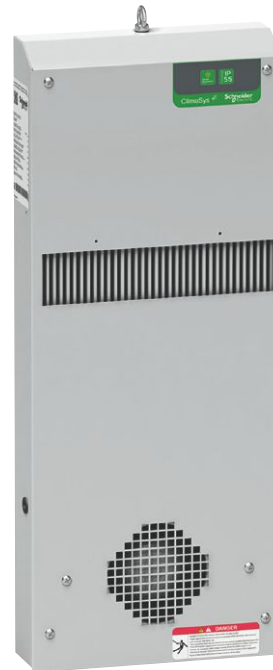


Choose air-air exchangers to take advantage of cooler ambient temperatures, such as food and beverage plants, to evacuate large amounts of heat while helping guarantee the independence of the internal and external air circuits.



Air-air exchangers: A new range energy efficient



Higher efficiency through improved design

- With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides better flow, better cooling, and higher energy efficiency



Protection

- All side-mounted models are IP55 internally according to EN 60529.



Faster installation

- A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects



New certifications and declarations

- CE
- EAC



Simplicity saves you time

- Our free ProClima thermal calculation software makes specification simple and fast. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems.

Air-air exchangers, side-mounting models



Characteristics	Side-mounting models			
	• The air-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10°C lower than the internal temperature wanted. • Main components: Thermostat adjustment system, exchange cassette, fans for internal and external circuits of the enclosure.			
Material	Painted zinc-coated steel			
Colour	RAL 7035 grey			
Ingress protection rating (according to IEC 60529)	IP55			
Certifications and declarations	CE, EAC			
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.			
Cooling characteristics				
Specific power	22 W/K	36 W/K	50 W/K	80 W/K
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Thermostat type	-	Mechanical	Mechanical	Mechanical
Temperature setting range	-	+5 ... +60°C	+5 ... +60°C	+5 ... +60°C
Temperature range external circuit (ambient)	-5 ... +55°C	-5 ... +55°C	-5 ... +55°C	-5 ... +55°C
Type of fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.5 A	0.7 A	0.7 A	1.1 A
Power consumption absorbed	72 W	160 W	160 W	240 W
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A
Physical characteristics				
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22
Noise level	59 dB	62 dB	62 dB	64 dB
Weight of unit	7 kg	10 kg	10 kg	17 kg
References				
	NSYCEA22E	NSYCEA36	NSYCEA50	NSYCEA80

Choose air-water exchangers for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.



Air-water exchangers: For highly polluted environments



Many mounting options give you the right fit

- Air-water exchangers offer roof and side mounting options.



Certifications and declarations

- UL,
- CE,
- EAC



Extended ratings to meet any challenge

- Provide options for up to 15 kW of cooling power, among the world's highest power ratings for air-water exchangers.



Protection

- All side-mounting models are IP55 type protected internally and externally according EN 60529. Top-mounting models are IP54.



New material options adapt to any application

- Air-water exchangers can be provided in the same material as electrical enclosures for (for example stainless steel) a homogeneous appearance and thermal performance.

Air-water exchangers, side-mounting models



Characteristics	Side-mounting models				
	• Main components: Thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. • Eyebolts included in all models.				
Material	RAL 7035 grey painted zinc-coated steel or stainless steel				
Ingress protection rating (according to IEC 60529)	IP55				
Certifications and declarations	• CE declaration • UL (only references ending with UL) • EAC				
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.				
Cooling characteristics					
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar
Internal airflow	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Temperature range external circuit (ambient)	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C
Type of fluid	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G
Electric characteristics					
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A
Power consumption absorbed W10A35	29 W	75 W	80 W	130 W	160 W
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A
Physical characteristics					
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg
References					
Steel	NSYCEW1K	NSYCEW1K8	NSYCEW2K5	NSYCEW3K5	NSYCEW4K5
Stainless steel	NSYCEWX1K	NSYCEWX1K8	NSYCEWX2K5	NSYCEWX3K5	NSYCEWX4K5
Steel UL	NSYCEW1KUL	NSYCEW1K8UL	NSYCEW2K5UL	NSYCEW3K5UL	NSYCEW4K5UL
Stainless steel UL	NSYCEWX1KUL	NSYCEWX1K8UL	NSYCEWX2K5UL	NSYCEWX3K5UL	NSYCEWX4K5UL

Side-mounting model



Characteristics	Side-mounting models		
	• Main components: Thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. • Eyebolts included in all models.		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel		
Ingress protection rating (according to IEC 60529)	IP55		
Certifications and declarations	• CE declaration • UL (only references ending with UL) • EAC		
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.		
Cooling characteristics			
Cooling power W10A35	6000 W	6000 W	10000 W
Hydraulic circuit maximum pressure	5 bar	8 bar	8 bar
Internal airflow	1450 m³/h	1450 m³/h	2420 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Temperature range external circuit (ambient)	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C
Type of fluid	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water
Water flow	800 l/h	800 l/h	2000 l/h
Pressure drop	0.5 bar	0.5 bar	3.5 bar
Hydraulic connection	1/2" G	1/2" G	3/4" G
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.71 A	0.4 A	1.2 A
Power consumption absorbed W10A35	160 W	170 W	260 W
Thermal protection recommended (fuse)	T2 A	T1 A	T2 A
Physical characteristics			
External dimensions (H x W x D)	1500 x 450 x 163 mm	1500 x 450 x 163 mm	1932 x 797 x 206 mm
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	69 dB (A)	69 dB (A)	70 dB (A)
Weight of unit	40 kg	42 kg	90 kg
References			
Steel	NSYCEW6K	NSYCEW6K2P4	NSYCEW10K
Stainless steel	NSYCEWX6K	NSYCEWX6K2P4	NSYCEWX10K
Steel UL	NSYCEW6KUL	-	-
Stainless steel UL	NSYCEWX6KUL	-	-

Side-mounting model



Top Mounting model

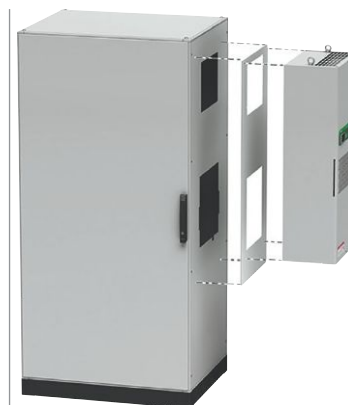


Top Mounting model

IP54

10000 W	15000 W	15000 W	2500 W
8 bar	8 bar	8 bar	5 bar
2420 m³/h	2900 m³/h	2900 m³/h	750 m³/h
Mechanical	Mechanical	Mechanical	Mechanical
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C
Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water
2000 l/h	2000 l/h	2000 l/h	500 l/h
3.5 bar	4.8 bar	4.8 bar	0.3 bar
3/4" G	3/4" G	3/4" G	1/2" G
2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz
0.75 A	1.4 A	0.9 A	0.30 A
280 W	320 W	420 W	65 W
T2 A	T4 A	T2 A	T2 A
1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	270 x 400 x 542 mm
IP55 / IP55	IP55 / IP55	IP55 / IP55	IP54 / IP55
70 dB (A)	72 dB (A)	70 dB (A)	58 dB (A)
90 kg	92 kg	92 kg	19 kg
NSYCEW10K2P4	NSYCEW15K	NSYCEW15K2P4	NSYCEW2K5R
NSYCEWX10K2P4	NSYCEWX15K	NSYCEWX15K2P4	-
-	-	-	-
-	-	-	-

Accessories



Characteristics	Air-air and air-water exchangers CE		Air-air and air-water exchangers UL / CE		Retrofit panel	
	Steel	Stainless steel	Steel	Stainless steel		
					Panel that enable to mount a new ClimaSys CE units by replacement of old Schneider Electric cooling systems.	
Material					Metal painted	
Colour					RAL 7035 grey	
Supply					1 unit	
References					Retrofit panel	Old Schneider Electric cooling system
Air- air exchangers						
Side-mounting models	NSYCEA36	-	-	-	NSYCEARTFIT36	NSYCEA35W230VL NSYCEA35W230VLE
	NSYCEA50	-	-	-	-	-
	NSYCEA80	-	-	-	NSYCEARTFIT80	NSYCEA70W230VL
Air-water exchangers						
Side-mounting models	NSYCEW1K	NSYCEWX1K	NSYCEW1KUL	NSYCEWX1KUL	-	-
	NSYCEW1K8	NSYCEWX1K8	NSYCEW1K8UL	NSYCEWX1K8UL	-	-
	NSYCEW2K5	NSYCEWX2K5	NSYCEW2K5UL	NSYCEWX2K5UL	NSYCEWRTFIT2K5	NSYCEW2100W230VL
	NSYCEW3K5	NSYCEWX3K5	NSYCEW3K5UL	NSYCEWX3K5UL	NSYCEWRTFIT3K5	NSYCEW3150W230VL
	NSYCEW4K5	NSYCEWX4K5	NSYCEW4K5UL	NSYCEWX4K5UL	-	-
	NSYCEW6K	NSYCEWX6K	NSYCEW6KUL	NSYCEWX6KUL	-	-
	NSYCEW6K2P4	NSYCEWX6K2P4	-	-	-	-
	NSYCEW10K	NSYCEWX10K	-	-	-	-
	NSYCEW10K2P4	NSYCEWX10K2P4	-	-	-	-
	NSYCEW15K	NSYCEWX15K	-	-	-	-
	NSYCEW15K2P4	NSYCEWX15K2P4	-	-	-	-
	Top-mounting model	NSYCEW2K5R	-	-	-	-