

CHILLER

Water-cooled Scroll Chiller

It is a kind of water-cooled chiller with scroll compressor that can be connected with all sorts of fan coil unit to realize cooling/heating for civil or industrial buildings.



- Precise water temperature control thanks to multi-system independent control method.
- Quick response according to different load requirements thanks to EXV throttle method.
- Horizontal shell and tube condenser with compact design makes a high heat transmission coefficient, small cooling water consumption and easy maintenance.
- All Sorts of options like Underground water, underground loop and cooling tower available.
- Water pump control can be combined with the chiller, no need to manually start-up the pump.
- Adjustable water outlet temperature according to various project requirement.
- Up to 16 units can be integrated freely to get a max. capacity of 2400kW thanks to modular design.

Item	Cooling water (water temperature)						Chilled water (water temperature)	
	Ground-water		Water-loop		Ground-loop		Leaving (°C)	Entering/Leaving difference(°C)
	Entering (°C)	Entering difference (°C)	Entering (°C)	Entering/Leaving difference (°C)	Entering (°C)	Entering/Leaving difference (°C)		
Cooling	10~25	8~13	20~40	2.5~8	10~40	2.5~8	5~15	2.5~8
Heating	10~25	4~10	15~30	2.5~8	-5~25	2.5~8	35~55	3.5~9

Model			Water-loop type			Ground-water type			
			SSD750W-M	SSD1100W-M	SSD1500W-M	SSD750W-M	SSD1100W-M	SSD1500W-M	
Capacity	Cooling/Heating	kW	75.2/92.2	111.0/134.7	152.0/185.0	78.8/82.5	118.2/124.0	157.7/165.0	
		TR	21.4/26.2	31.6/38.3	43.2/52.6	22.4/23.5	33.6/35.3	44.8/46.9	
EER/COP		WW	5.05/4.73	5.07/4.68	5.08/4.72	5.63/4.32	5.63/4.37	5.63/4.34	
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	
Power input	Cooling/Heating	kW	14.9/19.5	21.9/28.8	29.9/39.2	14.0/19.1	21.0/28.4	28.0/38.0	
Compressor	Type		Hermetic scroll compressor						
	Quantity		2	3	4	2	3	4	
Refrigerant charge volume		kg	8+8	4.5+10.5	10+10	8+8	4.5+10.5	10+10	
Refrigerant oil	Type		3GS	3GS	3GS	3GS	3GS	3GS	
	Charge volume	L	3.25x2	3.25x3	3.25x4	3.25x2	3.25x3	3.25x4	
Evaporator	Type		Dry shell-and-tube						
	Fouling factor	m ² ·°C/kw	0.018	0.018	0.018	0.018	0.018	0.018	
	Water flow volume	Cooling/ Heating	l/s	3.61/4.44	5.28/6.39	7.22/8.89	3.61/2.08	5.28/3.06	7.22/4.17
		GPM	15.90/19.55	23.25/28.14	31.79/39.15	15.90/9.16	23.25/13.47	31.79/18.36	
	Pressure drop	Cooling/ Heating	kPa	35/45	45/55	45/55	35/20	45/30	45/40
		ft.WG	11.48/14.76	14.76/18.04	14.76/18.04	11.48/6.56	14.76/9.84	14.76/13.12	
	Connection pipe		DN65 clamping band	DN65 clamping band	DN80 clamping band	DN65 clamping band	DN65 clamping band	DN80 clamping band	
	Type		Horizontal shell-and-tube						
Condenser	Fouling factor	m ² ·°C/kw	0.044	0.044	0.044	0.044	0.044	0.044	
	Water flow volume	Cooling/ Heating	l/s	4.44	6.39	8.89	2.08	3.06	4.17
		GPM	19.55	28.14	39.15	9.16	13.47	18.36	
	Pressure drop	Cooling/ Heating	kPa	3.61	5.28	7.22	3.61	5.28	7.22
		GPM	15.90	23.25	31.79	15.90	23.25	31.79	
	Pressure drop	Cooling/ Heating	kPa	45	55	55	20	30	40
		ft.WG	14.76	18.04	18.04	6.56	9.84	13.12	
	Connection pipe		DN65 clamping band	DN65 clamping band	DN80 clamping band	DN65 clamping band	DN65 clamping band	DN80 clamping band	
Type		Horizontal shell-and-tube							
Sound pressure level		dB(A)	72	77	77	72	77	77	
Dimension	Outline(WxDxH)	mm	1910x700x1300	1910x700x1300	2270x730x1450	1910x700x1300	1910x700x1300	2270x730x1450	
	Package(WxDxH)	mm	1910x700x1300	1910x700x1300	2270x730x1450	1910x700x1300	1910x700x1300	2270x730x1450	
Net/Gross/ Operating weight	Cooling only	kg	560/565/660	670/675/820	1020/1025/1220	560/565/660	670/675/820	1020/1025/1220	
	Heat pump	kg	560/565/660	670/675/820	1020/1025/1220	560/565/660	670/675/820	1020/1025/1220	
Loading quantity	40'GP/40'HQ	set	18/18	18/18	15/15	18/18	18/18	15/15	

Model			Ground-loop type			
			SSD750DW-M	SSD1100DW-M	SSD1500DW-M	
Capacity	Cooling/Heating	kW	77.7/84.7	116.3/126.7	155.8/168.6	
		TR	22.1/24.1	33.1/36.0	44.3/47.9	
EER/COP		WW	5.39/4.15	5.31/4.16	5.35/4.14	
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	
Power input	Cooling/Heating	kW	14.4/20.4	21.9/30.4	29.1/40.7	
Compressor	Type		Hermetic scroll compressor			
	Quantity		2	3	4	
Refrigerant charge volume		kg	8+8	4.5+10.5	10+10	
Refrigerant oil	Type		3GS	3GS	3GS	
	Charge volume	L	3.25x2	3.25x3	3.25x4	
Evaporator	Type		Dry shell-and-tube			
	Fouling factor	m ² ·°C/kw	0.018	0.018	0.018	
	Water flow volume	Cooling/ Heating	l/s	3.61/4.44	5.28/6.39	7.22/8.89
		GPM	15.90/19.55	23.25/28.14	31.79/39.15	
	Pressure drop	Cooling/ Heating	kPa	35/45	45/55	45/55
		ft.WG	11.48/14.76	14.76/18.04	14.76/18.04	
	Connection pipe		DN65 clamping band	DN65 clamping band	DN80 clamping band	
	Type		Horizontal shell-and-tube			
Condenser	Fouling factor	m ² ·°C/kw	0.044	0.044	0.044	
	Water flow volume	Cooling/ Heating	l/s	4.44/3.61	6.39/5.28	8.89/7.22
		GPM	19.55/15.90	28.14/23.25	39.15/31.79	
	Pressure drop	Cooling/ Heating	kPa	45/35	55/45	55/45
		ft.WG	14.76/11.48	18.04/14.76	18.04/14.76	
	Connection pipe		DN65 clamping band	DN65 clamping band	DN80 clamping band	
	Sound pressure level		dB(A)	72	77	77
	Dimension	Outline (WxDxH)	mm	1910x700x1300	1910x700x1300	2270x730x1450
Package(WxDxH)		mm	1910x700x1300	1910x700x1300	2270x730x1450	
Net/Gross/ Operating weight	Cooling only	kg	560/565/660	670/675/820	1020/1025/1220	
	Heat pump	kg	560/565/660	670/675/820	1020/1025/1220	
Loading quantity	40'GP/40'HQ	set	18/18	18/18	15/15	