

H.Stars Combined Cooling and Heating System (Tri-function)



H.Stars (Guangzhou) Refrigerating Equipment Group Ltd.

Tri-function System

H.Stars air source Tri-function systems have five major functions: cooling, heating, hot water, cooling with hot water, and heating with hot water.

It can be used in summer for cooling, and at the same time to produce hot water, or just for cooling alone; in spring and autumn when there is no need for cooling and heating, it can be used to produce hot water; and it can be used for heating and producing hot water in winter.

The integrated microcomputer control system enables them to automatically identify and adjust operating conditions according to actual water temperature and purpose of use. In addition to fully automated intelligent control, they may also be subject to remote management program, in which remote service is made possible through feedback of system operation information.

These energy-saving, environmentally friendly, multi-functional, compact structured, space saving, and easy-to-install systems are suitable for hotels, villas, hospitals, schools and other places with demand for cooling and heating.



Screw Tri-function System



Scroll Tri-function System



Invention patent certificate for air source Tri-function system

Cooling/hot water mode

When turned on, the system is in the cooling/hot water mode, which produces free domestic hot water during the cooling process; when the air conditioning chilled water reaches its set value but the domestic hot water does not, the system will automatically switch to hot water mode; when the domestic hot water reaches its set value, but the air conditioning chilled water does not, the system will automatically switch to cooling water mode; and when both air conditioning chilled water and domestic hot water reach their own set value, the compressor stops and the system enters into the standby mode .

Heating/hot water mode

Winter heating-hot water mode 1 (with priority on hot water): When turned on, the system will go into hot water mode, and when the hot water temperature reaches its set value, the system will automatically switch to heating mode; when the hot water temperature drops below the set value again, the system will switch back into hot water mode again; and when both hot water and floor heating temperatures reach their respective set values, the compressor stops and the system enters into the standby mode. Winter heating-hot water mode 2 (with priority on heating): When turned on, the system will go into heating mode, and when the heating reaches its set value, the system will automatically switch to hot water mode; when the heating temperature drops below the set value again, the system will switch back into heating mode; and when both hot water and floor heating temperatures reach their respective set values, the compressor stops and the system enters into the standby mode.

Hot water mode

The system will run the mode of producing domestic hot water; when the hot water temperature reaches the set value, the compressor stops and the system enters into the standby mode; and when the hot water drops below the set value again, the system will automatically start to produce hot water.

Heating mode

The system will run the heating mode; when the floor heating temperature reaches the set value, the compressor stops and the system enters into the standby mode; and when the heating temperature drops below the set value again, the system will automatically start the heating process.

Cooling mode

The system will run the cooling mode; when the cooling temperature reaches the set value, the compressor stops and the system enters into the standby mode; and when the chilled water temperature rises above the set value again, the system will automatically start the cooling process. (To avoid frequent switches between modes, cooling mode can be selected in summer, when hot water is not needed)



Main screen

Motels/Hotels

Motels and hotels usually have an air-conditioning season of at least 9 months each year. During the cooling season, the air source multi-function system also can supply hot water for free. During heating and transition seasons, the system will automatically switch between modes for floor heating and hot water production. Compared with boilers, it can save about 30% of operating costs. Statistics show that air source multi functional system can save 50% of energy costs as a whole in comparison with traditional air- conditioners.

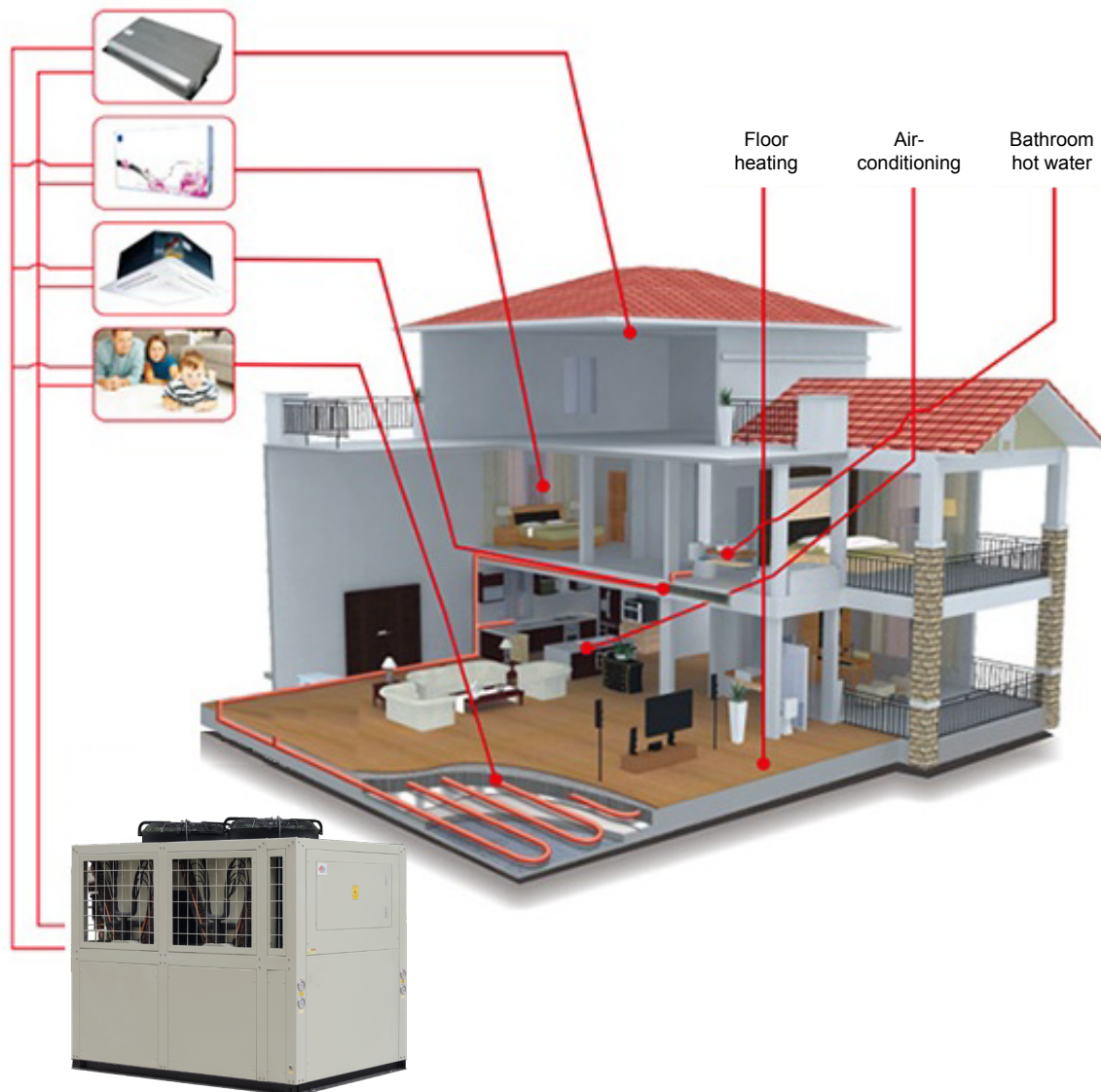
Schools/Hospitals

Operating rooms in hospitals require constant temperature throughout the year. Classrooms, dormitories, and offices in

schools need cooling in summer and heating in winter. And the large number of people in schools and hospitals means there is also a great demand for domestic hot water. The air source multi-function system can meet all these needs throughout the year. Moreover, it can comprehensively balance the cooling and heating requirements, achieving both goal of high performance and energy efficiency.

Apartments/Houses

The air-source multi functional system is very energy-efficient, about 40% higher than traditional air-conditioning system in all-year overall efficiency. It has multiple functions, in addition to cooling and heating, it can also provide domestic hot water to meet the needs of apartments and houses.



Technical Parameter Table of H.Stars Scroll Tri-function Systems

Refrigerant: R22 Power supply: 380V-3Ph-50Hz

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
30ST-10AS4	27	8	40	10	29	8	1-1/2"	6	23	1-1/2"	7	23	Shell and tube type Hydrophilic corrugated aluminum with copper pipe sleeve		14.5	1.2×1	65	620	730
30ST-12.5AS4	32	9	46	11	33	9	2"	7	28	2"	8	28			14.5	1.2×1	66	680	790
30ST-15AS4	40	12	59	15	43	12	2"	9	30	2"	10	30			20	2.0×1	67	830	940
30ST-20AD4	54	16	80	20	58	16	2"	12	28	2"	14	28			29	1.2×2	67	980	1090
30ST-25AD4	64	18	92	22	66	18	2"	14	28	2"	16	28			29	1.2×2	68	1030	1140
30ST-30AD4	80	24	118	30	86	24	2-1/2"	17	32	2-1/2"	20	32			40	2.0×2	69	1280	1390

Notes:

- Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
- Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
- Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
- Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m²·°C /kW;
- Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
- Specifications and dimensions are subject to change due to product improvement without prior notice

Technical Parameter Table of H.Stars Scroll Tri-function Systems

Refrigerant: R134a Power supply: 380V-3Ph-50Hz

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
30ST-M10AS4	17	5	26	7	18	5	1-1/2"	4	23	1-1/2"	4	23	Shell and tube type Hydrophilic corrugated aluminum with copper pipe sleeve		14.5	1.2×1	65	620	730
30ST-M12.5AS4	21	7	32	8	22	7	2"	5	28	2"	6	28			14.5	1.2×1	66	680	790
30ST-M15AS4	26	8	39	10	27	8	2"	6	30	2"	7	30			20	2.0×1	67	830	940
30ST-M20AD4	34	10	52	14	36	10	2"	7	28	2"	9	28			29	1.2×2	67	980	1090
30ST-M25AD4	42	14	64	16	44	14	2"	9	28	2"	11	28			29	1.2×2	68	1030	1140
30ST-M30AD4	52	16	78	20	54	16	2-1/2"	11	32	2-1/2"	13	32			40	2.0×2	69	1280	1390

Notes:

- Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
- Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
- Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
- Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m²·°C /kW;
- Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
- Specifications and dimensions are subject to change due to product improvement without prior notice

Technical Parameter Table of H.Stars Screw Tri-function Systems

Refrigerant: R22 Power supply: 380V-3Ph-50Hz

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
60ST-190AS4	113	36	164	45	121	35	2-1/2"	24	26	2-1/2"	28	26	Shell and tube type Hydrophilic corrugated aluminum fin with copper pipe sleeve		57	1.2*4	74	1730	1880
60ST-270AS4	160	50	230	62	169	48	3"	34	32	3"	40	32			80	2.0*4	78	2200	2450
60ST-360AS4	213	65	306	81	225	63	3"	46	35	3"	53	35			114	1.2*8	79	3190	3470
60ST-420AS4	252	74	357	92	263	71	3"	54	50	3"	61	50			115	1.2*8	80	3560	3940
60ST-480AS4	297	86	419	107	308	82	4"	64	55	4"	72	55			115	1.2*8	80	3750	4170
60ST-520AS4	319	93	452	116	333	89	4"	69	58	4"	78	58			161	2.0*8	82	3920	4250
60ST-580AS4	347	103	493	128	358	93	4"	75	64	4"	85	64			161	2.0*8	83	4040	4430

Notes:

1. Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
2. Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
3. Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
4. Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m² · °C /kW;
5. Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
6. Specifications and dimensions are subject to change due to product improvement without prior notice

Technical Parameter Table of H.Stars Screw Tri-function Systems

Refrigerant: R134a Power supply: 380V-3Ph-50Hz

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
60ST-M190AS4	75	23	110	29	78	22	2-1/2"	16	26	2-1/2"	19	26	Shell and tube type Hydrophilic corrugated aluminum fin with copper pipe sleeve		57	1.2*4	74	1730	1880
60ST-M270AS4	107	32	156	41	111	31	3"	23	32	3"	27	32			80	2.0*4	78	2200	2450
60ST-M360AS4	143	43	208	54	147	41	3"	31	35	3"	36	35			114	1.2*8	79	3190	3470
60ST-M420AS4	169	49	244	62	173	47	3"	36	50	3"	42	50			115	1.2*8	80	3560	3940
60ST-M480AS4	195	56	282	71	199	54	4"	42	55	4"	49	55			115	1.2*8	80	3750	4170
60ST-M520AS4	217	60	311	77	220	59	4"	47	58	4"	53	58			161	2.0*8	82	3920	4250
60ST-M580AS4	236	68	341	86	241	66	4"	51	64	4"	59	64			161	2.0*8	83	4040	4430

Notes:

1. Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
2. Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
3. Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
4. Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m² · °C /kW;
5. Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
6. Specifications and dimensions are subject to change due to product improvement without prior notice

Model Specifications (30ST Series)

Technical Parameter Table of H.Stars Scroll Tri-function Systems

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
30ST-10AS4	32	10	48	12	35	10	1-1/2"	7	23	1-1/2"	8	23	Shell and tube type Hydrophilic corrugated aluminum fin with copper pipe sleevelet		14.5	1.2×1	65	620	730
30ST-12.5AS4	38	11	55	13	40	11	2"	8	28	2"	9	28			14.5	1.2×1	66	680	790
30ST-15AS4	48	14	71	18	52	14	2"	10	30	2"	12	30			20	2.0×1	67	830	940
30ST-20AD4	65	19	96	24	70	19	2"	14	28	2"	17	28			29	1.2×2	67	980	1090
30ST-25AD4	77	22	110	26	79	22	2"	17	28	2"	19	28			29	1.2×2	68	1030	1140
30ST-30AD4	96	29	142	36	103	29	2-1/2"	21	32	2-1/2"	24	32			40	2.0×2	69	1280	1390

Notes:

1. Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
2. Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
3. Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
4. Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m² · °C /kW;
5. Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
6. Specifications and dimensions are subject to change due to product improvement without prior notice

Technical Parameter Table of H.Stars Scroll Tri-function Systems

Refrigerant: R134a Power supply: 460V-3Ph-60Hz

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
30ST-M10AS4	20	6	31	8	22	6	1-1/2"	4	23	1-1/2"	5	23	Shell and tube type Hydrophilic corrugated aluminum fin with copper pipe sleevelet		14.5	1.2×1	65	620	730
30ST-M12.5AS4	25	8	38	10	26	8	2"	5	28	2"	7	28			14.5	1.2×1	66	680	790
30ST-M15AS4	31	10	47	12	32	10	2"	7	30	2"	8	30			20	2.0×1	67	830	940
30ST-M20AD4	41	12	62	17	43	12	2"	9	28	2"	11	28			29	1.2×2	67	980	1090
30ST-M25AD4	50	17	77	19	53	17	2"	11	28	2"	13	28			29	1.2×2	68	1030	1140
30ST-M30AD4	62	19	94	24	65	19	2-1/2"	13	32	2-1/2"	16	32			40	2.0×2	69	1280	1390

Notes:

1. Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
2. Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
3. Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
4. Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m² · °C /kW;
5. Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
6. Specifications and dimensions are subject to change due to product improvement without prior notice

Technical Parameter Table of H.Stars Screw Tri-function Systems

Refrigerant: R22 Power supply: 460V-3Ph-60Hz

Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Flow rate in transition seasons m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
60ST-190AS4	136	43	197	54	145	42	2-1/2"	29	26	2-1/2"	34	26	Shell and tube type	Hydrophilic corrugated aluminum fin with copper pipe sleeve	57	1.2*4	74	1730	1880
60ST-270AS4	192	60	276	74	203	58	3"	41	32	3"	47	32			80	2.0*4	78	2200	2450
60ST-360AS4	156	78	367	97	270	76	3"	34	35	3"	63	35			114	1.2*8	79	3190	3470
60ST-420AS4	302	89	428	110	316	85	3"	65	50	3"	74	50			115	1.2*8	80	3560	3940
60ST-480AS4	356	103	503	128	370	98	4"	77	55	4"	87	55			115	1.2*8	80	3750	4170
60ST-520AS4	383	112	542	139	400	107	4"	82	58	4"	93	58			161	2.0*8	82	3920	4250
60ST-580AS4	416	124	592	154	430	112	4"	89	64	4"	102	64			161	2.0*8	83	4040	4430

Remarks:

- Nominal cooling capacity: ambient dry/wet bulb temperature 35°C /24°C , and temperature of inlet/outlet air-conditioning chilled water 12°C /7°C ;
- Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
- Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
- Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m² · °C /kW;
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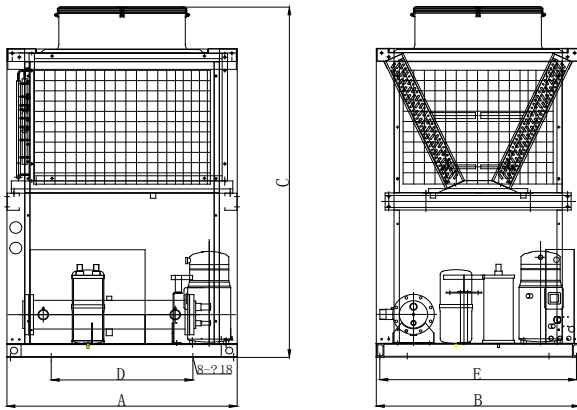
Technical Parameter Table of H.Stars Screw Tri-function Systems

Refrigerant: R134a Power supply: 460V-3Ph-60Hz

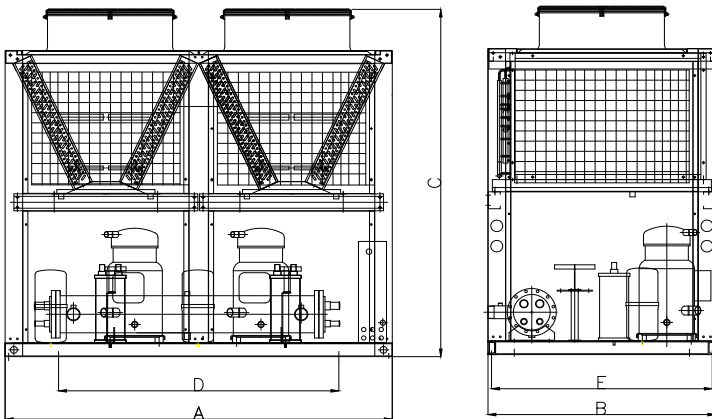
Model	Nominal cooling		Nominal hot water		Floor heating		Chilled water			Hot water			Heat exchanger		Axial fan		Running noise B(A)	Shipping Weight kg	Running weight kg
	Cooling capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Heating capacity kW	Compressor input power kW	Diameter of inlet and outlet pipes in	Water flowrate m ³ /h	Water pressure drop Kpa	Diameter of inlet and outlet pipes in	Flow rate in transition seasons m ³ /h	Water pressure drop Kpa	Heat exchanger (waterside)	Heat exchanger (airside)	Air flow rate×1000 m ³ /h	Input power kW×Qty			
60ST-M190AS4	90	28	132	35	94	26	2-1/2"	19	26	2-1/2"	23	26	Shell and tube type	Hydrophilic corrugated aluminum fin with copper pipe sleeve	57	1.2*4	74	1730	1880
60ST-M270AS4	128	38	187	49	133	37	3"	28	32	3"	32	32			80	2.0*4	78	2200	2450
60ST-M360AS4	172	52	250	65	176	49	3"	37	35	3"	43	35			114	1.2*8	79	3190	3470
60ST-M420AS4	203	59	293	74	208	56	3"	44	50	3"	50	50			115	1.2*8	80	3560	3940
60ST-M480AS4	234	67	338	85	239	65	4"	50	55	4"	58	55			115	1.2*8	80	3750	4170
60ST-M520AS4	260	72	373	92	264	71	4"	56	58	4"	64	58			161	2.0*8	82	3920	4250
60ST-M580AS4	283	82	409	103	289	79	4"	61	64	4"	70	64			161	2.0*8	83	4040	4430

Remarks:

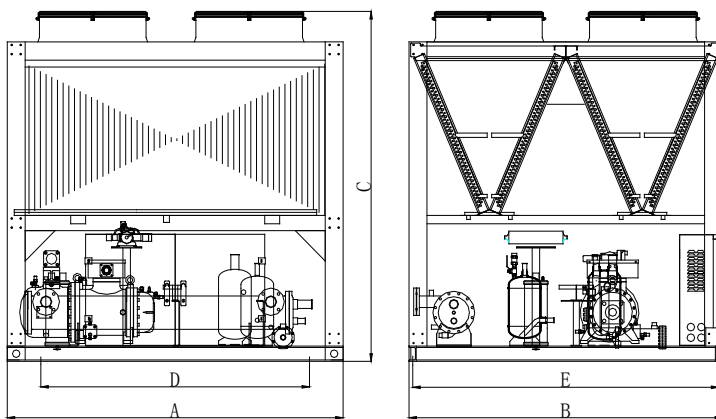
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- Floor heating capacity: ambient dry/wet bulb temperature 7°C /6°C , and temperature of inlet/outlet air-conditioning hot water 40°C /45°C ;
- Nominal hot water capacity: ambient dry/wet bulb temperature 20°C /15°C , and temperature of inlet/outlet domestic hot water 50°C /55°C ;
- Cooling ambient temperature range: 15 ~ 43°C ; heating ambient temperature range: -10 ~ 43°C , and fouling coefficient 0.088m² · °C /kW;
- Optional voltages: 220V, 380V, 400V, 415V, 440V, 460V
- Specifications and dimensions are subject to change due to product improvement without prior notice



MODEL	A	B	C	D	E
30ST-10AS4	1350	1210	2000	1050	1170
30ST-12.5AS4	1350	1210	2000	1050	1170
30ST-15AS4	1400	1210	2050	1050	1170



MODEL	A	B	C	D	E
30ST-20AD4	2200	1150	2000	1500	1110
20ST-25AD4	2200	1150	2000	1500	1110
30ST-30AD4	2200	1150	2000	1500	1110



MODEL	A	B	C	D	E
60ST-190AS4	2250	2100	2300	1800	2050
60ST-270AS4	2250	2100	2400	1800	2050
60ST-360AS4	3400	2100	2400	3600	2050
60ST-420AS4	3400	2100	2400	3600	2050
60ST-480AS4	4500	2100	2450	3600	2050
60ST-520AS4	4500	2100	2450	3600	2050
60ST-580AS4	4500	2100	2450	3600	2050

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