PST®

Pars Sanat Tahvieh co.

Product Guide 2024

PROCESS COOLING SOLUTIONS

AIR CONDITIONING SYSTEMS

Experience the
Best in **Heating** & **Cooling** Solutions

PSTHVAC.COM

WELCOME

Pars Sanat Tahvieh co.

Welcome to PST HVAC Solutions

At PST, we take pride in providing the best HVAC solutions for industrial, commercial, and residential environments. With years of experience and the use of cutting-edge technology, our products are designed to deliver the best performance, efficiency, and comfort for you.

Why Choose PST?

- **Expertise and Experience:** With over 20 years in the HVAC industry, we lead the way in offering innovative and efficient solutions for our customers.
- **Superior Quality:** Our products are manufactured using the best materials and the latest technologies to ensure the highest level of quality and durability.
- **Excellent Support:** Our support team is ready to provide consultation, installation, and maintenance services, ensuring we are always by your side.

Our Products:

Residential and Commercial Chillers:

- High efficiency and optimized energy consumption
- Robust design and long lifespan
- Silent and reliable operation

Process Cooling System :

- Ideal for large and commercial buildings
- Smart systems with temperature and humidity control
- Easy installation and maintenance.

Fan Coil Units and Air Handlers:

- Suitable for residential and office environments
- Elegant and quiet design
- Precise temperature control capabilities

Our Mission:

At PST, our mission is to provide the best HVAC solutions to create comfortable, healthy, and efficient environments for all our customers. By focusing on innovation, quality, and customer satisfaction, we strive to be your top choice always.

COMMERCIAL AND INDUSTRIAL CHILLERS

Pars Sanat Tahvieh co.

Our chillers are designed to meet the diverse cooling needs of industrial, commercial, and residential environments. Explore our range of chillers and discover how they can benefit your operations.

Industrial Chillers

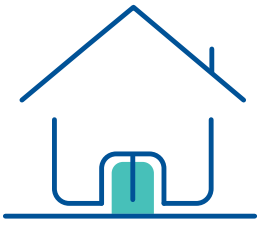
High-Capacity Industrial Chillers:
Our industrial chillers are engineered for heavy-duty applications, providing robust performance and reliability. They are ideal for manufacturing plants, refineries, and other industrial processes where consistent and efficient cooling is critical.

Compact Industrial Chillers:
These chillers offer powerful cooling in a compact design, making them perfect for environments with limited space. They are suited for data centers, industrial cooling processes, and large commercial buildings, ensuring quiet and efficient operation.

Commercial Chillers

Energy-Efficient Commercial Chillers:
Our commercial chillers are designed to deliver high efficiency, reducing operational costs while maintaining optimal performance. They are perfect for shopping malls, hospitals, and office buildings, providing reliable and precise temperature control.

Versatile Commercial Chillers:
These chillers offer flexible installation options and are easy to maintain, making them an excellent choice for hotels, schools, and commercial complexes. They combine quiet operation with smart energy management features to ensure comfort and efficiency.



Residential Chillers

Compact Residential Chillers:
Designed for residential use, these chillers provide efficient and quiet cooling for large homes, small apartment buildings, and villas. They offer a compact design that is easy to install and maintain, ensuring a comfortable living environment.

Ultra-Quiet Residential Chillers:
Ideal for small homes, individual apartments, and duplexes, these chillers are known for their ultra-quiet operation and energy efficiency. They are perfect for residential settings where noise and energy consumption are important considerations.

PROCESS COOLING SOLUTIONS

AIR CONDITIONING SYSTEMS

Pars Sanat Tahvieh co.

PHOENIX PLUS

- Air cooled water chillers with R134a featuring semi-hermetic twin screw compressors.
- Cooling capacity **297 - 1437** kW

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"
- Wide operating rangelambient temp
- 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 CONNECT 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; om -20°C to+50°C)
- 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
- DRIVE controller programmed with software specifically developed by PST
- high computing capacity and user friendly graphic interfac
- 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.

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.

Model PNP (HE)

		140	150	160	170	180	200	220	235	250	265	280	300	320
Cooling capacity	kW	297.4	350.6	366	391	420	448	482	512	546	580	620	672	734
Cooling capacity	TR	84.56	99.69	104.07	111.17	119.4	127.38	137.05	145.58	155.25	164.9	176.3	191.07	208.7
Total absorbed power	kW	94.41	108.34	116.14	123.27	131.2	141.2	151.8	160.45	169.7	179.6	190.3	207.89	226.27
EER	-	3.15	3.24	3.15	3.17	3.20	3.17	3.18	3.19	3.22	3.23	3.26	3.23	3.24
Max external air temperature	˚C	48	49	48	48	48	46	46	46	48	48	48	48	48
EXCHANGERS														
Evaporator pressure drops	kPa	31	51	45	39	44	48	27	40	35	43	46	39	42
Water flow	m^3/h	51.05	60.18	62.82	67.12	72.09	76.90	82.74	87.88	93.72	99.56	106.42	115.35	126
GENERAL DATA														
Refrigerant	-	R134A												
Circuits / Compressors	N°	2 / 2												
Capacity control	%	12.5 ~ 100												
Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50												
Protection class	-	IP54												
NOISE LEVEL														
Noise pressure	dB(A)	66	66	66	67	67	68	68	68	68	68	68	68	69
Noise power	dB(A)	98	98	98	99	99	100	100	100	100	100	100	101	102
SIZE AND WEIGHT														
Depth	mm	4490	4490	4490	4490	4490	4490	4490	5490	6490	6490	6490	7490	8490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	3964	4190	4805	4893	5041	5051	5216	5821	6291	6408	6541	7665	8681

(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.

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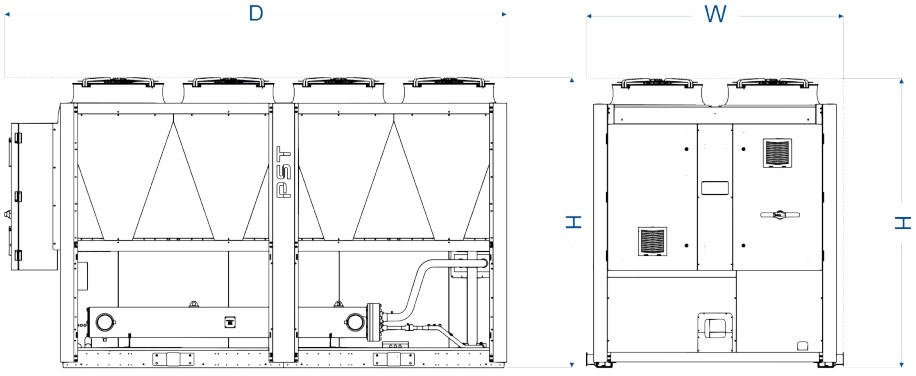

Model PNP (HE)

		360	375	405	420	440	460	480	500	520	540	570	600	630
Cooling capacity	kW	783	819	887	927	983	1033	1101	1141	1184	1251	1305	1359	1437
Cooling capacity	TR	222.6	232.87	252.2	263.58	279.5	293.7	313	324.4	336.6	355.7	371	386.4	408.6
Total absorbed power	kW	245	254.45	274.3	285.15	303.2	320.4	339.4	353.8	368.8	385.6	404.3	422.9	444
EER	-	3.20	3.22	3.23	3.25	3.24	3.22	3.24	3.22	3.21	3.24	3.23	3.21	3.24
Max external air temperature	℃	46	48	48	48	48	48	48	47	47	46	46	46	46
EXCHANGERS														
Evaporator pressure drops	kPa	37	47	45	39	46	50	50	50	50	52	56	42	41
Water flow	m^3/h	134.4	140.58	152.25	159.12	168.73	177.31	189	195.85	203.23	214.73	224	233.27	246.6
GENERAL DATA														
Refrigerant	-	R134A												
Circuits / Compressors	N°	3 / 3												
Capacity control	%	8.3 ~ 100												
Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50												
Protection class	-	IP54												
NOISE LEVEL														
Noise pressure	dB(A)	69	69	70	70	70	71	72	72	72	72	73	73	73
Noise power	dB(A)	102	102	103	103	103	104	104	104	104	104	105	105	105
SIZE AND WEIGHT														
Depth	mm	8490	9490	9490	9490	10490	11490	12490	12490	12490	12490	12490	12490	12490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	8886	9483	9757	9954	10930	11916	13081	13091	13301	13321	13537	14126	14349

(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.

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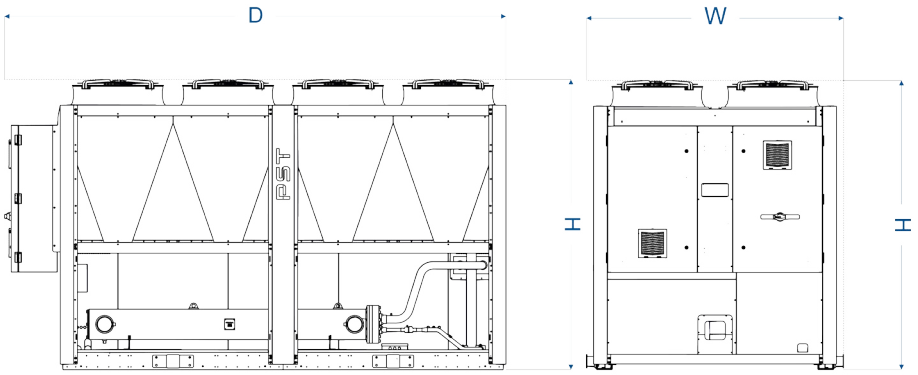

Model PNP (SHE)

		140	150	160	170	180	200	220	235	250	265	280	300	320
Cooling capacity	kW	288.4	339.8	355.2	378.6	406	430	460	492	530	561	600	650	712
Cooling capacity	TR	82	96.62	101	107.65	115.44	122.26	130.79	139.89	150.7	159.5	170.6	184.4	202.45
Total absorbed power	kW	97.05	107.77	116.17	124.01	132.45	143.75	155.86	162.25	169.45	180.32	191.98	208.36	225.73
EER	-	2.97	3.15	3.06	3.05	3.07	2.99	2.95	3.03	3.13	3.11	3.13	3.12	3.15
Max external air temperature	˚C	46	47	46	45	45	43	43	43	46	46	46	46	46
EXCHANGERS														
Evaporator pressure drops	kPa	30	48	43	37	42	45	25	37	33	40	43	37	39
Water flow	m^3/h	49.5	58.33	60.97	64.99	69.69	73.81	78.96	84.45	90.97	96.3	102.99	111.57	122.21
GENERAL DATA														
Refrigerant	-	R134A												
Circuits / Compressors	N°	2 / 2												
Capacity control	%	12.5 ~ 100												
Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50												
Protection class	-	IP54												
NOISE LEVEL														
Noise pressure	dB(A)	55	55	55	56	56	56	57	57	57	57	57	57	58
Noise power	dB(A)	87	87	87	88	88	88	89	89	89	89	89	90	91
SIZE AND WEIGHT														
Depth	mm	4490	4490	4490	4490	4490	4490	4490	5490	6490	6490	6490	7490	8490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	3964	4190	4805	4893	5041	5051	5216	5821	6291	6408	6545	7665	8681

(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.

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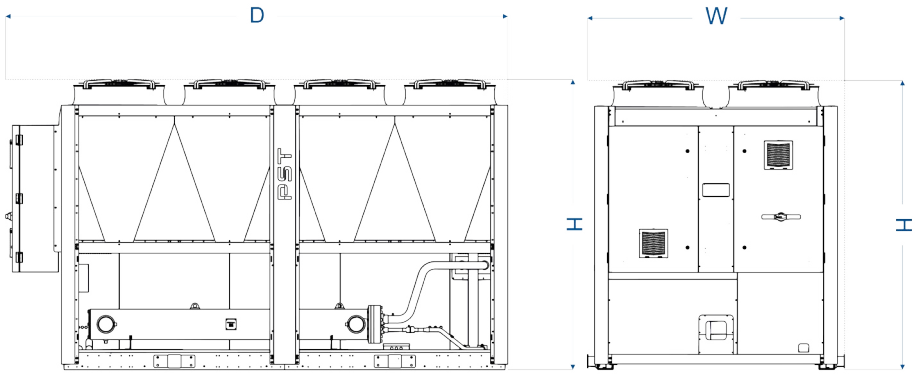

Model PNP (SHE)

		360	375	405	420	440	460	480	500	520	540	570	600	630
Cooling capacity	kW	754	795	857	894	950	1000	1068	1102	1142	1203	1254	1305	1380
Cooling capacity	TR	214.4	226	243.7	254.2	270.12	284.3	303.67	313.34	324.7	342	356.5	371	392.4
Total absorbed power	kW	246.6	254.2	275.9	287.7	304.5	320.53	338.6	354.2	342.9	387.8	408.7	429.6	453.47
EER	-	3.06	3.13	3.11	3.11	3.12	3.12	3.15	3.11	3.33	3.10	3.07	3.04	3.04
Max external air temperature	℃	43	46	46	46	46	45	46	44	44	44	43	43	43
EXCHANGERS														
Evaporator pressure drops	kPa	34	44	42	36	43	47	47	46	46	48	52	39	38
Water flow	m^3/h	129.42	136.36	147.1	153.45	163.07	171.65	183.32	189.16	196.02	206.5	215.25	224	236.88
GENERAL DATA														
Refrigerant	-	R134A												
Circuits / Compressors	N°	3 / 3												
Capacity control	%	8.3 ~ 100												
Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50												
Protection class	-	IP54												
NOISE LEVEL														
Noise pressure	dB(A)	58	58	59	59	59	60	61	61	61	61	62	62	62
Noise power	dB(A)	91	91	92	92	92	93	93	93	93	93	94	94	94
SIZE AND WEIGHT														
Depth	mm	8490	9490	9490	9490	10490	12490	12490	12490	12490	12490	12490	12490	12490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	8885	9483	9757	9954	10930	11916	13081	13091	13301	13321	13537	14126	14349

(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.

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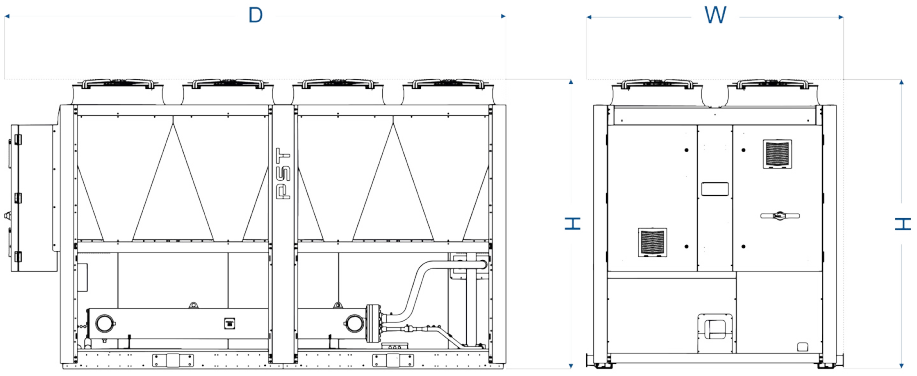

Model PNP (HHE)

		160	180	200	220	250	265	280	300	320	340
Cooling capacity	kW	282.4	324.8	381.2	430	456	490	526	550	578	623
Cooling capacity	TR	80.3	92.35	108.4	122.26	129.6	139.3	149.56	156.43	164.34	177.2
Total absorbed power	kW	83.14	94	112.1	125.7	133.7	142	150.5	160.68	171.07	181.93
EER	-	3.40	3.46	3.40	3.42	3.41	3.45	3.50	3.42	3.38	3.42
Max external air temperature	˚C	53	53	54	53	52	52	52	52	53	53
EXCHANGERS											
Evaporator pressure drops	kPa	44	28	53	54	29	33	37	34	40	39
Water flow	m^3/h	48.47	55.75	65.43	73.81	78.62	84.11	90.63	94.41	99.21	106.94
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	dB(A)	66	66	67	67	67	67	68	68	68	68
Noise power	dB(A)	98	98	99	99	99	99	100	100	100	101
SIZE AND WEIGHT											
Depth	mm	6490	6490	6490	6490	6490	6490	6490	7490	8490	8490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	4426	4783	5997	6027	6637	6767	7132	7689	8012	8592

(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.

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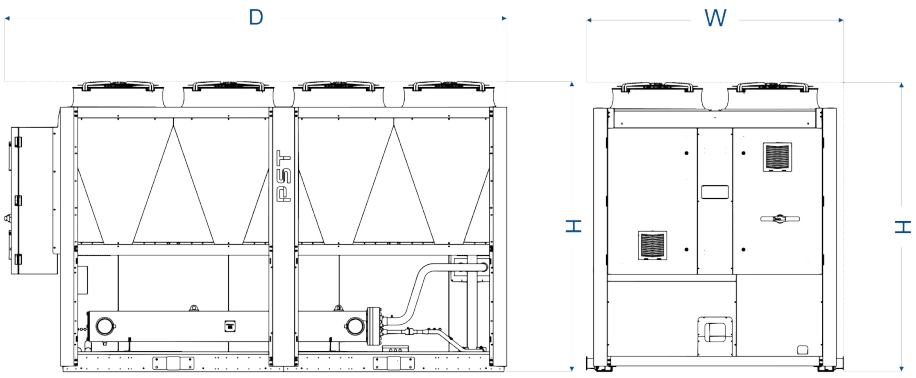

Model PNP (HHE)

		360	405	420	480	530	560	600	640	720
Cooling capacity	kW	676	751	792	861	980	1056	1100	1144	1336
Cooling capacity	TR	192.2	213.6	225.26	244.8	278.7	299.2	312.8	325.37	379.98
Total absorbed power	kW	193.8	217.15	226.35	256.3	284	301.4	321.37	340.94	385.6
EER	-	3.49	3.46	3.50	3.36	3.45	3.49	3.42	3.36	3.46
Max external air temperature	˚C	53	52	52	53	52	52	52	53	53
EXCHANGERS										
Evaporator pressure drops	kPa	38	46	42	38	53	48	51	41	49
Water flow	m^3/h	116.04	128.91	135.95	147.79	168.2	180.58	188.8	196.37	229.32
GENERAL DATA										
Refrigerant	-	R134A								
Circuits / Compressors	N°	2 / 2	3 / 3			4/ 4				
Capacity control	%	12.5 ~ 100	8.3 ~ 100			6.3 ~ 100				
Power supply	V/Ph/Hz	400 ± 10% / 3 + N - PE / 50								
Protection class	-	IP54								
NOISE LEVEL										
Noise pressure	dB(A)	68	68	68	69	69	70	70	70	71
Noise power	dB(A)	101	101	101	102	102	103	103	103	104
SIZE AND WEIGHT										
Depth	mm	8490	9490	9490	12490	12490	12490	14490	16490	16490
Width	mm	2194	2194	2194	2194	2194	2194	2194	2194	2194
Height	mm	2670	2670	2670	2670	2670	2670	2670	2670	2670
Weight	kg	9172	10034	10393	12066	13511	13771	14886	16477	19090

(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.

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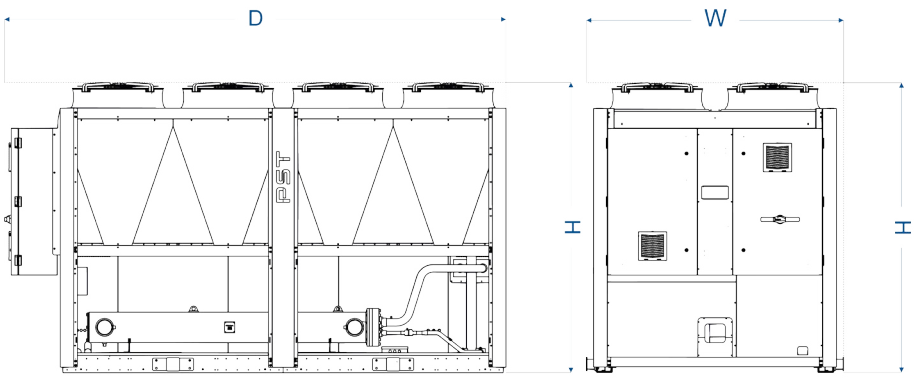


PROCESS COOLING SOLUTIONS

Pars Sanat Tahvieh co.

AIR CONDITIONING SYSTEMS

PHOENIX INVERTER

- Air cooled water chillers with R134a featuring semi-hermetic twin inverter screw compressors.
- Cooling capacity **478 - 1244** kW

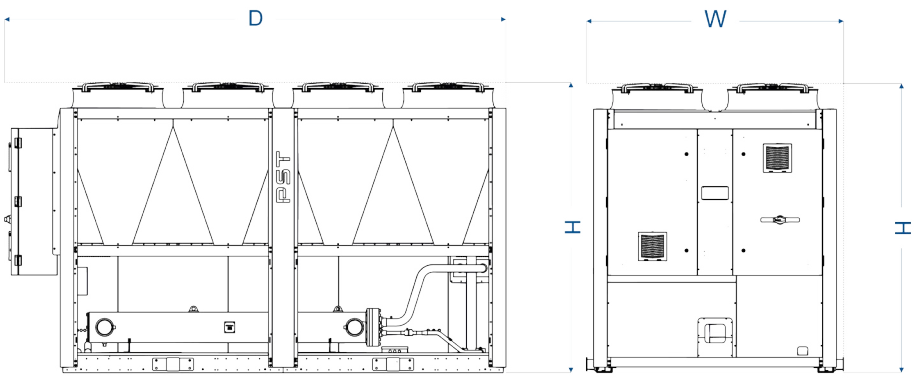
Model PNP - i (HE)

		215	235	250	285	320	360	400	440	480
Cooling capacity	kW	488	524	576	646	736	810	906	1034	1202
Cooling capacity	TR	138.75	149	163.8	183.7	209.3	230.3	257.6	294	341.7
Total absorbed power	kW	154.85	165.75	180.7	204	230.1	257.95	289.4	330.82	377.61
EER	-	3.15	3.16	3.19	3.17	3.20	3.14	3.13	3.13	3.18
Max external air temperature	℃	48	46	47	47	48	48	48	47	46
EXCHANGERS										
Evaporator pressure drops	kPa	43	38	54	49	35	46	52	46	39
Water flow	m^3/h	83.77	89.94	98.87	110.89	126.33	139.04	155.5	177.49	206.32
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 - PE / 50								
Protection class	-	IP54								
NOISE LEVEL										
Noise pressure	dB(A)	67	68	68	68	68	68	69	71	72
Noise power	dB(A)	99	100	100	101	101	101	102	104	105
SIZE AND WEIGHT										
Depth	mm	5490	5490	6490	7490	8490	9490	10490	11490	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	5898	6143	6637	7330	8023	8715	9408	10471	11533

(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.

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



Model PNP - i (SHE)

		215	235	250	285	320	360	400	440	480
Cooling capacity	kW	478	508	568	638	728	794	882	1015	1188
Cooling capacity	TR	135.91	144.4	161.5	181.4	207	225.76	250.8	288.6	337.8
Total absorbed power	kW	153.72	166	177.4	199.65	224.5	254.66	288.4	326.5	369.97
EER	-	3.11	3.06	3.20	3.20	3.24	3.12	3.12	3.11	3.21
Max external air temperature	˚C	45	43	46	46	47	45	46	46	45
EXCHANGERS										
Evaporator pressure drops	kPa	41	35	53	45	34	44	49	45	38
Water flow	m^3/h	82.05	87.2	97.5	97.5	124.96	136.29	151.4	174.22	203.92
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 - PE / 50								
Protection class	-	IP54								
NOISE LEVEL										
Noise pressure	dB(A)	62	62	63	63	63	63	64	66	67
Noise power	dB(A)	94	94	95	96	96	96	97	99	100
SIZE AND WEIGHT										
Depth	mm	5490	5490	6490	7490	8490	9490	10490	11490	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	5898	6143	6637	7330	8023	8715	9408	10471	11533

(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.

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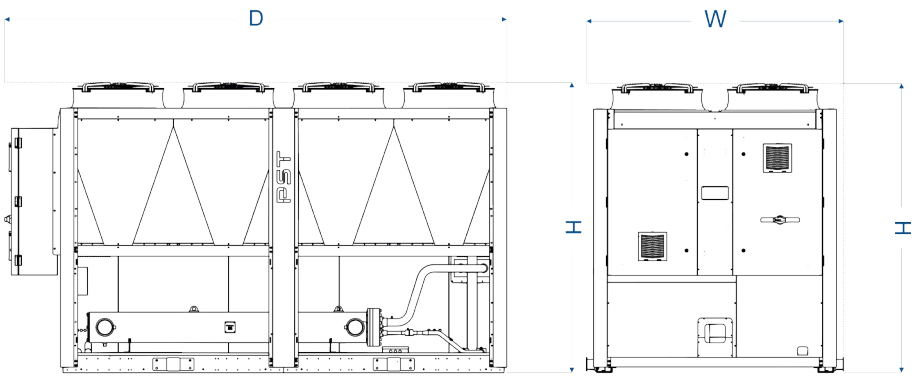

PST

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