



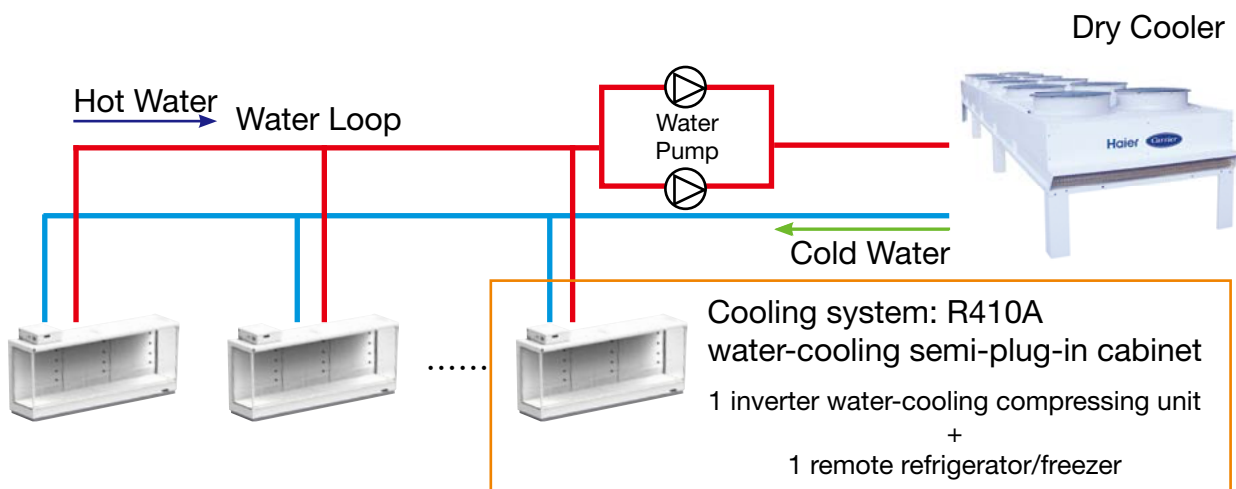
SPI+

Water-cooling Inverter Semi-Plug-in Case System



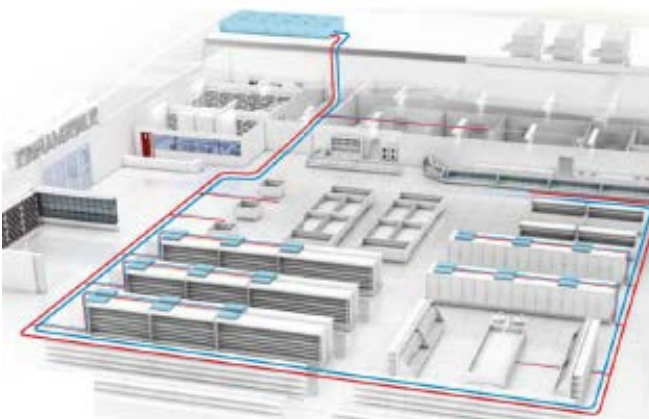
SPI+ Water-cooling Inverter Semi-Plug-in Case System

Schematic Diagram of new DC inverter water-cooling system



Short cooling tubes,
less consumables and welding spot

No needs for on-site filling,
short hand over time



System Advantages

- Compressing condense water-cooling inverter unit adopted for refrigerating machine, less floor area occupied.
- Independent cooling control for each equipment, single equipment failure does not affect system operation.
- Less refrigerant filled, and filling completed in factory, leakage only affects single equipment.
- Environmental friendly cooling medium R410A used
- Simple & convenient installation
- All condensing heating recovering realized, and used as home-use hot water, fulfilled energy saving.

Customer Values

- Water-cooling middle/low temperature integrated solution, flexible options for properties.
- No need for unit room, improved sale and rental ratio.
- No need for on-site filling, plug and play, reduced installation time and cost.
- DC inverter compress condensing unit adopted, stepless speed regulation, high efficiency and energy saving
- One plus one, flexible temperature adjustment in the cabinet
- Short cooling tubes, less refrigerant filled.
- Water-cooling, quiet and no indoor heat dissipation, improved end user experiences
- Hot water recovered, supplied as home-use hot water, energy saving.

VS Classic Central Refrigerating System



80%
reduction of refrigerant
filling volume



96%
reduction of copper tube
leakage



25%
energy saving

*Data from the third-party materials

SPI+ Water-cooling Inverter Semi-Plug-in Case Products Line

Standard Model Case



Standard models of SPI+ Water-cooling Inverter Semi-Plug-in Case include some models of E6 and AGDF.

Customized Model Case



All other Haier Carrier vertical semi-high refrigerator, freezer cases can be supplied as customized nonstandard models.

Standard Products Specifications of SPI+ Water-cooling Inverter Semi-Plug-in Case

	NO.	Product Name	Product Description	Dimensions (LxWxH)	Working Temperature (°C)	Net Weight (Kg)	Display Area (m²)	Effective Volume (m³)
SPI+ Refrigerator	1	Mendos LU D 250A_SPI	2 meters high, E6 self-service multidecks+2.5HPCDU, 1055 width, dairy case	2500*1055*2300	-1~5	475	4.55	2.1
	2	Mendos LU D 375A_SPI	2 meters high, E6 self-service multidecks+3.5HPCDU, 1055 width, dairy case	3750*1055*2300	-1~5	665	6.82	3.16
	3	Mendos LU M 250A_SPI	2 meters high, E6 self-service multidecks+2.5HPCDU, 1055 width, beef case	2500*1055*2300	-1~5	475	4.55	2.1
	4	Mendos LU M 375A_SPI	2 meters high, E6 self-service multidecks+3.5HPCDU, 1055 width, beef case	3750*1055*2300	-1~5	665	6.82	3.16
	5	Mendos EU D 250A_SPI	2 meters high, E6 self-service multidecks+2.5HPCDU, 855 width, dairy case	2500*855*2300	-1~5	445	4.3	1.65
	6	Mendos EU D 375A_SPI	2 meters high, E6 self-service multidecks+3.5HPCDU, 855 width, dairy case	3750*855*2300	-1~5	625	6.45	2.47
	7	Mendos EU M 250A_SPI	2 meters high, E6 self-service multidecks+2.5HPCDU, 855 width, beef case	2500*855*2300	-1~5	445	4.3	1.65
	8	Mendos EU M 375A_SPI	2 meters high, E6 self-service multidecks+3.5HPCDU, 855 width, beef case	3750*855*2300	-1~5	625	6.45	2.47
	9	MenEco LU D 375A_SPI	2 meters high, E6 glass door multidecks+1.0HPCDU, 1055 width, dairy case	3750*1055*2300	-1~7	845	5.01	3.16
	10	MenEco LU M 375A_SPI	2 meters high, E6 glass door multidecks+1.0HPCDU, 1055 width, beef case	3750*1055*2300	-1~7	845	5.01	3.16
	11	MenEco EU D 375AS-SPI	2 meters high, E6 glass door multidecks+1.0HPCDU, 855 width, dairy case	3750*855*2300	-1~7	805	4.73	2.47
	12	MenEco EU M 375A_SPI	2 meters high, E6 glass door multidecks+1.0HPCDU, 855 width, beef case	3750*855*2300	-1~7	805	4.73	2.47
SPI+ Freezer	13	Advanza Freezing Multidecks DB-AGDF 3D 235_SPI	Glass door freezing multidecks, 945 width, 2040 height, 3 doors	2350*945*2340	≤-18	520	2.16	2
	14	Advanza Freezing Multidecks DB-AGDF 4D 313_SPI		3130*945*2340	≤-18	700	2.88	2.62
	15	Advanza Freezing Multidecks DB-AGDF 5D 390_SPI	Glass door freezing multidecks, 945 width, 2040 height, 5 doors	3900*945*2340	≤-18	840	3.6	3.32

Technical Specifications of SPI+ Water-cooling Inverter Low Temperature Freezer

Model		Advanza Freezing Multidecks DB-AGDF 3D 235_SPI	Advanza Freezing Multidecks DB-AGDF 4D 313_SPI	Advanza Freezing Multidecks DB-AGDF 5D 390_SPI
Cooling Medium		R410A		
Rated Operation Working Condition		25°C, 60%		
Evaporating Temperature (°C)		-28.5	-28.5	-28.5
Cooling Capacity (kW)		1.32	1.76	2.2
Plate Type Heat Exchanger Model /BPHE model		B26x18	B26x18	B26x24
Water Side Connections Size of Plate Type Heat Exchanger		Stainless Steel, internal thread 3/4"		
Water Flow (m³/h)				
Based on in/out water temperature 40/45°C (m³/h)		1.14	1.14	1.9
Maximum Operation Current (A)		21	21	29.5
Power Supply Type		220V - 1ph - 50/60Hz		
Type		Quiet, high efficiency, totally enclosed rotor compressor		
Compressor	Model	DA220A1FJH-10B	DA220A1FJH-10B	DA330A3FJH-10C
	Quantity	1	1	1
	Tape Oil Volume (VG74/POE68)	0.62	0.62	0.9
Frequency Range		30~80	30~80	30~80
Liquid Tank	Type	Horizontal		
	Volume (L)	3.3	3.3	4
Dimensions (mm)		2350*945*2340	3130*945*2340	3900*945*2340
Packaging Dimensions (mm)		2580*1150*2500	3330*1150*2500	4000*1150*2500
Weight (kg)		585	765	905

Water-cooling working conditions: Condensing temperature 48°C , degree of superheat 10K, degree of supercooling 0K.



Technical Specifications of SPI+ Water-cooling Inverter Medium Temperature Freezer

Model	Mendos LU D 250A_SPI	Mendos LU D 375A_SPI	Mendos LU M 250A_SPI	Mendos LU M 375A_SPI	Mendos EU D 250A_SPI	
Cooling Medium	R410A					
Evaporating Temperature °C	-5.5	-5.5	-6	-6	-5.5	
Cooling Capacity (kW)	3.99	5.98	4.94	7.4	3.95	
Rated Operating Current	7.90	11.71	9.86	14.68	7.82	
Plate Type Heat Exchanger Model	B26x18	B26x24	B26x18	B26x24	B26x18	
Water Side Connections Size of Plate Type Heat Exchanger	Stainless Steel, internal thread 3/4"					
Water Flow m ³ /h Based on in/out water temperature 40/45°C	1.14	1.929	1.141	1.929	1.141	
Noise dB(A) (@1 m)	<52	<52	<52	<52	<52	
Maximum Operation Current (A)	17	22	17	22	17	
Power Supply Type	220V - 1ph - 50/60Hz					
Type	Quiet, high efficiency, totally enclosed rotor compressor					
Compressor	Model	DA220A1FJH-10B	DA330A3FJH-10C	DA220A1FJH-10B	DA330A3FJH-10C	DA220A1FJH-10B
	Quantity	1	1	1	1	1
	Tape Oil Volume (G74/POE68)	0.62	0.9	0.62	0.9	0.62
Frequency Range	30~80	30~80	30~80	30~80	30~80	
Liquid Tank	Type	Horizontal				
	Volume (L)	3.3	4	3.3	4	3.3
Dimensions (mm)	2500*1055*2300	3750*1055*2300	2500*1055*2300	3750*1055*2300	2500*855*2300	
Packaging Dimensions (mm)	2710*1150*2450	3960*1150*2450	2710*1150*2450	3960*1150*2450	2710*950*2450	
Weight (kg)	475	665	475	665	445	

Water-cooling working conditions: Condensing temperature 48°C , degree of superheat 10K, degree of supercooling 0K.

	Mendos EU D 375A_SPI	Mendos EU M 250A_SPI	Mendos EU M 375A_SPI	MenEco LU D 375A_SPI	MenEco LU M 375A_SPI	MenEco EU D 375AS-SPI	MenEco EU M 375A_SPI
	-5.5	-6	-6	-3	-4	-3	-4
	5.92	4.43	6.64	1.66	1.85	1.44	1.59
	11.59	8.91	13.18	3.05	3.45	2.64	3.00
	B26x24	B26x18	B26x24	B26x8	B26x8	B26x8	B26x8
	1.929	1.141	1.929	0.476	0.476	0.476	0.476
	<52	<52	<52	<52	<52	<52	<52
	22	17	22	15	15	15	15
	DA330A3FJH-10C	DA220A1FJH-10B	DA330A3FJH-10C	DA91A1FJH-10A	DA91A1FJH-10A	DA91A1FJH-10A	DA91A1FJH-10A
	1	1	1	1	1	1	1
	0.9	0.62	0.9	0.4	0.4	0.4	0.4
	30~80	30~80	30~80	30~90	30~90	30~90	30~90
				Vertical			
	4	3.3	4	1.8	1.8	1.8	1.8
	3750*855*2300	2500*855*2300	3750*855*2300	3750*1055*2300	3750*1055*2300	3750*855*2300	3750*855*2300
	3960*950*2450	2710*950*2450	3960*950*2450	3960*1150*2450	3960*1150*2450	3960*950*2450	3960*950*2450
	625	445	625	845	845	805	805

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