



Product Guide 2024



PROCESS COOLING
SOLUTIONS



AIR CONDITIONING
SYSTEMS

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

PSTHVAC.COM

WELCOME

Pars Sanat Tahviah 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.

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.

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.

COMMERCIAL AND INDUSTRIAL CHILLERS

Pars Sanat Tahviah 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.



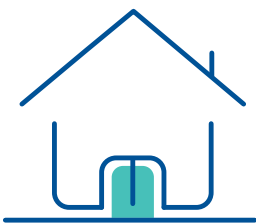
Commercial Chillers

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.



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AIR CONDITIONING
SYSTEMS

ARIES TECH

- Air cooled water chillers and heat pumps with R410A featuring hermetic scroll compressors.

- Cooling capacity **166 - 340 kW**
- heating capacity **167 - 343 kW**



Benefits

- Reduced noise levels, thanks also to the availability of three differing acoustic versions
- High EER/COP levels, especially at partial loads

Optimisation of performance also in heat pump mode thanks to hot gas injection and the innovative EcoDefrost defrosting system (min. ambient temperature -10 °C in heat pump mode)



Allows start-up and operation in even the most severe conditions thanks to the unloading function

Simplified installation and easy access to all components

- User friendly controller with multifunctional buttons and dynamic display icons.

Main options

- 4 scroll compressors in parallel within two independent circuits
- Phase monitor against phase reversal
- Compressor crankcase heater
- Single brazed "dual-circuit" stainless steel plate evaporator
- Heat pumps equipped with 2nd thermostatic valve for optimised performance in all operating conditions)
- Axial fans with progressive activation for optimised condensing pressure control, installed in two independent aeraulic sections
- Factory tested and supplied with refrigerant charge and antifreeze oil
- IP54 electric protection rating
- Environmentally friendly refrigerant R410A
- XDRIVE is a microprocessor electronic controller with high computing capacity and user friendly graphic interface
- RS485 ModBus interface for connection to supervisor systems;
- Ethernet connection featuring pre-programmed HTML supervision pages, allowing local or internet based visualization and modification of the operating parameters

Standard Features

- Shell and tube evaporator (AST only)
- 1 or 2 high/low head pressure pumps and water pressure gauge
- Storage tank
- Electronic expansion valves (AST only)
- Compressor shut-off valves on suction and discharge lines
- High efficiency EC inverter fans that allows an high energy savings, special at partial load
- Condenser coils designed for aggressive atmospheres
- Antivibration dampers
- Anti-freeze heaters on evaporator, pump and tank
- Metal mesh filters for condenser coil protection
- Electric power supplies differing from standard
- Soft starter allows about a 20% reduction of the start-up current than direct start
- Victaulic connections
- Simple remote control
- Replicated remote user terminal
- Serial connection to supervisor systems
- MTA XCONNECT supervision based on internal web pages
- Modularity/web interconnection hub

Versions:

- **AST** - Cooling only
- **HAST** - Reversible heat pump
- **Low ambient air temperature** - down to -20 °C in cooling mode (AST only)
- **H version** - for high external air temperature/high efficiency (only AST)
- **HE** - High energy efficiency and basic acoustic configuration
- **SHE** - High energy efficiency and low noise acoustic configuration

The evolution of commercial chillers.

The air-cooled water chillers ARIES Tech have evolved to fulfil the present and future needs of commercial air conditioning systems. They are extremely customizable to guarantee an easy installation for any plant solution.

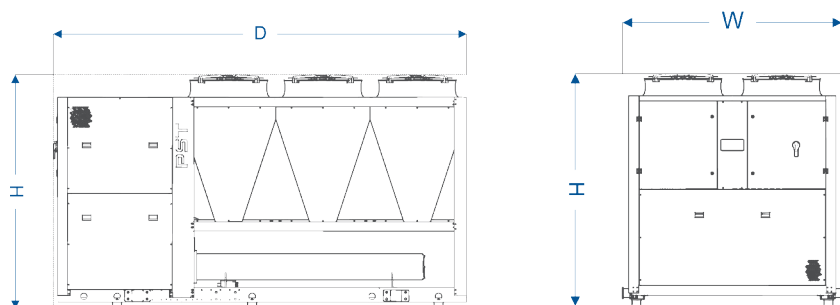
The ARIES Tech range is the example of targeted design, essential to obtain a reduced operating cost for air conditioning of medium and large residential or commercial spaces without excluding reliability the environment protection.

Model AST (HE)

		060	070	080	090	100	110	120
Cooling capacity	kW	166	186.4	209.2	241.4	285.8	306.4	340
Cooling capacity	TR	47.2	53	59.48	68.64	81.26	87.12	96.67
Total absorbed power	kW	52	58.8	64.13	72.69	84.8	93.2	107.6
EER	-	3.19	3.17	3.26	3.32	3.37	3.29	3.16
Max external air temperature	°C	52	50	50	52	51	50	49
EXCHANGERS								
Evaporator pressure drops	kPa	40	33	42	44	37	43	47
Water flow	m ³ /h	28.49	32	35.91	41.44	49.06	52.59	58.36
GENERAL DATA								
Refrigerant	-	R410A						
Circuits / Compressors	N°	2 / 4						
Refrigerant	V/Ph/Hz	400 ± 10% / 3 - PE / 50						
Circuits / Compressors	-	IP54						
NOISE LEVEL								
Noise pressure	dB(A)	60	60	61	61	62	63	63
Noise power	dB(A)	92	92	93	93	94	95	95
SIZE AND WEIGHT								
Depth	mm	3570	3570	3570	4300	4300	4300	4300
Width	mm	2192	2192	2192	2192	2192	2192	2192
Height	mm	2400	2400	2400	2400	2400	2400	2400
Weight	kg	1962	2016	2143	2642	2985	2985	3156

(1) Evaporator water inlet-outlet temperature 12-7°C, external air temperature 35°C.

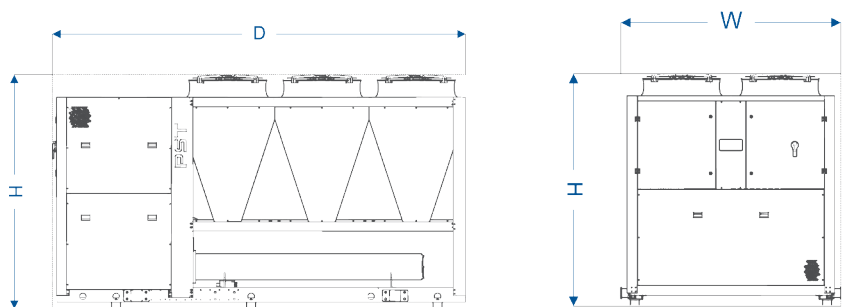
(2) Sound pressure at 10 m: Average value obtained in free field on a reflective surface at a distance of 10 m from the side of the condenser coils and at a height of 1.6 m from the unit support base. Values with tolerance +/-2. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump. The listed noise levels, weights and dimensions refer to base chillers with no options fitted.



Model AST (SHE)

		060	070	080	090	100	110	120
Cooling capacity	kW	164	184.2	202.4	235.6	277.8	296.4	328
Cooling capacity	TR	46.6	52.4	57.5	67	79	84.3	93.26
Total absorbed power	kW	50.5	57.6	64.7	71.7	84.7	93.7	109.2
EER	-	3.24	3.20	3.13	3.28	3.28	3.16	3.00
Max external air temperature	°C	49	48	46	50	48	47	45
EXCHANGERS								
Evaporator pressure drops	kPa	39	33	39	42	35	40	44
Water flow	m ³ /h	28.15	31.62	34.74	40.44	47.68	50.88	56.3
GENERAL DATA								
Refrigerant	-	R410A						
Circuits / Compressors	N°	2 / 4						
Refrigerant	V/Ph/Hz	400 ± 10% / 3 - PE / 50						
Circuits / Compressors	-	IP54						
NOISE LEVEL								
Noise pressure	dB(A)	52	52	53	54	55	55	56
Noise power	dB(A)	84	84	85	86	87	87	88
SIZE AND WEIGHT								
Depth	mm	3570	3570	3570	4300	4300	4300	4300
Width	mm	2192	2192	2192	2192	2192	2192	2192
Height	mm	2400	2400	2400	2400	2400	2400	2400
Weight	kg	2036	2091	2143	2642	2984	2984	3156

- (1) Evaporator water inlet-outlet temperature 12-7°C, external air temperature 35°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. 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.



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