE-EN-14511 standard given for inlet water temperature conditions of 15°C and indoor temperature conditions of 20°C.

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

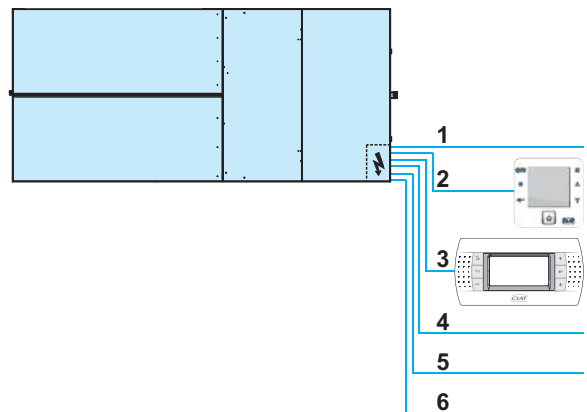
④ Climatic warming potential of a kilogram of fluorinated greenhouse gas in relation to a kilogram of carbon dioxide over a period of 100 years.

PRESSURE DROP IN THE EXCHANGER



ELECTRICAL CONNECTIONS

N°	Space Aqua XF		415 to 720
1	Main power supply	400 III (±10%)	3 + T
2	TCO user terminal connection ①		2 wires for power supply 230V + 1 shielded cable for communication type AGW20 / 22 (1 braided pair + drainwire + shielding)
3	pGD1 maintenance terminal connection		telephone cable 6 wires standard (RJ12 connector) (opt.)
4	Remote off/on (optional)		2 wires
5	Main failure signal (optional)		2 wires
6	Safety electrical heaters (optional)		2 wires (per stage)



① The same power supply used for powering the control board must also be used for powering the terminal.

OPTIONS FOR THE INDOOR CIRCUIT

■ Stop-drop in the indoor air coil

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

Space Aqua XF		415	420	480	485	540	600	650	720
Maximum air flow without stop-drop	(m³/h)	27.700	30.090	27.700	30.090	30.090	30.090	37.030	37.030

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 it is not possible to assemble the stop-drop.



OPTIONS FOR THE INDOOR CIRCUIT

■ Outlet plug-fan of variable speed

Space Aqua XF		415	420	480	485	540	600	650	720	
Nominal air flow	(m ³ /h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000	
Nominal available static pressure	(mm.a.c.)	12,5	12,5	15,0	15,0	15,0	15,0	17,5	17,5	
Standard pressure	Nominal absorbed output	(kW)	2,22	2,22	2,46	2,43	3,12	3,72	4,49	5,34
	Max. available static pressure	(mm.a.c.)	83,2	83,5	82,2	82,5	73,4	77,5	72,7	63,5
	Number x Diameter	(mm)	3 x 500				4 x 500			
	Output	(kW)	3 x 2,68				4 x 2,68			
	Speed	(r.p.m.)	3 x 1.700				4 x 1.700			
	Maximum absorbed current	(A)	12,5				16,7			
High pressure (optional)	Nominal absorbed output	(kW)	--			2,92	4,00	4,08	4,81	
	Max. available static pressure	(mm.a.c.)	--			139,9	127,9	118,7	107,2	
	Number x Diameter	(mm)	--			3 x 500		3 x 560		
	Output	(kW)	--			3 x 5,5		3 x 4,7		
	Speed	(r.p.m.)	--			3 x 2.200		3 x 1.750		
	Maximum absorbed current	(A)	--			25,2		21,9		

■ Axial extraction fan (ME assembly)

Space Aqua XF		415	420	480	485	540	600	650	720
Nominal air flow	(m ³ /h)	9.000	9.000	9.100	9.100	10.200	12.000	13.750	15.000
Number x Diameter	(mm)	2 x 450						3 x 450	
Power supply voltage		230 V / 1 ph / 50 Hz							
Output	(kW)	2 x 0,48						3 x 0,48	
Speed	(r.p.m.)	1.350							
Maximum absorbed current	(A)	4,2						6,3	

■ Axial return fan (MA assembly)

Space Aqua XF		415	420	480	485	540	600	650	720
Maximum air flow	(m ³ /h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000
Number x Diameter	(mm)	3 x 500	4 x 500	3 x 500	4 x 500				
Power supply voltage		230 V / 1 ph / 50 Hz							
Output	(kW)	3 x 0,64	4 x 0,64	3 x 0,64	4 x 0,64				
Speed	(r.p.m.)	1.270							
Maximum absorbed current	(A)	9,0	12,0	9,0	12,0				

OPTIONS FOR THE INDOOR CIRCUIT

■ Centrifugal return fan in top box (MC1 assembly)

Space Aqua XF		415	420	480	485	540	600	650	720
Nominal air flow	(m ³ /h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000
Available static pressure	(mm.a.c.)	12,5	12,5	15,0	15,0	15,0	15,0	17,5	17,5
Nominal absorbed output	(kW)	2,50	1,76	2,56	1,80	2,28	3,22	4,32	5,25
Number / no. turbines		2 / 2							
Output	(kW)	2 x 1,5	2 x 1,1	2 x 2,2	2 x 1,1	2 x 1,5	2 x 2,2	2 x 3	2 x 4
Speed	(r.p.m.)	634	488	673	489	509	546	577	600
Maximum absorbed current	(A)	7,2	5,4	10,0	5,4	7,2	10,0	13,8	18,0

Note: Consult the tables of selection and fan performance curves for these fans on pages 54 to 57 of this brochure.

■ Lower return plug-fan of variable speed (MC0 assembly)

Space Aqua XF		415	420	480	485	540	600	650	720
Nominal air flow	(m ³ /h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000
Nominal available static pressure	(mm.a.c.)	12,5	12,5	15,0	15,0	15,0	15,0	17,5	17,5
Nominal absorbed output	(kW)	2,64	2,64	2,86	2,86	2,43	3,29	4,59	4,15
Maximum available static pressure	(mm.a.c.)	52,1	52,1	50,1	50,1	83,0	68,3	48,8	74,8
Number x Diameter	(mm)	2 x 500				3 x 500			4 x 500
Output	(kW)	2 x 2,68				3 x 2,68			4 x 2,68
Speed	(r.p.m.)	2 x 1.700				3 x 1.700			4 x 1.700
Maximum absorbed current	(A)	8,4				12,5			16,7

■ MRC cooling recovery circuit

Space Aqua XF		415	420	480	485	540	600	650	720	
MRC0	Nominal flow	(m ³ /h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000
	Available static pressure in return	(mm.a.c.)	45,3	49,1	43,1	47,0	77,8	63,6	40,7	68,2
MRC1	Nominal flow	(m ³ /h)	18.000	18.000	18.200	18.200	20.400	24.000	27.500	30.000
	Available static pressure in return	(mm.a.c.)	12,5	12,5	15,0	15,0	15,0	15,0	17,5	17,5
Recovery compressor	Type		Scroll							
	No. of compressors / circuits		1 / 1							
	Oil type		Copeland 3MAF 32cST, Danfoss POE 160SZ, ICI Emkarate RL 32CF, Mobil EAL Artic 22CC							
	Volume of oil	(l)	3,0			3,3		4,0		
	Maximum absorbed current	(A)	15,3			20,1		25,1		
Refrigerant charge R-410A	(kg)	8,0	8,0	8,0	8,0	8,1	8,2	7,6	7,7	

Note: With this option, it is obligatory to change to AVANT Pro electronic control.

OPTIONS FOR THE INDOOR CIRCUIT

■ Electrical heater

With this option, the air flow controller is compulsory, if the unit does not incorporate outlet plug-fan. Nevertheless, if the unit incorporates outlet plug-fan, it is not possible to select the optional the air flow controller, since the proper fan realizes this function.

Auxiliary 2-stage electrical heaters for assembly and connection inside the unit.

Space Aqua XF	Total output (kW)	36	45	54	72
	Stage power (kW)	18 + 18	18 + 27	27 + 27	36 + 36
Current (A) (400V / IIIph / 50Hz)	415 / 420 / 480 / 485	52,0	65,0	78,0	unavailable
	540 ①	unavailable	65,0	78,0	104,0
	600 / 650 / 720 ②	unavailable	65,0	78,0	104,0
Module weight (kg)		24,1	28,9	33,6	48,3

① With outlet plug-fan it is not possible to select electrical heater of 72 kW.

② With high pression outlet plug-fan it is not possible to select electrical heater of 72 kW.

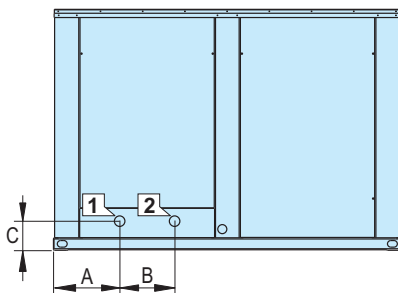
■ Hot water auxiliary coil

Space Aqua XF		415	420	480	485	540	600	650	720	
Air pressure drop	(mm.a.c.)	2,7	2,1	2,7	2,1	2,5	3,3	2,9	3,4	
Water 80/60°C and inlet air 20°C	Heating capacity	(kW)	146,3	181,2	147,3	182,5	196	216,3	255	268,7
	Water flow	(m³/h)	6,5	8	6,5	8,1	8,7	9,2	11,3	11,9
	Water pressure drop	(m.w.c)	1,7	2	1,8	2	1,9	2,3	3,1	3,4
Water 90/70°C and inlet air 20°C	Heating capacity	(kW)	179,8	223,1	181,1	224,7	241,5	266,9	314,5	331,6
	Water flow	(m³/h)	8	9,9	8	10	10,7	11,9	14	14,7
	Water pressure drop	(m.w.c)	2,6	2,4	2,6	2,5	2,8	3,5	3,9	4,3
Weight (empty)		(kg)	43,0	66,9	43,0	66,9	66,9	66,9	82,3	82,3

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

Note: This option always incorporates an antigel thermostat as safety system.

Position of the hydraulic connections of the hot water auxiliary coil (optional)



Space Aqua XF	A (mm)	B (mm)	C (mm)	Ø hydraulic connections: I/O
415 to 720	302	250	222	2"

LEGEND

- 1 Water outlet
- 2 Water inlet

Note: The input / output connections of the coil are located inside the unit. The connection can be established via the unit base using flexible tubing or via the side panel. In the above diagram, the position of the sheet metal precuts is shown on the side panel. To connections for the base to consult pre-assembly frames schemes.

OPTIONS FOR THE INDOOR CIRCUIT

■ Gas burner

Natural or propane gas burner with proportional 0-10V actuator. Condensation boiler with premixing and modulation technology that allows outputs close to 105% with regard to the lower heating value (LHV).

The **AVANT Pro** control (compulsory for gas burners) shall manage the connection of the burner, in heating mode, via an ON/OFF signal.

- In cooling-only units, the control will activate the burner the same way as an electrical heater stage.
- In heat pump units it is possible to select three different operating modes:
 - After the compressors as an electrical heater stage.
 - Instead of the compressors.
 - Instead of the compressors if the outdoor temperature is less than the value marked on an outdoor thermostat.

The control of the power will be carried out by the burner's own control in accordance with the signal received from the AVANT Pro (0-10V) control.

Note: with the gas burner, the differential pressostat for controlling air flow is compulsory. Nevertheless, if the unit with electrical heaters incorporates outlet plug-fan, it is not possible to select the optional the air flow controller, since the proper fan realizes this function.

It is also recommended to use the clogged filter detection and anti-freeze protection options for the components of the electric panel when experiencing low outdoor temperatures (compulsory if the outdoor temperature is lower than -8°C WB).



Available in all models except for 415 and 480. It is not available in assemblies with top outlet either.

Gas burner models: Technical characteristics	PCH-54		PCH-72		PCH-92		PCH-150		PCH-200	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
EC Mark (PIN)	0694BM3433									
Nominal heat capacity (kW)	15,5	58,0	22,0	78,0	30,0	98,0	44,0	155,0	53,0	215,0
Nominal heat output (kW)	16,3	54,0	23,1	73,2	31,5	93,4	46,3	145,0	55,7	197,0
Performance (%)	105,0	93,1	105,0	93,8	105,0	95,3	105,2	93,5	105,1	91,6
Air flow (m³/h)	3.100	10.100	4.200	13.700	5.400	17.200	8.500	27.700	11.500	37.600
Motor output (kW)	0,09		2 x 0,09		2 x 0,07		0,4		0,4	
Maximum pressure applicable (mm.a.c.)	120									
Ø aspiration/discharge pipe (mm)	80/80		100/100		100/100		130/130		130/130	
Available outlet pressure for smoke (stack connection) (mm.a.c.)	12		12		12		10		14	
G20 methane supply pressure (mm.a.c.)	200									
Consumption G20 (15°C 10,13 m.a.c.) (m³/h)	1,64	6,14	2,33	8,25	3,18	10,37	4,66	16,40	5,61	22,75
G25 methane supply pressure (mm.a.c.)	250									
Consumption G25 (15°C 10,13 m.a.c.) (m³/h)	1,91	7,13	2,71	9,59	3,69	12,05	5,41	19,07	6,52	26,45
G30 methane supply pressure (mm.a.c.)	300 - 500									
Consumption G30 (15°C 10,13 m.a.c.) (kg/h)	1,00	3,73	1,42	5,02	1,93	6,31	2,83	9,97	3,41	13,84
G31 propane supply pressure (mm.a.c.)	300 - 370 - 500									
Consumption G31 (15°C 10,13 m.a.c.) (kg/h)	0,98	3,68	1,40	4,95	1,90	6,21	2,79	9,83	3,36	13,63
Power supply voltage	230 V / I ph / 50 Hz									
Index of protection (IP)	IP4xD									
Inlet temperature limit (°C)	-15°C a +60°C									

Note: Maximum air flow calculated for a ΔT = 15°C and minimum air flow calculated for a ΔT = 50°C



Compact water-air rooftop units

Space Aqua XF

The following table features the pressure drops (mm.a.c) in the burners available for each model:

Space Aqua XF	Nominal air flow (m ³ /h)	Pressure drop (mm.a.c)				
		PCH-54	PCH-72	PCH-92	PCH-150	PCH-200
420	18.000	28,1	13,1	10,0	5,6	--
485	18.200	28,6	13,3	10,2	5,7	--
540	20.400	33,5	15,5	11,9	6,7	--
600	24.000	--	--	14,8	8,4	--
650	27.500	--	--	17,8	10,2	10,2
720	30.000	--	--	20,1	11,5	11,5

The following table indicates the type of gas used by the gas burner as a function of the destination country:

Country	Category	Gas	Pressure (mm.a.c)	Gas	Pressure (mm.a.c)
Austria	I12H3B/P	G20	200	G30/G31	500
Belgium < 70 kW	I2E(S)B,I3P	G20/G25	200/250	G31	370
Belgium > 70 kW	I2E(R)B,I3P	G20/G25	200/250	G31	370
Switzerland	I12HH3B/P	G20	200	G30/G31	500
Germany	I12ELL3B/P	G20	200	G30/G31	500
Denmark, Finland, Greece, Sweden	I12H3B/P	G20	200	G30/G31	300
Spain, United Kingdom, Ireland, Portugal	I12H3P	G20	200	G31	370
Italy	I12H3B/P	G20	200	G30/G31	300
Russia	I12H3B/P	G20	200	--	--
France	I123SI3P	G20/G25	200/250	G31	370
Luxembourg	I12E3P	G20/G25	200	G31	370/500
Netherlands	I12L3B/P	G25	250	G30/G31	300
Norway	I12H3B/P	G20	200	G30/G31	300
Hungary	I12HS3B/P	G20/G25.1	250	G30/G31	300
Czech Republic	I12H3B/P	G20	200	G30/G31	300
Cyprus, Malta	I3B/P	--	--	G30/G31	300
Estonia, Lithuania, Latvia	I12H3B/P	G20	200	G30/G31	300
Iceland	I3P	--	--	G31	370
Slovakia	I12H3B/P	G20	200	G30/G31	300
Slovenia	I12H3B/P	G20	200	G30/G31	300
Bulgaria, Romania, Turkey	I12H3B7P	G20	200	G30/G31	300
Poland	I12E3B/P	G20/GZ350	200/130	G30/G31	360



Compact water-air rooftop units

Space Aqua XF

SOUND LEVELS dB(A)

Standard unit

■ Sound power level

Space Aqua XF	415	420	480	485	540	600	650	720
20 Hz	23,0	21,6	24,0	24,1	24,4	24,7	27,5	28,1
25 Hz	26,2	25,7	27,1	27,9	27,3	27,8	30,1	30,2
31,5 Hz	29,9	29,5	30,0	31,1	31,1	31,7	34,3	33,9
40 Hz	34,7	36,1	34,9	38,0	37,8	37,8	38,9	40,0
50 Hz	51,7	55,6	50,3	58,0	56,8	57,4	55,1	55,9
63 Hz	47,7	48,3	48,4	49,9	50,0	50,8	52,3	52,6
80 Hz	60,7	58,6	60,6	60,2	60,7	61,0	66,5	66,7
100 Hz	55,5	54,6	54,6	56,8	56,8	56,6	60,2	60,9
125 Hz	51,7	59,1	54,9	60,0	60,7	61,7	57,0	57,5
160 Hz	63,8	69,0	68,2	71,5	71,7	71,8	67,9	67,5
200 Hz	64,0	68,7	67,1	70,3	70,9	71,3	68,0	69,0
250 Hz	65,4	70,2	66,9	71,5	71,9	71,7	70,4	70,3
315 Hz	67,8	70,2	69,4	71,9	72,4	73,3	70,9	71,4
400 Hz	71,0	71,5	71,4	74,0	74,0	74,2	75,0	75,1
500 Hz	71,9	72,6	72,1	74,6	73,7	75,0	75,7	75,9
630 Hz	71,7	72,4	72,3	73,7	74,8	75,3	74,9	74,9
800 Hz	71,9	73,1	73,0	74,2	75,0	75,5	76,1	76,5
1.000 Hz	72,9	74,0	74,7	76,0	76,2	76,8	76,3	76,8
1.250 Hz	72,6	72,0	73,3	73,1	73,5	74,4	76,0	76,1
1.600 Hz	68,5	69,7	69,2	71,2	71,1	71,9	72,6	72,4
2.000 Hz	68,1	67,6	69,3	69,8	69,4	70,4	71,8	72,2
2.500 Hz	65,1	65,9	66,7	68,0	67,3	68,7	69,7	69,8
3.150 Hz	63,4	63,7	64,0	65,4	65,4	66,6	68,2	68,4
4.000 Hz	62,0	60,8	63,5	62,8	62,5	62,6	65,9	66,2
5.000 Hz	59,6	57,7	59,8	59,4	59,9	60,0	64,0	64,4
6.300 Hz	57,2	56,5	57,6	59,0	58,3	58,4	62,2	61,7
8.000 Hz	53,7	53,1	54,7	55,0	55,0	54,9	58,5	59,3
10.000 Hz	51,5	48,2	50,7	49,9	50,4	50,8	56,5	56,2
12.500 Hz	49,3	42,2	45,3	44,6	44,2	44,2	54,5	54,4
16.000 Hz	47,1	36,2	45,1	38,0	38,5	38,9	51,9	52,1
20.000 Hz	41,7	29,2	40,5	30,8	31,5	32,0	46,3	46,4
Total dB(A)	81	82	82	84	84	85	85	85

■ Sound pressure level

Measurement conditions: in a clear field, measured at a distance of 5 metres, directivity 2 and at 1,5 metres from the ground.

Space Aqua XF	415	420	480	485	540	600	650	720
Total dB(A)	53,8	54,7	54,9	56,4	56,6	57,3	57,2	57,5

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



Compact water-air rooftop units

Space Aqua XF

SOUND LEVELS dB(A)

Unit with centrifugal return fan in top box MC1 (optional)

■ Sound power level

Space Aqua XF	415	420	480	485	540	600	650	720
20 Hz	24,0	22,2	25,2	24,7	25,0	25,3	27,9	28,9
25 Hz	27,1	26,2	28,5	28,4	27,9	28,4	31,0	32,5
31,5 Hz	30,5	30,3	31,1	31,8	31,8	32,4	35,5	36,1
40 Hz	35,6	36,9	36,0	38,8	38,7	38,6	41,0	40,6
50 Hz	52,4	56,5	52,3	58,9	57,7	58,3	57,1	57,1
63 Hz	48,5	49,0	50,0	50,6	50,7	51,5	52,8	53,8
80 Hz	61,5	59,5	61,6	61,1	61,6	61,8	66,8	67,2
100 Hz	56,2	55,2	55,7	57,3	57,3	57,1	61,3	61,4
125 Hz	52,6	59,8	56,0	60,7	61,4	62,4	58,1	60,0
160 Hz	64,8	69,8	69,3	72,4	72,5	72,7	68,9	70,4
200 Hz	64,9	69,4	68,2	71,0	71,6	72,0	69,0	70,4
250 Hz	66,5	70,8	68,6	72,1	72,5	72,4	71,1	71,4
315 Hz	68,7	71,0	70,5	72,7	73,2	74,1	72,3	73,3
400 Hz	72,3	72,2	72,1	74,8	74,7	75,0	75,9	76,3
500 Hz	72,8	73,4	72,7	75,5	74,6	75,9	76,2	77,7
630 Hz	72,4	72,9	73,1	74,3	75,3	75,9	75,7	77,5
800 Hz	73,0	74,0	73,9	75,1	75,9	76,4	77,6	77,5
1.000 Hz	74,1	74,9	75,8	76,9	77,1	77,7	77,3	78,6
1.250 Hz	73,5	72,9	74,4	74,0	74,3	75,3	77,2	78,5
1.600 Hz	69,3	70,2	70,6	71,6	71,5	72,4	73,9	74,1
2.000 Hz	69,0	68,5	70,1	70,7	70,3	71,3	73,6	74,9
2.500 Hz	66,2	66,8	67,5	68,8	68,2	69,6	70,2	71,8
3.150 Hz	64,1	64,4	65,6	66,1	66,1	67,2	68,3	69,8
4.000 Hz	62,8	61,3	64,5	63,3	63,0	63,1	66,7	67,7
5.000 Hz	59,4	58,3	61,6	59,9	60,4	60,6	64,8	65,9
6.300 Hz	61,0	57,0	58,7	59,4	58,7	58,9	62,6	63,8
8.000 Hz	54,5	53,8	56,2	55,7	55,7	55,6	59,7	60,5
10.000 Hz	52,4	48,7	52,9	50,4	50,9	51,3	56,6	57,2
12.500 Hz	50,3	42,8	46,7	45,2	44,8	44,8	54,6	55,7
16.000 Hz	51,0	37,0	46,6	38,7	39,2	39,6	52,6	53,1
20.000 Hz	42,5	29,8	42,2	31,4	32,1	32,7	47,2	48,7
Total dB(A)	82	83	83	84	85	85	86	87

■ Sound pressure level

Measurement conditions: in a clear field, measured at a distance of 5 metres, directivity 2 and at 1,5 metres from the ground.

Space Aqua XF	415	420	480	485	540	600	650	720
Total dB(A)	54,4	55,2	55,6	56,9	57,1	57,8	58,0	59,1

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



Compact water-air rooftop units

Space Aqua XF

SOUND LEVELS dB(A)

Unit with centrifugal return fan in top box and MRC1 cooling recovery circuit (optional)

■ Sound power level

Space Aqua XF	415	420	480	485	540	600	650	720
20 Hz	25,0	23,3	26,3	25,8	26,1	26,4	29,2	30,2
25 Hz	27,9	27,4	29,3	29,6	29,1	29,6	31,7	33,8
31,5 Hz	31,2	31,4	32,0	32,9	32,9	33,6	35,7	37,4
40 Hz	36,4	38,3	37,0	40,2	40,0	40,0	41,8	42,2
50 Hz	53,1	57,1	53,2	59,5	58,4	59,0	57,2	57,9
63 Hz	49,3	50,0	51,1	51,6	51,7	52,6	53,7	55,5
80 Hz	62,3	60,1	62,4	61,8	62,3	62,5	67,7	67,8
100 Hz	57,0	55,8	56,9	58,0	58,0	57,8	61,6	62,9
125 Hz	53,3	61,2	57,1	62,1	62,8	63,8	59,3	60,5
160 Hz	66,5	70,6	70,2	73,2	73,3	73,4	69,5	70,9
200 Hz	66,2	70,2	69,0	71,7	72,3	72,7	69,8	70,6
250 Hz	67,7	71,5	69,6	72,8	73,2	73,1	71,8	72,4
315 Hz	69,6	72,5	71,7	74,2	74,7	75,6	74,4	74,7
400 Hz	73,3	73,7	73,9	76,3	76,2	76,5	77,1	76,8
500 Hz	74,1	74,5	74,2	76,6	75,7	77,0	77,5	78,8
630 Hz	73,4	73,9	74,2	75,3	76,3	76,9	77,2	78,3
800 Hz	73,8	75,0	75,1	76,2	76,9	77,4	77,7	77,9
1.000 Hz	74,9	75,7	76,7	77,7	77,9	78,5	78,1	79,8
1.250 Hz	74,6	74,1	75,3	75,2	75,5	76,5	78,8	79,7
1.600 Hz	70,3	71,1	71,4	72,5	72,4	73,3	73,6	74,6
2.000 Hz	69,9	69,1	71,3	71,3	70,9	71,9	73,6	74,7
2.500 Hz	67,2	67,2	68,2	69,2	68,6	70,0	71,0	72,4
3.150 Hz	65,3	66,0	66,7	67,7	67,7	68,9	70,5	70,4
4.000 Hz	64,1	63,1	65,3	65,1	64,8	64,9	68,4	68,6
5.000 Hz	60,4	59,0	62,5	60,6	61,1	61,3	65,2	65,9
6.300 Hz	62,0	58,0	59,7	60,5	59,8	59,9	63,4	64,4
8.000 Hz	55,3	54,9	57,4	56,8	56,8	56,7	60,9	61,3
10.000 Hz	53,5	50,1	54,0	51,9	52,3	52,7	58,7	58,9
12.500 Hz	51,7	44,1	47,5	46,5	46,1	46,1	56,5	56,2
16.000 Hz	51,8	38,3	48,1	40,0	40,5	40,9	53,8	54,7
20.000 Hz	43,8	31,0	43,7	32,7	33,3	33,9	48,2	49,2
Total dB(A)	83	84	84	85	86	86	87	88

■ Sound pressure level

Measurement conditions: in a clear field, measured at a distance of 5 metres, directivity 2 and at 1,5 metres from the ground.

Space Aqua XF	415	420	480	485	540	600	650	720
Total dB(A)	55,4	56,2	56,7	57,8	58,1	58,8	58,9	59,9

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



COOLING CAPACITY (kW)

Temperature of outlet water 35°C

RXF IXF	Caudal (m³/h)	Indoor air temperature																	
		20 °C / 50 % HR			23 °C / 50 % HR			25 °C / 50 % HR			27 °C / 50 % HR			29 °C / 50 % HR			31 °C / 50 % HR		
		Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa
415	14400	86,90	66,57	22,35	94,27	68,77	22,53	99,49	70,05	22,63	105,00	71,29	22,70	110,60	72,37	22,89	116,60	73,43	22,99
	18000	91,07	73,77	22,47	98,72	76,35	22,60	104,10	77,97	22,71	109,60	79,38	22,88	115,60	80,79	22,98	121,60	82,01	23,05
	21600	93,99	80,38	22,57	102,00	83,78	22,72	107,30	85,25	22,81	113,00	86,95	22,96	119,10	88,66	23,05	125,40	90,18	23,14
420	14400	87,98	68,09	21,30	95,40	70,33	21,40	100,60	71,68	21,42	108,80	73,80	21,45	116,90	75,60	21,49	120,80	77,30	21,53
	18000	95,69	77,11	21,34	103,80	79,80	21,42	109,50	81,48	21,45	111,20	82,50	21,48	119,20	83,48	21,53	125,70	84,89	21,58
	21600	98,92	84,40	21,36	107,40	87,72	21,43	110,70	89,20	21,47	114,90	91,30	21,51	123,10	92,29	21,56	132,80	95,17	21,62
480	14560	94,32	70,64	25,02	102,30	72,84	25,28	108,30	74,35	25,32	112,30	75,80	25,46	120,60	76,73	25,73	127,10	77,78	25,97
	18200	99,24	78,16	25,15	107,90	80,89	25,30	113,70	82,51	25,50	118,00	84,50	25,65	126,40	85,40	25,93	133,20	86,71	26,17
	21600	102,70	85,02	25,28	111,50	88,19	25,44	117,50	90,04	25,67	121,90	91,50	25,79	130,60	93,58	26,03	137,70	95,16	26,28
485	14560	99,60	72,50	23,95	103,60	74,26	24,05	114,10	75,80	24,20	118,30	76,90	24,27	122,40	78,41	24,40	134,50	80,40	24,56
	18200	100,20	79,68	24,00	109,50	82,30	24,19	115,10	84,28	24,30	124,40	86,50	24,38	133,60	88,60	24,57	136,70	89,39	24,70
	21840	108,10	89,00	24,09	117,40	92,33	24,26	124,00	94,40	24,37	128,70	96,30	24,46	138,10	98,19	24,64	140,90	99,50	24,85
540	16320	113,40	84,51	28,20	121,40	86,30	28,35	130,10	88,30	28,50	135,10	89,70	28,65	139,70	90,80	28,86	150,40	91,92	29,02
	20400	119,40	93,72	28,35	129,50	96,87	28,50	136,80	98,50	28,65	139,30	99,80	28,80	149,40	101,20	29,03	161,00	103,10	29,20
	24480	123,60	102,20	28,45	134,20	106,00	28,63	138,90	108,60	28,79	141,20	111,90	28,95	157,70	112,60	29,18	166,50	114,50	29,35
600	19200	126,60	95,65	30,26	137,50	98,71	30,44	145,20	100,60	30,54	150,30	103,00	30,65	156,10	104,30	30,80	170,60	105,40	30,91
	24000	132,90	106,10	30,34	144,00	109,70	30,50	151,90	112,00	30,63	160,40	114,10	30,75	169,30	116,10	30,89	173,60	118,20	31,10
	28800	137,30	115,80	30,43	148,90	119,90	30,59	157,20	122,90	30,72	165,80	125,40	30,83	174,70	127,70	30,97	176,90	129,30	31,20
650	22000	135,00	103,40	31,98	146,10	106,60	32,20	154,00	108,60	32,44	159,60	110,30	32,63	170,70	112,10	33,04	179,90	113,70	33,30
	27500	140,90	114,30	32,10	152,50	118,30	32,39	160,50	120,60	32,67	166,20	123,50	32,88	182,00	126,70	33,20	187,40	129,20	33,52
	33000	145,30	124,40	32,15	156,90	128,90	32,54	165,20	131,80	32,84	171,30	134,70	33,07	183,20	137,10	33,34	192,70	139,50	33,74
720	24000	152,60	115,40	38,75	164,90	118,80	39,20	173,60	120,90	39,55	180,30	112,30	39,66	192,80	124,80	39,93	203,10	126,50	40,05
	30000	159,50	127,30	39,10	172,20	131,40	39,55	181,60	134,20	39,65	188,10	136,30	39,84	201,10	138,80	40,00	210,80	141,50	40,15
	36000	164,50	138,30	39,25	177,60	143,10	39,73	187,10	146,30	39,81	193,90	148,60	39,94	206,90	151,90	40,17	217,90	154,50	40,30

Pft: Total cooling capacity in kW

Pfs: Sensitive cooling capacity in kW

Pa: Compressors power input in kW

Correction coefficients due to variation of the outlet water temperature

Outlet temperature	30°C	35°C	40°C	45°C	50°C	55°C
Coefficient K1	1,040	1,000	0,960	0,900	0,844	0,785
Coefficient K2	1,030	1,000	0,970	0,930	0,895	0,860
Coefficient K3	0,910	1,000	1,100	1,220	1,330	1,450

Correction coefficients due to variation of the relative humidity

Relative humidity	40%	50%	60%	70%	80%	90%
Coefficient K4	0,935	1,000	1,045	1,090	1,156	1,201
Coefficient K5	1,110	1,000	0,895	0,765	0,675	0,575
Coefficient K6	0,994	1,000	1,012	1,020	1,035	1,045

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

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

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



Compact water-air rooftop units

Space Aqua XF

HEATING CAPACITY (kW)

Indoor temperature 20°C

IXF	Flow (m³/h)	Water inlet temperature							
		5°C		10°C		15°C		20°C	
		Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa
415	14400	96,20	25,64	106,80	27,64	117,90	29,66	129,30	31,86
	18000	98,11	24,00	109,40	25,50	121,20	27,17	133,40	28,98
	21600	99,41	22,82	111,10	24,40	122,80	26,20	136,50	28,00
420	14400	99,99	24,60	111,40	26,13	123,50	27,84	136,00	29,62
	18000	101,30	23,27	113,30	24,61	125,90	26,03	139,30	27,62
	21600	102,40	22,30	114,80	23,45	127,90	24,67	141,70	26,02
480	14560	106,10	30,21	117,80	32,47	129,99	34,98	142,30	37,75
	18200	108,50	27,91	120,90	29,77	133,90	31,86	147,40	34,18
	21600	110,20	26,45	123,10	28,05	136,70	29,85	151,00	31,89
485	14560	110,70	28,57	123,40	30,47	136,60	32,53	151,60	34,60
	18200	112,60	26,87	125,80	28,48	139,80	30,29	154,40	32,25
	21840	113,90	25,76	127,60	27,17	142,20	28,78	157,30	30,49
540	16320	130,90	32,49	144,50	35,06	157,60	37,25	172,50	39,40
	20400	133,80	30,72	147,60	32,69	160,40	34,70	177,20	36,80
	24480	136,20	29,26	153,50	31,10	168,40	32,60	187,30	34,39
600	19200	143,50	35,80	159,20	37,74	176,30	40,11	194,20	42,53
	24000	145,50	33,46	162,40	35,34	180,60	37,38	199,20	39,47
	28800	146,90	32,10	167,60	34,45	185,60	36,25	205,60	38,61
650	22000	151,60	36,41	169,70	38,75	188,40	41,46	208,50	44,04
	27500	153,90	34,21	173,00	36,27	193,30	38,53	214,50	41,05
	33000	155,60	32,76	175,40	34,57	196,50	36,66	218,90	38,97
720	24000	177,90	45,40	198,60	48,57	220,20	51,91	242,70	55,51
	30000	180,80	42,80	202,50	45,56	225,50	48,54	249,40	51,69
	36000	182,70	41,03	205,40	43,50	229,20	46,13	254,20	48,93

Pc: Total heating capacity in kW

Pa: Compressors 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	1,017	1,005	1,000	0,994	0,983	0,971	0,960
Coefficient K2	0,947	0,982	1,000	1,018	1,056	1,096	1,138

$$PC = Pc \times K1$$

$$PA = Pa \times K2$$

OPERATION WITH GLYCOL WATER

Where there is risk of freezing of the plate exchanger will be required the use of glycol water.

Correction coefficients (30% MEG)	Evaporator	Condenser
Output	0,98	0,98
Cold water flow	1,05	1,05
Water flow resistance	1,15	1,10
Average working conditions	15°C / 10°C	30°C / 35°C

Anti-freeze protection with glycol water: freezing point

Concentration	%	0	10	20	30	40	50
Mono-ethylene glycol (MEG)	°C	0	-3	-7	-13	-20	-29
Mono-propylene glycol (MPEG)	°C	0	-2	-5	-10	-15	-21

CORROSION BEHAVIOUR

Corrosion problems may be present in the hydraulic circuit, and in particular the plates exchangers, if the characteristics of the water and its variations are not adequate.

It is recommended that the water filling the hydraulic circuits be filtered and treated, if necessary.

The units' hydraulic circuits are made of copper pipes. The exchanger plates are made of AISI-316 stainless steel, and the material used for soldering the plates is copper.

The following table indicates corrosion behaviour for copper and the AISI-316 stainless steel with regard to water with different compositions.

IMPORTANT: For open-circuit installations, if it is not possible to maintain the water conditions within the values indicated in the previous table, it will be necessary to install an exchanger that separates the unit's circuit from the water circuit to be treated by using materials compatible with these characteristics, whether stainless steel or titanium.

Water content	Concentration (mg/l)	AISI 316	Copper
Organic substances		+	0
Electrical conductivity	< 500 μ S/cm	+	+
	> 500 μ S/cm	+	-
NH ₃	< 2	+	+
	2 - 20	+	0
	> 20	+	-
Chlorides *	< 300	+	+
	> 300	0	+
Sulphites, chloride-free	< 5	0	+
	> 5	0/-	0
Iron in solution	< 10	+	+
	> 10	+	0
Free carbonic acid	< 20	+	0
	20 - 50	+	-
	50	+	-
Manganese in solution	< 1	+	+
	> 1	+	0
pH value	< 6	0	+
	6 - 9	0/+	+
	> 9	+	0
Oxygen	< 2	+	+
	> 2	+	+
Sulphates	< 70	+	+
	70 - 300	+	0
	> 300	-	-



Compact water-air rooftop units

TOTAL COOLING CAPACITY OF THE MRC RECOVERY CIRCUIT (OPTIONAL)

Outdoor temperature 35°C and water outlet temperature 35°C

RXF IXF	Outdoor air	% new air	Flow (m³/h)	Indoor air temperature																	
				20 °C / 50 % HR			23 °C / 50 % HR			25 °C / 50 % HR			27 °C / 50 % HR			29 °C / 50 % HR			31 °C / 50 % HR		
				Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa
415	20 °C 40 %	20	14400	100,60	73,34	28,71	106,10	74,55	29,45	109,90	75,16	29,97	113,80	75,62	30,47	117,80	75,95	30,92	121,90	76,17	31,28
			18000	107,40	82,52	28,22	112,80	83,94	28,91	116,50	84,68	29,41	120,40	85,22	29,89	124,30	85,63	30,32	128,50	85,91	30,66
			21600	109,40	89,13	28,05	116,00	91,37	28,63	120,50	92,61	29,09	125,10	93,66	29,58	129,70	94,53	30,05	134,50	95,14	30,47
		40	14400	101,50	75,95	27,30	105,90	76,73	27,84	108,80	76,97	28,23	111,80	76,98	28,61	114,90	76,80	28,94	118,00	76,46	29,19
			18000	108,20	85,17	27,10	112,40	86,02	27,59	115,30	86,35	27,97	118,20	86,51	28,33	121,30	86,41	28,65	124,40	86,05	28,88
			21600	109,90	91,82	27,07	115,10	93,29	27,46	118,60	93,99	27,81	122,10	94,47	28,18	125,60	94,74	28,54	129,30	94,75	28,85
		100	14400	99,81	81,45	26,20	99,41	81,25	26,49	99,14	81,12	26,71	98,86	80,97	26,92	98,58	80,83	27,07	98,29	80,68	27,13
			18000	106,10	91,07	26,30	105,70	90,81	26,57	105,30	90,64	26,79	105,00	90,47	26,99	104,70	90,29	27,13	104,40	90,11	27,19
			21600	107,60	97,92	26,41	107,10	97,68	26,61	106,80	97,54	26,82	106,50	97,38	27,04	106,20	97,23	27,25	105,90	97,06	27,39
	35 °C 40 %	20	14400	108,50	74,38	29,12	113,80	76,58	29,84	117,50	77,82	30,35	121,30	78,89	30,84	125,30	79,81	31,29	129,50	80,59	31,64
			18000	115,20	83,78	28,60	120,40	86,26	29,27	124,10	87,62	29,76	127,90	88,81	30,24	132,00	89,84	30,66	136,30	90,74	31,00
			21600	118,60	91,42	28,39	125,00	94,57	28,95	129,30	96,40	29,41	133,80	98,02	29,90	138,40	99,43	30,37	143,10	100,60	30,79
		40	14400	117,70	79,10	27,95	121,70	81,17	28,46	124,60	82,23	28,84	127,50	83,12	29,21	130,60	83,83	29,53	133,80	84,39	29,77
			18000	124,10	88,83	27,69	128,20	91,01	28,17	131,10	92,23	28,53	134,10	93,26	28,88	137,20	94,12	29,19	140,60	94,80	29,42
			21600	128,70	97,25	27,58	133,50	100,10	27,96	136,90	101,60	28,30	140,30	103,00	28,67	143,80	104,10	29,03	147,50	105,00	29,34
		100	14400	142,20	93,59	27,41	141,60	93,33	27,71	141,20	93,16	27,94	140,80	92,98	28,15	140,40	92,79	28,30	139,90	92,60	28,35
			18000	149,10	104,90	27,41	148,50	104,60	27,70	148,00	104,40	27,92	147,60	104,20	28,12	147,10	104,00	28,26	146,70	103,80	28,31
			21600	156,40	116,10	27,38	155,70	115,80	27,59	155,30	115,60	27,80	154,90	115,40	28,02	154,40	115,10	28,22	154,00	114,90	28,36
	55 °C 40 %	20	14400	124,60	66,11	29,97	129,00	69,66	30,60	132,40	72,13	31,09	136,10	74,39	31,56	140,10	76,45	31,99	144,40	78,33	32,33
			18000	131,30	74,14	29,40	135,80	78,46	30,01	139,30	81,32	30,48	143,10	83,94	30,94	147,20	86,33	31,35	151,60	88,50	31,69
			21600	136,40	81,40	29,13	141,90	86,86	29,65	145,90	90,27	30,10	150,20	93,38	30,58	154,70	96,20	31,05	159,40	98,73	31,48
		40	14400	148,00	70,14	29,19	151,40	73,77	29,63	154,40	76,37	30,07	157,50	78,77	30,36	160,90	80,97	30,68	164,50	82,97	30,92
			18000	154,80	78,58	28,88	158,50	83,07	29,32	161,60	86,10	29,67	164,90	88,89	30,03	168,50	91,45	30,34	172,30	93,78	30,58
			21600	161,80	86,99	28,71	166,10	92,43	29,07	169,40	95,92	29,42	172,90	99,12	29,81	176,60	102,00	30,18	180,60	104,60	30,52
100		14400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
420	20 °C 40 %	20	14400	100,80	74,09	27,48	106,70	75,60	28,10	110,60	76,35	28,53	114,60	76,93	28,98	118,70	77,35	29,44	122,90	77,64	29,92
			18000	106,90	83,63	26,93	113,00	85,37	27,52	117,00	86,27	27,94	121,10	86,98	28,38	125,40	87,53	28,83	129,70	87,93	29,29
			21600	110,90	91,85	26,58	117,40	94,24	27,16	121,70	95,56	27,57	126,20	96,64	27,99	130,70	97,48	28,43	135,40	98,16	28,87
		40	14400	101,80	76,83	26,10	106,40	77,67	26,56	109,50	77,94	26,89	112,60	78,02	27,23	115,70	77,89	27,58	118,90	77,59	27,94
			18000	107,60	86,36	25,84	112,30	87,49	26,29	115,40	87,88	26,60	118,60	88,03	26,93	121,80	87,96	27,26	125,10	87,69	27,61
			21600	111,40	94,53	25,67	116,30	96,09	26,11	119,70	96,84	26,41	123,10	97,37	26,73	126,50	97,60	27,05	130,10	97,50	27,38
		100	14400	99,92	82,63	25,13	99,55	82,48	25,42	99,30	82,36	25,61	99,04	82,24	25,81	98,79	82,12	26,00	98,54	82,00	26,20
			18000	105,40	92,28	25,10	105,00	92,07	25,38	104,70	91,93	25,57	104,40	91,77	25,76	104,20	91,62	25,95	103,90	91,46	26,14
			21600	108,90	100,70	25,08	108,40	100,50	25,35	108,20	100,30	25,54	107,90	100,20	25,72	107,60	100,00	25,90	107,30	99,86	26,08
	35 °C 40 %	20	14400	109,00	75,37	27,81	114,60	77,86	28,41	118,30	79,24	28,83	122,20	80,43	29,27	126,20	81,45	29,72	130,50	82,31	30,19
			18000	115,40	85,13	27,25	121,10	87,99	27,82	125,00	89,61	28,23	129,00	91,02	28,65	133,20	92,25	29,09	137,60	93,31	29,55
			21600	119,90	94,16	26,89	126,00	97,63	27,45	130,30	99,58	27,85	134,70	101,30	28,26	139,20	102,90	28,68	144,00	104,20	29,11
		40	14400	118,40	80,25	26,61	122,60	82,51	27,06	125,40	83,74	27,37	128,40	84,77	27,70	131,50	85,60	28,04	134,70	86,25	28,40
			18000	124,60	90,53	26,32	128,90	93,16	26,75	131,90	94,62	27,05	135,00	95,82	27,37	138,20	96,80	27,70	141,60	97,60	28,04
			21600	129,40	100,30	26,13	134,10	103,30	26,55	137,30	105,00	26,84	140,70	106,40	27,15	144,20	107,70	27,46	147,90	108,70	27,78
		100	14400	142,60	95,95	26,09	142,10	95,70	26,39	141,70	95,53	26,59	141,30	95,36	26,80	140,80	95,18	27,00	140,40	95,00	27,21
			18000	149,80	108,00	25,97	149,20	107,70	26,26	148,80	107,50	26,46	148,40	107,30	26,66	147,90	107,10	26,86	147,50	106,90	27,07
			21600	156,30	120,10	25,90	155,70	119,80	26,19	155,30	119,60	26,38	154,90	119,40	26,57	154,40	119,10	26,76	154,00	118,90	26,95
	55 °C 40 %	20	14400	126,00	67,78	28,58	130,40	71,41	29,08	133,50	73,60	29,44	137,10	75,85	29,84	141,10	78,04	30,26	145,30	80,04	30,69
			18000	132,60	76,14	27,96	137,10	80,39	28,44	140,60	83,26	28,81	144,50	86,07	29,20	148,60	88,64	29,61	153,10	91,00	30,03
			21600	137,70	84,28	27,57	142,80	89,51	28,05	146,70	93,10	28,42	151,00	96,40	28,80	155,50	99,44	29,19	160,40	102,20	29,60
		40	14400	149,60	72,26	27,67	152,90	76,01	28,02	155,40	78,29	28,28	158,00	80,39	28,56	161,30	82,65	28,86	164,80	84,81	29,19
			18000	156,50	81,27	27,31	160,00	85,66	27,65	162,50	88,34	27,90	165,80	91,31	28,18	169,30	94,06	28,49	173,00	96,57	28,81
			21600	162,70	90,40	27,09	166,50	95,47	27,42	169,70	99,11	27,68	173,20	102,50	27,96	177,10	105,70	28,25	181,20	108,60	28,55
100		14400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pft: Total cooling capacity (sum of the power of the main circuit and the recovery circuit) in kW
Pfs: Sensitive cooling capacity in kW
Pa: Compressor power input in kW



Compact water-air rooftop units

Space Aqua XF

TOTAL COOLING CAPACITY OF THE MRC RECOVERY CIRCUIT (OPTIONAL)

Outdoor temperature 35°C and water outlet temperature 35°C

RXF IXF	Outdoor air	% new air	Flow (m³/h)	Indoor air temperature																		
				20 °C / 50 % HR			23 °C / 50 % HR			25 °C / 50 % HR			27 °C / 50 % HR			29 °C / 50 % HR			31 °C / 50 % HR			
				Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	
480	20 °C 40 %	20	14560	107,00	76,71	32,29	112,50	77,90	33,07	116,30	78,44	33,62	120,20	78,83	34,15	124,40	79,08	34,63	128,70	79,21	35,01	
			18200	116,60	86,50	31,83	122,50	88,20	32,57	126,60	89,08	33,10	130,80	89,71	33,62	135,20	90,16	34,08	139,80	90,47	34,46	
			21600	120,50	94,60	31,70	127,50	96,87	32,32	132,20	98,06	32,82	136,90	99,02	33,34	141,70	99,75	33,85	146,60	100,20	34,30	
		40	14560	108,00	79,38	30,87	112,20	80,13	31,45	115,10	80,35	31,87	118,10	80,29	32,27	121,30	80,04	32,62	124,50	79,61	32,89	
			18200	117,20	89,18	30,70	121,80	90,25	31,24	125,00	90,69	31,64	128,20	90,91	32,04	131,60	90,87	32,38	135,00	90,52	32,63	
			21600	120,90	97,37	30,80	126,30	98,87	31,13	130,00	99,55	31,50	133,70	99,96	31,90	137,40	100,10	32,28	141,20	100,00	32,62	
		100	14560	106,20	85,10	29,75	105,70	84,91	30,04	105,40	84,78	30,27	105,10	84,64	30,48	104,90	84,50	30,63	104,50	84,35	30,68	
			18200	114,80	95,31	29,88	114,40	95,08	30,16	114,10	94,92	30,37	113,80	94,76	30,58	113,40	94,60	30,72	113,10	94,43	30,78	
			21600	118,20	103,90	30,01	117,80	103,60	30,21	117,50	103,50	30,42	117,20	103,40	30,65	116,90	103,20	30,85	116,50	103,10	31,00	
		35 °C 40 %	20	14560	114,80	77,66	32,75	120,20	79,83	33,51	124,00	81,02	34,05	128,00	82,03	34,57	132,30	82,89	35,05	136,80	83,61	35,44
				18200	125,00	88,04	32,28	130,80	90,75	32,99	134,80	92,21	33,51	139,00	93,48	34,02	143,40	94,58	34,48	148,10	95,52	34,86
				21600	130,20	96,85	32,10	136,80	100,00	32,70	141,30	101,70	33,19	145,80	103,20	33,71	150,50	104,50	34,22	155,40	105,50	34,70
	40		14560	124,00	82,36	31,63	128,20	84,41	32,18	131,20	85,42	32,57	134,40	86,26	32,97	137,70	86,93	33,31	141,20	87,44	33,58	
			18200	134,50	93,34	31,43	139,00	95,68	31,93	142,10	96,97	32,31	145,40	98,06	32,70	148,80	98,96	33,03	152,40	99,67	33,30	
			21600	140,40	102,70	31,33	145,40	105,40	31,74	148,80	106,90	32,11	152,30	108,20	32,51	155,90	109,10	32,90	159,60	109,90	33,26	
	100		14560	149,60	96,77	31,25	149,10	96,51	31,56	148,70	96,34	31,79	148,30	96,16	32,00	147,90	95,97	32,15	147,50	95,78	32,20	
			18200	160,90	110,10	31,32	160,30	109,80	31,61	159,90	109,60	31,83	159,40	109,40	32,03	159,00	109,20	32,17	158,50	109,00	32,22	
			21600	168,20	121,00	31,33	167,60	120,70	31,54	167,20	120,50	31,75	166,70	120,30	31,98	166,30	120,10	32,18	165,80	119,80	32,32	
	55 °C 40 %		20	14560	131,40	68,81	33,71	136,10	72,36	34,37	139,80	74,85	34,88	143,80	77,12	35,39	148,10	79,19	35,86	152,80	81,09	36,26
				18200	142,50	77,97	33,19	147,40	82,55	33,83	151,30	85,56	34,33	155,30	88,31	34,83	159,70	90,82	35,29	164,30	93,10	35,69
				21600	148,90	85,86	32,95	154,50	91,33	33,51	158,50	94,70	34,00	162,80	97,73	34,52	167,20	100,40	35,05	171,80	102,80	35,55
		40	14560	155,90	72,61	33,07	159,70	76,31	33,56	162,90	78,97	33,97	166,30	81,44	34,37	170,10	83,71	34,74	174,00	85,80	35,05	
			18200	167,50	82,55	32,82	171,40	87,25	33,30	174,50	90,44	33,70	177,90	93,37	34,10	181,60	96,07	34,47	185,50	98,55	34,78	
			21600	174,80	90,89	32,69	178,90	96,28	33,11	182,00	99,73	33,52	185,30	102,90	33,96	188,80	105,70	34,41	192,50	108,20	34,83	
100		14400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		18000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		21600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
485		20 °C 40 %	20	14560	108,20	77,61	30,07	113,10	78,56	30,68	116,80	79,10	31,12	120,80	79,57	31,58	125,20	79,97	32,07	129,80	80,30	32,59
				18200	111,10	85,74	29,55	117,20	87,69	30,14	121,60	88,83	30,58	126,30	89,86	31,04	131,30	90,75	31,52	136,50	91,52	32,03
				21840	116,20	94,67	29,27	122,50	96,69	29,86	127,10	97,92	30,28	132,00	99,00	30,72	137,10	99,90	31,18	142,50	100,70	31,67
	40		14560	109,50	80,56	28,71	113,10	80,88	29,16	115,80	80,91	29,49	118,70	80,79	29,83	121,90	80,55	30,19	125,20	80,17	30,57	
			18200	111,80	88,47	28,47	116,30	89,71	28,91	119,60	90,25	29,23	123,10	90,57	29,57	126,70	90,69	29,93	130,50	90,63	30,30	
			21840	116,60	97,46	28,37	121,40	98,68	28,80	124,80	99,29	29,11	128,40	99,74	29,44	132,10	99,95	29,78	136,10	99,86	30,13	
	100		14560	107,60	86,75	27,74	107,20	86,57	28,02	106,80	86,44	28,21	106,50	86,30	28,41	106,20	86,16	28,60	105,90	86,02	28,80	
			18200	109,50	94,53	27,72	109,10	94,33	27,99	108,80	94,18	28,18	108,50	94,04	28,37	108,20	93,89	28,56	107,90	93,73	28,75	
			21840	114,00	103,90	27,76	113,60	103,60	28,04	113,30	103,50	28,22	113,00	103,30	28,40	112,70	103,10	28,58	112,40	103,00	28,76	
	35 °C 40 %		20	14560	115,40	78,22	30,40	120,70	80,53	31,01	124,70	81,91	31,45	129,00	83,16	31,92	133,60	84,29	32,41	138,50	85,30	32,93
				18200	119,70	87,47	29,87	126,10	90,81	30,48	130,70	92,82	30,91	135,60	94,65	31,38	140,70	96,30	31,86	146,20	97,78	32,37
				21840	125,10	96,56	29,59	131,70	99,98	30,17	136,50	102,00	30,60	141,60	103,90	31,04	146,90	105,60	31,51	152,40	107,10	32,00
		40	14560	124,60	82,92	29,22	128,90	85,19	29,69	132,10	86,48	30,03	135,40	87,59	30,39	139,00	88,52	30,76	142,70	89,29	31,15	
			18200	129,60	93,35	28,98	134,70	96,45	29,45	138,40	98,25	29,78	142,20	99,76	30,13	146,10	101,10	30,50	150,30	102,20	30,88	
			21840	135,10	102,70	28,86	140,40	105,70	29,31	144,20	107,50	29,63	148,10	109,10	29,97	152,20	110,50	30,32	156,50	111,70	30,69	
		100	14560	151,10	99,29	28,89	150,60	99,06	29,19	150,20	98,91	29,39	149,80	98,74	29,60	149,40	98,58	29,81	149,00	98,41	30,02	
			18200	159,20	113,20	28,87	158,70	112,90	29,17	158,30	112,80	29,37	157,90	112,60	29,57	157,50	112,40	29,77	157,00	112,20	29,98	
			21840	165,50	123,50	28,86	164,90	123,20	29,16	164,50	123,00	29,35	164,10	122,70	29,55	163,70	122,50	29,74	163,20	122,30	29,93	
		55 °C 40 %	20	14560	132,70	70,00	31,23	137,60	73,80	31,77	141,40	76,13	32,16	145,70	78,60	32,61	150,40	80,99	33,09	155,40	83,19	33,59
				18200	138,50	78,75	30,67	144,20	83,61	31,20	148,70	86,95	31,61	153,60	90,21	32,06	158,70	93,21	32,54	164,10	95,94	33,04
				21840	144,10	86,28	30,34	150,20	91,77	30,87	154,90	95,57	31,28	159,90	99,10	31,72	165,20	102,30	32,18	170,70	105,30	32,67
	40		14560	158,50	74,77	30,49	162,60	78,76	30,90	165,60	81,19	31,21	168,80	83,43	31,53	172,50	85,86	31,90	176,50	88,12	32,29	
			18200	166,10	85,06	30,22	170,60	89,94	30,63	173,80	92,94	30,93	177,70	96,21	31,28	181,80	99,20	31,65	186,00	101,90	32,04	
			21840	172,10	92,84	30,05	176,50	98,16	30,45	180,20	102,00	30,78	184,20	105,60	31,12	188,30	108,90	31,48	192,70	111,80	31,85	
100	14400		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Pft: Total cooling capacity (sum of the power of the main circuit and the recovery circuit) in kW

Pfs: Sensitive cooling capacity in kW

Pa: Compressor power input in kW



Compact water-air rooftop units

TOTAL COOLING CAPACITY OF THE MRC RECOVERY CIRCUIT (OPTIONAL)

Outdoor temperature 35°C and water outlet temperature 35°C

RXF IXF	Outdoor air	% new air	Flow (m³/h)	Indoor air temperature																	
				20 °C / 50 % HR			23 °C / 50 % HR			25 °C / 50 % HR			27 °C / 50 % HR			29 °C / 50 % HR			31 °C / 50 % HR		
				Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa
540	20 °C 40 %	20	16320	125,00	87,07	37,37	131,30	88,74	38,24	135,90	89,71	38,85	140,70	90,54	39,48	145,90	91,20	40,14	151,30	91,68	40,82
			20400	132,20	100,70	36,49	139,10	102,60	37,33	144,20	103,60	37,94	149,50	104,60	38,57	155,10	105,30	39,22	160,90	105,90	39,91
			24480	137,90	111,60	35,86	145,10	113,80	36,70	150,30	115,10	37,30	155,80	116,30	37,93	161,60	117,20	38,58	167,70	118,00	39,26
		40	16320	126,60	92,09	35,00	131,60	92,83	35,65	135,10	93,09	36,12	138,80	93,15	36,61	142,70	92,97	37,12	146,70	92,58	37,65
			20400	133,50	104,60	34,58	138,90	105,50	35,20	142,70	105,90	35,65	146,70	106,10	36,13	150,90	106,10	36,63	155,30	105,80	37,16
			24480	138,80	115,00	34,26	144,30	116,50	34,88	148,30	117,20	35,34	152,50	117,50	35,81	156,80	117,60	36,31	161,30	117,40	36,84
		100	16320	124,60	99,91	33,46	124,20	99,78	33,85	123,90	99,67	34,12	123,50	99,54	34,39	123,10	99,38	34,68	122,70	99,18	34,97
			20400	131,00	112,00	33,40	130,50	111,80	33,77	130,20	111,60	34,03	129,80	111,50	34,30	129,50	111,30	34,57	129,10	111,10	34,86
			24480	135,80	122,70	33,37	135,40	122,50	33,72	135,00	122,30	33,97	134,70	122,10	34,23	134,30	121,90	34,50	133,90	121,60	34,78
	35 °C 40 %	20	16320	134,10	88,60	37,76	140,70	91,80	38,66	145,50	93,67	39,28	150,50	95,31	39,93	155,80	96,73	40,60	161,40	97,93	41,29
			20400	142,20	102,40	36,88	149,50	105,90	37,76	154,60	107,90	38,38	160,10	109,80	39,03	165,80	111,40	39,70	171,80	112,80	40,40
			24480	148,20	113,60	36,27	155,70	117,60	37,14	161,10	120,00	37,76	166,80	122,10	38,41	172,80	124,00	39,08	179,00	125,70	39,77
		40	16320	146,30	96,05	35,66	151,60	98,88	36,36	155,50	100,40	36,85	159,40	101,80	37,36	163,50	102,80	37,89	167,70	103,60	38,45
			20400	154,70	109,30	35,23	160,50	112,60	35,91	164,60	114,50	36,39	168,80	116,00	36,90	173,10	117,30	37,43	177,60	118,40	37,99
			24480	160,60	121,00	34,96	166,70	124,80	35,62	170,90	126,90	36,10	175,30	128,60	36,60	179,90	130,20	37,12	184,60	131,40	37,67
		100	16320	178,20	115,90	35,05	177,70	115,70	35,43	177,20	115,50	35,70	176,70	115,30	35,97	176,20	115,10	36,26	175,60	114,90	36,55
			20400	188,40	131,30	35,02	187,70	131,00	35,38	187,30	130,80	35,63	186,80	130,60	35,90	186,20	130,40	36,18	185,70	130,10	36,47
			24480	195,40	145,40	35,05	194,80	145,10	35,39	194,30	144,80	35,63	193,80	144,60	35,89	193,20	144,30	36,16	192,60	144,10	36,44
	55 °C 40 %	20	16320	156,40	81,34	38,89	162,20	85,92	39,71	166,40	88,69	40,29	170,90	91,24	40,89	175,80	93,56	41,52	180,90	95,67	42,17
			20400	164,70	92,20	37,93	170,90	97,42	38,74	175,50	100,60	39,32	180,80	104,10	39,96	186,30	107,30	40,62	192,10	110,10	41,30
			24480	170,90	101,80	37,30	177,40	107,80	38,10	182,60	112,10	38,71	188,10	116,10	39,34	193,90	119,70	40,00	200,00	123,00	40,68
		40	16320	187,30	87,45	37,38	191,80	91,93	38,01	195,00	94,64	38,45	198,40	97,13	38,92	201,90	99,39	39,41	206,10	101,90	39,95
			20400	197,20	98,83	36,94	201,80	104,10	37,54	205,10	107,30	37,98	208,90	110,60	38,47	213,10	113,80	39,00	217,50	116,80	39,55
			24480	204,00	109,30	36,67	208,70	115,40	37,26	212,50	119,40	37,70	216,70	123,50	38,20	221,10	127,20	38,72	225,80	130,50	39,26
100		16320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		20400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		24480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
600	20 °C 40 %	20	19200	139,10	101,00	39,85	146,30	102,70	40,68	151,60	103,80	41,28	157,20	104,60	41,91	163,00	105,30	42,57	169,20	105,80	43,25
			24000	146,50	114,70	39,07	154,40	116,80	39,89	160,10	118,10	40,47	166,10	119,20	41,09	172,40	120,10	41,75	178,90	120,80	42,43
			28800	152,20	126,00	38,59	160,30	128,80	39,39	166,20	130,50	39,97	172,30	132,00	40,58	178,80	133,10	41,22	185,50	134,10	41,88
		40	19200	140,40	105,20	37,81	146,00	106,00	38,43	150,00	106,30	38,88	154,20	106,40	39,36	158,60	106,30	39,86	163,20	105,90	40,40
			24000	147,30	118,20	37,44	153,40	119,60	38,05	157,70	120,20	38,49	162,30	120,50	38,95	167,00	120,50	39,45	171,80	120,20	39,97
			28800	152,60	129,60	37,22	158,90	131,40	37,81	163,30	132,30	38,24	168,00	133,00	38,70	172,80	133,30	39,19	177,80	133,10	39,70
		100	19200	137,70	113,00	36,52	137,20	112,80	36,89	136,90	112,70	37,15	136,60	112,60	37,42	136,20	112,40	37,70	135,80	112,20	37,99
			24000	144,10	126,20	36,50	143,70	125,90	36,85	143,30	125,80	37,10	143,00	125,60	37,36	142,60	125,40	37,63	142,20	125,20	37,91
			28800	149,00	138,00	36,50	148,60	137,70	36,83	148,30	137,60	37,07	147,90	137,40	37,32	147,50	137,20	37,58	147,00	137,00	37,85
	35 °C 40 %	20	19200	149,50	102,50	40,23	157,00	105,90	41,10	162,50	107,90	41,72	168,20	109,70	42,37	174,20	111,30	43,04	180,50	112,60	43,73
			24000	157,80	116,60	39,45	165,90	120,60	40,31	171,80	122,90	40,92	177,90	125,00	41,56	184,30	126,90	42,23	191,00	128,50	42,92
			28800	163,70	128,70	38,98	172,10	133,30	39,82	178,20	136,00	40,41	184,50	138,40	41,04	191,20	140,60	41,70	198,10	142,60	42,38
		40	19200	162,40	109,50	38,44	168,40	112,70	39,12	172,70	114,50	39,61	177,10	116,00	40,12	181,70	117,20	40,65	186,50	118,20	41,20
			24000	170,90	124,00	38,09	177,40	127,80	38,75	181,90	129,80	39,22	186,70	131,60	39,71	191,60	133,00	40,24	196,70	134,30	40,79
			28800	176,70	136,80	37,88	183,50	140,90	38,51	188,30	143,30	38,97	193,20	145,40	39,46	198,30	147,10	39,98	203,60	148,60	40,52
		100	19200	197,40	131,10	38,10	196,70	130,90	38,47	196,30	130,70	38,73	195,80	130,50	38,99	195,30	130,30	39,27	194,70	130,00	39,57
			24000	207,80	148,30	38,11	207,10	148,00	38,45	206,60	147,80	38,70	206,10	147,60	38,95	205,60	147,30	39,22	205,00	147,10	39,51
			28800	214,90	163,90	38,14	214,30	163,60	38,46	213,80	163,40	38,70	213,30	163,10	38,94	212,80	162,90	39,20	212,20	162,60	39,47
	55 °C 40 %	20	19200	173,30	92,47	41,32	179,80	97,58	42,12	184,60	100,70	42,69	190,00	103,80	43,31	195,90	106,90	43,97	202,10	109,70	44,65
			24000	182,10	104,20	40,49	189,10	110,20	41,28	194,80	114,60	41,88	200,70	118,60	42,51	207,00	122,20	43,16	213,60	125,50	43,84
			28800	188,30	115,00	39,99	195,90	122,30	40,78	201,70	127,30	41,38	208,00	131,90	42,00	214,50	136,10	42,65	221,40	140,00	43,33
		40	19200	207,10	98,82	40,19	212,00	103,90	40,80	215,60	107,00	41,23	219,60	110,10	41,70	224,10	113,30	42,22	228,90	116,10	42,76
			24000	217,20	111,60	39,82	222,40	117,70	40,40	226,40	121,70	40,84	230,90	125,70	41,33	235,70	129,40	41,84	240,80	132,80	42,38
			28800	223,90	123,30	39,60	229,40	130,50	40,18	234,10	135,60	40,64	239,00	140,20	41,13	244,10	144,50	41,64	249,50	148,40	42,17
100		16320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		20400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		24480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Pft: Total cooling capacity (sum of the power of the main circuit and the recovery circuit) in kW
Pfs: Sensitive cooling capacity in kW
Pa: Compressor power input in kW



Compact water-air rooftop units

Space Aqua XF

TOTAL COOLING CAPACITY OF THE MRC RECOVERY CIRCUIT (OPTIONAL)

Outdoor temperature 35°C and water outlet temperature 35°C

RXF IXF	Outdoor air	% new air	Flow (m³/h)	Indoor air temperature																	
				20 °C / 50 % HR			23 °C / 50 % HR			25 °C / 50 % HR			27 °C / 50 % HR			29 °C / 50 % HR			31 °C / 50 % HR		
				Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa	Pft	Pfs	Pa
650	20 °C 40 %	20	22000	153,50	112,20	42,34	161,70	114,10	43,21	167,50	115,20	43,85	173,70	116,10	44,54	180,20	116,80	45,27	187,00	117,30	46,02
			27500	162,00	125,90	41,64	170,50	128,30	42,53	176,70	129,70	43,19	183,20	130,80	43,89	190,00	131,80	44,63	197,10	132,60	45,39
			33000	168,10	137,30	41,20	176,90	140,20	42,07	183,30	142,00	42,72	190,00	143,70	43,42	197,10	145,10	44,16	204,40	146,10	44,93
		40	22000	155,10	116,10	40,38	161,40	117,10	41,05	165,80	117,50	41,55	170,50	117,50	42,09	175,30	117,30	42,66	180,20	116,80	43,26
			27500	163,10	129,90	39,94	169,60	131,40	40,63	174,30	132,10	41,15	179,20	132,40	41,69	184,20	132,30	42,27	189,40	132,00	42,88
			33000	168,80	141,40	39,72	175,60	143,20	40,39	180,40	144,20	40,90	185,50	144,90	41,44	190,70	145,30	42,03	196,10	145,20	42,64
		100	22000	152,10	124,90	38,84	151,70	124,70	39,27	151,40	124,60	39,57	151,00	124,40	39,89	150,60	124,20	40,22	150,10	123,90	40,56
			27500	159,70	138,70	38,75	159,30	138,40	39,14	158,90	138,20	39,43	158,50	138,00	39,73	158,00	137,70	40,06	157,50	137,40	40,40
			33000	164,90	150,50	38,80	164,40	150,30	39,17	164,00	150,10	39,45	163,50	149,90	39,75	163,00	149,60	40,07	162,40	149,40	40,41
	35 °C 40 %	20	22000	165,00	113,60	42,71	173,40	117,40	43,66	179,50	119,60	44,36	185,80	121,50	45,09	192,40	123,20	45,85	199,40	124,60	46,64
			27500	174,10	127,90	42,07	182,90	132,30	43,04	189,20	134,80	43,74	195,90	137,10	44,48	202,80	139,20	45,25	210,10	141,00	46,05
			33000	180,50	140,30	41,65	189,70	145,00	42,59	196,30	147,90	43,28	203,20	150,50	44,02	210,50	152,90	44,79	218,00	155,10	45,59
		40	22000	179,30	120,60	41,06	186,00	124,20	41,85	190,60	126,20	42,41	195,40	127,90	43,01	200,40	129,30	43,64	205,60	130,40	44,29
			27500	188,50	136,10	40,75	195,50	140,30	41,54	200,40	142,60	42,11	205,50	144,60	42,71	210,70	146,20	43,34	216,10	147,60	44,00
			33000	195,10	149,40	40,56	202,40	153,80	41,33	207,50	156,30	41,89	212,80	158,60	42,49	218,30	160,50	43,12	224,00	162,10	43,78
		100	22000	218,00	145,80	40,97	217,20	145,50	41,35	216,60	145,20	41,63	216,00	144,90	41,92	215,30	144,60	42,24	214,60	144,20	42,57
			27500	229,10	164,10	41,09	228,30	163,50	41,44	227,60	163,20	41,70	227,00	162,80	41,99	226,30	162,40	42,30	225,50	162,00	42,63
			33000	237,30	180,00	41,23	236,40	179,40	41,55	235,80	179,00	41,80	235,10	178,60	42,08	234,40	178,10	42,38	233,60	177,60	42,70
	55 °C 40 %	20	22000	193,10	102,50	44,19	200,00	108,50	45,04	205,00	112,00	45,67	210,40	115,20	46,35	216,30	118,20	47,07	222,70	121,10	47,85
			27500	202,50	115,70	43,50	209,40	122,20	44,36	214,70	126,20	45,00	220,50	130,00	45,69	227,20	134,10	46,46	234,40	137,90	47,26
			33000	208,90	127,00	43,01	216,20	134,30	43,86	222,00	139,00	44,53	228,60	144,10	45,27	235,60	148,70	46,05	243,10	152,90	46,86
		40	22000	230,20	110,20	43,48	236,00	116,70	44,20	240,30	120,60	44,74	243,80	123,80	45,27	247,80	126,60	45,84	252,10	129,20	46,46
			27500	241,10	125,60	43,17	246,70	132,40	43,86	250,10	136,20	44,35	254,00	139,70	44,89	258,20	142,90	45,47	263,30	146,50	46,12
			33000	249,00	138,80	42,97	253,90	145,80	43,63	257,60	150,10	44,14	261,80	154,10	44,70	267,20	158,80	45,35	272,80	163,00	46,03
100		22000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		27500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		33000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
720	20 °C 40 %	20	24000	170,70	124,00	48,72	179,40	126,20	49,88	185,80	127,30	50,66	192,70	128,20	51,44	199,90	128,90	52,22	207,50	129,40	53,00
			30000	179,60	138,60	48,32	189,10	141,00	49,39	196,00	142,50	50,12	203,30	143,60	50,86	210,90	144,60	51,61	218,90	145,40	52,35
			36000	186,40	150,80	48,01	196,00	153,90	49,02	203,00	155,80	49,72	210,60	157,50	50,43	218,50	158,90	51,16	226,70	160,10	51,89
		40	24000	172,00	128,10	46,80	178,70	129,30	47,71	183,50	129,70	48,33	188,50	129,70	48,97	193,80	129,50	49,62	199,40	128,90	50,29
			30000	180,30	142,80	46,69	187,60	144,20	47,52	192,80	144,90	48,11	198,30	145,30	48,73	203,90	145,20	49,35	209,80	144,70	49,98
			36000	186,80	155,00	46,61	194,20	157,10	47,39	199,50	158,10	47,95	205,10	158,80	48,53	210,90	159,10	49,14	216,90	159,20	49,76
		100	24000	168,40	137,40	45,31	168,00	137,20	45,73	167,70	137,00	46,03	167,30	136,80	46,35	166,80	136,60	46,69	166,30	136,40	47,04
			30000	176,30	152,30	45,56	175,80	152,00	45,94	175,50	151,80	46,23	175,00	151,60	46,54	174,50	151,40	46,86	174,00	151,20	47,21
			36000	181,90	165,20	45,73	181,40	165,00	46,10	181,00	164,80	46,38	180,60	164,60	46,68	180,00	164,30	46,99	179,40	164,00	47,33
	35 °C 40 %	20	24000	183,00	125,50	49,44	192,20	129,60	50,55	198,90	131,90	51,30	206,00	134,00	52,06	213,50	135,70	52,81	221,30	137,20	53,56
			30000	192,90	140,60	48,98	202,80	145,20	50,02	209,90	147,80	50,72	217,40	150,10	51,43	225,20	152,30	52,15	233,40	154,30	52,88
			36000	199,80	153,90	48,63	210,00	158,90	49,61	217,40	161,90	50,28	225,20	164,60	50,97	233,40	167,10	51,67	242,00	169,40	52,38
		40	24000	198,10	133,00	48,07	205,40	136,90	48,91	210,60	139,00	49,50	216,00	140,80	50,10	221,60	142,20	50,70	227,40	143,30	51,32
			30000	208,40	149,10	47,86	216,20	153,50	48,64	221,70	155,80	49,18	227,40	157,90	49,75	233,30	159,60	50,33	239,40	161,10	50,92
			36000	215,40	163,30	47,69	223,60	168,00	48,43	229,40	170,70	48,95	235,40	173,00	49,49	241,60	175,00	50,06	248,00	176,70	50,64
		100	24000	240,30	159,40	48,10	239,50	159,00	48,45	239,00	158,70	48,72	238,40	158,40	49,00	237,70	158,00	49,30	237,00	157,70	49,62
			30000	252,80	178,70	48,08	251,90	178,20	48,40	251,30	177,90	48,65	250,60	177,50	48,92	249,90	177,10	49,21	249,20	176,60	49,53
			36000	261,80	195,50	48,06	261,00	194,90	48,37	260,30	194,50	48,61	259,70	194,10	48,87	259,00	193,60	49,15	258,20	193,10	49,46
	55 °C 40 %	20	24000	213,70	112,70	51,24	221,10	119,10	52,09	226,70	122,80	52,68	232,80	126,20	53,30	239,60	129,50	53,93	247,20	133,00	54,61
			30000	224,00	126,40	50,59	231,80	133,40	51,38	237,70	137,70	51,95	244,60	142,50	52,58	252,10	147,00	53,24	260,00	151,30	53,90
			36000	230,70	138,60	50,12	239,00	146,40	50,89	245,90	152,10	51,49	253,50	157,50	52,11	261,40	162,40	52,76	269,80	166,90	53,42
		40	24000	253,90	120,60	50,73	260,60	127,60	51,33	264,70	131,50	51,72	268,80	134,90	52,13	273,30	137,90	52,56	278,10	140,70	53,02
			30000	266,40	136,70	50,33	271,90	144,00	50,83	275,80	148,30	51,19	280,00	152,30	51,59	285,00	156,50	52,04	290,80	160,90	52,56
			36000	274,40	150,60	50,04	280,10	158,20	50,50	284,40	162,80	50,87	289,80	167,90	51,31	295,90	172,90	51,80	302,20	177,50	52,32
100		24000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		30000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		36000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Pft: Total cooling capacity (sum of the power of the main circuit and the recovery circuit) in kW

Pfs: Sensitive cooling capacity in kW

Pa: Compressor power input in kW



Compact water-air rooftop units

TOTAL HEATING CAPACITY OF THE MRC RECOVERY CIRCUIT (OPTIONAL)

Indoor temperature 20°C and water inlet temperature 15°C

IXF	% new air	Flow (m³/h)	Outdoor air temperature											
			-40°C BH		-15°C BH		-10°C BH		0°C BH		6°C BH		15°C BH	
			Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa
415	20	14400	148,00	30,03	143,10	34,35	142,30	35,05	139,70	36,67	138,90	37,56	137,70	38,88
		18000	153,40	27,34	148,30	31,32	147,40	32,04	145,20	33,42	143,80	34,30	142,80	35,47
		21600	157,50	25,53	152,10	29,28	151,30	30,02	149,40	31,26	147,60	32,10	146,50	33,21
	40	14400	-	-	151,20	30,06	149,30	31,53	146,00	34,50	143,70	36,14	140,80	38,74
		18000	-	-	156,70	27,29	154,70	28,67	151,20	31,38	149,30	32,86	145,80	35,28
		21600	-	-	160,90	25,44	158,80	26,76	155,10	29,28	153,20	30,76	149,40	33,01
	100	14400	-	-	-	-	-	-	-	-	153,30	31,74	145,70	37,47
		18000	-	-	-	-	-	-	-	-	158,80	28,81	151,30	34,03
		21600	-	-	-	-	-	-	-	-	163,00	26,84	155,60	31,71
420	20	14560	149,40	29,53	144,50	33,78	143,70	34,47	141,00	36,09	140,30	36,96	139,00	38,27
		18200	154,20	27,09	149,00	31,03	148,20	31,73	145,90	33,11	144,60	33,97	143,50	35,14
		21600	158,20	25,38	152,70	29,08	151,90	29,81	150,00	31,05	148,20	31,89	147,10	32,99
	40	14560	-	-	152,90	29,59	151,00	31,04	147,60	33,96	145,20	35,60	142,30	38,16
		18200	-	-	157,70	27,07	155,70	28,43	152,20	31,11	150,30	32,57	146,70	34,98
		21600	-	-	161,60	25,29	159,60	26,59	155,80	29,10	153,90	30,56	150,20	32,79
	100	14560	-	-	-	-	-	-	-	-	155,20	31,26	147,50	36,92
		18200	-	-	-	-	-	-	-	-	160,00	28,57	152,30	33,76
		21600	-	-	-	-	-	-	-	-	164,40	26,78	156,90	31,64
480	20	14560	160,20	34,77	154,90	39,76	154,00	40,57	151,20	42,44	150,40	43,47	149,10	45,00
		18200	166,70	31,54	161,00	36,13	160,10	36,95	157,70	38,54	156,20	39,55	155,10	40,90
		21600	170,90	29,30	165,00	33,57	164,10	34,43	162,00	35,83	160,10	36,80	158,90	38,07
	40	14560	-	-	163,50	34,78	161,40	36,48	157,80	39,91	155,40	41,79	152,10	44,80
		18200	-	-	170,00	31,46	167,80	33,04	163,90	36,16	162,00	37,86	158,10	40,65
		21600	-	-	174,30	29,17	172,10	30,67	168,00	33,56	166,00	35,25	161,90	37,81
	100	14560	-	-	-	-	-	-	-	-	165,40	36,67	157,20	43,28
		18200	-	-	-	-	-	-	-	-	172,00	33,16	163,80	39,16
		21600	-	-	-	-	-	-	-	-	176,20	30,73	168,30	36,30
485	20	14560	160,90	33,45	155,60	38,26	154,70	39,04	151,80	40,85	151,00	41,84	149,70	43,32
		18200	167,90	31,06	162,20	35,56	161,30	36,37	158,80	37,94	157,30	38,93	156,10	40,27
		21840	172,00	29,10	166,10	33,33	165,20	34,17	163,10	35,58	161,20	36,54	159,90	37,80
	40	14560	-	-	164,40	33,49	162,30	35,13	158,70	38,43	156,10	40,27	153,00	43,17
		18200	-	-	171,40	31,01	169,20	32,56	165,30	35,63	163,30	37,29	159,40	40,05
		21840	-	-	175,50	28,97	173,30	30,46	169,20	33,32	167,10	34,99	163,00	37,54
	100	14560	-	-	-	-	-	-	-	-	166,50	35,33	158,30	41,73
		18200	-	-	-	-	-	-	-	-	173,60	32,69	165,20	38,61
		21840	-	-	-	-	-	-	-	-	178,10	30,64	170,00	36,18
540	20	16320	188,90	38,97	182,80	44,57	181,50	45,57	178,50	47,75	177,60	48,91	175,80	50,71
		20400	196,80	35,57	190,40	40,74	189,30	41,59	186,00	43,54	184,80	44,64	183,30	46,24
		24480	202,80	33,28	196,00	38,12	195,00	39,00	192,00	40,73	190,20	41,81	188,80	43,29
	40	16320	-	-	193,40	39,20	191,00	41,08	187,00	44,89	183,30	47,24	180,20	50,66
		20400	-	-	201,20	35,67	198,80	37,39	194,50	40,93	191,60	42,89	187,60	46,06
		24480	-	-	207,10	33,30	204,60	34,93	200,10	38,21	197,70	40,03	193,00	43,04
	100	16320	-	-	-	-	-	-	-	-	196,20	41,41	187,10	49,00
		20400	-	-	-	-	-	-	-	-	204,20	37,63	194,30	44,50
		24480	-	-	-	-	-	-	-	-	210,10	35,10	200,30	41,48
600	20	19200	211,40	41,78	204,50	47,81	203,30	48,80	199,40	51,13	198,50	52,38	196,70	54,27
		24000	219,00	38,16	211,70	43,69	210,50	44,68	207,20	46,66	205,30	47,89	203,80	49,57
		28800	224,90	35,80	217,20	41,03	216,10	42,07	213,20	43,84	210,70	45,05	209,20	46,63
	40	19200	-	-	215,90	41,89	213,20	43,91	208,60	48,04	205,20	50,37	201,10	54,06
		24000	-	-	223,40	38,15	220,70	40,02	215,70	43,77	213,10	45,83	208,10	49,27
		28800	-	-	229,40	35,72	226,60	37,51	221,40	41,02	218,80	43,09	213,40	46,29
	100	19200	-	-	-	-	-	-	-	-	218,60	44,16	208,00	52,21
		24000	-	-	-	-	-	-	-	-	226,20	40,17	215,50	47,46
		28800	-	-	-	-	-	-	-	-	232,10	37,59	221,70	44,42

Pc: Total heating capacity (sum of the power of the main circuit and the recovery circuit) in kW

Pa: Compressor power input in kW

TOTAL HEATING CAPACITY OF THE MRC RECOVERY CIRCUIT (OPTIONAL)

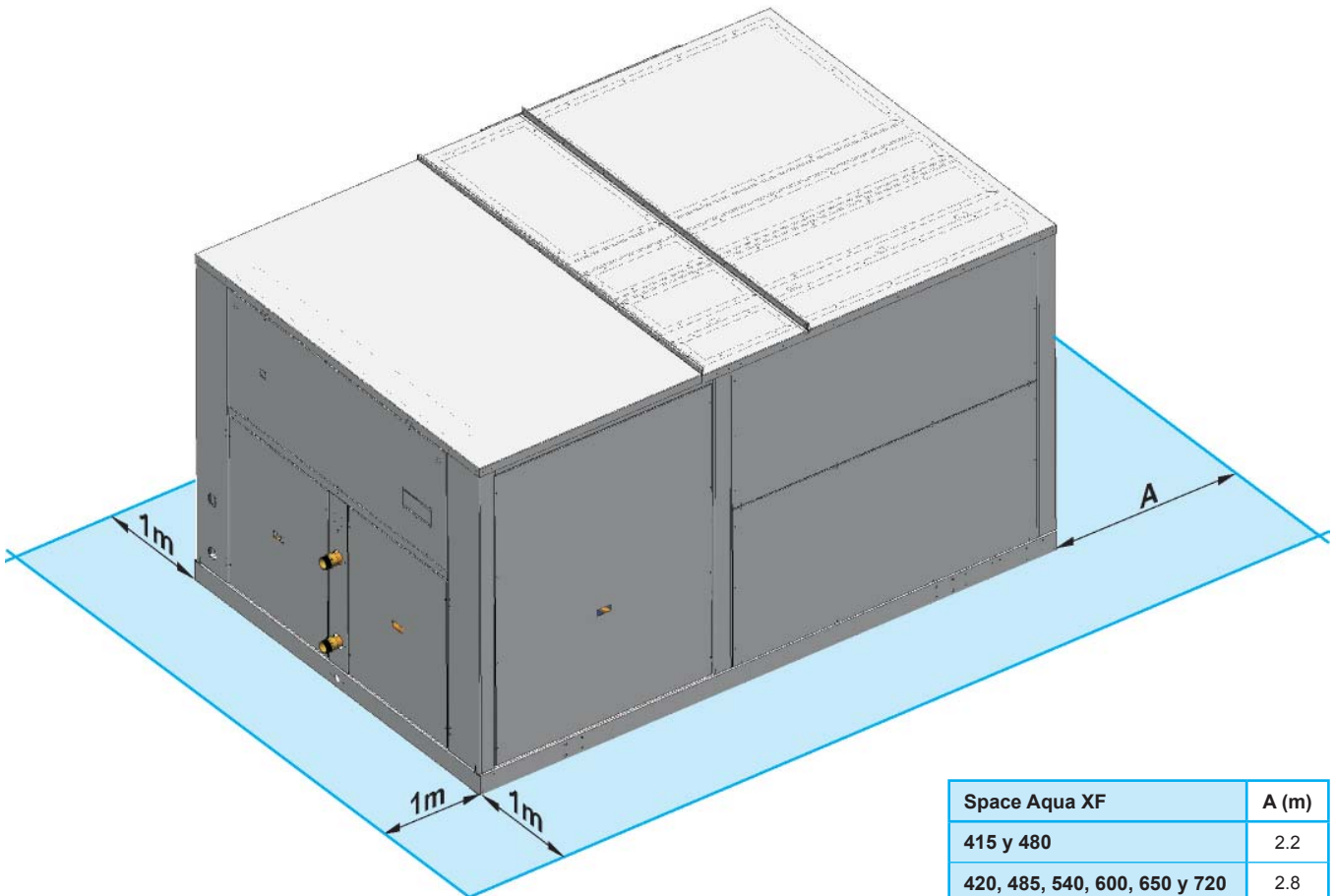
Indoor temperature 20°C and water inlet temperature 15°C

IXF	% new air	Flow (m³/h)	Outdoor air temperature											
			-40°C BH		-15°C BH		-10°C BH		0°C BH		6°C BH		15°C BH	
			Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa	Pc	Pa
650	20	22000	236,40	43,51	228,70	49,67	227,50	50,70	223,20	53,12	222,20	54,41	220,10	56,38
		27500	244,50	40,46	236,40	46,20	235,10	47,20	231,30	49,31	229,40	50,57	227,70	52,35
		33000	250,50	38,37	242,00	43,74	240,70	44,80	237,50	46,68	234,70	47,94	233,20	49,60
	40	22000	-	-	241,70	43,69	238,70	45,76	233,60	49,99	229,60	52,45	225,20	56,25
		27500	-	-	249,80	40,50	246,70	42,42	241,10	46,35	238,00	48,51	232,70	52,09
		33000	-	-	255,80	38,34	252,60	40,17	246,80	43,82	243,90	45,95	238,00	49,32
	100	22000	-	-	-	-	-	-	-	-	245,00	46,12	233,20	54,36
		27500	-	-	-	-	-	-	-	-	253,30	42,72	241,00	50,28
		33000	-	-	-	-	-	-	-	-	259,40	40,41	247,50	47,46
720	20	24000	268,00	52,32	259,20	59,74	257,70	60,97	252,90	63,80	251,60	65,37	249,40	67,69
		30000	276,70	48,79	267,30	55,68	265,80	56,95	261,90	59,40	259,20	60,96	257,40	63,07
		36000	283,20	46,29	273,50	52,77	272,00	54,10	268,60	56,30	265,50	57,82	263,30	59,84
	40	24000	-	-	273,30	52,38	269,90	54,87	264,00	59,99	259,80	62,83	254,50	67,39
		30000	-	-	282,00	48,72	278,50	51,05	272,10	55,74	268,80	58,36	262,40	62,67
		36000	-	-	288,70	46,17	285,10	48,40	278,40	52,77	275,10	55,41	268,30	59,43
	100	24000	-	-	-	-	-	-	-	-	276,40	55,18	262,70	65,04
		30000	-	-	-	-	-	-	-	-	285,20	51,28	271,70	60,33
		36000	-	-	-	-	-	-	-	-	291,90	48,54	278,80	57,02

Pc: Total heating capacity (sum of the power of the main circuit and the recovery circuit) in kW

Pa: Compressor power input in kW

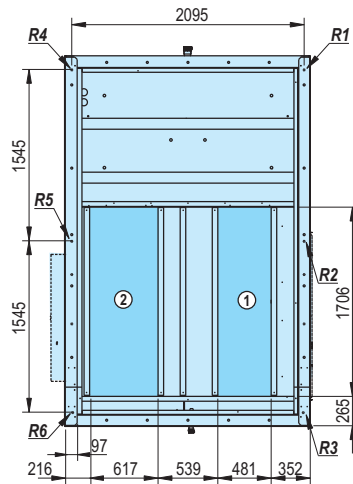
MINIMUM FREE SPACE REQUIRED FOR OPERATION AND MAINTENANCE



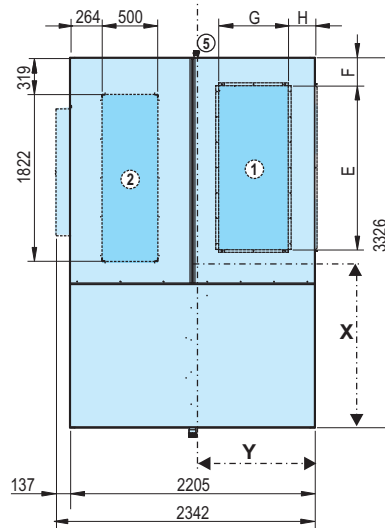
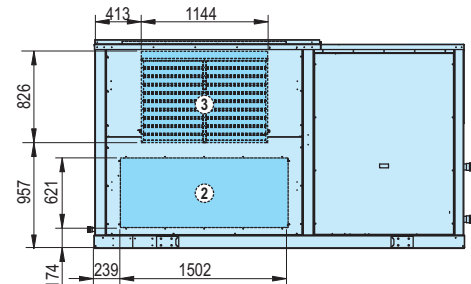
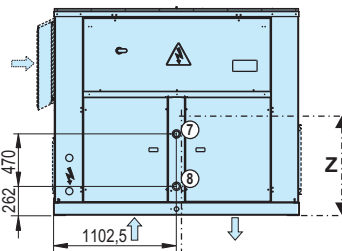
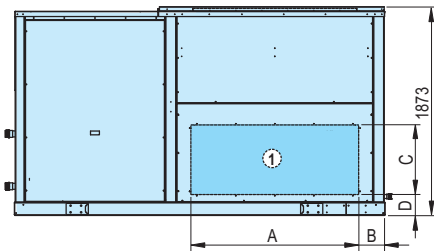
DIMENSIONS SCHEMES

Space Aqua XF - 415 and 480, M0 and MS assemblies (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
415	M0	1.544	1.028	695	1.514
	MS	1.586	1.072	700	1.590
480	M0	1.525	1.012	674	1.580
	MS	1.567	1.055	681	1.656



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
415	M0	244	381	186	208	345	150
	MS	235	389	195	219	373	180
480	M0	264	401	193	218	356	148
	MS	254	409	202	229	384	177



LEGEND

- Indoor air circulation standard
- New air inlet optional
- Electric panel
- Electric power supply
- Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Standard return
- ② Optional return
- ③ Optional new air intake
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

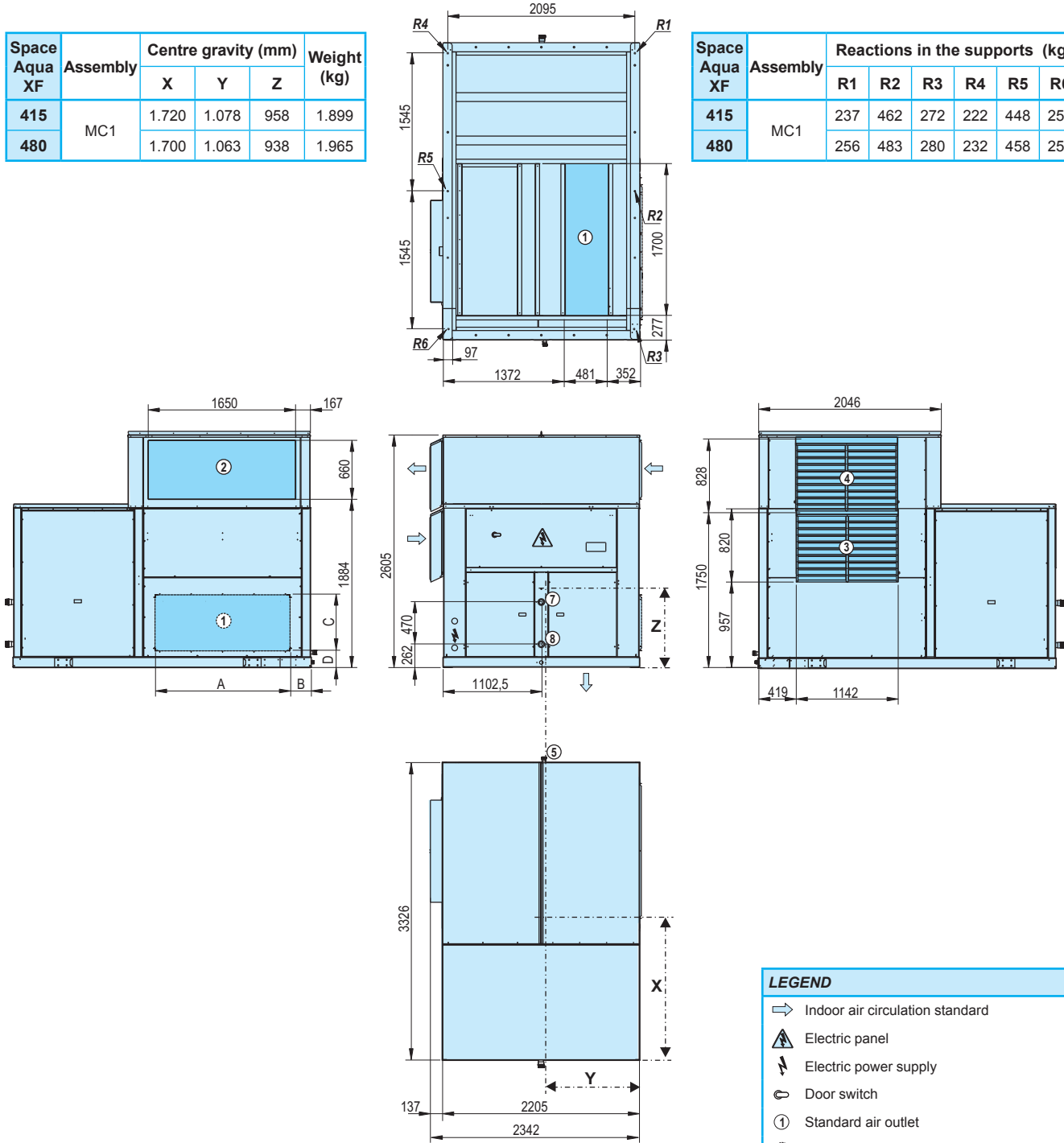
Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

Outlet fan	Dimensions (mm)							
	A	B	C	D	E	F	G	H
Centrif.	1502	239	621	189	1472	253	628	241
Plug-fan	1502	239	611	195	1503	319	332	373

Space Aqua XF - 415 and 480, MC1 assembly (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
415	MC1	1.720	1.078	958	1.899
480		1.700	1.063	938	1.965

Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
415	MC1	237	462	272	222	448	257
480		256	483	280	232	458	255



Outlet fan	Dimensions (mm)			
	A	B	C	D
Centrif.	1502	239	621	189
Plug-fan	1502	239	611	195

LEGEND

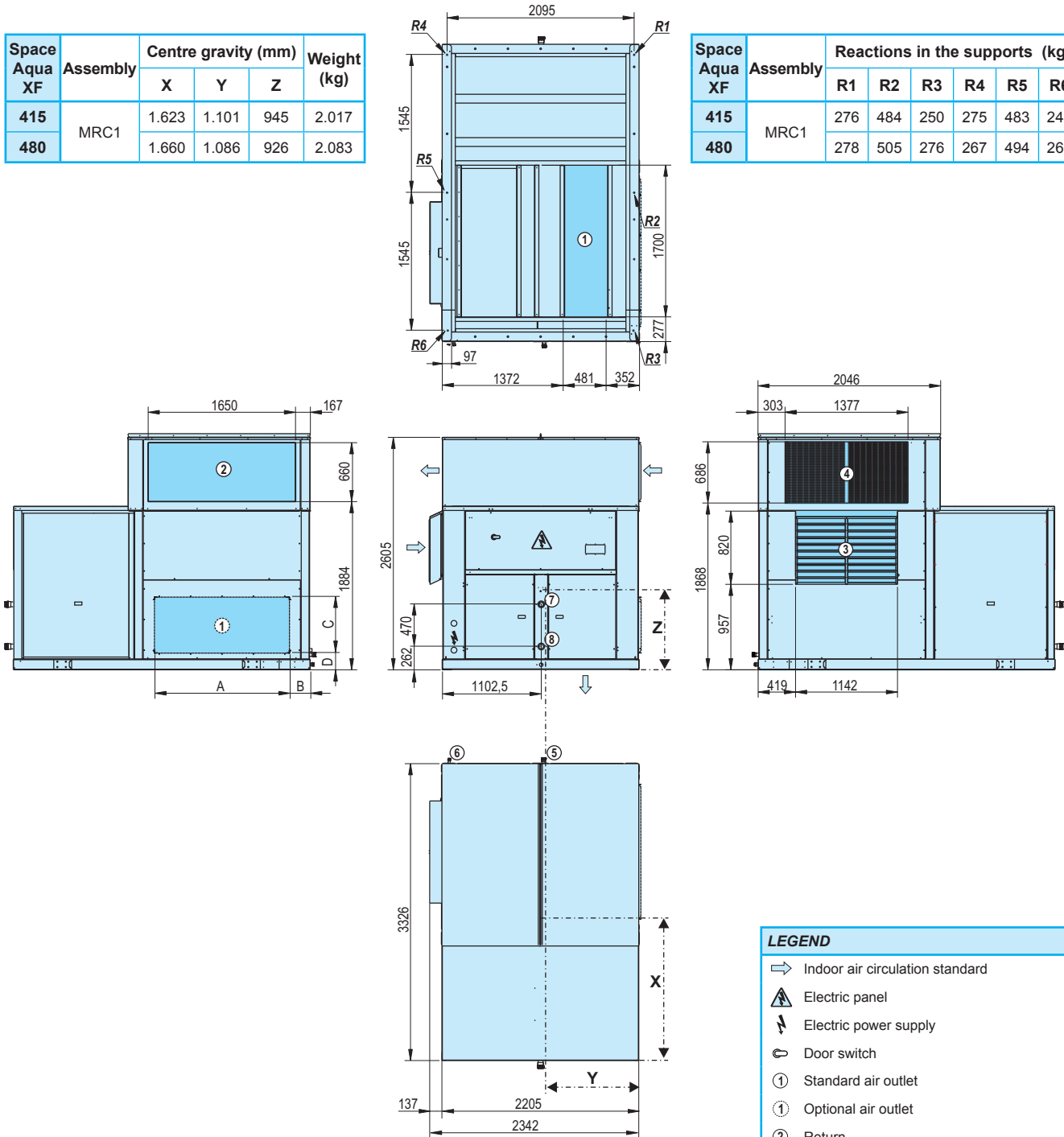
- ⇨ Indoor air circulation standard
- ⚡ Electric panel
- ⚡ Electric power supply
- 🔌 Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Return
- ③ New air intake
- ④ Air extraction
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

Space Aqua XF - 415 and 480, MRC1 assembly (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
415	MRC1	1.623	1.101	945	2.017
480		1.660	1.086	926	2.083

Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
415	MRC1	276	484	250	275	483	249
480		278	505	276	267	494	265



Outlet fan	Dimensions (mm)			
	A	B	C	D
Centrif.	1502	239	621	189
Plug-fan	1502	239	611	195

LEGEND

- ↻ Indoor air circulation standard
- ⚡ Electric panel
- ⚡ Electric power supply
- 🚪 Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Return
- ③ New air intake
- ④ Air extraction
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑥ Condensate outlet recovery circuit, M3/4" adaptor
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

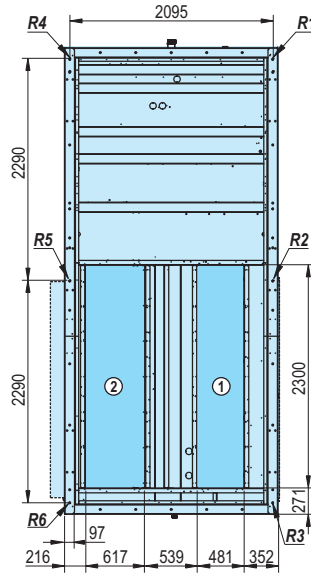
Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm



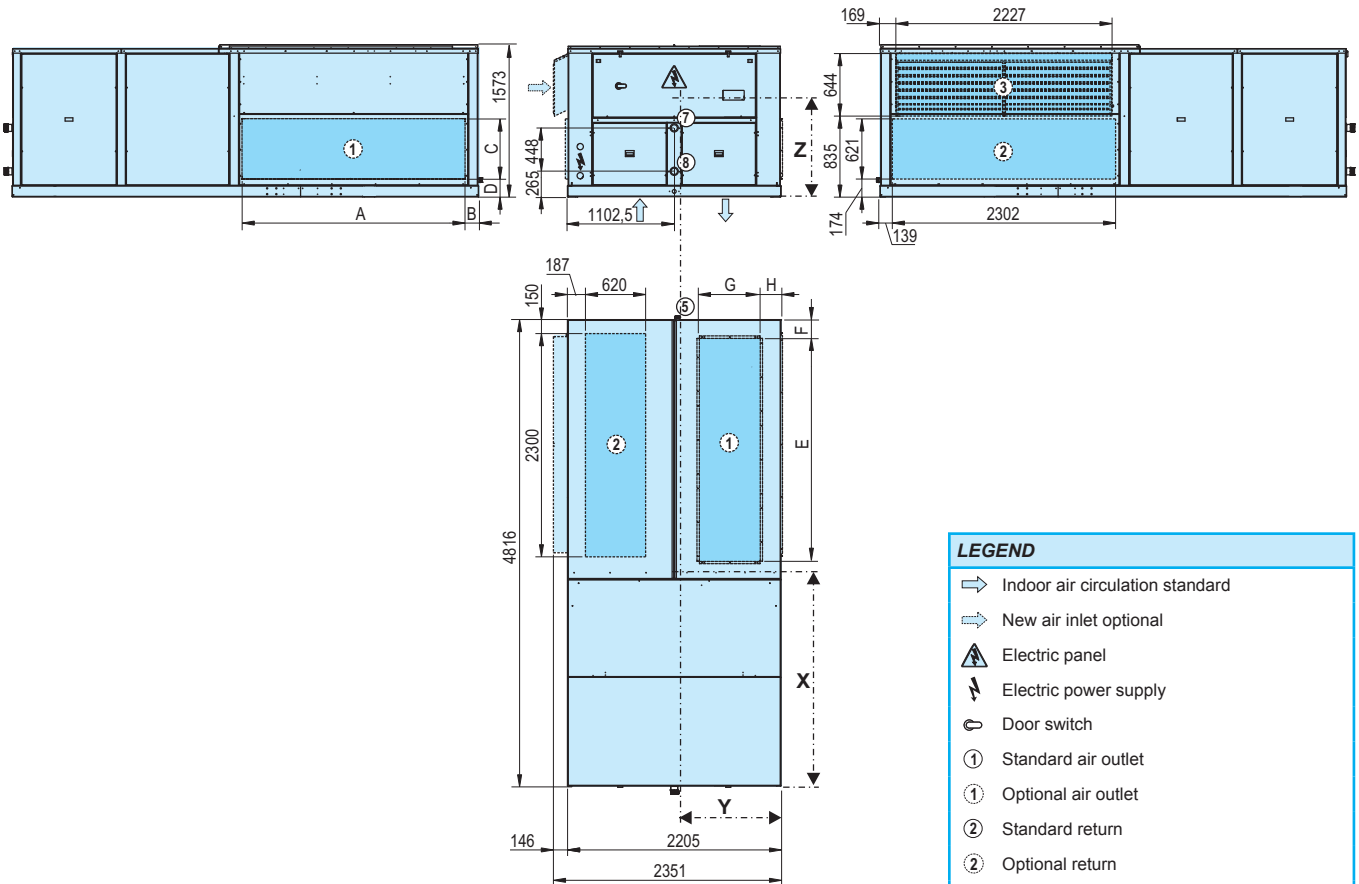
Compact water-air rooftop units

Space Aqua XF - 420, 485, 540 and 600, M0 and MS assemblies (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
420	M0	2.360	1.020	557	1.723
	MS	2.425	1.068	580	1.816
485	M0	2.347	1.009	540	1.773
	MS	2.414	1.058	564	1.865
540	M0	2.342	1.043	533	1.853
	MS	2.407	1.090	556	1.945
600	M0	2.283	1.029	531	1.927
	MS	2.347	1.074	554	2.019



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
420	M0	256	435	238	211	390	193
	MS	243	445	250	223	425	230
485	M0	269	451	245	216	398	193
	MS	255	460	257	228	434	231
540	M0	272	461	245	237	426	210
	MS	257	470	257	250	462	249
600	M0	300	484	247	255	439	202
	MS	285	493	259	267	475	240



LEGEND

- Indoor air circulation standard
- New air inlet optional
- Electric panel
- Electric power supply
- Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Standard return
- ② Optional return
- ③ Optional new air intake
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

Outlet fan	Dimensions (mm)							
	A	B	C	D	E	F	G	H
Centrif.	2302	139	621	187	2303	192	628	216
Plug-fan	2302	139	637	169	2303	269	342	362

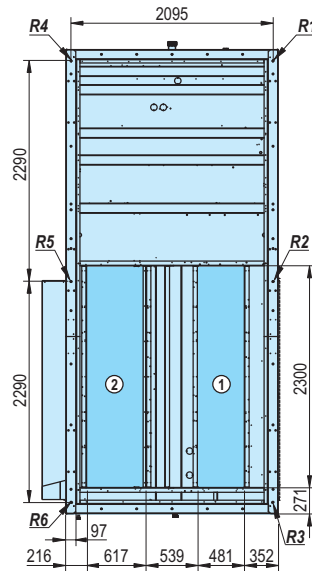


Compact water-air rooftop units

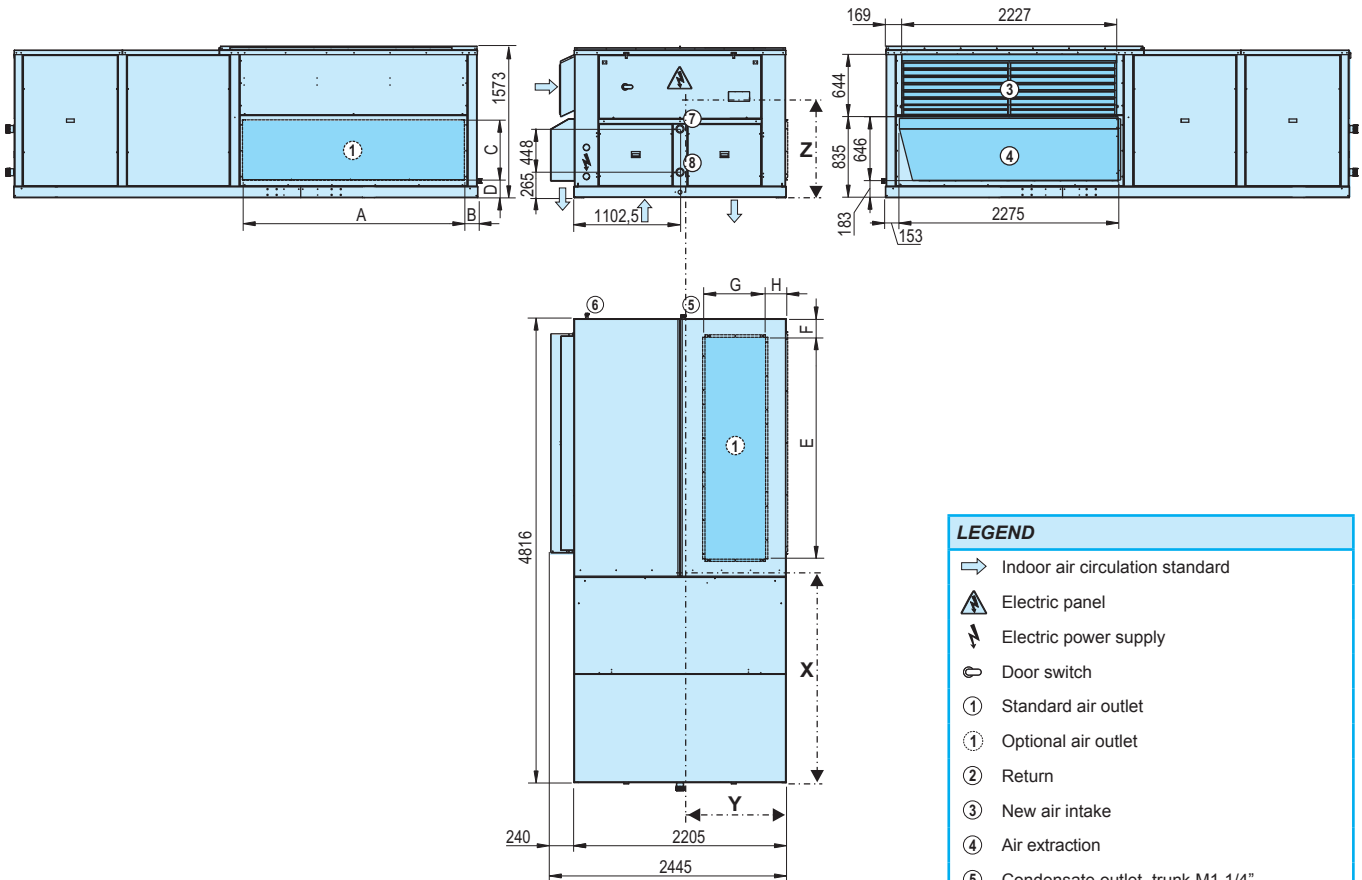
Space Aqua XF

Space Aqua XF - 420, 485, 540 and 600, ME, MA, MCO and MRCO assemblies (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
420	MA / ME	2.467	1.053	545	2.044
	MCO	2.467	1.045	535	2.070
	MRCO	2.395	1.003	518	2.230
485	MA / ME	2.452	1.045	527	2.052
	MCO	2.452	1.037	517	2.120
	MRCO	2.382	995	501	2.278
540	MA / ME	2.446	1.078	521	2.125
	MCO	2.446	1.071	511	2.200
	MRCO	2.527	1.072	496	2.357
600	MA / ME	2.387	1.062	518	2.247
	MCO	2.387	1.055	508	2.273
	MRCO	2.476	1.056	493	2.428



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
420	MA / ME	269	506	295	237	474	263
	MCO	275	515	302	237	477	264
	MRCO	329	570	323	258	499	252
485	MA / ME	276	510	296	239	473	258
	MCO	288	530	308	244	486	264
	MRCO	342	585	329	264	507	251
540	MA / ME	276	517	294	260	501	277
	MCO	288	538	307	266	516	285
	MRCO	288	576	349	265	553	326
600	MA / ME	312	553	302	283	524	273
	MCO	318	562	308	284	527	274
	MRCO	316	600	352	280	564	316



Outlet fan	Dimensions (mm)							
	A	B	C	D	E	F	G	H
Centrif.	2302	139	621	187	2303	192	628	216
Plug-fan	2302	139	637	169	2303	269	342	362

LEGEND

- ➡ Indoor air circulation standard
- ⚡ Electric panel
- ⚡ Electric power supply
- 🚪 Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Return
- ③ New air intake
- ④ Air extraction
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑥ Condensate outlet recovery circuit (MRCO assembly), M3/4" adaptor
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

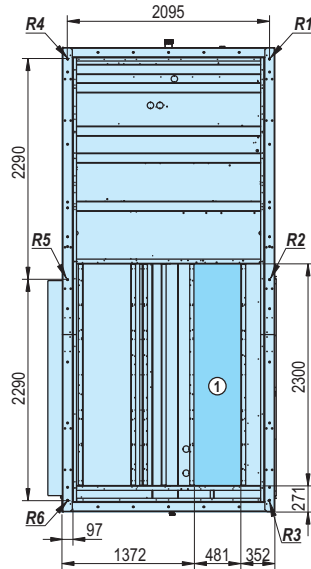
Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm



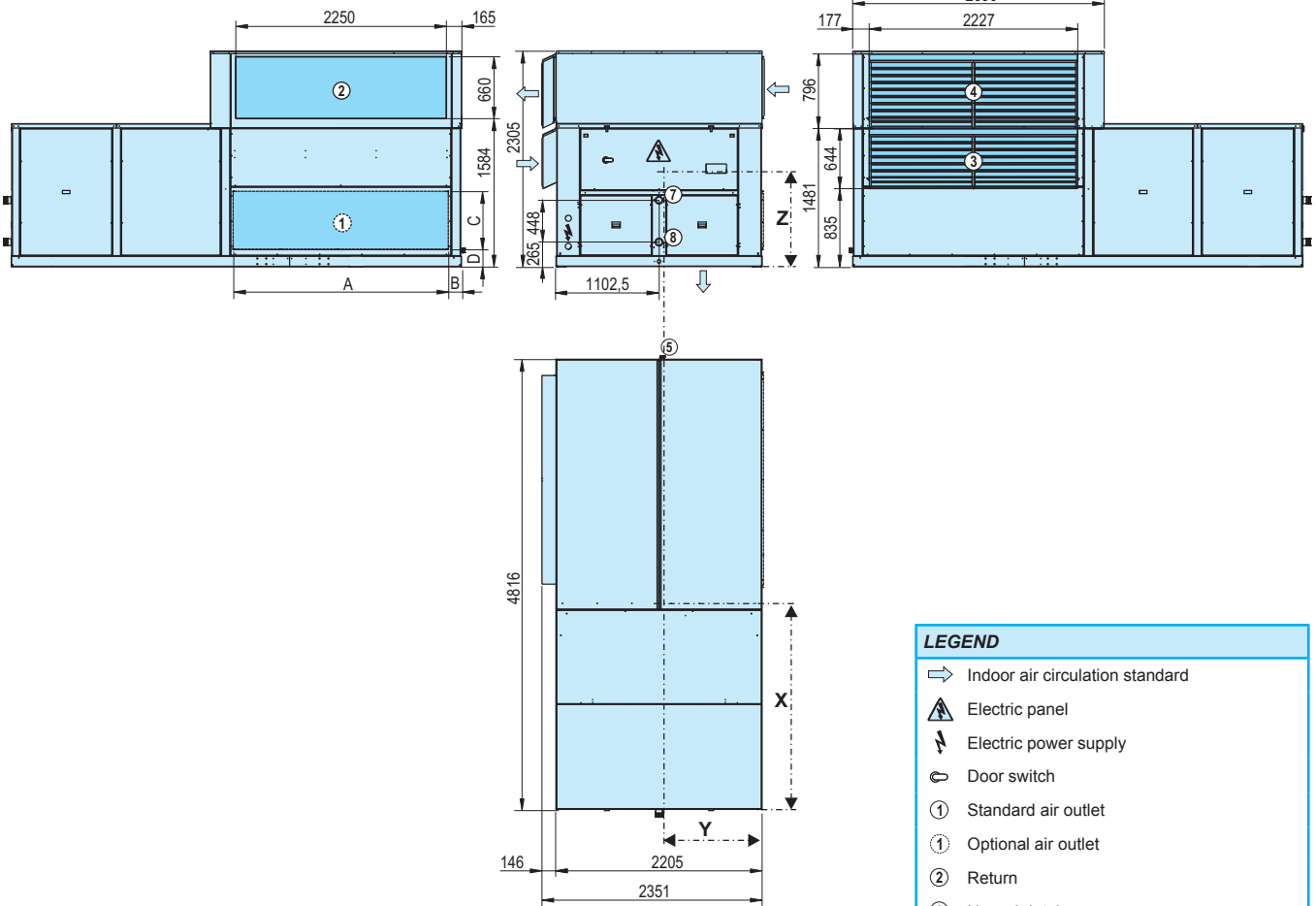
Compact water-air rooftop units

Space Aqua XF - 420, 485, 540 and 600, MC1 assembly (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
420	MC1	2.732	1.120	814	2.240
485		2.732	1.110	801	2.289
540		2.717	1.141	789	2.369
600		2.690	1.115	779	2.443



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
420	MC1	206	530	365	219	543	377
485		214	546	376	220	551	382
540		214	553	374	243	582	403
600		238	580	388	248	590	398



Outlet fan	Dimensions (mm)			
	A	B	C	D
Centrif.	2302	139	621	187
Plug-fan	2302	139	637	169

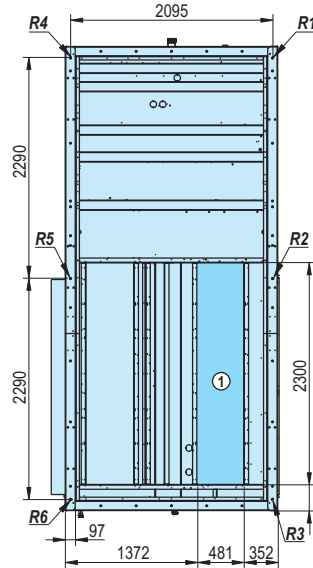
LEGEND

- ⇒ Indoor air circulation standard
- ⚡ Electric panel
- ⚡ Electric power supply
- ↪ Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Return
- ③ New air intake
- ④ Air extraction
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

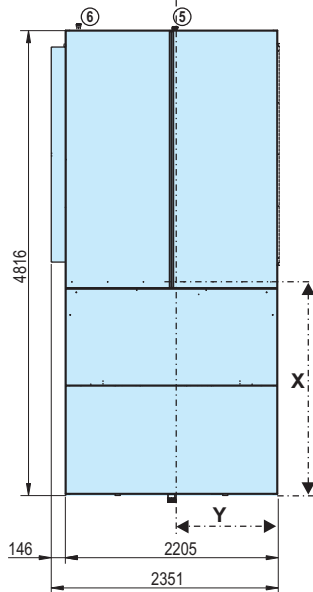
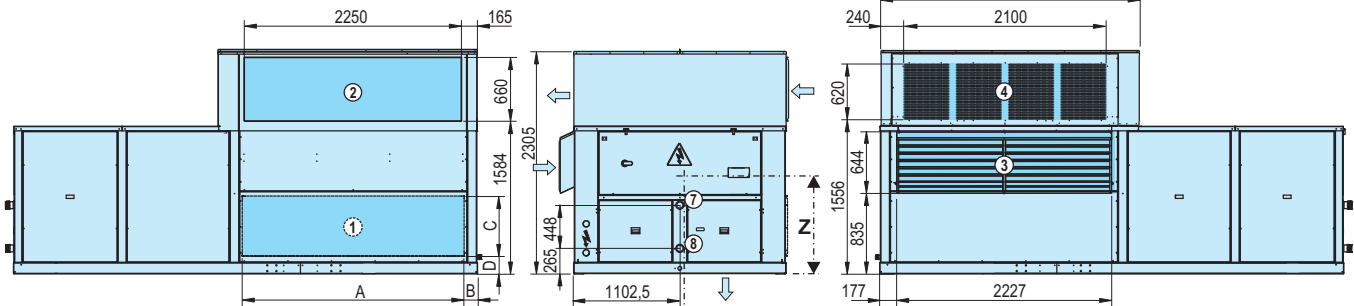
Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

Space Aqua XF - 420, 485, 540 and 600, MRC1 assembly (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
420	MRC1	2.770	1.115	819	2.391
485		2.771	1.106	806	2.442
540		2.764	1.136	796	2.524
600		2.736	1.111	787	2.600



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
420	MRC1	212	568	401	222	578	411
485		220	584	413	223	586	416
540		217	591	413	244	618	440
600		242	619	428	249	626	435



LEGEND	
	Indoor air circulation standard
	Electric panel
	Electric power supply
	Door switch
①	Standard air outlet
①	Optional air outlet
②	Return
③	New air intake
④	Air extraction
⑤	Condensate outlet, trunk M1 1/4"
⑥	Condensate outlet recovery circuit, M3/4" adaptor
⑦	Outdoor circuit water inlet
⑧	Outdoor circuit water outlet
<i>Anti-vibration anchoring: rivet nut M12</i>	
<i>Intake profile: 25 mm</i>	

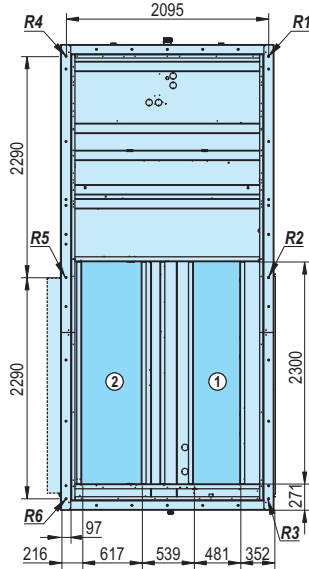
Outlet fan	Dimensions (mm)			
	A	B	C	D
Centrif.	2302	139	621	187
Plug-fan	2302	139	637	169



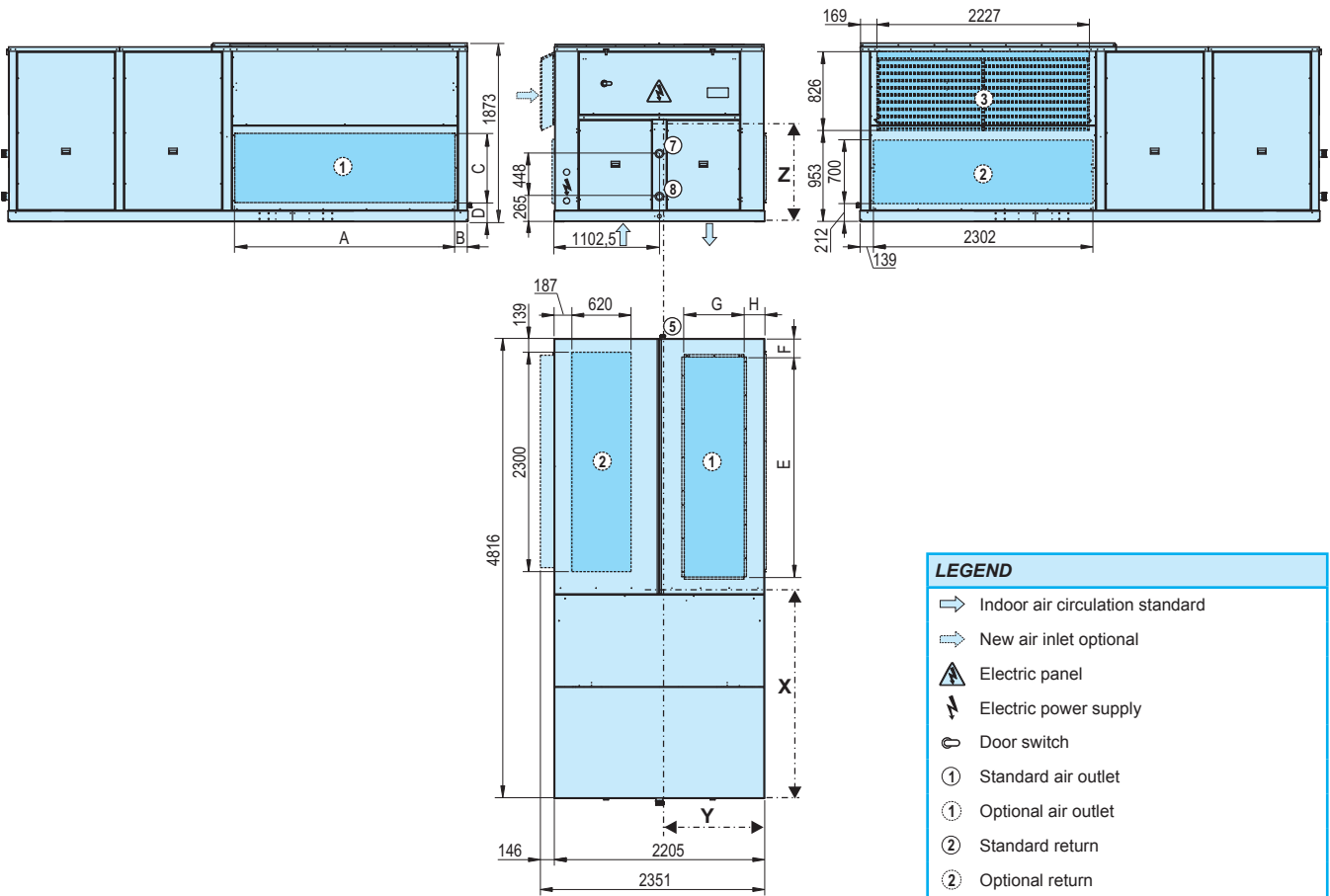
Compact water-air rooftop units

Space Aqua XF - 650 and 720, M0 and MS assemblies (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
650	M0	2.136	1.033	650	2.055
	MS	2.231	1.009	690	2.167
720	M0	2.128	1.035	656	2.117
	MS	2.222	1.106	696	2.230



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
650	M0	351	515	229	306	470	184
	MS	356	551	273	292	487	208
720	M0	363	530	234	318	484	188
	MS	334	533	244	337	536	246

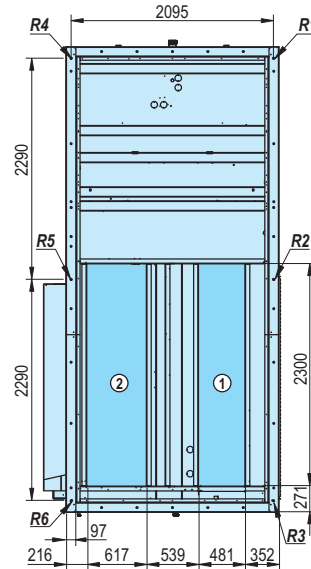


LEGEND	
	Indoor air circulation standard
	New air inlet optional
	Electric panel
	Electric power supply
	Door switch
①	Standard air outlet
①	Optional air outlet
②	Standard return
②	Optional return
③	Optional new air intake
⑤	Condensate outlet, trunk M1 1/4"
⑦	Outdoor circuit water inlet
⑧	Outdoor circuit water outlet
<i>Anti-vibration anchoring: rivet nut M12</i>	
<i>Intake profile: 25 mm</i>	

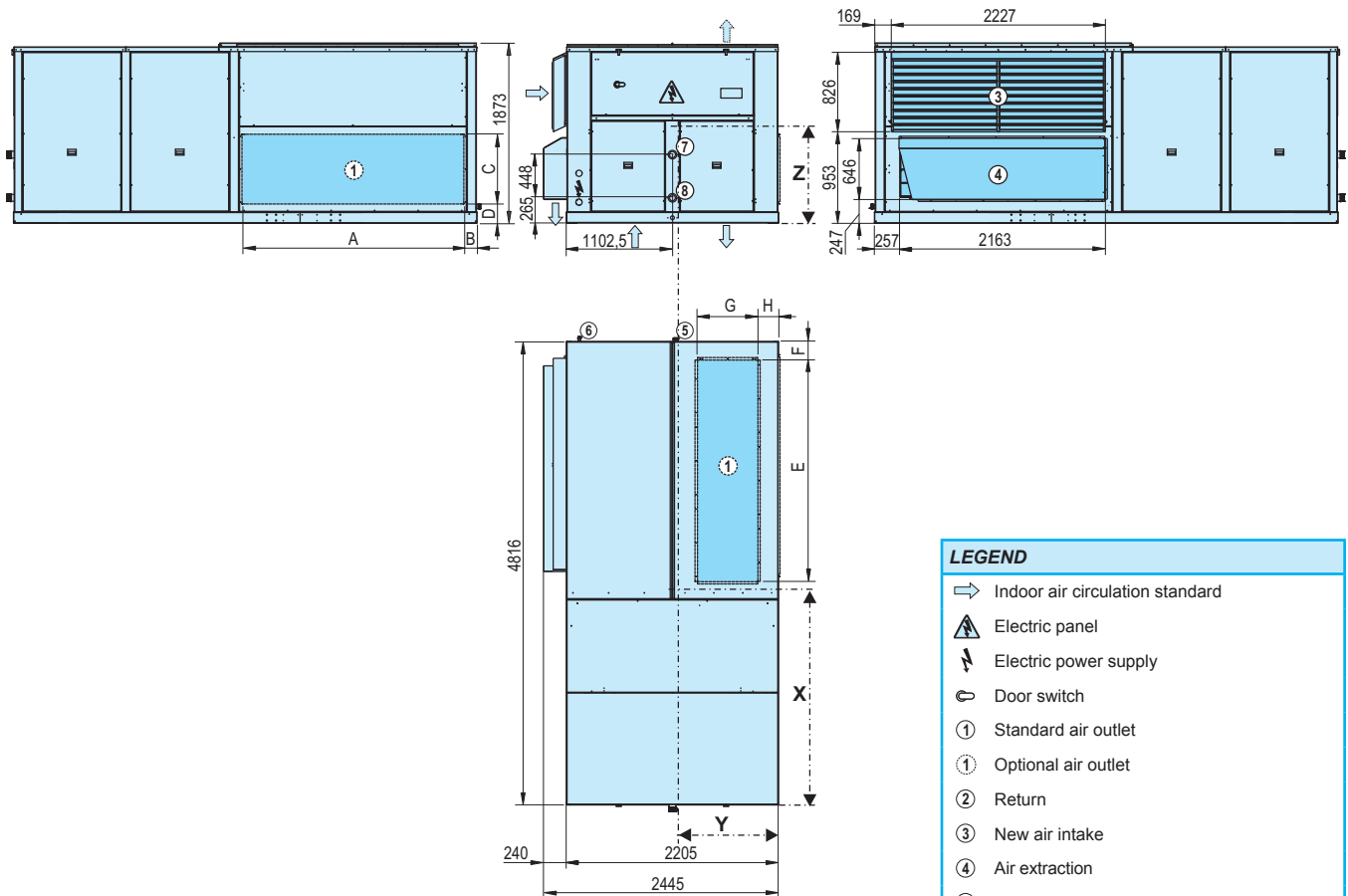
Outlet fan	Dimensions (mm)							
	A	B	C	D	E	F	G	H
Centrif.	2302	139	722	203	2303	192	628	216
Plug-fan	2303	139	722	203	2303	269	345	360

Space Aqua XF - 650 and 720, ME, MA, MC0 and MRC0 assemblies (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
650	MA / ME	2.240	1.068	638	2.459
	MC0	2.240	1.058	625	2.463
	MRC0	2.308	1.062	607	2.664
720	MA / ME	2.234	1.071	643	2.520
	MC0	2.234	1.061	631	2.524
	MRC0	2.304	1.065	617	2.731



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
650	MA / ME	379	603	289	352	576	262
	MC0	383	608	293	348	573	258
	MRC0	393	655	335	359	621	301
720	MA / ME	389	616	293	363	591	268
	MC0	393	621	297	360	588	264
	MRC0	403	671	341	370	638	308



LEGEND	
	Indoor air circulation standard
	Electric panel
	Electric power supply
	Door switch
①	Standard air outlet
①	Optional air outlet
②	Return
③	New air intake
④	Air extraction
⑤	Condensate outlet, trunk M1 1/4"
⑥	Condensate outlet recovery circuit (MRC0 assembly), M3/4" adaptor
⑦	Outdoor circuit water inlet
⑧	Outdoor circuit water outlet
<i>Anti-vibration anchoring: rivet nut M12</i>	
<i>Intake profile: 25 mm</i>	

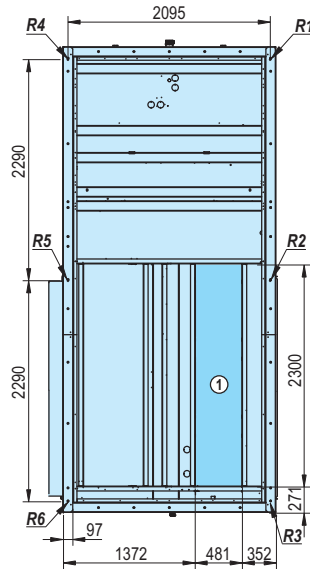
Outlet fan	Dimensions (mm)							
	A	B	C	D	E	F	G	H
Centrif.	2302	139	722	203	2303	192	628	216
Plug-fan	2303	139	722	203	2303	269	345	360



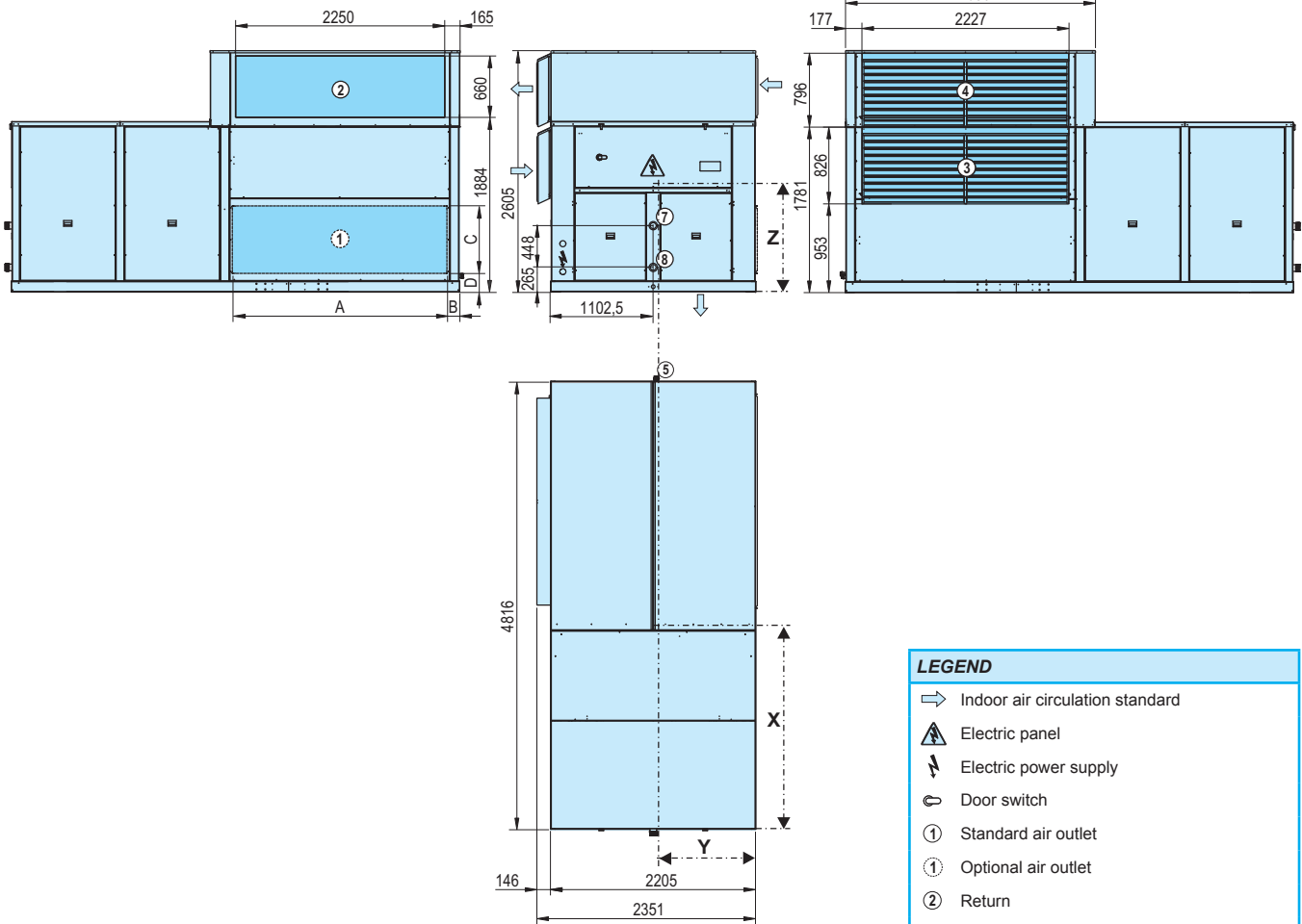
Compact water-air rooftop units

Space Aqua XF - 650 and 720, MC1 assembly (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
650	MC1	2.430	1.144	932	2.550
720		2.433	1.136	935	2.632



Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
650	MC1	309	594	321	343	628	355
720		321	617	336	350	645	364



Outlet fan	Dimensions (mm)			
	A	B	C	D
Centrif.	2302	139	722	203
Plug-fan	2303	139	722	203

LEGEND

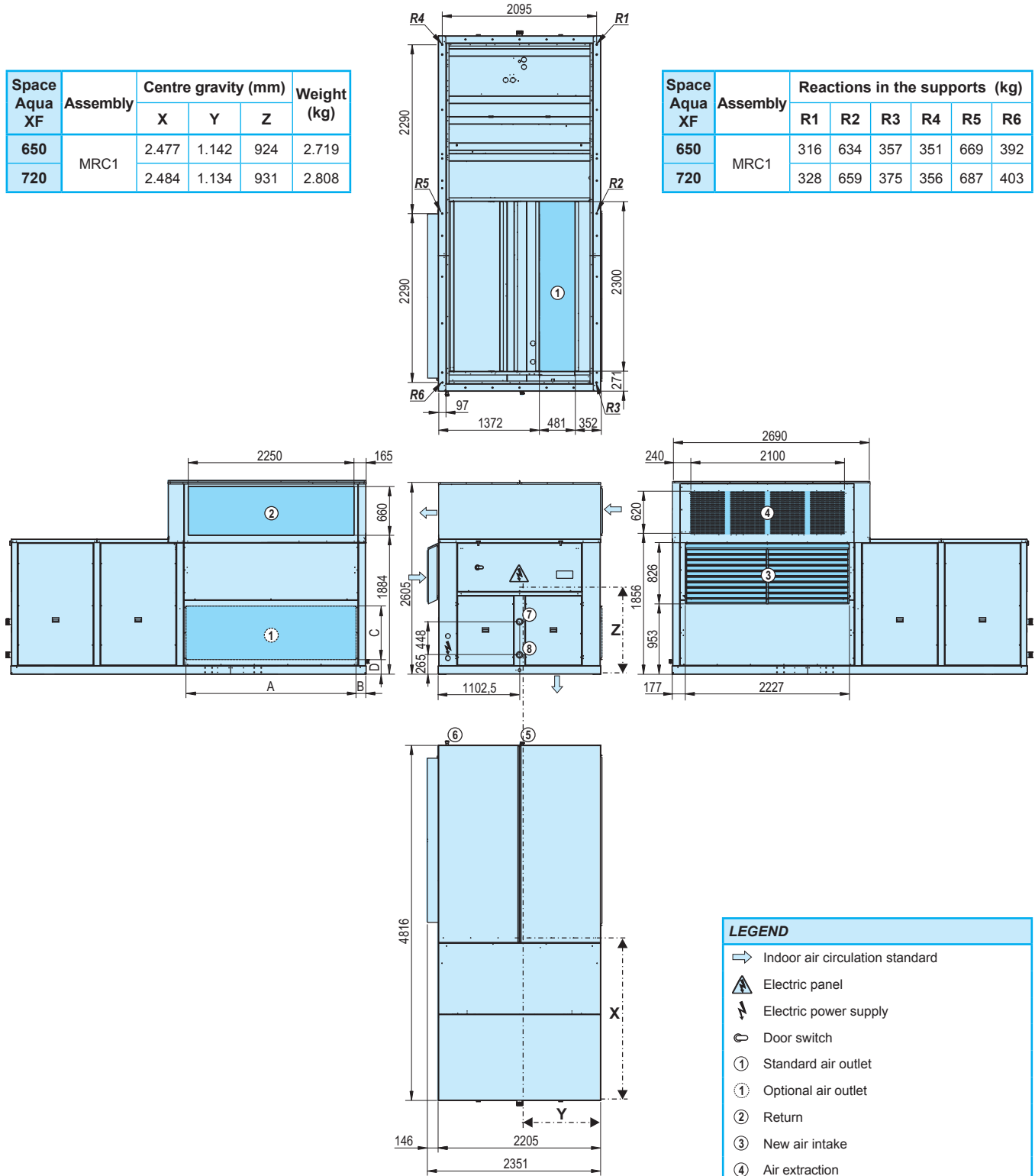
- ⇒ Indoor air circulation standard
- ⚡ Electric panel
- ⚡ Electric power supply
- 🚪 Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Return
- ③ New air intake
- ④ Air extraction
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

Space Aqua XF - 650 and 720, MRC1 assembly (mm)

Space Aqua XF	Assembly	Centre gravity (mm)			Weight (kg)
		X	Y	Z	
650	MRC1	2.477	1.142	924	2.719
720		2.484	1.134	931	2.808

Space Aqua XF	Assembly	Reactions in the supports (kg)					
		R1	R2	R3	R4	R5	R6
650	MRC1	316	634	357	351	669	392
720		328	659	375	356	687	403



Outlet fan	Dimensions (mm)			
	A	B	C	D
Centrif.	2302	139	722	203
Plug-fan	2303	139	722	203

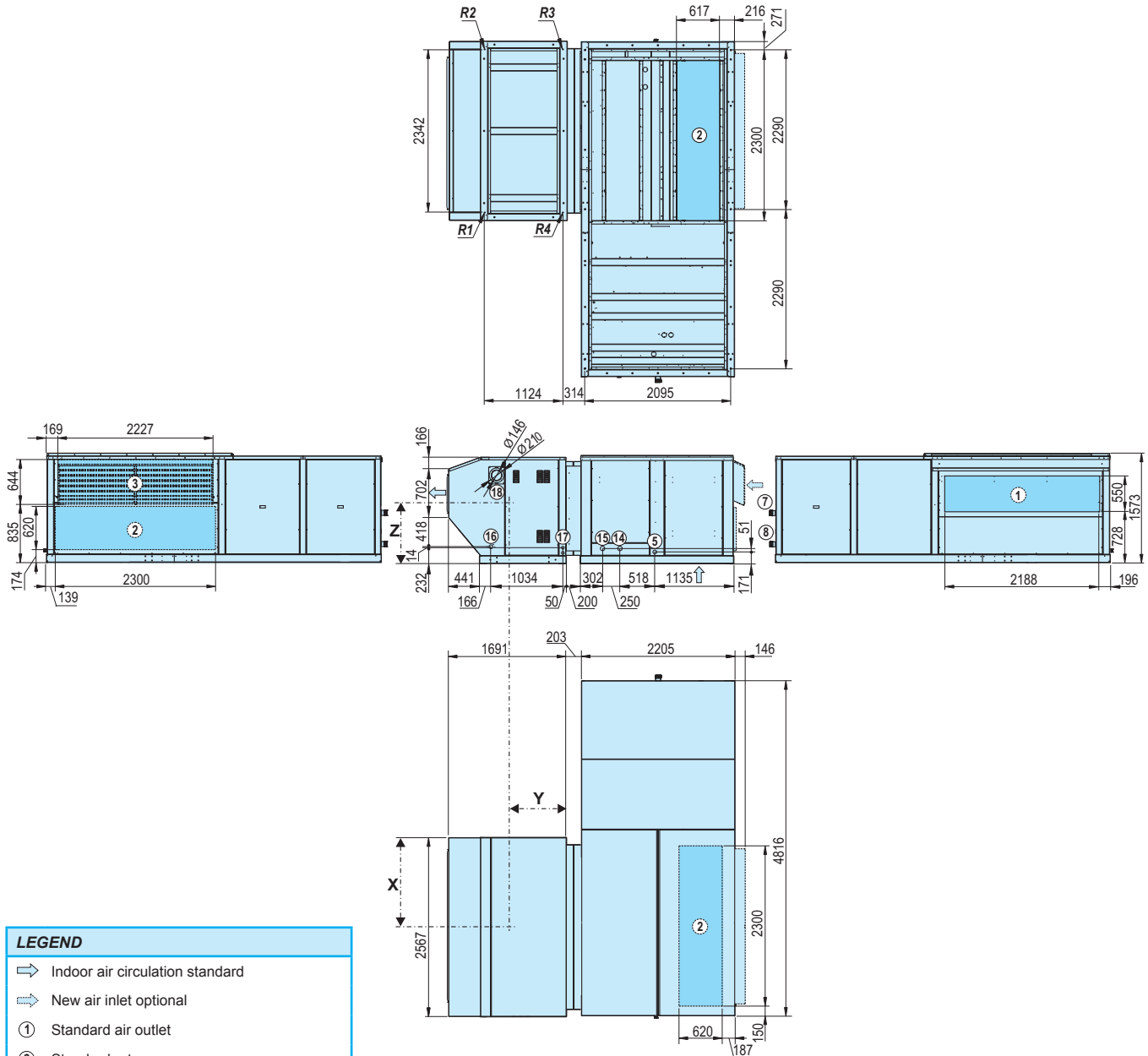
LEGEND

- ⇨ Indoor air circulation standard
- ⚡ Electric panel
- ⚡ Electric power supply
- 🚪 Door switch
- ① Standard air outlet
- ① Optional air outlet
- ② Return
- ③ New air intake
- ④ Air extraction
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑥ Condensate outlet recovery circuit, M3/4" adaptor
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet

Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

DIMENSIONS SCHEMES OF THE UNITS WITH THE GAS BURNER (OPTIONAL)

Space Aqua XF - 420, 485, 540 and 600, M0 and MS assemblies with burner (mm)



LEGEND

- Indoor air circulation standard
- New air inlet optional
- ① Standard air outlet
- ② Standard return
- ② Optional return
- ③ New air inlet optional
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet
- ⑭ Auxiliary coil water inlet (optional)
- ⑮ Auxiliary coil water outlet (optional)
- ⑯ Burner drain, trunk M3/4"
- ⑰ Gas power supply, trunk M1"
- ⑱ Burner flue outlet (stack connection)

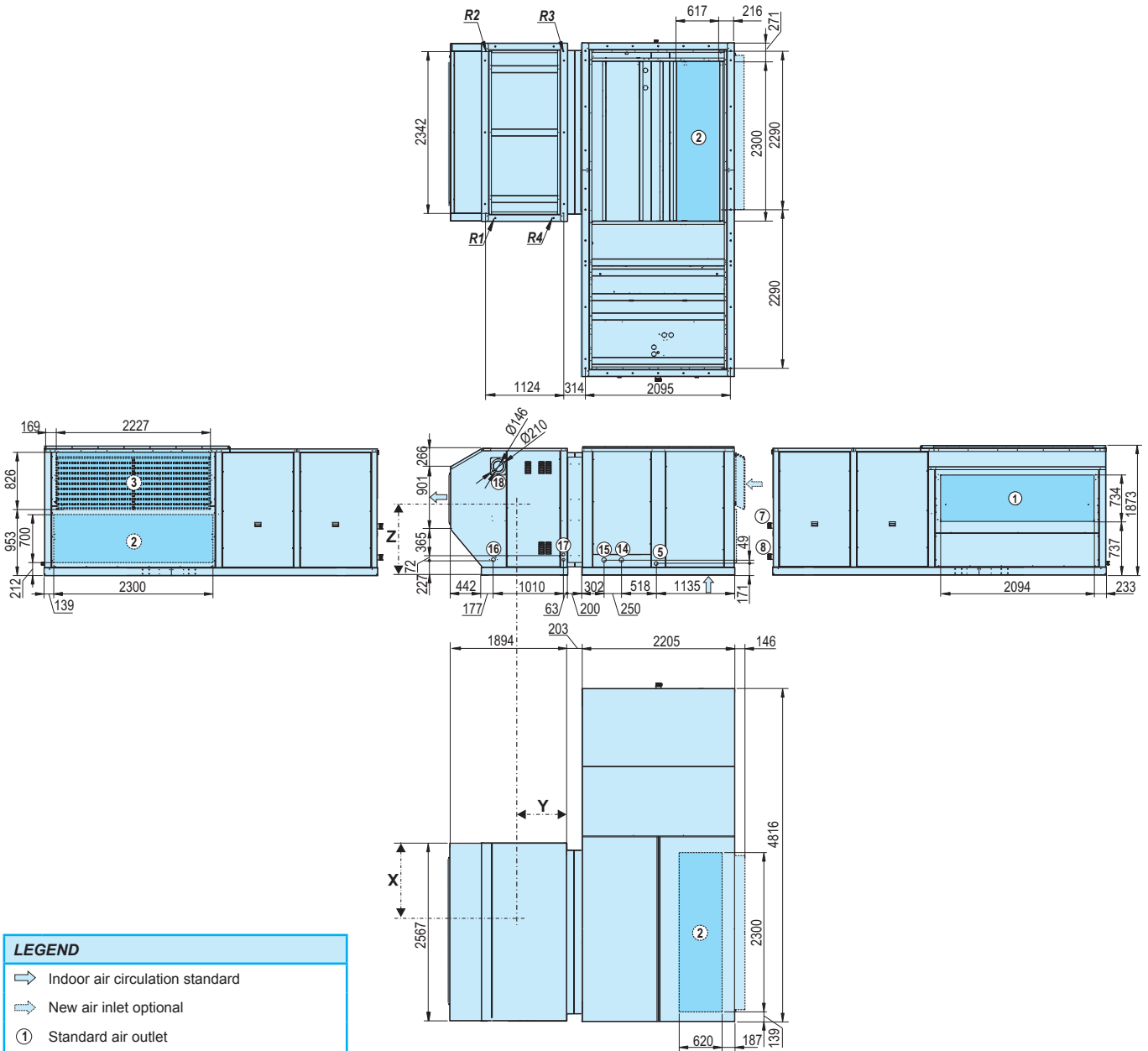
Anti-vibration anchoring: rivet nut M12
Intake profile: 25 mm

Note: The burner flue is not supplied with the unit.

Note: The drawings corresponding to other assemblies are supplied upon request.

Space Aqua XF	Burner model	Centre of gravity (mm)			Reactions in the supports (kg)				
		X	Y	Z	Weight	R1	R2	R3	R4
420 485 540	PCH-54	1.397	682	691	606	152	182	151	121
	PCH-72	1.397	680	675	645	161	193	161	130
	PCH-92	1.383	678	749	665	168	196	165	136
	PCH-150	1.376	660	728	675	166	193	172	145
600	PCH-92	1.383	678	749	665	168	196	165	136
	PCH-150	1.376	660	728	675	166	193	172	145

Space Aqua XF - 650 y 720 M0 and MS assemblies with burner (mm)



LEGEND

- ⇨ Indoor air circulation standard
- ⇨ New air inlet optional
- ① Standard air outlet
- ② Standard return
- ③ Optional return
- ③ New air inlet optional
- ⑤ Condensate outlet, trunk M1 1/4"
- ⑦ Outdoor circuit water inlet
- ⑧ Outdoor circuit water outlet
- ⑭ Auxiliary coil water inlet (optional)
- ⑮ Auxiliary coil water outlet (optional)
- ⑯ Burner drain, trunk M3/4"
- ⑰ Gas power supply, trunk M1"
- ⑱ Burner flue outlet (stack connection)

Anti-vibration anchoring: rivet nut M12

Intake profile: 25 mm

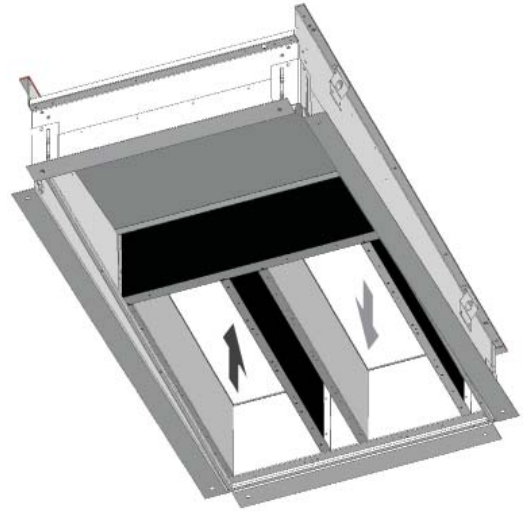
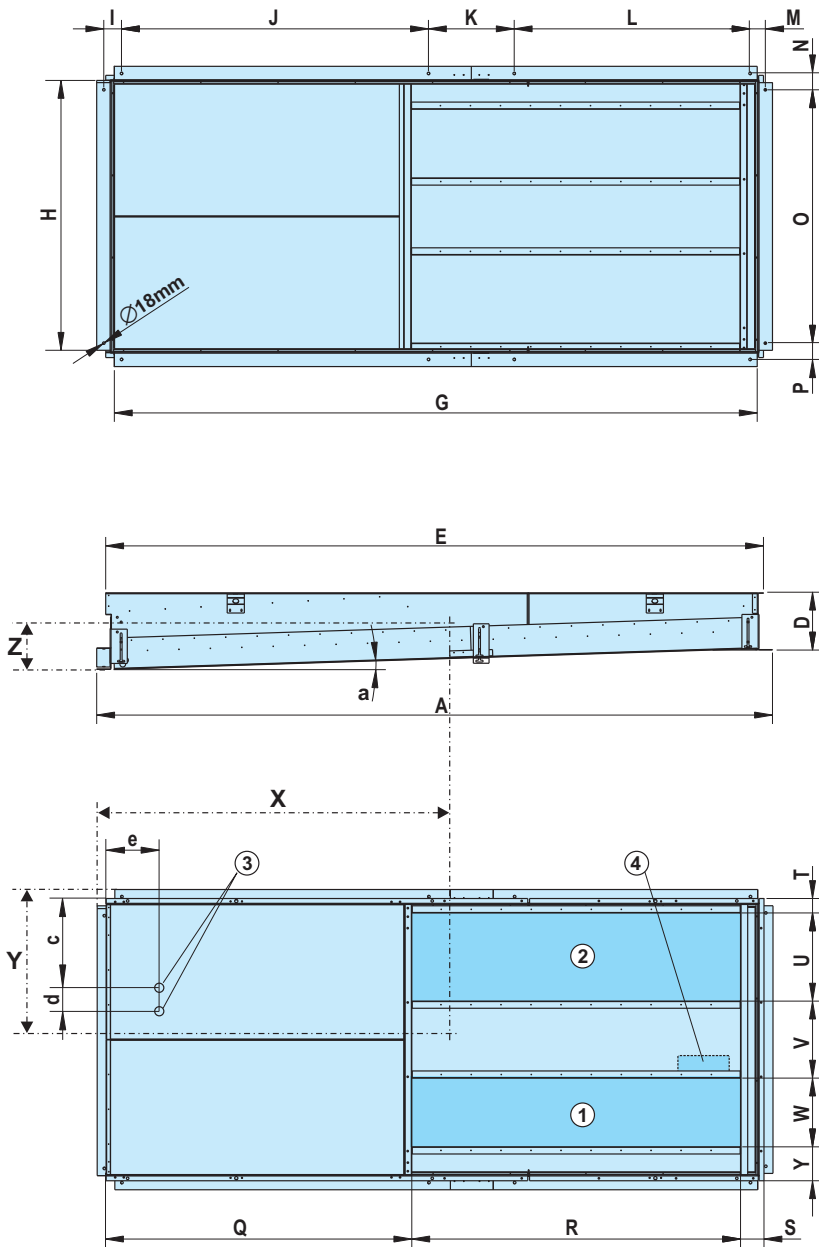
Note: The burner flue is not supplied with the unit.

Note: The drawings corresponding to other assemblies are supplied upon request.

Space Aqua XF	Burner model	Centre of gravity (mm)			Reactions in the supports (kg)				
		X	Y	Z	Weight	R1	R2	R3	R4
650	PCH-92	1.378	670	929	709	177	206	177	149
720	PCH-150 / 200	1.371	653	911	719	175	202	184	157

PRE-ASSEMBLY FRAMES (OPTIONAL)

Frame for the Space Aqua XF unit (mm)



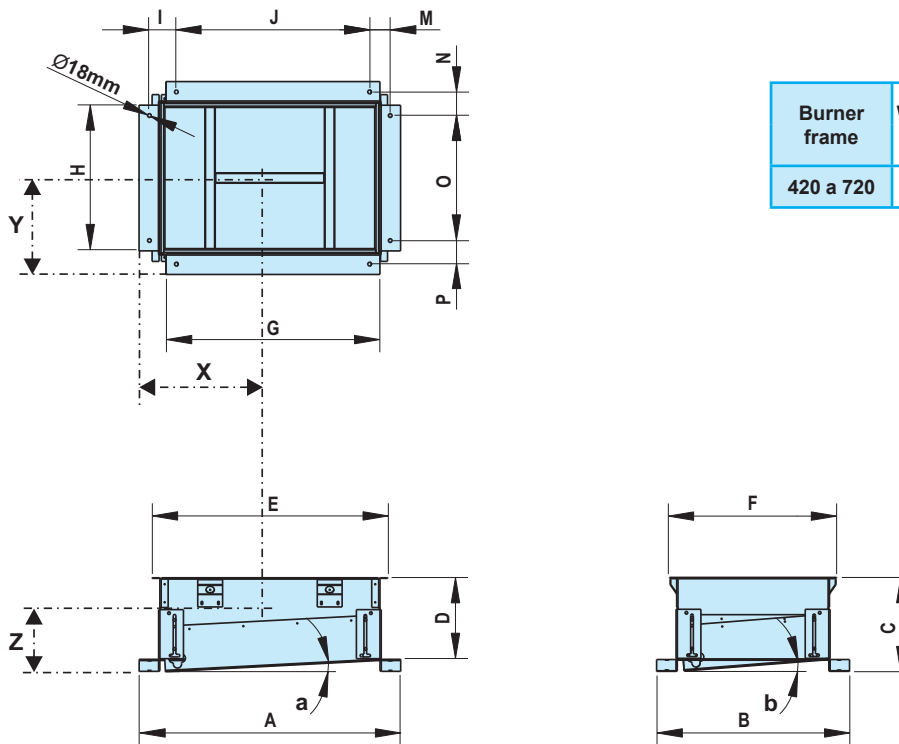
LEGEND	
①	In Space Aqua XF assemblies with lower discharge (Mwx0) ¹⁾
②	In Space Aqua XF assemblies with lower return (Mw0y) ¹⁾
③	Electric power supply connection Ø 64mm
④	Circulation area for the hydraulic connections of the optional hot water auxiliary coil.

¹⁾ The available assemblies can be consulted on page 8 of this brochure

Space Aqua XF frame	Weight (kg)	Centre of gravity (mm)			Maximum slope	
		X	Y	Z	a	b
415 & 480	290	1.517	940	290	3°(5,2%)	4°(7%)
420 to 720	385	2.507	1.050	228	2°(3,5%)	4°(7%)

Space Aqua XF frame	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y	c	d	e
415 y 480	3.238	2.101	536	400	3.112	1.975	3.007	1.873	128	2.146	0	760	103	114	1.773	114	1.248	1.700	164	101	617	539	481	237	818	100	413
420 a 720	4.728	2.101	536	400	4.602	1.975	4.498	1.873	123	2.148	600	1.650	107	114	1.773	114	2.138	2.300	164	101	617	539	481	237	818	100	415

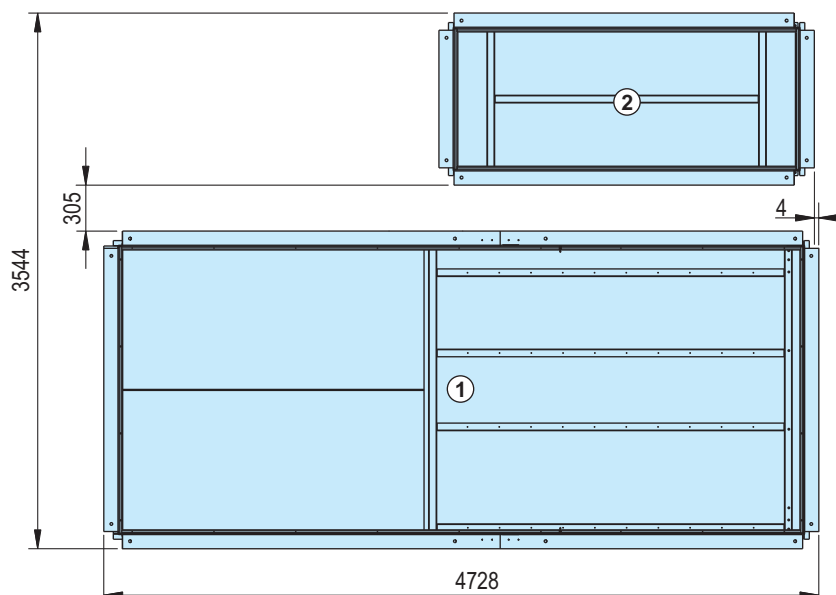
Frame for the optional gas burner (mm)



Burner frame	Weight (kg)	Centre of gravity (mm)			Maximum slope	
		X	Y	Z	a	b
420 a 720	145	1.255	570	222	2° (3,5%)	4° (7%)

Burner frame	A	B	C	D	E	F	G	H	I	J	M	N	O	P
420 to 720	2.482	1.138	469	400	2.356	1.012	2.249	910	133	2.150	100	114	810	114

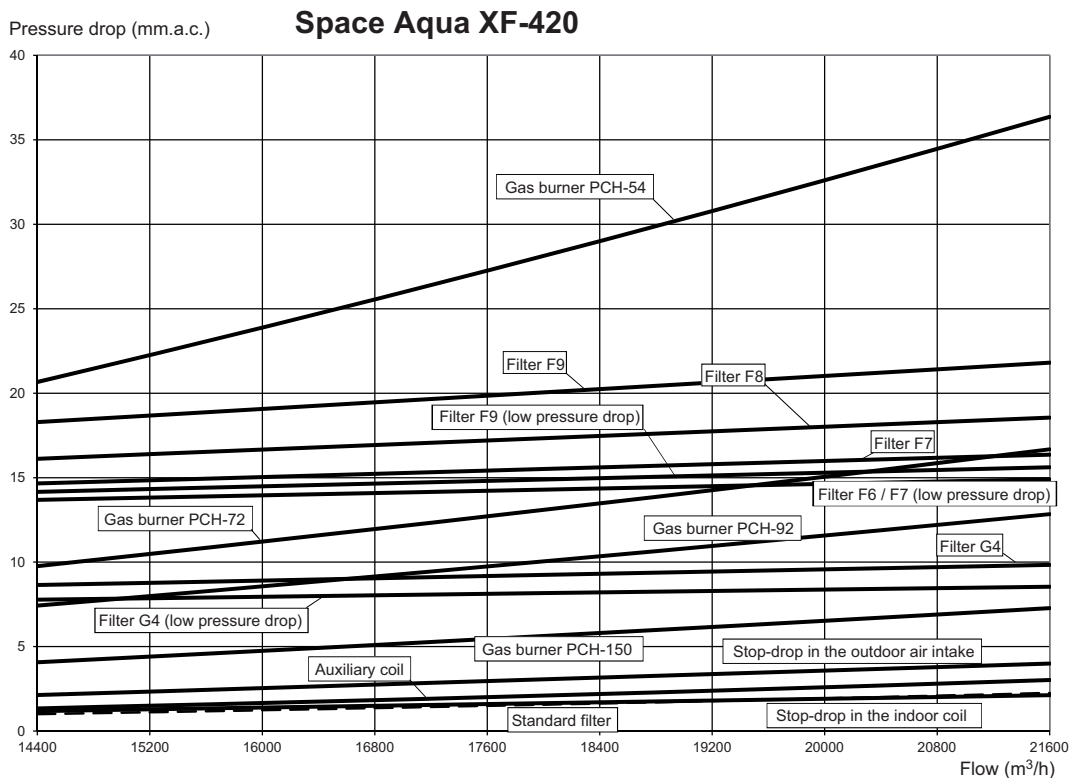
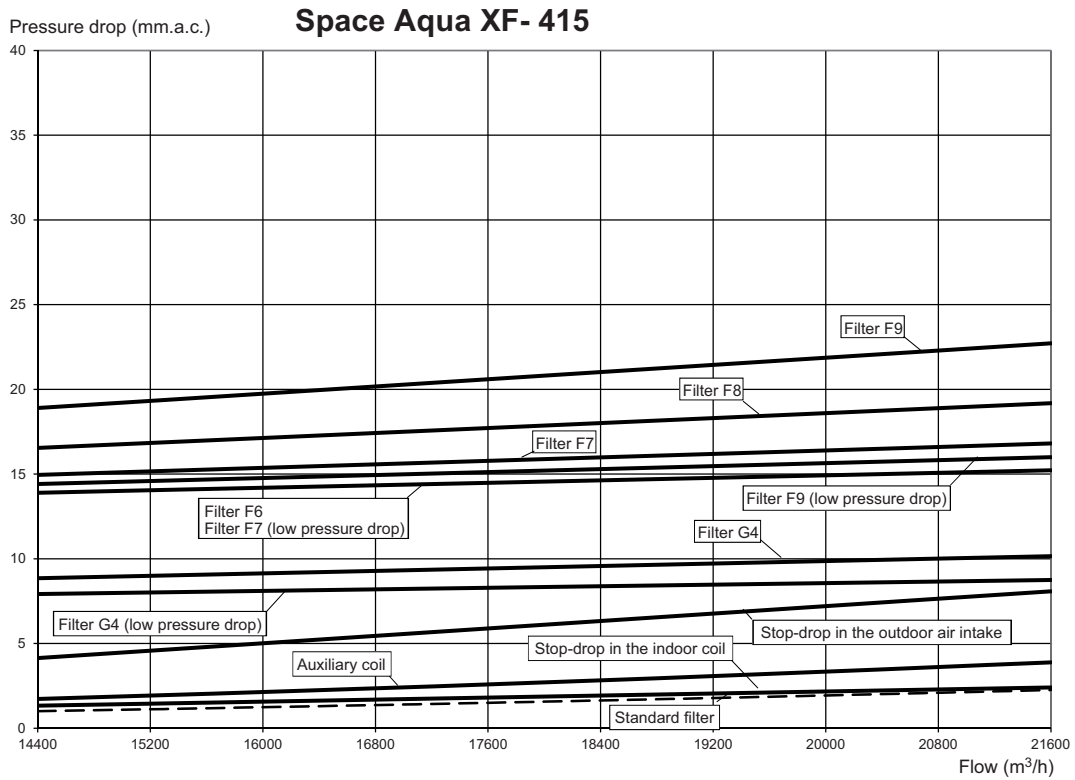
Position of the burner frame with regard to Space Aqua XF unit frame (mm)



LEGEND
① Unit fram
② Burner module frame

OUTLET FAN

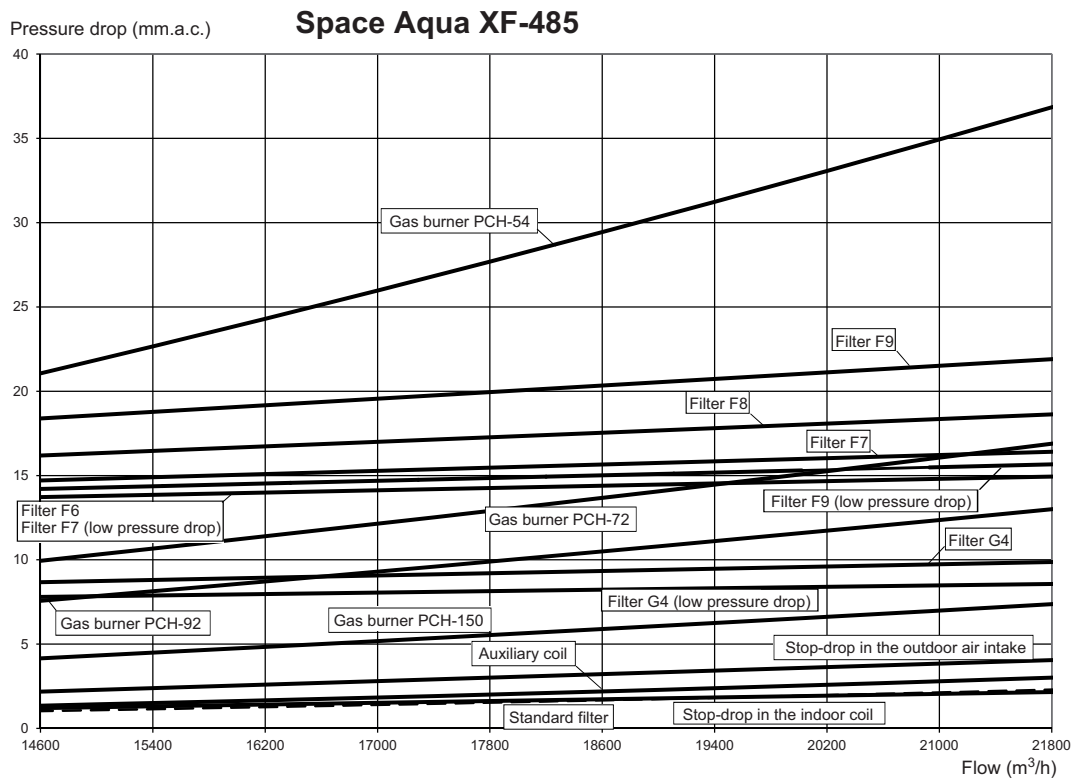
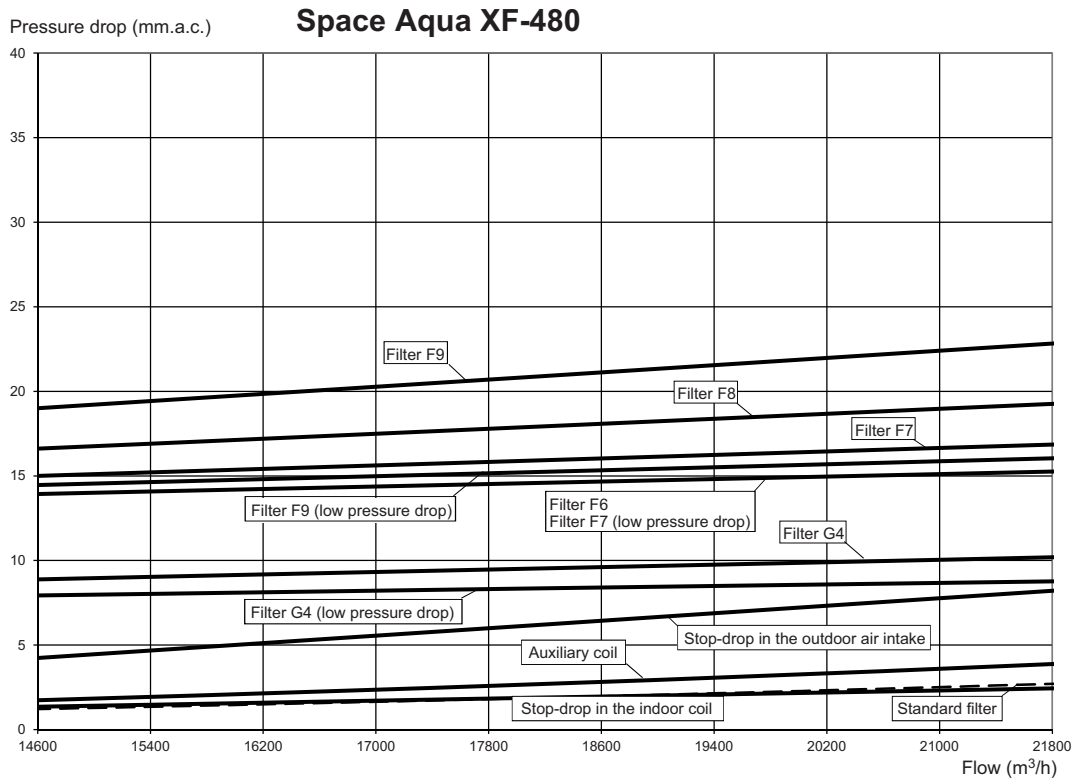
■ Pressure drops in the available options



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

OUTLET FAN

■ Pressure drops in the available options



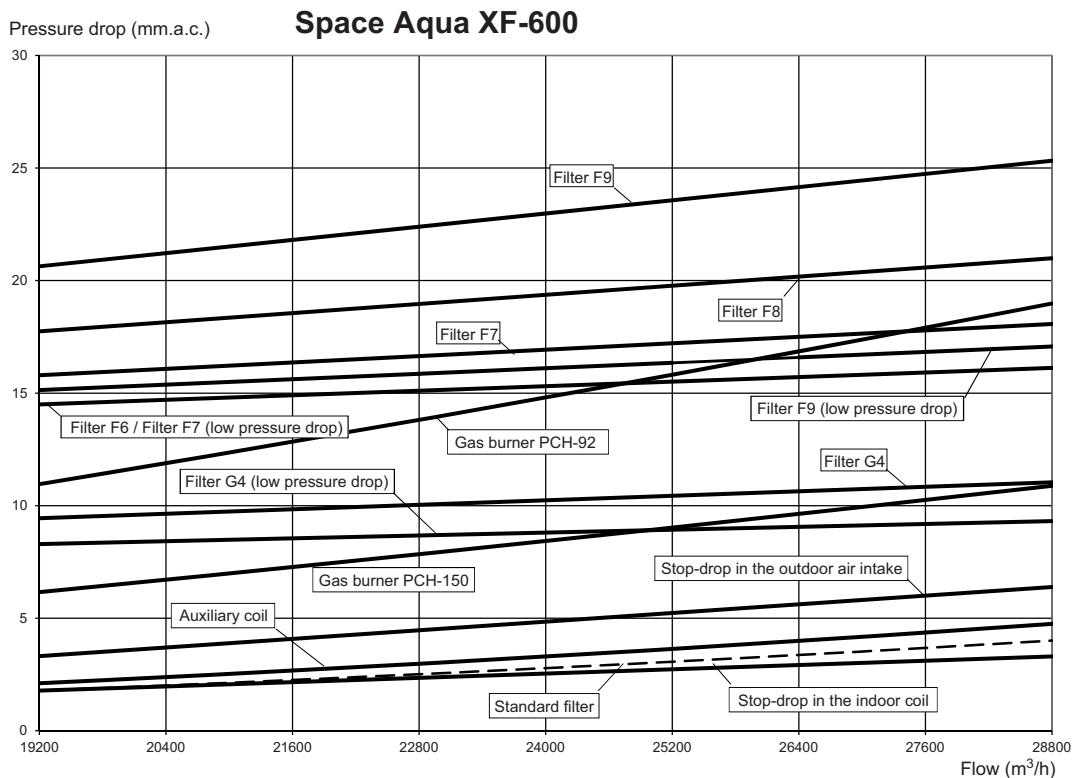
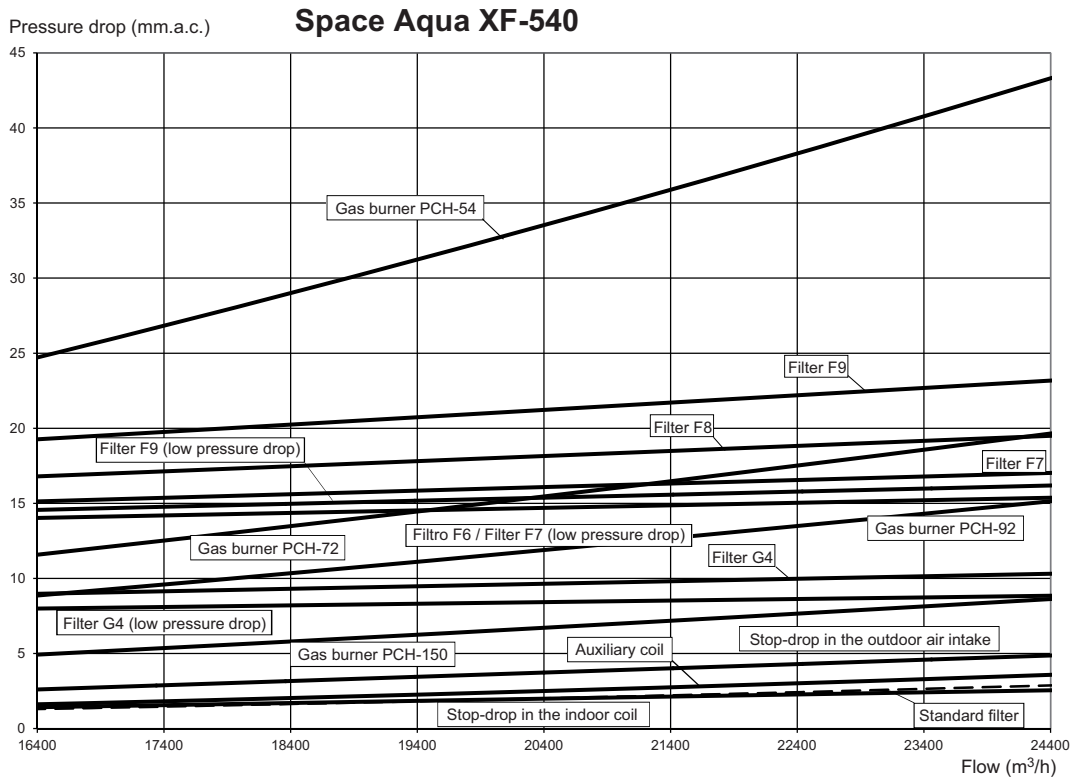
Note: pressure drops in the filters have been calculated for an average level of clogging.



Compact water-air rooftop units

OUTLET FAN

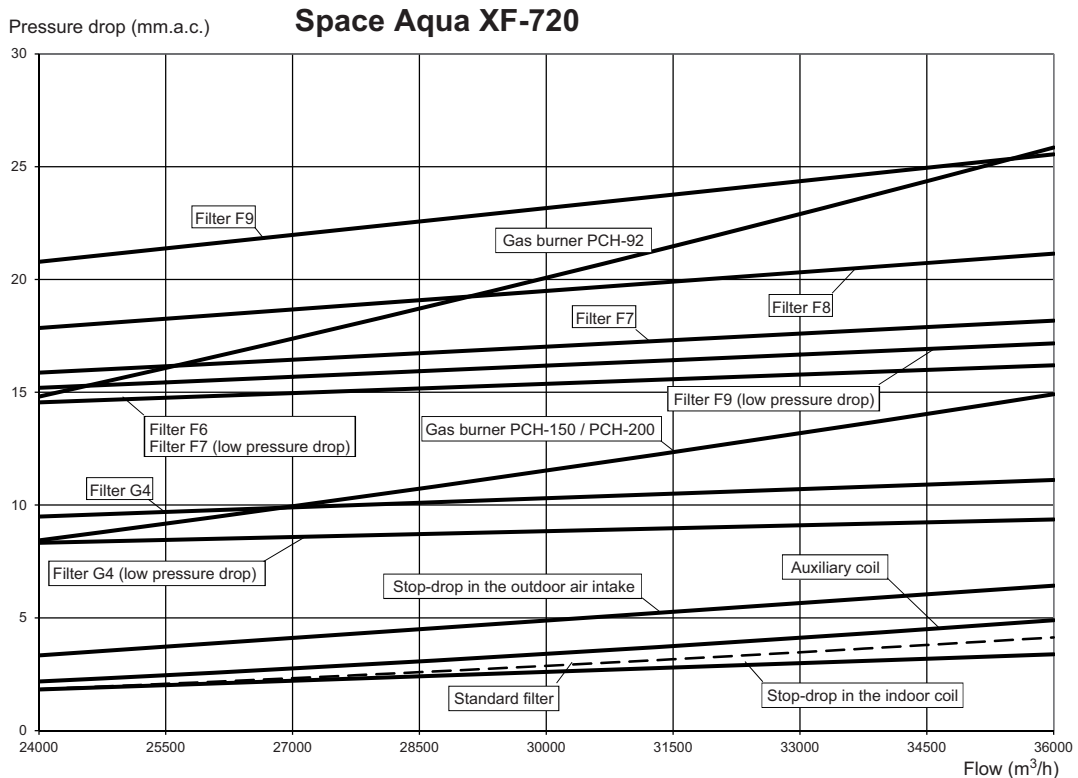
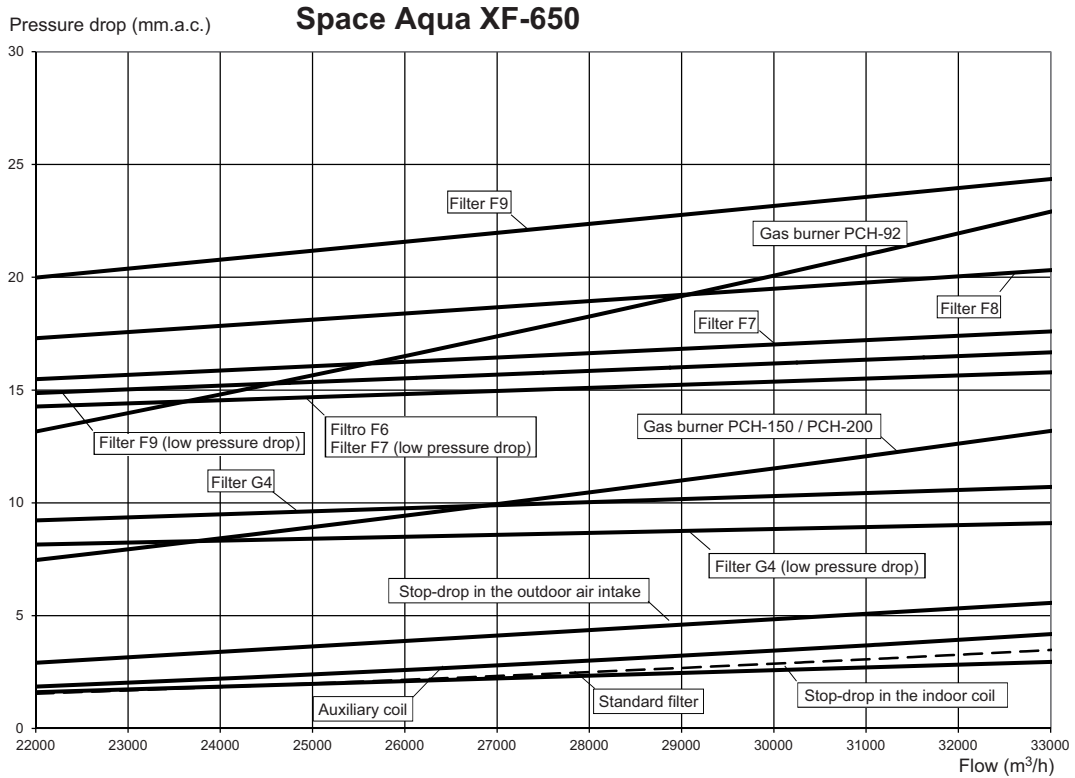
■ Pressure drops in the available options



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

OUTLET FAN

■ Pressure drops in the available options



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



Compact water-air rooftop units

OUTLET FAN

■ Tables of selection of the ventilation group

Space Aqua XF - 415				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.400 m³/h				
12,5	2 x 1,1	1,60	605	2 x OPK0065
20	2 x 1,5	1,96	694	2 x OPK0068
25	2 x 1,5	2,20	751	2 x OPK0404
30	2 x 2,2	3,20	991	2 x OPK0305
35	2 x 2,2	3,44	1044	2 x OPK0352
40	2 x 3	3,68	1096	2 x OPK0370
45	2 x 3	3,94	1148	2 x OPK0354
50	2 x 3	4,22	1199	2 x OPK0369
60	2 x 3	4,76	1300	2 x OPK0060
70	2 x 3	4,40	2200	2 x OPK0235
80	2 x 3	4,90	2286	2 x OPK0236
90	2 x 4	5,40	2370	2 x OPK0239
Total flow: 16.200 m³/h				
12,5	2 x 1,5	2,10	645	2 x OPK0101
20	2 x 1,5	2,48	725	2 x OPK0405
25	2 x 2,2	2,75	777	2 x OPK0406
30	2 x 2,2	3,04	828	2 x OPK0409
35	2 x 2,2	3,34	879	2 x OPK0071
40	2 x 3	4,65	1134	2 x OPK0354
45	2 x 3	4,93	1181	2 x OPK0369
50	2 x 4	5,21	1227	2 x OPK0165
60	2 x 4	5,79	1319	2 x OPK0164
70	2 x 4	5,27	2325	2 x OPK0423
80	2 x 4	5,79	2406	2 x OPK0241
90	2 x 4	6,33	2486	2 x OPK0240
Total flow: 18.000 m³/h				
12,5	2 x 2,2	2,72	688	2 x OPK0411
20	2 x 2,2	3,14	761	2 x OPK0381
25	2 x 2,2	3,42	808	2 x OPK0380
30	2 x 3	3,72	855	2 x OPK0387
35	2 x 3	4,04	902	2 x OPK0386
40	2 x 3	4,36	947	2 x OPK0383
45	2 x 3	4,70	992	2 x OPK0413
50	2 x 4	6,42	1266	2 x OPK0165
60	2 x 5,5	6,84	1325	2 x OPK0378
70	2 x 4	6,26	2458	2 x OPK0242
80	2 x 4	6,84	2535	2 x OPK0240
90	2 x 5,5	7,42	2610	2 x OPK0245
Total flow: 19.800 m³/h				
12,5	2 x 2,2	3,47	733	2 x OPK0410
20	2 x 3	3,91	800	2 x OPK0385
25	2 x 3	4,21	844	2 x OPK0387
30	2 x 3	4,53	887	2 x OPK0384
35	2 x 3	4,86	930	2 x OPK0383
40	2 x 4	5,20	972	2 x OPK0388
45	2 x 4	5,55	1014	2 x OPK0417
50	2 x 4	5,92	1055	2 x OPK0418
60	2 x 5,5	8,50	1388	2 x OPK0168
70	2 x 5,5	7,43	2597	2 x OPK0245
80	2 x 5,5	8,03	2670	2 x OPK0246
90	2 x 5,5	8,65	2741	2 x OPK0246
Total flow: 21.600 m³/h				
12,5	2 x 3	4,36	780	2 x OPK0385
20	2 x 3	4,82	842	2 x OPK0387
25	2 x 4	5,14	882	2 x OPK0416
30	2 x 4	5,48	922	2 x OPK0390
35	2 x 4	5,82	962	2 x OPK0388
40	2 x 4	6,18	1001	2 x OPK0417
45	2 x 4	6,56	1040	2 x OPK0389
50	2 x 5,5	6,92	1079	2 x OPK0392
60	2 x 5,5	7,72	1155	2 x OPK0391
70	2 x 5,5	8,76	2741	2 x OPK0246
80	2 x 5,5	9,40	2810	2 x OPK0247
90	2 x 7,5	10,06	2878	2 x OPK0424

Space Aqua XF - 420				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.400 m³/h				
12,5	2 x 1,1	1,28	487	2 x OPK0559
20	2 x 1,1	1,70	572	2 x OPK0558
25	2 x 1,5	2,20	750	2 x OPK0404
30	2 x 2,2	2,48	807	2 x OPK0380
35	2 x 2,2	3,44	1043	2 x OPK0402
40	2 x 3	3,68	1095	2 x OPK0370
45	2 x 3	3,94	1147	2 x OPK0354
50	2 x 3	4,22	1198	2 x OPK0369
60	2 x 3	4,54	1261	2 x OPK0515
70	2 x 3	4,16	1813	2 x OPK0597
80	2 x 3	4,70	1898	2 x OPK0601
90	2 x 4	5,40	2369	2 x OPK0242
Total flow: 16.200 m³/h				
12,5	2 x 1,1	1,63	510	2 x OPK0559
20	2 x 1,5	2,09	594	2 x OPK0561
25	2 x 1,5	2,42	647	2 x OPK0563
30	2 x 2,2	3,04	827	2 x OPK0409
35	2 x 2,2	3,34	878	2 x OPK0536
40	2 x 3	4,65	1134	2 x OPK0354
45	2 x 4	4,92	1180	2 x OPK0374
50	2 x 4	5,20	1227	2 x OPK0165
60	2 x 4	5,79	1318	2 x OPK0164
70	2 x 3	4,85	1893	2 x OPK0597
80	2 x 4	5,79	2406	2 x OPK0242
90	2 x 4	6,33	2485	2 x OPK0315
Total flow: 18.000 m³/h				
12,5	2 x 1,5	2,04	535	2 x OPK0180
20	2 x 2,2	2,54	614	2 x OPK0184
25	2 x 2,2	2,90	663	2 x OPK0183
30	2 x 2,2	3,26	710	2 x OPK0566
35	2 x 3	4,02	901	2 x OPK0386
40	2 x 3	4,36	946	2 x OPK0383
45	2 x 3	4,70	992	2 x OPK0630
50	2 x 4	6,40	1265	2 x OPK0165
60	2 x 4	5,70	2377	2 x OPK0242
70	2 x 4	6,26	2457	2 x OPK0315
80	2 x 4	6,24	2055	2 x OPK0609
90	2 x 5,5	7,40	2609	2 x OPK0611
Total flow: 19.800 m³/h				
12,5	2 x 1,5	2,52	563	2 x OPK0180
20	2 x 2,2	3,06	636	2 x OPK0395
25	2 x 2,2	3,43	683	2 x OPK0183
30	2 x 3	3,82	727	2 x OPK0569
35	2 x 3	4,16	764	2 x OPK0569
40	2 x 4	5,19	971	2 x OPK0388
45	2 x 4	5,54	1013	2 x OPK0389
50	2 x 4	5,91	1054	2 x OPK0418
60	2 x 5,5	8,49	1387	2 x OPK0378
70	2 x 5,5	7,42	2596	2 x OPK0611
80	2 x 5,5	8,03	2669	2 x OPK0246
90	2 x 5,5	8,64	2740	2 x OPK0246
Total flow: 21.600 m³/h				
12,5	2 x 2,2	3,08	592	2 x OPK0184
20	2 x 3	3,66	661	2 x OPK0397
25	2 x 3	4,06	704	2 x OPK0189
30	2 x 3	4,48	747	2 x OPK0569
35	2 x 4	4,90	788	2 x OPK0197
40	2 x 4	5,34	828	2 x OPK0398
45	2 x 4	5,46	839	2 x OPK0398
50	2 x 5,5	6,92	1078	2 x OPK0391
60	2 x 5,5	7,70	1154	2 x OPK0391
70	2 x 5,5	8,76	2740	2 x OPK0246
80	2 x 5,5	8,24	2236	2 x OPK0269
90	2 x 5,5	8,94	2303	2 x OPK0269

Space Aqua XF - 480				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.560 m³/h				
15	2 x 1,1	1,76	638	2 x OPK0403
20	2 x 1,5	2,00	696	2 x OPK0068
25	2 x 1,5	2,26	753	2 x OPK0404
30	2 x 2,2	3,28	996	2 x OPK0053
35	2 x 2,2	3,52	1048	2 x OPK0402
40	2 x 3	3,76	1099	2 x OPK0370
45	2 x 3	4,02	1151	2 x OPK0354
50	2 x 3	4,30	1201	2 x OPK0369
60	2 x 3	4,86	1301	2 x OPK0060
70	2 x 3	4,48	2211	2 x OPK0235
80	2 x 3	4,98	2297	2 x OPK0236
90	2 x 4	5,48	2380	2 x OPK0239
Total flow: 16.380 m³/h				
15	2 x 1,5	2,28	676	2 x OPK0379
20	2 x 2,2	2,54	729	2 x OPK0408
25	2 x 2,2	2,82	780	2 x OPK0406
30	2 x 2,2	3,10	831	2 x OPK0409
35	2 x 2,2	3,41	881	2 x OPK0407
40	2 x 3	4,76	1139	2 x OPK0354
45	2 x 4	5,04	1185	2 x OPK0374
50	2 x 4	5,32	1231	2 x OPK0165
60	2 x 4	5,91	1322	2 x OPK0164
70	2 x 4	5,36	2338	2 x OPK0239
80	2 x 4	5,89	2419	2 x OPK0242
90	2 x 4	6,44	2498	2 x OPK0240
Total flow: 18.200 m³/h				
15	2 x 2,2	2,94	717	2 x OPK0408
20	2 x 2,2	3,22	765	2 x OPK0381
25	2 x 2,2	3,50	812	2 x OPK0380
30	2 x 3	3,80	859	2 x OPK0387
35	2 x 3	4,12	905	2 x OPK0386
40	2 x 3	4,46	950	2 x OPK0414
45	2 x 3	4,80	995	2 x OPK0412
50	2 x 4	6,56	1271	2 x OPK0165
60	2 x 5,5	6,86	1311	2 x OPK0378
70	2 x 4	6,46	2484	2 x OPK0240
80	2 x 5,5	6,96	2550	2 x OPK0248
90	2 x 5,5	7,50	2619	2 x OPK0245
Total flow: 20.020 m³/h				
15	2 x 3	3,72	761	2 x OPK0415
20	2 x 3	4,01	805	2 x OPK0385
25	2 x 3	4,32	849	2 x OPK0387
30	2 x 3	4,64	892	2 x OPK0386
35	2 x 3	4,97	934	2 x OPK0383
40	2 x 4	5,32	976	2 x OPK0388
45	2 x 4	5,67	1017	2 x OPK0417
50	2 x 4	6,04	1058	2 x OPK0418
60	2 x 5,5	8,70	1394	2 x OPK0168
70	2 x 5,5	7,58	2615	2 x OPK0245
80	2 x 5,5	8,20	2687	2 x OPK0246
90	2 x 5,5	8,82	2758	2 x OPK0246
Total flow: 21.600 m³/h				
15	2 x 3	4,64	808	2 x OPK0385
20	2 x 3	4,96	848	2 x OPK0387
25	2 x 4	5,28	888	2 x OPK0416
30	2 x 4	5,62	928	2 x OPK0390
35	2 x 4	5,98	967	2 x OPK0388
40	2 x 4	6,34	1006	2 x OPK0417
45	2 x 5,5	6,70	1045	2 x OPK0392
50	2 x 5,5	7,04	1078	2 x OPK0392
60	2 x 5,5	7,88	1158	2 x OPK0391
70	2 x 5,5	8,92	2757	2 x OPK0246
80	2 x 7,5	9,62	2830	2 x OPK0424
90	2 x 7,5	10,28	2897	2 x OPK0424

Note: for other available pressures consult optional of plug-fan.



OUTLET FAN

■ Tables of selection of the ventilation group

Space Aqua XF - 485				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.560 m³/h				
15	2 x 1,1	1,42	512	2 x OPK0558
20	2 x 1,1	1,72	571	2 x OPK0558
25	2 x 1,5	2,22	745	2 x OPK0404
30	2 x 2,2	2,48	801	2 x OPK0380
35	2 x 3	3,48	1040	2 x OPK0368
40	2 x 3	3,74	1092	2 x OPK0370
45	2 x 3	3,98	1143	2 x OPK0354
50	2 x 3	4,26	1194	2 x OPK0369
60	2 x 2,2	3,96	2115	2 x OPK0593
70	2 x 3	4,44	2204	2 x OPK0235
80	2 x 3	4,72	1899	2 x OPK0601
90	2 x 4	5,44	2374	2 x OPK0242
Total flow: 16.200 m³/h				
15	2 x 1,1	1,73	530	2 x OPK0558
20	2 x 1,5	2,04	586	2 x OPK0561
25	2 x 1,5	2,37	638	2 x OPK0563
30	2 x 2,2	2,99	819	2 x OPK0409
35	2 x 2,2	3,29	870	2 x OPK0409
40	2 x 3	4,61	1126	2 x OPK0354
45	2 x 4	4,88	1173	2 x OPK0374
50	2 x 4	5,16	1219	2 x OPK0165
60	2 x 4	5,74	1311	2 x OPK0164
70	2 x 3	4,81	1886	2 x OPK0597
80	2 x 4	5,75	2399	2 x OPK0242
90	2 x 4	6,28	2479	2 x OPK0315
Total flow: 18.200 m³/h				
15	2 x 1,5	2,18	554	2 x OPK0180
20	2 x 2,2	2,52	606	2 x OPK0184
25	2 x 2,2	2,88	655	2 x OPK0183
30	2 x 2,2	3,24	703	2 x OPK0566
35	2 x 3	4,04	894	2 x OPK0386
40	2 x 3	4,38	940	2 x OPK0383
45	2 x 4	4,72	985	2 x OPK0389
50	2 x 5,5	6,50	1261	2 x OPK0378
60	2 x 5,5	7,10	1344	2 x OPK0378
70	2 x 4	6,32	2464	2 x OPK0242
80	2 x 4	6,90	2541	2 x OPK0609
90	2 x 5,5	7,48	2616	2 x OPK0611
Total flow: 20.020 m³/h				
15	2 x 2,2	2,67	579	2 x OPK0184
20	2 x 2,2	3,04	627	2 x OPK0395
25	2 x 2,2	3,41	674	2 x OPK0183
30	2 x 3	3,80	719	2 x OPK0189
35	2 x 3	4,20	762	2 x OPK0569
40	2 x 4	5,22	964	2 x OPK0388
45	2 x 4	5,57	1006	2 x OPK0389
50	2 x 4	5,93	1047	2 x OPK0418
60	2 x 4	5,86	1039	2 x OPK0418
70	2 x 5,5	7,50	2604	2 x OPK0611
80	2 x 5,5	8,11	2677	2 x OPK0246
90	2 x 5,5	8,73	2748	2 x OPK0246
Total flow: 21.840 m³/h				
15	2 x 2,2	3,24	605	2 x OPK0184
20	2 x 2,2	3,64	651	2 x OPK0395
25	2 x 3	4,04	695	2 x OPK0189
30	2 x 3	4,44	737	2 x OPK0569
35	2 x 4	4,88	778	2 x OPK0197
40	2 x 4	5,30	818	2 x OPK0398
45	2 x 4	5,48	834	2 x OPK0398
50	2 x 5,5	7,02	1077	2 x OPK0391
60	2 x 5,5	7,74	1146	2 x OPK0391
70	2 x 5,5	8,84	2749	2 x OPK0246
80	2 x 5,5	8,28	2238	2 x OPK0269
90	2 x 5,5	9,00	2306	2 x OPK0269

Space Aqua XF - 540				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 16.320 m³/h				
15	2 x 1,5	1,86	552	2 x OPK0180
20	2 x 1,5	2,12	595	2 x OPK0561
25	2 x 1,5	2,46	648	2 x OPK0563
30	2 x 2,2	3,08	829	2 x OPK0409
35	2 x 2,2	3,38	879	2 x OPK0536
40	2 x 3	4,72	1136	2 x OPK0354
45	2 x 4	5,00	1183	2 x OPK0374
50	2 x 4	5,28	1229	2 x OPK0165
60	2 x 4	5,86	1320	2 x OPK0164
70	2 x 4	5,32	2333	2 x OPK0239
80	2 x 4	5,86	2414	2 x OPK0242
90	2 x 4	6,40	2493	2 x OPK0315
Total flow: 18.360 m³/h				
15	2 x 2,2	2,29	567	2 x OPK0184
20	2 x 2,2	2,63	618	2 x OPK0184
25	2 x 2,2	2,99	667	2 x OPK0183
30	2 x 2,2	3,36	714	2 x OPK0566
35	2 x 3	4,18	906	2 x OPK0386
40	2 x 3	4,51	951	2 x OPK0383
45	2 x 4	4,85	995	2 x OPK0389
50	2 x 5,5	6,68	1273	2 x OPK0378
60	2 x 5,5	7,30	1356	2 x OPK0378
70	2 x 4	6,48	2484	2 x OPK0315
80	2 x 5,5	7,05	2561	2 x OPK0245
90	2 x 5,5	7,64	2635	2 x OPK0611
Total flow: 20.400 m³/h				
15	2 x 2,2	2,88	597	2 x OPK0184
20	2 x 2,2	3,26	644	2 x OPK0395
25	2 x 3	3,64	690	2 x OPK0189
30	2 x 3	4,04	734	2 x OPK0569
35	2 x 3	4,44	776	2 x OPK0568
40	2 x 4	5,50	980	2 x OPK0389
45	2 x 4	5,86	1021	2 x OPK0389
50	2 x 4	6,22	1062	2 x OPK0418
60	2 x 5,5	7,00	1141	2 x OPK0391
70	2 x 4	7,84	2643	2 x OPK0242
80	2 x 5,5	8,46	2715	2 x OPK0246
90	2 x 5,5	8,20	2243	2 x OPK0269
Total flow: 22.440 m³/h				
15	2 x 3	3,58	628	2 x OPK0190
20	2 x 3	3,98	673	2 x OPK0397
25	2 x 3	4,39	715	2 x OPK0189
30	2 x 3	4,81	757	2 x OPK0569
35	2 x 4	5,25	797	2 x OPK0197
40	2 x 4	5,69	836	2 x OPK0398
45	2 x 4	6,15	874	2 x OPK0398
50	2 x 5,5	7,44	1090	2 x OPK0391
60	2 x 5,5	8,24	1164	2 x OPK0391
70	2 x 5,5	8,06	2212	2 x OPK0614
80	2 x 5,5	8,77	2280	2 x OPK0269
90	2 x 7,5	10,78	2943	2 x OPK0616
Total flow: 24.480 m³/h				
15	2 x 3	4,40	662	2 x OPK0397
20	2 x 4	4,82	703	2 x OPK0198
25	2 x 4	5,26	743	2 x OPK0399
30	2 x 4	5,72	782	2 x OPK0197
35	2 x 5,5	6,18	820	2 x OPK0547
40	2 x 5,5	6,66	857	2 x OPK0547
45	2 x 5,5	7,14	893	2 x OPK0200
50	2 x 5,5	7,64	928	2 x OPK0546
60	2 x 7,5	10,58	2915	2 x OPK0616
70	2 x 7,5	11,28	2980	2 x OPK0616
80	2 x 7,5	10,20	2392	2 x OPK0275
90	2 x 7,5	10,98	2455	2 x OPK0276

Space Aqua XF - 600				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 19.200 m³/h				
15	2 x 2,2	2,80	617	2 x OPK0184
20	2 x 2,2	3,16	665	2 x OPK0184
25	2 x 2,2	3,54	711	2 x OPK0183
30	2 x 2,2	3,92	755	2 x OPK0566
35	2 x 3	4,82	952	2 x OPK0569
40	2 x 3	5,16	995	2 x OPK0383
45	2 x 4	5,52	1038	2 x OPK0389
50	2 x 4	7,90	1365	2 x OPK0418
60	2 x 5,5	6,36	2464	2 x OPK0378
70	2 x 4	6,16	2030	2 x OPK0609
80	2 x 5,5	7,54	2615	2 x OPK0611
90	2 x 5,5	8,14	2688	2 x OPK0246
Total flow: 21.600 m³/h				
15	2 x 2,2	3,17	602	2 x OPK0184
20	2 x 2,2	3,55	648	2 x OPK0395
25	2 x 3	3,95	692	2 x OPK0189
30	2 x 3	4,36	735	2 x OPK0569
35	2 x 4	4,78	776	2 x OPK0197
40	2 x 4	5,21	816	2 x OPK0197
45	2 x 4	5,65	855	2 x OPK0398
50	2 x 5,5	6,81	1067	2 x OPK0392
60	2 x 5,5	7,58	1143	2 x OPK0391
70	2 x 5,5	8,66	2730	2 x OPK0246
80	2 x 5,5	8,14	2226	2 x OPK0614
90	2 x 5,5	8,84	2294	2 x OPK0269
Total flow: 24.000 m³/h				
15	2 x 3	4,06	639	2 x OPK0190
20	2 x 3	4,46	681	2 x OPK0397
25	2 x 3	4,90	722	2 x OPK0189
30	2 x 4	5,34	762	2 x OPK0399
35	2 x 4	5,78	801	2 x OPK0197
40	2 x 4	6,26	838	2 x OPK0398
45	2 x 5,5	6,72	875	2 x OPK0200
50	2 x 5,5	7,20	911	2 x OPK0200
60	2 x 5,5	8,24	2220	2 x OPK0614
70	2 x 7,5	10,70	2928	2 x OPK0616
80	2 x 7,5	9,72	2354	2 x OPK0275
90	2 x 7,5	10,48	2418	2 x OPK0275
Total flow: 26.400 m³/h				
15	2 x 4	5,10	678	2 x OPK0198
20	2 x 4	5,55	717	2 x OPK0198
25	2 x 4	6,01	755	2 x OPK0399
30	2 x 4	6,49	792	2 x OPK0197
35	2 x 5,5	6,98	829	2 x OPK0547
40	2 x 5,5	7,47	864	2 x OPK0547
45	2 x 5,5	7,96	899	2 x OPK0200
50	2 x 5,5	8,48	933	2 x OPK0546
60	2 x 7,5	9,53	999	2 x OPK0552
70	2 x 7,5	10,74	2426	2 x OPK0276
80	2 x 7,5	11,54	2488	2 x OPK0276
90	--	--	--	--
Total flow: 28.800 m³/h				
15	2 x 4	6,34	719	2 x OPK0198
20	2 x 5,5	6,84	755	2 x OPK0548
25	2 x 5,5	7,34	791	2 x OPK0545
30	2 x 5,5	7,84	826	2 x OPK0547
35	2 x 5,5	8,36	860	2 x OPK0547
40	2 x 7,5	8,88	893	2 x OPK0555
45	2 x 7,5	9,42	926	2 x OPK0550
50	2 x 7,5	9,96	958	2 x OPK0550
60	2 x 7,5	11,06	1021	2 x OPK0552
70	--	--	--	--
80	--	--	--	--
90	--	--	--	--

Note: for other available pressures consult optional of plug-fan.



Compact water-air rooftop units

OUTLET FAN

■ Tables of selection of the ventilation group

Space Aqua XF - 650 (without gas burner)				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 22.000 m ³ /h				
17,5	2 x 2,2	3,11	584	2 x OPK0184
20	2 x 2,2	3,30	607	2 x OPK0184
25	2 x 2,2	3,69	652	2 x OPK0395
30	2 x 3	4,09	696	2 x OPK0189
35	2 x 3	4,50	738	2 x OPK0569
40	2 x 4	4,92	779	2 x OPK0197
45	2 x 4	5,36	819	2 x OPK0398
50	2 x 4	5,81	858	2 x OPK0398
60	2 x 5,5	7,43	1109	2 x OPK0391
70	2 x 5,5	7,33	2141	2 x OPK0272
80	2 x 5,5	8,03	2212	2 x OPK0614
90	2 x 5,5	8,73	2280	2 x OPK0269
100	2 x 7,5	9,45	2346	2 x OPK0275
Total flow: 24.750 m ³ /h				
17,5	2 x 3	4,03	617	2 x OPK0190
20	2 x 3	4,24	639	2 x OPK0190
25	2 x 3	4,66	680	2 x OPK0397
30	2 x 4	5,10	721	2 x OPK0198
35	2 x 4	5,54	760	2 x OPK0399
40	2 x 4	6,00	798	2 x OPK0197
45	2 x 4	6,48	836	2 x OPK0197
50	2 x 5,5	6,95	872	2 x OPK0200
60	2 x 5,5	7,94	942	2 x OPK0200
70	2 x 5,5	9,00	2288	2 x OPK0633
80	2 x 7,5	9,76	2354	2 x OPK0275
90	2 x 7,5	10,53	2418	2 x OPK0275
100	2 x 7,5	11,31	2480	2 x OPK0276
Total flow: 27.500 m ³ /h				
17,5	2 x 4	5,15	654	2 x OPK0194
20	2 x 4	5,39	674	2 x OPK0198
25	2 x 4	5,84	712	2 x OPK0198
30	2 x 4	6,31	749	2 x OPK0399
35	2 x 5,5	6,80	786	2 x OPK0401
40	2 x 5,5	7,29	822	2 x OPK0201
45	2 x 5,5	7,79	857	2 x OPK0201
50	2 x 5,5	8,29	891	2 x OPK0200
60	2 x 7,5	9,35	958	2 x OPK0550
70	2 x 7,5	10,99	2441	2 x OPK0276
80	2 x 7,5	11,81	2503	2 x OPK0276
90	3 x 5,5	11,65	2650	3 x OPK0246
100	3 x 5,5	12,55	2722	3 x OPK0246
Total flow: 30.250 m ³ /h				
17,5	2 x 4	6,54	697	2 x OPK0198
20	2 x 5,5	6,74	711	2 x OPK0199
25	2 x 5,5	7,24	747	2 x OPK0199
30	2 x 5,5	7,75	781	2 x OPK0401
35	2 x 5,5	8,26	816	2 x OPK0201
40	2 x 5,5	8,79	849	2 x OPK0201
45	2 x 7,5	9,32	882	2 x OPK0555
50	2 x 7,5	9,87	914	2 x OPK0555
60	2 x 7,5	10,98	977	2 x OPK0552
70	3 x 5,5	11,78	2646	3 x OPK0611
80	3 x 5,5	12,71	2718	3 x OPK0246
90	3 x 7,5	13,65	2788	3 x OPK0623
100	3 x 5,5	13,41	2319	3 x OPK0269
Total flow: 33.000 m ³ /h				
17,5	2 x 5,5	8,08	734	2 x OPK0199
20	2 x 5,5	8,35	751	2 x OPK0199
25	2 x 5,5	8,88	784	2 x OPK0201
30	2 x 7,5	9,42	816	2 x OPK0553
35	2 x 7,5	9,98	848	2 x OPK0551
40	2 x 7,5	10,54	879	2 x OPK0555
45	2 x 7,5	11,11	910	2 x OPK0555
50	2 x 7,5	11,68	941	2 x OPK0550
60	3 x 5,5	11,01	2142	3 x OPK0272
70	3 x 5,5	12,05	2212	3 x OPK0614
80	3 x 5,5	13,10	2280	3 x OPK0269
90	3 x 7,5	14,18	2347	3 x OPK0275
100	3 x 7,5	15,27	2411	3 x OPK0275

Space Aqua XF - 650 (with gas burner)				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 22.000 m ³ /h				
17,5	2 x 2,2	3,11	584	2 x OPK0184
20	2 x 2,2	3,30	607	2 x OPK0184
25	2 x 2,2	3,69	652	2 x OPK0395
30	2 x 3	4,09	696	2 x OPK0189
35	2 x 3	4,50	738	2 x OPK0569
40	2 x 4	4,92	779	2 x OPK0197
45	2 x 4	5,36	819	2 x OPK0398
50	2 x 4	5,81	858	2 x OPK0398
60	2 x 5,5	7,43	1109	2 x OPK0391
70	2 x 5,5	7,33	2141	2 x OPK0272
80	2 x 5,5	8,03	2212	2 x OPK0614
90	2 x 5,5	8,73	2280	2 x OPK0269
100	2 x 7,5	9,45	2346	2 x OPK0275
Total flow: 24.750 m ³ /h				
17,5	2 x 3	4,03	617	2 x OPK0190
20	2 x 3	4,24	639	2 x OPK0190
25	2 x 3	4,66	680	2 x OPK0397
30	2 x 4	5,10	721	2 x OPK0198
35	2 x 4	5,54	760	2 x OPK0399
40	2 x 4	6,00	798	2 x OPK0197
45	2 x 4	6,48	836	2 x OPK0197
50	2 x 5,5	6,95	872	2 x OPK0200
60	2 x 5,5	7,94	942	2 x OPK0200
70	2 x 5,5	9,00	2288	2 x OPK0633
80	2 x 7,5	9,76	2354	2 x OPK0275
90	2 x 7,5	10,53	2418	2 x OPK0275
100	2 x 7,5	11,31	2480	2 x OPK0276
Total flow: 27.500 m ³ /h				
17,5	2 x 4	5,15	654	2 x OPK0194
20	2 x 4	5,39	674	2 x OPK0198
25	2 x 4	5,84	712	2 x OPK0198
30	2 x 4	6,31	749	2 x OPK0399
35	2 x 5,5	6,80	786	2 x OPK0401
40	2 x 5,5	7,29	822	2 x OPK0201
45	2 x 5,5	7,79	857	2 x OPK0201
50	2 x 5,5	8,29	891	2 x OPK0200
60	2 x 7,5	9,35	958	2 x OPK0550
70	2 x 7,5	10,99	2441	2 x OPK0276
80	2 x 7,5	11,81	2503	2 x OPK0276
90	3 x 5,5	11,65	2650	3 x OPK0246
100	3 x 5,5	12,55	2722	3 x OPK0246
Total flow: 30.250 m ³ /h				
17,5	2 x 4	6,54	697	2 x OPK0198
20	2 x 5,5	6,74	711	2 x OPK0199
25	2 x 5,5	7,24	747	2 x OPK0199
30	2 x 5,5	7,75	781	2 x OPK0401
35	2 x 5,5	8,26	816	2 x OPK0201
40	2 x 5,5	8,79	849	2 x OPK0201
45	2 x 7,5	9,32	882	2 x OPK0555
50	2 x 7,5	9,87	914	2 x OPK0555
60	2 x 7,5	10,98	977	2 x OPK0552
70	3 x 5,5	11,78	2646	3 x OPK0611
80	3 x 5,5	12,71	2718	3 x OPK0246
90	3 x 7,5	13,65	2788	3 x OPK0623
100	1 x 18,5	15,53	1168	1 x OPK0648
Total flow: 33.000 m ³ /h				
17,5	2 x 5,5	8,08	734	2 x OPK0199
20	2 x 5,5	8,35	751	2 x OPK0199
25	2 x 5,5	8,88	784	2 x OPK0201
30	2 x 7,5	9,42	816	2 x OPK0553
35	2 x 7,5	9,98	848	2 x OPK0551
40	2 x 7,5	10,54	879	2 x OPK0555
45	2 x 7,5	11,11	910	2 x OPK0555
50	2 x 7,5	11,68	941	2 x OPK0550
60	1 x 18,5	16,75	1168	1 x OPK0645
70	1 x 22	17,28	1241	1 x OPK0648
80	1 x 22	17,65	1290	1 x OPK0648
90	1 x 22	18,25	1325	1 x OPK0648
100	1 x 22	18,50	1425	1 x OPK0648

Note: for other available pressures consult optional of plug-fan.



Compact water-air rooftop units

Space Aqua XF

OUTLET FAN

■ Tables of selection of the ventilation group

Space Aqua XF - 720 (without gas burner)				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 24.000 m ³ /h				
17,5	2 x 3	3,67	598	2 x OPK0570
20	2 x 3	3,88	620	2 x OPK0190
25	2 x 3	4,29	663	2 x OPK0397
30	2 x 3	4,71	705	2 x OPK0189
35	2 x 4	5,15	745	2 x OPK0399
40	2 x 4	5,59	784	2 x OPK0197
45	2 x 4	6,06	823	2 x OPK0197
50	2 x 4	6,52	860	2 x OPK0196
60	2 x 5,5	7,49	932	2 x OPK0200
70	2 x 5,5	8,44	2240	2 x OPK0633
80	2 x 5,5	9,18	2307	2 x OPK0633
90	2 x 7,5	9,93	2373	2 x OPK0275
100	2 x 7,5	10,69	2436	2 x OPK0276
Total flow: 27.000 m ³ /h				
17,5	2 x 3	4,81	636	2 x OPK0190
20	2 x 4	5,04	656	2 x OPK0194
25	2 x 4	5,48	695	2 x OPK0198
30	2 x 4	5,95	734	2 x OPK0399
35	2 x 4	6,42	771	2 x OPK0197
40	2 x 5,5	6,91	808	2 x OPK0201
45	2 x 5,5	7,40	843	2 x OPK0201
50	2 x 5,5	7,89	878	2 x OPK0200
60	2 x 5,5	8,93	946	2 x OPK0200
70	2 x 7,5	10,49	2404	2 x OPK0275
80	2 x 7,5	11,30	2467	2 x OPK0276
90	3 x 5,5	11,19	2616	3 x OPK0611
100	3 x 5,5	12,08	2689	3 x OPK0246
Total flow: 30.000 m ³ /h				
17,5	2 x 4	6,21	677	2 x OPK0194
20	2 x 4	6,45	696	2 x OPK0198
25	2 x 5,5	6,93	731	2 x OPK0199
30	2 x 5,5	7,44	767	2 x OPK0199
35	2 x 5,5	7,95	801	2 x OPK0201
40	2 x 5,5	8,47	835	2 x OPK0201
45	2 x 5,5	9,00	869	2 x OPK0200
50	2 x 7,5	9,53	901	2 x OPK0555
60	2 x 7,5	10,64	965	2 x OPK0550
70	3 x 5,5	11,45	2620	3 x OPK0611
80	3 x 5,5	12,37	2693	3 x OPK0246
90	3 x 7,5	13,30	2763	3 x OPK0623
100	3 x 5,5	13,08	2300	3 x OPK0269
Total flow: 33.000 m ³ /h				
17,5	2 x 5,5	7,87	720	2 x OPK0199
20	2 x 5,5	8,14	737	2 x OPK0199
25	2 x 5,5	8,67	770	2 x OPK0401
30	2 x 7,5	9,20	803	2 x OPK0553
35	2 x 7,5	9,75	835	2 x OPK0551
40	2 x 7,5	10,31	867	2 x OPK0551
45	2 x 7,5	10,87	898	2 x OPK0555
50	2 x 7,5	11,45	929	2 x OPK0550
60	3 x 5,5	12,78	2713	3 x OPK0246
70	3 x 7,5	13,76	2783	3 x OPK0623
80	3 x 5,5	12,89	2267	3 x OPK0269
90	3 x 7,5	13,97	2333	3 x OPK0275
100	3 x 7,5	15,05	2398	3 x OPK0275
Total flow: 36.000 m ³ /h				
17,5	2 x 7,5	9,85	765	2 x OPK0554
20	2 x 7,5	10,13	781	2 x OPK0553
25	2 x 7,5	10,70	812	2 x OPK0553
30	2 x 7,5	11,27	842	2 x OPK0551
35	2 x 7,5	11,86	872	2 x OPK0555
40	2 x 7,5	12,46	901	2 x OPK0555
45	3 x 5,5	11,11	2139	3 x OPK0272
50	3 x 5,5	11,64	2175	3 x OPK0614
60	3 x 5,5	12,73	2244	3 x OPK0633
70	3 x 5,5	13,84	2311	3 x OPK0633
80	3 x 7,5	14,97	2377	3 x OPK0275
90	3 x 7,5	16,11	2440	3 x OPK0276
100	3 x 7,5	17,27	2502	3 x OPK0276

Space Aqua XF - 720 (with gas burner)				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 24.000 m ³ /h				
17,5	2 x 3	3,67	598	2 x OPK0570
20	2 x 3	3,88	620	2 x OPK0190
25	2 x 3	4,29	663	2 x OPK0397
30	2 x 3	4,71	705	2 x OPK0189
35	2 x 4	5,15	745	2 x OPK0399
40	2 x 4	5,59	784	2 x OPK0197
45	2 x 4	6,06	823	2 x OPK0197
50	2 x 4	6,52	860	2 x OPK0196
60	2 x 5,5	7,49	932	2 x OPK0200
70	2 x 5,5	8,44	2240	2 x OPK0633
80	2 x 5,5	9,18	2307	2 x OPK0633
90	2 x 7,5	9,93	2373	2 x OPK0275
100	2 x 7,5	10,69	2436	2 x OPK0276
Total flow: 27.000 m ³ /h				
17,5	2 x 3	4,81	636	2 x OPK0190
20	2 x 4	5,04	656	2 x OPK0194
25	2 x 4	5,48	695	2 x OPK0198
30	2 x 4	5,95	734	2 x OPK0399
35	2 x 4	6,42	771	2 x OPK0197
40	2 x 5,5	6,91	808	2 x OPK0201
45	2 x 5,5	7,40	843	2 x OPK0201
50	2 x 5,5	7,89	878	2 x OPK0200
60	2 x 5,5	8,93	946	2 x OPK0200
70	2 x 7,5	10,49	2404	2 x OPK0275
80	2 x 7,5	11,30	2467	2 x OPK0276
90	3 x 5,5	11,19	2616	3 x OPK0611
100	3 x 5,5	12,08	2689	3 x OPK0246
Total flow: 30.000 m ³ /h				
17,5	2 x 4	6,21	677	2 x OPK0194
20	2 x 4	6,45	696	2 x OPK0198
25	2 x 5,5	6,93	731	2 x OPK0199
30	2 x 5,5	7,44	767	2 x OPK0199
35	2 x 5,5	7,95	801	2 x OPK0201
40	2 x 5,5	8,47	835	2 x OPK0201
45	2 x 5,5	9,00	869	2 x OPK0200
50	2 x 7,5	9,53	901	2 x OPK0555
60	2 x 7,5	10,64	965	2 x OPK0550
70	3 x 5,5	11,45	2620	3 x OPK0611
80	3 x 5,5	12,37	2693	3 x OPK0246
90	3 x 7,5	13,30	2763	3 x OPK0623
100	1 x 22	18,57	1301	1 x OPK0652
Total flow: 33.000 m ³ /h				
17,5	2 x 5,5	7,87	720	2 x OPK0199
20	2 x 5,5	8,14	737	2 x OPK0199
25	2 x 5,5	8,67	770	2 x OPK0401
30	2 x 7,5	9,20	803	2 x OPK0553
35	2 x 7,5	9,75	835	2 x OPK0551
40	2 x 7,5	10,31	867	2 x OPK0551
45	2 x 7,5	10,87	898	2 x OPK0555
50	2 x 7,5	11,45	929	2 x OPK0550
60	3 x 5,5	12,78	2713	3 x OPK0246
70	3 x 7,5	13,76	2783	3 x OPK0623
80	1 x 22	18,57	1251	1 x OPK0652
90	1 x 30	20,100	1275	1 x OPK0651
100	1 x 30	20,6	1295	1 x OPK0651
Total flow: 36.000 m ³ /h				
17,5	2 x 7,5	9,85	765	2 x OPK0554
20	2 x 7,5	10,13	781	2 x OPK0553
25	2 x 7,5	10,70	812	2 x OPK0553
30	2 x 7,5	11,27	842	2 x OPK0551
35	2 x 7,5	11,86	872	2 x OPK0555
40	2 x 7,5	12,46	901	2 x OPK0555
45	1 x 18,5	17,50	1135	1 x OPK0644
50	1 x 18,5	17,80	1159	1 x OPK0644
60	1 x 22	20,01	1275	1 x OPK0652
70	1 x 22	20,43	1304	1 x OPK0652
80	1 x 30	21,25	1255	1 x OPK0651
90	1 x 30	21,60	1290	1 x OPK0651
100	1 x 30	22,05	1304	1 x OPK0651

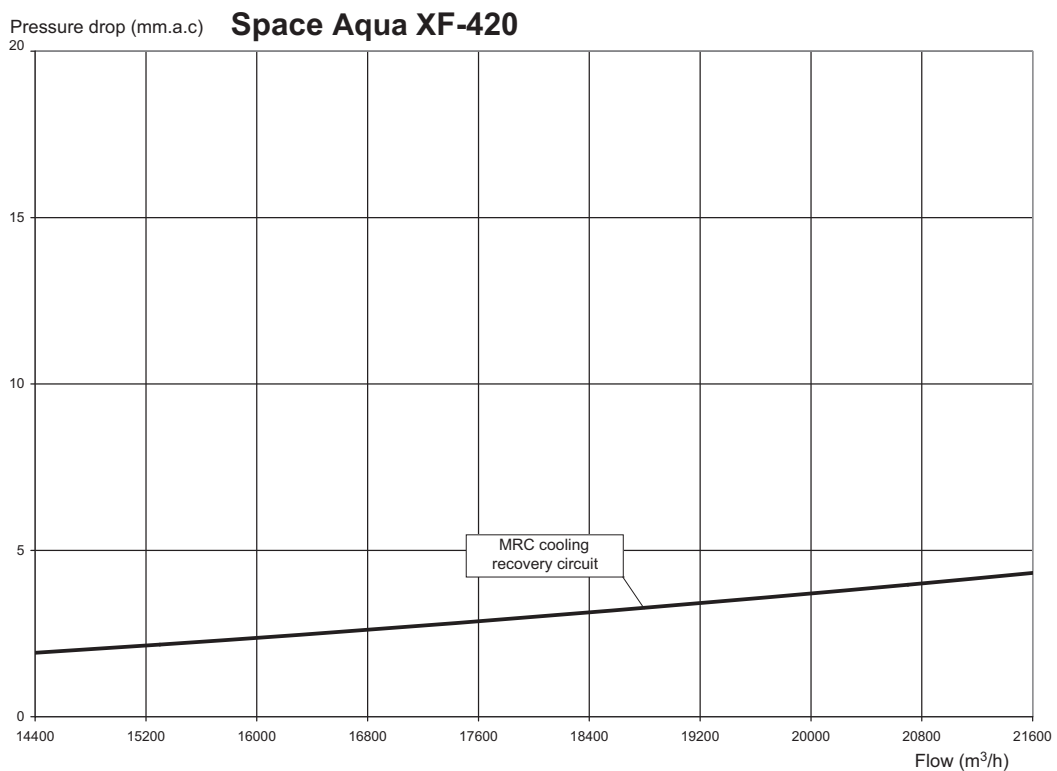
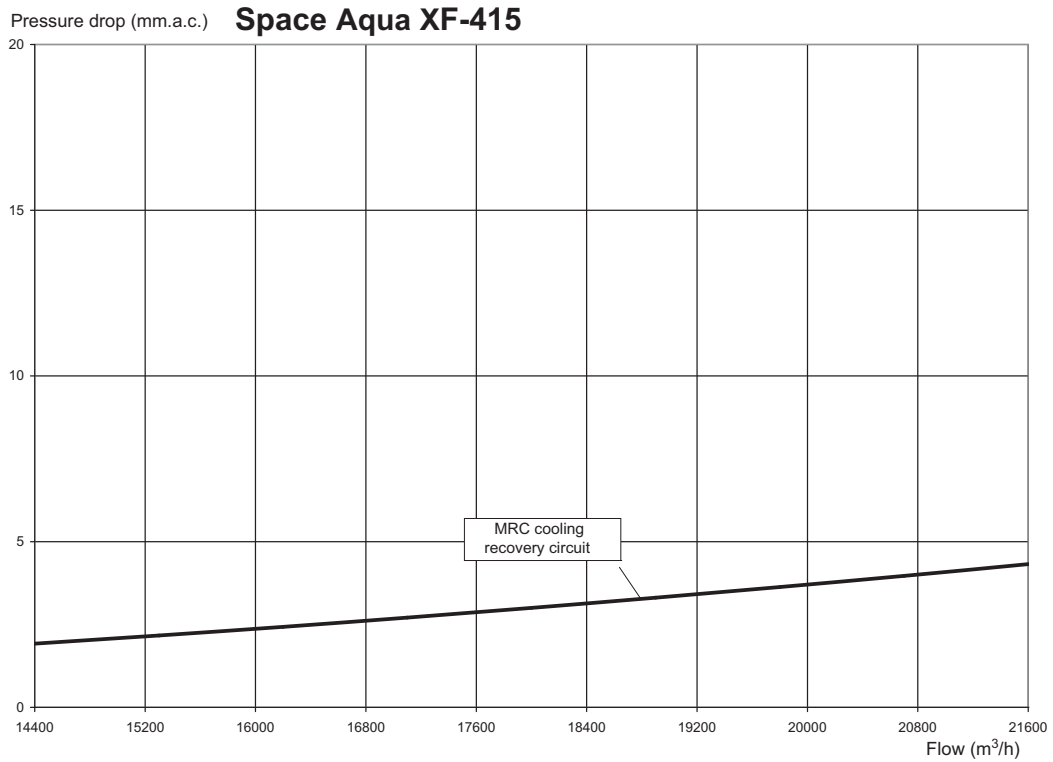
Note: for other available pressures consult optional of plug-fan.



Compact water-air rooftop units

RETURN FAN (OPTIONAL)

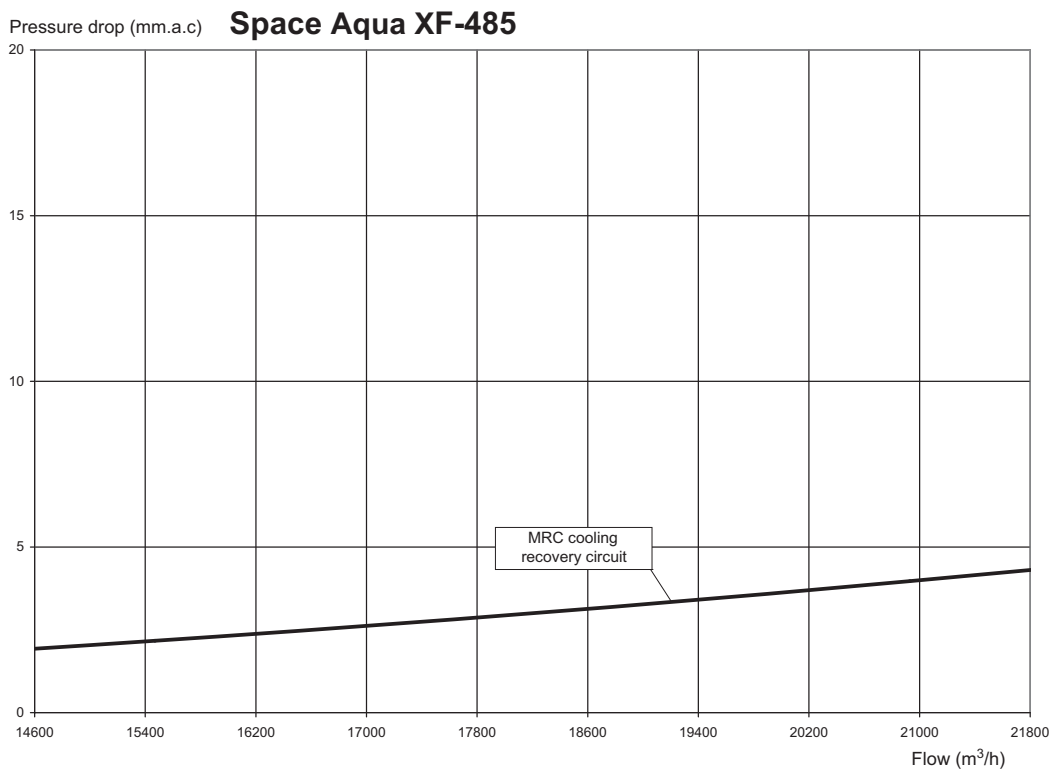
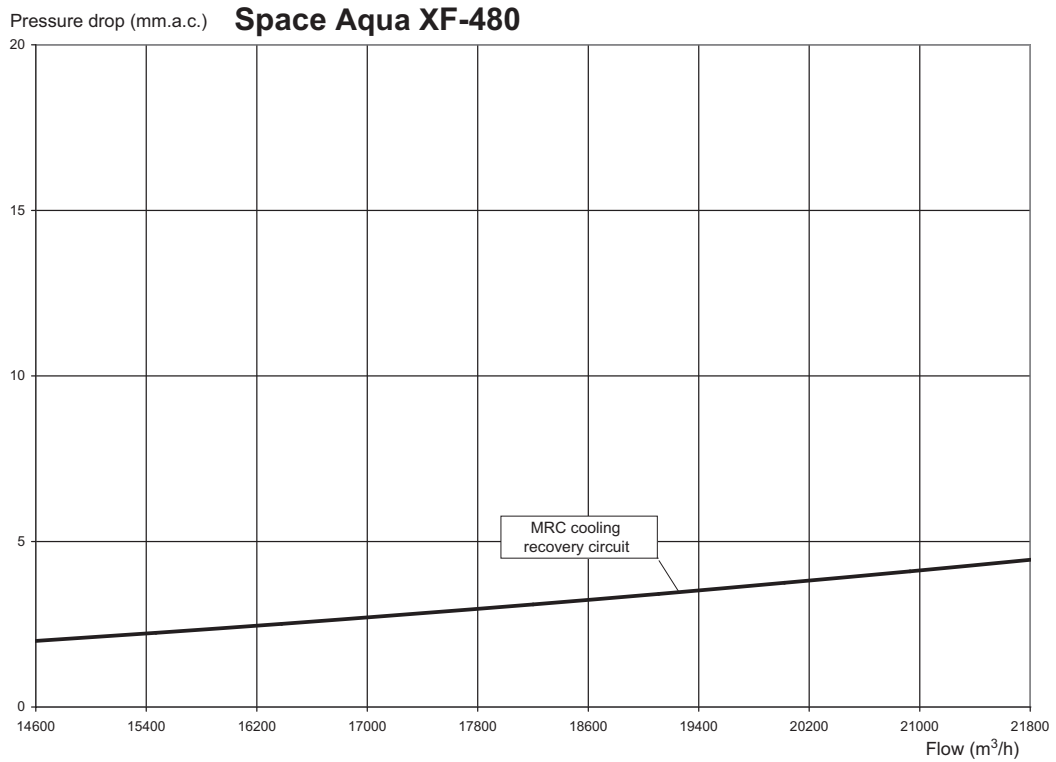
■ Pressure drops in the available options





RETURN FAN (OPTIONAL)

■ Pressure drops in the available options

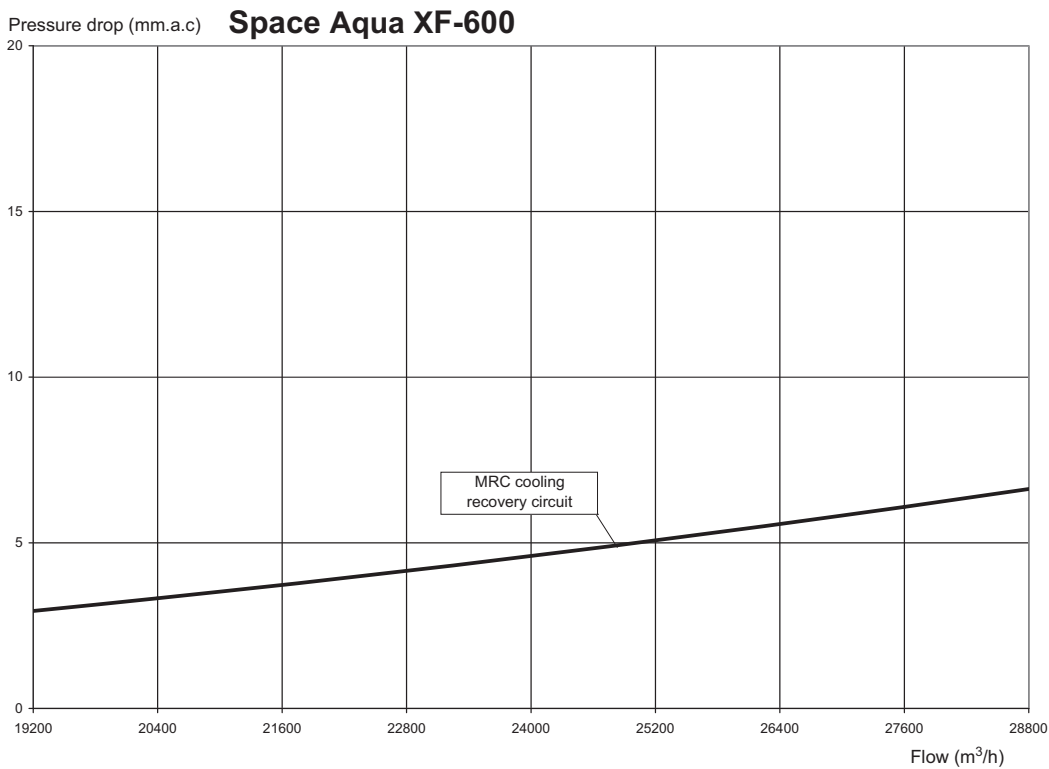
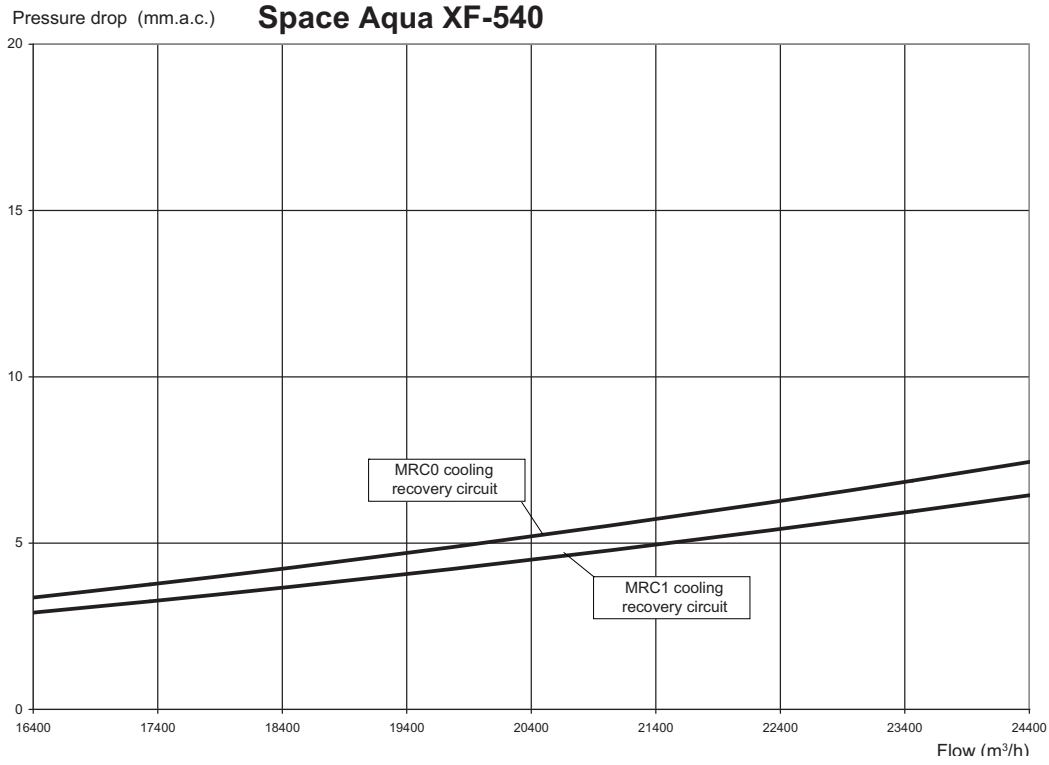




Compact water-air rooftop units

RETURN FAN (OPTIONAL)

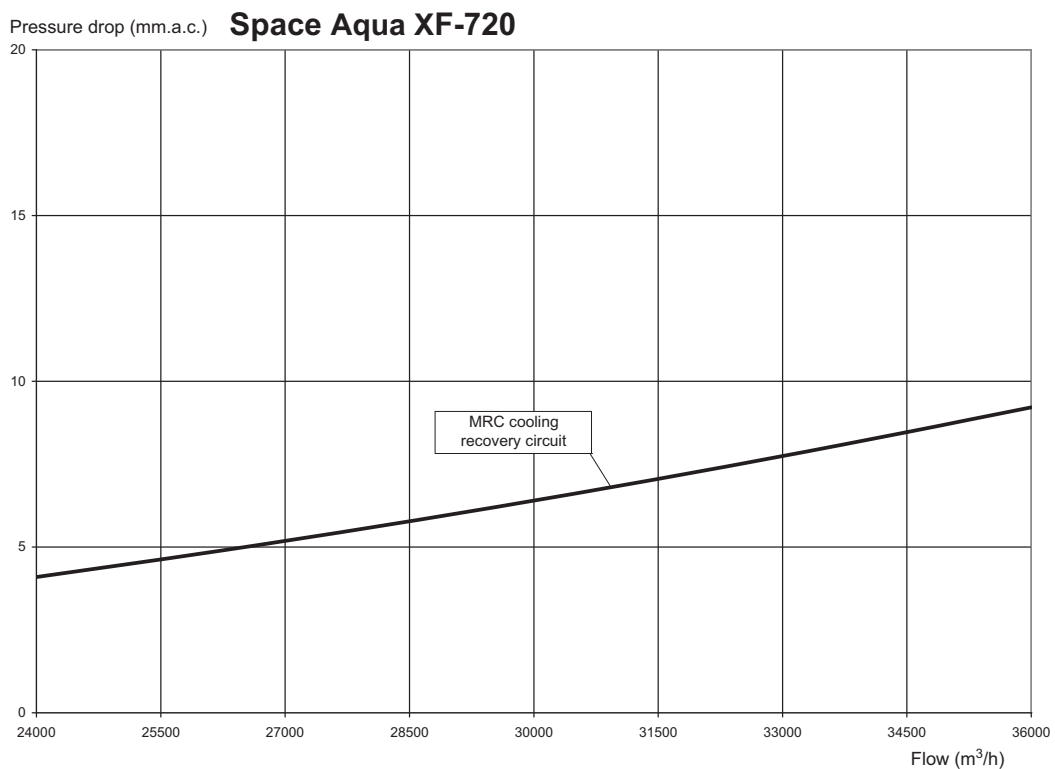
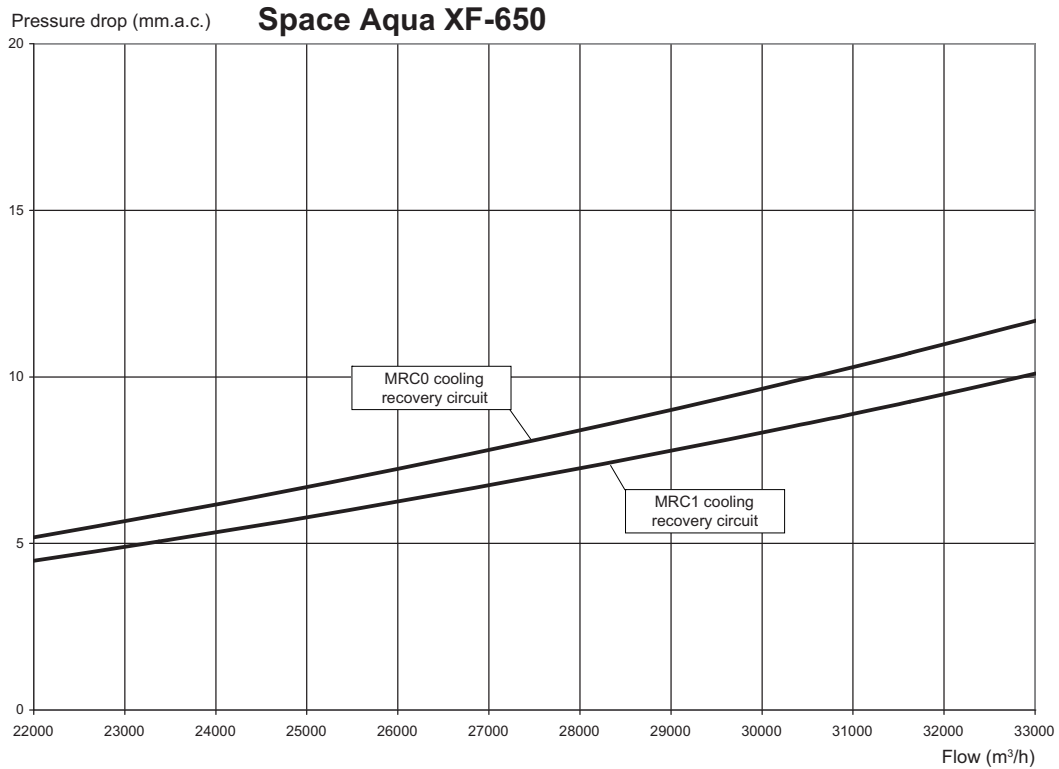
■ Pressure drops in the available options





RETURN FAN (OPTIONAL)

■ Pressure drops in the available options





Compact water-air rooftop units

RETURN FAN (OPTIONAL)

■ Pressure drops in the available options

Space Aqua XF - 415				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.400 m³/h				
15	2 x 1,1	1,52	634	2 x OPK0065
20	2 x 1,1	1,74	634	2 x OPK0064
25	2 x 1,5	1,98	705	2 x OPK0068
30	2 x 1,5	2,24	798	2 x OPK0067
35	2 x 2,2	2,52	798	2 x OPK0072
40	2 x 2,2	2,80	887	2 x OPK0071
Total flow: 16.200 m³/h				
15	2 x 1,5	1,96	634	2 x OPK0101
20	2 x 1,5	2,20	634	2 x OPK0101
25	2 x 1,5	2,46	705	2 x OPK0068
30	2 x 2,2	2,72	798	2 x OPK0072
35	2 x 2,2	3,00	798	2 x OPK0072
40	2 x 2,2	3,30	887	2 x OPK0071
Total flow: 18.000 m³/h				
15	2 x 1,5	2,50	634	2 x OPK0101
20	2 x 2,2	2,76	712	2 x OPK0103
25	2 x 2,2	3,02	712	2 x OPK0103
30	2 x 2,2	3,30	798	2 x OPK0072
35	2 x 2,2	3,60	798	2 x OPK0072
40	2 x 3	3,92	884	2 x OPK0077
Total flow: 19.800 m³/h				
15	2 x 2,2	3,14	712	2 x OPK0103
20	2 x 2,2	3,42	712	2 x OPK0103
25	2 x 3	3,72	796	2 x OPK0385
30	2 x 3	4,00	796	2 x OPK0385
35	2 x 3	4,32	884	2 x OPK0077
40	2 x 3	4,64	884	2 x OPK0077
Total flow: 21.600 m³/h				
15	2 x 3	3,92	707	2 x OPK0422
20	2 x 3	4,22	796	2 x OPK0385
25	2 x 3	4,52	796	2 x OPK0385
30	2 x 3	4,82	884	2 x OPK0077
35	2 x 4	5,16	897	2 x OPK0416
40	2 x 4	5,48	897	2 x OPK0416

Space Aqua XF - 480				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.560 m³/h				
15	2 x 1,1	1,54	599	2 x OPK0065
20	2 x 1,1	1,78	666	2 x OPK0064
25	2 x 1,5	2,02	705	2 x OPK0068
30	2 x 1,5	2,28	793	2 x OPK0067
35	2 x 2,2	2,56	798	2 x OPK0072
40	2 x 2,2	2,84	887	2 x OPK0071
Total flow: 16.380 m³/h				
15	2 x 1,5	2,00	634	2 x OPK0101
20	2 x 1,5	2,24	634	2 x OPK0101
25	2 x 2,2	2,50	712	2 x OPK0103
30	2 x 2,2	2,78	798	2 x OPK0072
35	2 x 2,2	3,06	798	2 x OPK0072
40	2 x 2,2	3,36	887	2 x OPK0071
Total flow: 18.200 m³/h				
15	2 x 2,2	2,56	673	2 x OPK0420
20	2 x 2,2	2,82	712	2 x OPK0103
25	2 x 2,2	3,09	712	2 x OPK0103
30	2 x 2,2	3,37	798	2 x OPK0072
35	2 x 3	3,67	884	2 x OPK0077
40	2 x 3	3,98	884	2 x OPK0077
Total flow: 20.020 m³/h				
15	2 x 2,2	3,24	712	2 x OPK0103
20	2 x 2,2	3,52	712	2 x OPK0103
25	2 x 3	3,80	796	2 x OPK0385
30	2 x 3	4,10	796	2 x OPK0385
35	2 x 3	4,40	884	2 x OPK0077
40	2 x 3	4,72	884	2 x OPK0077
Total flow: 21.600 m³/h				
15	2 x 3	4,02	707	2 x OPK0422
20	2 x 3	4,32	796	2 x OPK0385
25	2 x 3	4,62	796	2 x OPK0385
30	2 x 3	4,94	884	2 x OPK0077
35	2 x 4	5,26	897	2 x OPK0416
40	2 x 4	5,60	897	2 x OPK0416

Space Aqua XF - 420				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.400 m³/h				
15	2 x 1,1	1,20	464	2 x OPK0559
20	2 x 1,1	1,46	526	2 x OPK0558
25	2 x 1,5	1,98	700	2 x OPK0068
30	2 x 1,5	2,24	758	2 x OPK0404
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Total flow: 16.200 m³/h				
15	2 x 1,1	1,44	474	2 x OPK0559
20	2 x 1,1	1,74	533	2 x OPK0558
25	2 x 1,5	2,06	589	2 x OPK0561
30	2 x 1,5	2,40	641	2 x OPK0563
35	2 x 2,2	3,00	822	2 x OPK0409
40	2 x 2,2	3,30	873	2 x OPK0409
Total flow: 18.000 m³/h				
15	2 x 1,1	1,76	488	2 x OPK0559
20	2 x 1,5	2,08	543	2 x OPK0180
25	2 x 2,2	2,42	596	2 x OPK0184
30	2 x 2,2	2,76	646	2 x OPK0183
35	2 x 2,2	3,12	694	2 x OPK0566
40	2 x 3	3,92	884	2 x OPK0386
Total flow: 19.800 m³/h				
15	2 x 1,5	2,12	504	2 x OPK0335
20	2 x 1,5	2,46	555	2 x OPK0180
25	2 x 2,2	2,82	605	2 x OPK0184
30	2 x 2,2	3,20	653	2 x OPK0183
35	2 x 3	3,58	699	2 x OPK0189
40	2 x 3	3,96	743	2 x OPK0569
Total flow: 21.600 m³/h				
15	2 x 2,2	2,56	521	2 x OPK0567
20	2 x 2,2	2,92	570	2 x OPK0567
25	2 x 2,2	3,30	617	2 x OPK0184
30	2 x 3	3,68	662	2 x OPK0397
35	2 x 3	4,08	706	2 x OPK0189
40	2 x 3	4,50	749	2 x OPK0569

Space Aqua XF - 485				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 14.560 m³/h				
15	2 x 1,1	1,54	584	2 x OPK0065
20	2 x 1,1	1,78	643	2 x OPK0403
25	2 x 1,5	2,02	701	2 x OPK0068
30	2 x 1,5	2,28	758	2 x OPK0404
35	2 x 2,2	2,56	814	2 x OPK0380
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Total flow: 16.380 m³/h				
15	2 x 1,5	2,00	614	2 x OPK0532
20	2 x 1,5	2,24	667	2 x OPK0379
25	2 x 2,2	2,50	720	2 x OPK0408
30	2 x 2,2	2,78	772	2 x OPK0381
35	2 x 2,2	3,06	823	2 x OPK0409
40	2 x 2,2	3,36	873	2 x OPK0409
Total flow: 18.200 m³/h				
15	2 x 1,1	1,80	489	2 x OPK0559
20	2 x 2,2	2,12	544	2 x OPK0567
25	2 x 2,2	2,46	596	2 x OPK0180
30	2 x 2,2	2,80	646	2 x OPK0183
35	2 x 2,2	3,16	694	2 x OPK0566
40	2 x 3	3,98	885	2 x OPK0386
Total flow: 20.020 m³/h				
15	2 x 1,5	2,18	505	2 x OPK0335
20	2 x 1,5	2,52	556	2 x OPK0180
25	2 x 2,2	2,88	606	2 x OPK0184
30	2 x 2,2	3,24	653	2 x OPK0183
35	2 x 3	3,62	699	2 x OPK0189
40	2 x 3	4,02	743	2 x OPK0569
Total flow: 21.840 m³/h				
15	2 x 2,2	2,62	523	2 x OPK0567
20	2 x 2,2	2,98	571	2 x OPK0184
25	2 x 2,2	3,36	618	2 x OPK0184
30	2 x 3	3,74	663	2 x OPK0397
35	2 x 3	4,14	707	2 x OPK0189
40	2 x 3	4,56	749	2 x OPK0569

Note: for other available pressures consult optional of plug-fan.



Compact water-air rooftop units

Space Aqua XF

RETURN FAN (OPTIONAL)

■ Pressure drops in the available options

Space Aqua XF - 540				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 16.320 m³/h				
15	2 x 1,1	1,46	475	2 x OPK0559
20	2 x 1,5	1,76	534	2 x OPK0180
25	2 x 1,5	2,08	589	2 x OPK0561
30	2 x 1,5	2,42	642	2 x OPK0563
35	2 x 2,2	3,04	823	2 x OPK0409
40	2 x 2,2	3,34	873	2 x OPK0536
Total flow: 18.360 m³/h				
15	2 x 1,5	1,84	491	2 x OPK0335
20	2 x 1,5	2,16	545	2 x OPK0180
25	2 x 2,2	2,50	597	2 x OPK0184
30	2 x 2,2	2,84	647	2 x OPK0183
35	2 x 2,2	3,20	695	2 x OPK0566
40	2 x 3	4,04	887	2 x OPK0386
Total flow: 20.400 m³/h				
15	2 x 1,5	2,28	509	2 x OPK0180
20	2 x 2,2	2,62	560	2 x OPK0185
25	2 x 2,2	2,98	609	2 x OPK0184
30	2 x 2,2	3,34	656	2 x OPK0183
35	2 x 3	3,76	701	2 x OPK0189
40	2 x 3	4,14	745	2 x OPK0569
Total flow: 22.440 m³/h				
15	2 x 2,2	2,82	535	2 x OPK0185
20	2 x 2,2	3,15	578	2 x OPK0184
25	2 x 3	3,53	623	2 x OPK0190
30	2 x 3	3,93	668	2 x OPK0397
35	2 x 3	4,34	710	2 x OPK0189
40	2 x 3	4,76	752	2 x OPK0569
Total flow: 24.480 m³/h				
15	2 x 2,2	3,38	553	2 x OPK0567
20	2 x 3	3,78	597	2 x OPK0570
25	2 x 3	4,18	640	2 x OPK0190
30	2 x 3	4,60	682	2 x OPK0397
35	2 x 4	5,04	722	2 x OPK0198
40	2 x 4	5,48	762	2 x OPK0399

Space Aqua XF - 650				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 22.000 m³/h				
17,5	2 x 2,2	2,66	525	2 x OPK0567
20	2 x 2,2	2,84	549	2 x OPK0567
25	2 x 2,2	3,21	596	2 x OPK0184
30	2 x 2,2	3,60	642	2 x OPK0395
35	2 x 3	4,00	686	2 x OPK0189
40	2 x 3	4,41	729	2 x OPK0569
50	2 x 4	5,26	810	2 x OPK0197
Total flow: 24.750 m³/h				
17,5	2 x 2,2	3,40	550	2 x OPK0567
20	2 x 3	3,60	572	2 x OPK0570
25	2 x 3	4,02	615	2 x OPK0190
30	2 x 3	4,42	657	2 x OPK0397
35	2 x 4	4,86	698	2 x OPK0198
40	2 x 4	5,30	738	2 x OPK0399
50	2 x 4	6,22	815	2 x OPK0197
Total flow: 27.500 m³/h				
17,5	2 x 3	4,32	577	2 x OPK0570
20	2 x 3	4,53	598	2 x OPK0570
25	2 x 4	4,97	638	2 x OPK0194
30	2 x 4	5,42	677	2 x OPK0198
35	2 x 4	5,88	715	2 x OPK0198
40	2 x 4	6,35	753	2 x OPK0399
50	2 x 5,5	7,33	825	2 x OPK0547
Total flow: 30.250 m³/h				
17,5	2 x 4	5,40	607	2 x OPK0194
20	2 x 4	5,64	626	2 x OPK0194
25	2 x 4	6,10	663	2 x OPK0194
30	2 x 5,5	6,58	700	2 x OPK0199
35	2 x 5,5	7,08	735	2 x OPK0548
40	2 x 5,5	7,58	770	2 x OPK0548
50	2 x 5,5	8,62	839	2 x OPK0547
Total flow: 33.000 m³/h				
17,5	2 x 5,5	6,68	639	2 x OPK0544
20	2 x 5,5	6,93	657	2 x OPK0544
25	2 x 5,5	7,44	691	2 x OPK0199
30	2 x 5,5	7,95	725	2 x OPK0199
35	2 x 5,5	8,48	759	2 x OPK0548
40	2 x 7,5	9,01	792	2 x OPK0553
50	2 x 7,5	10,11	856	2 x OPK0551

Space Aqua XF - 600				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 19.200 m³/h				
15	2 x 1,5	1,99	497	2 x OPK0335
20	2 x 1,5	2,26	550	2 x OPK0180
25	2 x 2,2	2,68	601	2 x OPK0184
30	2 x 2,2	3,54	650	2 x OPK0183
35	2 x 2,2	3,42	696	2 x OPK0566
40	2 x 3	3,80	741	2 x OPK0569
Total flow: 21.600 m³/h				
15	2 x 2,2	2,56	520	2 x OPK0185
20	2 x 2,2	2,92	569	2 x OPK0185
25	2 x 2,2	3,28	616	2 x OPK0184
30	2 x 3	3,68	662	2 x OPK0397
35	2 x 3	4,08	705	2 x OPK0189
40	2 x 3	4,48	748	2 x OPK0569
Total flow: 24.000 m³/h				
15	2 x 2,2	3,22	546	2 x OPK0567
20	2 x 2,2	3,62	591	2 x OPK0194
25	2 x 3	4,02	635	2 x OPK0190
30	2 x 3	4,44	678	2 x OPK0397
35	2 x 3	4,86	719	2 x OPK0189
40	2 x 4	5,30	759	2 x OPK0399
Total flow: 26.400 m³/h				
15	2 x 3	4,02	575	2 x OPK0570
20	2 x 3	4,44	616	2 x OPK0190
25	2 x 3	4,88	657	2 x OPK0190
30	2 x 4	5,32	697	2 x OPK0198
35	2 x 4	5,78	735	2 x OPK0399
40	2 x 4	6,24	773	2 x OPK0197
Total flow: 28.800 m³/h				
15	2 x 4	4,96	605	2 x OPK0194
20	2 x 4	5,42	644	2 x OPK0194
25	2 x 4	5,88	682	2 x OPK0198
30	2 x 4	6,34	719	2 x OPK0198
35	2 x 5,5	6,84	755	2 x OPK0548
40	2 x 5,5	7,34	791	2 x OPK0545

Space Aqua XF - 720				
Available pressure (mm.a.c)	Motor output (kW)	Power input (kW)	Fan speed (r.p.m.)	Code
Total flow: 24.000 m³/h				
17,5	2 x 2,2	3,16	539	2 x OPK0567
20	2 x 2,2	3,35	562	2 x OPK0567
25	2 x 3	3,75	607	2 x OPK0570
30	2 x 3	4,15	650	2 x OPK0190
35	2 x 3	4,57	692	2 x OPK0189
40	2 x 4	5,01	732	2 x OPK0399
50	2 x 4	5,90	811	2 x OPK0197
Total flow: 27.000 m³/h				
17,5	2 x 3	4,10	568	2 x OPK0570
20	2 x 3	4,32	589	2 x OPK0570
25	2 x 3	4,74	630	2 x OPK0190
30	2 x 4	5,20	669	2 x OPK0194
35	2 x 4	5,64	708	2 x OPK0198
40	2 x 4	6,10	746	2 x OPK0399
50	2 x 5,5	7,08	820	2 x OPK0547
Total flow: 30.000 m³/h				
17,5	2 x 4	5,25	600	2 x OPK0194
20	2 x 4	5,47	619	2 x OPK0194
25	2 x 4	5,94	657	2 x OPK0194
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35	2 x 5,5	6,90	729	2 x OPK0199
40	2 x 5,5	7,41	765	2 x OPK0548
50	2 x 5,5	8,44	833	2 x OPK0547
Total flow: 33.000 m³/h				
17,5	2 x 5,5	6,62	634	2 x OPK0544
20	2 x 5,5	6,86	652	2 x OPK0544
25	2 x 5,5	7,36	687	2 x OPK0199
30	2 x 5,5	7,88	721	2 x OPK0199
35	2 x 5,5	8,40	754	2 x OPK0548
40	2 x 7,5	8,94	787	2 x OPK0553
50	2 x 7,5	10,04	851	2 x OPK0551
Total flow: 36.000 m³/h				
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30	2 x 7,5	9,59	751	2 x OPK0554
35	2 x 7,5	10,15	782	2 x OPK0553
40	2 x 7,5	10,72	813	2 x OPK0553
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Note: for other available pressures consult optional of plug-fan.

