

PHOENIX PLUS



Air cooled water chillers with R134a
equipped with semi-hermetic twin screw compressors.
Cooling capacity 304-1484 kw

PST



PROCESS COOLING
SOLUTIONS



AIR CONDITIONING
SYSTEMS

Conditioning Your ambient,
maximising Your comfort.



The PHOENIX Plus range of chillers has been specifically designed to optimize the benefits of refrigerant R134a; their maximum advantage is achieved in those installations where the chiller operates below its design load conditions for most of the year.

Thanks to unique technical solutions and **Smart Stepless** regulation according to the exact effective cooling load requested by the system, PHOENIX Plus achieves market leading ESEER seasonal performance ratios, as well as nominal load EER ratios which are well above the minimum limit of the Class A energy efficiency category.



Respect of Environment

High energy efficiency of the units Phoenix Plus coupled with R134a non-ozone depleting refrigerants, reduce the environment impact minimizing the energy waste. Recyclable and high quality materials ensure the respect of environment and reduces carbon footprint.

Energy Efficiency

Smart Stepless cooling capacity regulation, electronic expansion valves and high efficiency heat exchangers with integrated heat recovery systems, contributes to obtain high performance both at full load and at partial load with exceptional ESEER values.

Supervisor Systems

Phoenix Plus can be linked to various external Supervisor systems:

- RS485 serial connection to an external Supervisor system (MODBUS and other leading systems);
- xWEB300D Supervisor kit, operating via Internet;
- xWEB300D + modem GPRS for connection directly to a smartphone and tablet.

Factory Test

All models are individually tested in order to check correct operation, and also undergo refrigerant charge and leakage controls, and microprocessor and safety device setting verifications. Leading brand components are used throughout, ensuring long term reliability.

R134a



Benefits

- High energy efficiency both at full load and at partial load (A Class);
- High seasonal energy efficiency
- The controller provides maximum flexibility to adapt to any operating condition, thanks to the Smart Stepless algorithm specifically developed by PST.
- High reliability and continuity of operation (up to 4 screw compressors and "Smart Stepless" algorithm);
- Wide operating range (ambient temperature from -20°C to +50°C);
- Comprehensive safety equipment, including phase monitor, pressure switches, differential pressure switch, crankcase heaters, compressors operating envelope and oil level;
- Wide range of accessories and kits for custom solutions;
- Integration with AQUAFree free-cooling modules.

Main options

- High efficiency EC axial fans with inverter technology and integrated speed regulation; or fan speed controller .
- Condenser coils with anticorrosion treatment;
- Soft starter;
- Antivibration dampers;
- Special applications with partial or total heat recovery;
- Special applications for water temperatures down to -10°C;
- Special very high efficiency applications;
- Antifreeze heater;
- Metal mesh filters for condenser coil protection;
- Replicated remote user terminal;
- Simple remote control;
- Serial connection to supervision systems;
- PST xCONNECT Supervision based on internal web pages;
- Modularity / web interconnection hub.

Standard features

- Environmentally friendly R134a refrigerant.
- High efficiency screw compressors with stepless regulation optimized for R134a refrigerant gas.
- Compressor crankcase heater.
- Compressor housings .
- Air-cooled condensers (copper tubes/aluminium fins) with transverse "V" formation;
- AC Axial fans with die-cast aluminum blades, developed on the basis of bionic principles;
- Check valve on compressor discharge and shut-off valves on discharge and suction lines;
- Electronic expansion valves;
- Single pass shell & tubes evaporator optimized for R134a refrigerant gas;
- The Electrical panel is made up of IP 54 cabinet with forced ventilation, inside which are installed contactors and circuit breakers; the protection from the phase loss and from the phase reversal is assured by the phase monitor device;
- xDRIVE controller programmed with software specifically developed by PST; high computing capacity and user friendly graphic interface; connectivity and supervision via Ethernet, USB, RS485 Modbus.

Versions

- Low ambient air temperature version - down to -20°C in cooling mode, with EC axial fans

Standard energy efficiency versions:

- INVERTER - variable-speed inverter technology with excellent efficiency at full and partial loads

High energy efficiency versions:

- HE - basic acoustic configuration optimized for full load operation
- SHE - low noise acoustic configuration optimized for part load operation
- HHE - high ambient temperature and basic acoustic configuration optimized for full load operation.

Semigraphic user interface with multifunctional buttons and dynamic display icons.



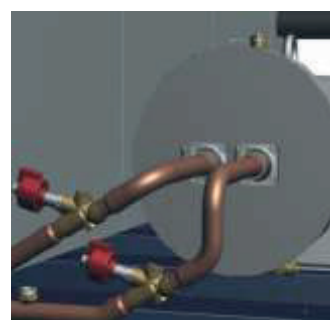
High efficiency EC axial fans with inverter technology.



Maximum accessibility to compressors



Electronic expansion valves as standard and single pass shell & tubes evaporator.



Model PNP (HE)			140	150	160	170	180	200	220	235
Cooling capacity	(1)	kW	313.3	363.5	379.6	404.8	436	464	498	529
Cooling capacity	(1)	TR	89	103	108	115	124	132	142	150.5
Total absorbed power		kW	97	109.7	117.5	124.8	132.8	143.2	154	162.5
EER		-	3.23	3.31	3.23	3.24	3.28	3.24	3.23	3.25
Max externalair temperature		°C	51	51	48	48	47	46	46	46
EXCHANGERS										
Evaporator pressure drops		kPa	36	31	30	34	21	23	32	36
Water flow		m³/h	53.8	62.4	65.2	69.5	74.8	79.6	85.5	90.8
GENERAL DATA										
Refrigerant		-	R134a							
Circuits / Compressors		N°	2/2							
Capacity control		%	12.5~100							
Power supply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50							
Protection class		-	IP54							
NOISE LEVEL										
Noise pressure	(2)	dB(A)	66	66	66	67	67	67	68	68
Noise power		dB(A)	98	98	98	99	99	99	100	100
SIZE AND WEIGHT										
Depth		mm	4490	4490	4490	4490	4490	4490	4490	5490
Width		mm	2194	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670	2670
Weight		kg	4159	4440	5060	5138	5393	5403	5648	6263

Model PNP (HE)			250	265	280	300	320	360	375	405
Cooling capacity	(1)	kW	566	602	646	701	764	809	849	923
Cooling capacity	(1)	TR	161	171	184	199	217	230	241.5	262.5
Total absorbed power		kW	171.7	181.9	193.1	210.7	228.9	248.1	257.5	277.9
EER		-	3.30	3.31	3.35	3.33	3.34	3.26	3.30	3.32
Max external air temperature		°C	48	48	48	48	48	46	48	48
EXCHANGERS										
Evaporator pressure drops		kPa	40	45	44	51	43	54	42	49
Water flow		m³/h	97.1	103.3	110.9	120.3	131.1	138.9	145.7	158.4
GENERAL DATA										
Refrigerant		-	R134a							
Circuits / Compressors		N°	2/2					3/3		
Capacity control		%	12.5~100					8.3~100		
Power supply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50							
Protection class		-	IP54							
NOISE LEVEL										
Noise pressure	(2)	dB(A)	68	68	68	68	68	69	69	70
Noise power		dB(A)	100	101	101	101	101	102	102	103
SIZE AND WEIGHT										
Depth		mm	6490	6490	6490	7490	8490	8490	9490	9490
Width		mm	2194	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670	2670
Weight		kg	6877	7004	7131	7667	8202	9837	10012	10266

Model PNP (HE)			420	440	460	480	530	560	600	620	640
Cooling capacity	(1)	kW	966	1022	1078	1146	1204	1292	1382	1427	1484
Cooling capacity	(1)	TR	275	291	307	326	342.5	367.5	393	406	422
Total absorbed power		kW	289.6	307.2	324.8	343.3	363.8	386.2	422.4	440.5	460.6
EER		-	3.34	3.33	3.32	3.34	3.31	3.35	3.27	3.24	3.22
Max external air temperature		°C	48	48	48	48	48	48	46	46	46
EXCHANGERS											
Evaporator pressure drops		kPa	54	61	43	43	44	46	52	56	45
Water flow		m³/h	165.8	175.4	185	196.7	206.7	221.8	237.2	244.9	254.7
GENERAL DATA											
Refrigerant		-	R134a								
Circuits / Compressors		N°	3/3				4/4				
Capacity control		%	8.3~100				6.3~100				
Power supply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50								
Protection class		-	IP54								
NOISE LEVEL											
Noise pressure	(2)	dB(A)	70	70	70	70	71	71	71	71	71
Noise power		dB(A)	103	103	103	103	104	104	104	104	104
SIZE AND WEIGHT											
Depth		mm	9490	10490	11490	12490	12490	12490	12490	12490	12490
Width		mm	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight		kg	10737	11273	11808	12780	13927	14539	15359	15769	16179

(1) External ambient temperature: 35°C; evaporator IN/OUT: 7/12°C

(2) Sound pressure at 10 m: average value obtained in free field on a reflective surface at a distance of 10 m from the side of the condenser coils and at a height of 1.6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base chillers with no options fitted.(NB:dimensions for lower noise and/or higher efficiency versions may differ.)

Model PNP (SHE)			140	150	160	170	180	200	220	235
Cooling capacity	(1)	kW	304.1	352.2	367.8	391.9	420	445	474	509
Cooling capacity	(1)	TR	86.5	100	105	111.5	119.5	126.5	135	145
Total absorbed power		kW	95.8	109.2	118	126	134.4	146	158.2	164.7
EER		-	3.17	3.23	3.12	3.11	3.12	3.05	3.00	3.09
Max external air temperature		°C	49	48	45	45	45	43	43	43
EXCHANGERS										
Evaporator pressure drops		kPa	34	29	28	32	30	33	29	34
Water flow		m³/h	52.2	60.5	63.1	67.3	72.1	76.4	81.4	87.4
GENERAL DATA										
Refrigerant		-	R134a							
Circuits / Compressors		N°	2/2							
Capacity control		%	12.5~100							
Power supply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50							
Protection class		-	IP54							
NOISE LEVEL										
Noise pressure	(2)	dB(A)	58	58	58	59	59	59	60	60
Noise power		dB(A)	90	90	90	91	91	91	92	92
SIZE AND WEIGHT										
Depth		mm	4490	4490	4490	4490	4490	4490	4490	5490
Width		mm	2194	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670	2670
Weight		kg	4159	4440	5060	5138	5393	5403	5648	6263

Model PNP (SHE)			250	265	280	300	320	360	375	405
Cooling capacity	(1)	kW	550	583	622	677	738	782	825	891
Cooling capacity	(1)	TR	156.5	166	177	192.5	210	222.5	235	253
Total absorbed power		kW	171.8	183	195	211.5	229.3	250.4	257.8	280.1
EER		-	3.20	3.19	3.19	3.20	3.22	3.12	3.20	3.18
Max external air temperature		°C	45	45	45	45	45	45	45	45
EXCHANGERS										
Evaporator pressure drops		kPa	38	42	41	48	40	51	40	46
Water flow		m³/h	94.4	100.1	106.8	116.2	126.7	134.2	141.6	152.9
GENERAL DATA										
Refrigerant		-	R134a							
Circuits / Compressors		N°	2/2					3/3		
Capacity control		%	12.5~100					8.3~100		
Powersupply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50							
Protection class		-	IP54							
NOISE LEVEL										
Noise pressure	(2)	dB(A)	60	60	60	60	60	61	61	62
Noise power		dB(A)	92	93	93	93	93	94	94	95
SIZE AND WEIGHT										
Depth		mm	6490	6490	6490	7490	8490	8490	9490	9490
Width		mm	2194	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670	2670
Weight		kg	6877	7004	7131	7667	8202	9837	10012	10266

Model PNP (SHE)		420	440	460	480	530	560	600	620	640
Cooling capacity (1)	kW	933	988	1043	1110	1166	1244	1324	1364	1420
Cooling capacity (1)	TR	265	281	297	316	332	354	376.5	388	404
Total absorbed power	kW	292.5	309	325.6	343.4	366	390	430	450	471.6
EER	-	3.19	3.20	3.20	3.23	3.19	3.19	3.08	3.03	3.01
Max external air temperature	°C	45	45	45	45	45	45	43	43	43
EXCHANGERS										
Evaporator pressure drops	kPa	51	57	40	44	49	43	48	51	46
Water flow	m³/h	160.1	169.6	179	190.5	200.1	213.5	227.3	234.1	243.7
GENERAL DATA										
Refrigerant	-	R134a								
Circuits / Compressors	N°	3/3				4/4				
Capacity control	%	8.3~100				6.3~100				
Power supply	V/Ph/Hz	400 ± 10% / 3+N-PE / 50								
Protection class	-	IP54								
NOISE LEVEL										
Noise pressure (2)	dB(A)	62	62	62	62	63	63	63	63	63
Noisepower	dB(A)	95	95	95	95	96	96	96	96	96
SIZE ANDWEIGHT										
Depth	mm	9490	10490	11490	12490	12490	12490	12490	12490	12490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	10737	11273	11808	12780	13927	14539	15359	15769	16179

(1) External ambient temperature: 35°C; evaporator IN/OUT: 7/12°C

(2) Sound pressure at 10 m: average value obtained in free field on a reflective surface at a distance of 10 m from the side of the condenser coils and at a height of 1.6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base chillers with no options fitted.(NB:dimensions for lower noise and/or higher efficiency versions may differ.)

Model PNP (HHE)		150	160	170	180	250	265	280
Cooling capacity	(1) kW	322.1	371.4	398.7	428	458	490	528
Cooling capacity	(1) TR	92	106	113	122	130	139	150
Total absorbed power	kW	97.7	113.2	118.9	124.7	133.7	142	150.9
EER	-	3.30	3.28	3.35	3.43	3.43	3.45	3.50
Max external air temperature	°C	52	52	52	53	52	52	52
EXCHANGERS								
Evaporator pressure drops	kPa	26	38	44	34	29	33	33
Water flow	m³/h	55.3	63.7	68.4	73.5	78.6	84.1	90.6
GENERAL DATA								
Refrigerant	-	R134a						
Circuits / Compressors	N°	2/2						
Capacity control	%	12.5~100						
Power supply	V/Ph/Hz	400 ± 10% / 3+N-PE / 50						
Protection class	-	IP54						
NOISE LEVEL								
Noise pressure	(2) dB(A)	66	66	67	67	67	67	68
Noise power	dB(A)	98	98	99	99	99	99	100
SIZE AND WEIGHT								
Depth	mm	5490	6490	6490	6490	6490	6490	6490
Width	mm	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670
Weight	kg	4360	4685	4807	5106	5756	5886	6251

Model PNP (HHE)			300	320	340	360	405	420	480
Cooling capacity	(1)	kW	550	578	623	676	751	792	867
Cooling capacity	(1)	TR	156	164	177	192	214	225	247
Total absorbed power		kW	160.7	171	181.9	193.8	217.1	226.3	256.6
EER		-	3.42	3.38	3.42	3.49	3.46	3.50	3.38
Max external air temperature		°C	52	53	53	53	52	52	53
EXCHANGERS									
Evaporator pressure drops		kPa	35	40	47	38	48	42	41
Water flow		m³/h	94.4	99.2	106.9	116	128.9	135.9	148.8
GENERAL DATA									
Refrigerant		-	R134a						
Circuits / Compressors		N°	2/2				3/3		
Capacity control		%	12.5~100				8.3~100		
Power supply		V/Ph/Hz	400 ± 10% / 3+N- PE / 50						
Protection class		-	IP54						
NOISE LEVEL									
Noise pressure	(2)	dB(A)	68	68	68	68	68	68	69
Noise power		dB(A)	100	100	101	101	101	101	102
SIZE AND WEIGHT									
Depth		mm	7490	8490	8490	8490	9490	9490	12490
Width		mm	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670
Weight		kg	6809	7131	7711	8291	10034	10393	10746

Model PNP (HHE)			530	560	600	640	720		
Cooling capacity	(1)	kW	980	1056	1100	1156	1352		
Cooling capacity	(1)	TR	279	300	313	329	384.5		
Total absorbed power		kW	284	301.8	321.4	342.1	387.6		
EER		-	3.45	3.50	3.42	3.38	3.49		
Max external air temperature		°C	52	52	52	53	53		
EXCHANGERS									
Evaporator pressure drops		kPa	53	41	45	50	40		
Water flow		m³/h	168.2	181.3	188.8	198.4	232.1		
GENERAL DATA									
Refrigerant		-	R134a						
Circuits / Compressors		N°	4/4						
Capacity control		%	6.3~100						
Power supply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50						
Protection class		-	IP54						
NOISE LEVEL									
Noise pressure	(2)	dB(A)	69	70	70	70	71		
Noise power		dB(A)	102	103	103	103	104		
SIZE AND WEIGHT									
Depth		mm	12490	12490	14490	16490	16490		
Width		mm	2194	2194	2194	2194	2194		
Height		mm	2670	2670	2670	2670	2670		
Weight		kg	13511	13771	14006	14716	17329		

(1) External ambient temperature: 35°C; evaporator IN/OUT: 7/12°C

(2) Sound pressure at 10 m: average value obtained in free field on a reflective surface at a distance of 10 m from the side of the condenser coils and at a height of 1.6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base chillers with no options fitted.(NB:dimensions for lower noise and/or higher efficiency versions may differ.)

in
verter

Model PNP-I(HE)			205	215	235	250	285	320	360	400
Cooling capacity	(1)	kW	477.8	510	542	596	672	762	843	938
Cooling capacity	(1)	TR	136	145	154	169.5	191	217	240	267
Total absorbed power		kW	149.1	157.3	168.1	183.1	207.4	233.5	263	294.4
EER		-	3.20	3.24	3.22	3.25	3.24	3.26	3.20	3.19
Max external aitemperature		°C	47	47	46	47	47	47	47	48
EXCHANGERS										
Evaporator pressure drops		kPa	50	39	32	32	40	38	46	49
Water flow		m³/h	82.1	87.5	93	102.3	115.3	130.8	144.7	161
GENERAL DATA										
Refrigerant		-					R134a			
Circuits / Compressors		N°		2/(1+i)				2/2i		
Capacity control		%					12.5~100			
Power supply		V/Ph/Hz					400 ± 10% / 3+N-PE / 50			
Protection class		-					IP54			
NOISE LEVEL										
Noise pressure	(2)	dB(A)	67	67	68	68	68	68	68	69
Noise power		dB(A)	99	99	100	100	101	101	101	102
SIZE AND WEIGHT										
Depth		mm	5490	5490	5490	6490	7490	8490	9490	10490
Width		mm	2194	2194	2194	2194	2194	2194	2194	2194
Height		mm	2670	2670	2670	2670	2670	2670	2670	2670
Weight		kg	5640	5898	6143	6197	6450	6702	6955	7208

Model PNP-I(HE)			440	480
Cooling capacity	(1)	kW	1079	1244
Cooling capacity	(1)	TR	307	354
Total absorbed power		kW	336.8	382.4
EER		-	3.20	3.25
Max external air temperature		°C	46	46
EXCHANGERS				
Evaporator pressure drops		kPa	40	49
Water flow		m³/h	185.2	213.5
GENERAL DATA				
Refrigerant		-		R134a
Circuits / Compressors		N°		2/2i
Capacity control		%		12.5~100
Power supply		V/Ph/Hz		400 ± 10% / 3+N-PE / 50
Protection class		-		IP54
NOISELEVEL				
Noise pressure	(2)	dB(A)	71	72
Noise power		dB(A)	104	105
SIZE AND WEIGHT				
Depth		mm	11490	12490
Width		mm	2194	2194
Height		mm	2670	2670
Weight		kg	7830	8453

(1) External ambient temperature: 35°C; evaporator IN/OUT: 7/12°C

(2) Sound pressure at 10 m: average value obtained in free field on a reflective surface at a distance of 10 m from the side of the condenser coils and at a height of 1.6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base chillers with no options fitted.(NB:dimensions for lower noise and/or higher efficiency versions may differ.)

*in*verter

Model PNP-I(SHE)		205	215	235	250	285	320	360	400
Cooling capacity	(1) kW	471.2	497	526	588	664	754	828	912
Cooling capacity	(1) TR	134	141	150	167	189	214.5	235.5	259
Total absorbed power	kW	146.3	156.4	168.5	180	203.2	228.1	260.4	294.2
EER	-	3.22	3.18	3.12	3.27	3.27	3.31	3.18	3.10
Max external air temperature	°C	46	45	43	46	46	46	45	45
EXCHANGERS									
Evaporator pressure drops	kPa	49	37	30	31	40	38	45	50
Water flow	m³/h	80.9	85.3	90.3	100.9	114	129.4	142.1	156.5
GENERAL DATA									
Refrigerant	-	R134a							
Circuits / Compressors	N°	+1)/2i)			2/2i				
Capacity control	%	12.5~100							
Power supply	V/Ph/Hz	400 ± 10% / 3+N-PE / 50							
Protection class	-	IP54							
NOISE LEVEL									
Noise pressure	(2) dB(A)	62	62	63	63	63	63	63	64
Noise power	dB(A)	94	94	95	95	96	96	96	97
SIZE AND WEIGHT									
Depth	mm	5490	5490	5490	6490	7490	8490	9490	10490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	5835	6015	6260	6431	6723	7014	7111	7208

Model PNPI (SHE)			440	480
Cooling capacity	(1)	kW	1058	1230
Cooling capacity	(1)	TR	301	350
Total absorbed power		kW	333.2	374.8
EER		-	3.18	3.28
Max external air temperature		°C	45	45
EXCHANGERS				
Evaporator pressure drops		kPa	39	48
Water flow		m³/h	181.6	211.1
GENERAL DATA				
Refrigerant		-	R134a	
Circuits / Compressors		N°	2/2i	
Capacity control		%	12.5~100	
Power supply		V/Ph/Hz	400 ± 10% / 3+N-PE / 50	
Protection class		-	IP54	
NOISELEVEL				
Noise pressure	(2)	dB(A)	66	67
Noise power		dB(A)	99	100
SIZE AND WEIGHT				
Depth		mm	11490	12490
Width		mm	2194	2194
Height		mm	2670	2670
Weight		kg	8064	8921

(1) External ambient temperature: 35°C; evaporator IN/OUT: 7/12°C

(2) Sound pressure at 10 m: average value obtained in free field on a reflective surface at a distance of 10 m from the side of the condenser coils and at a height of 1.6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base chillers with no options fitted.(NB:dimensions for lower noise and/ or higher efficiency versions may differ.)

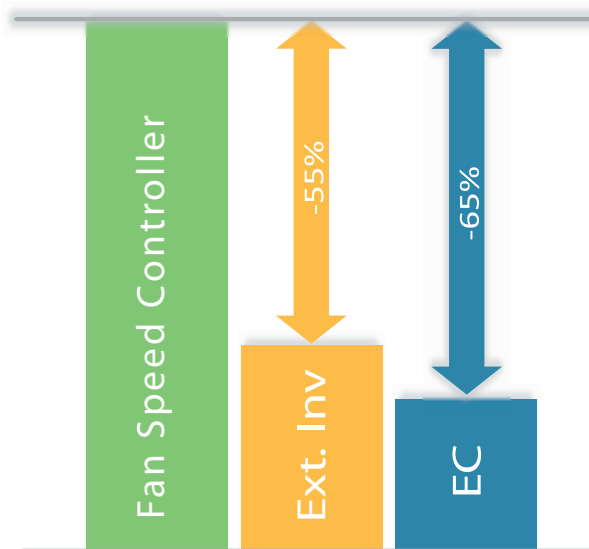
EC fans

Features

- Synchronous electric motors with permanent magnets;
- EC motors means: Electronically Commutated motors;
- Wide operating range: stepless rotation from 5% to 100%;
- High precision in condensation pressure control;
- Fast installation;

Benefits

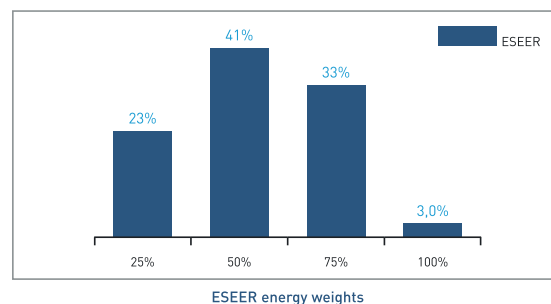
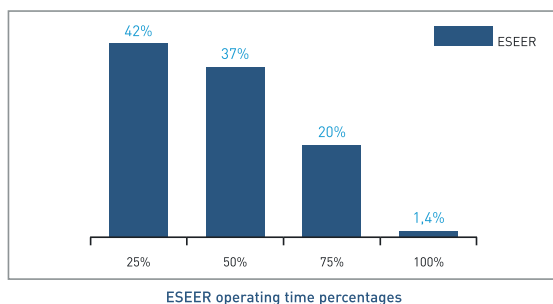
- Seasonal energy saving -20%;
- Pays off in few months;



EC fans replace external electronic speed control option



-20%
Seasonal
energy saving



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