

Hi-FLEXi X Series

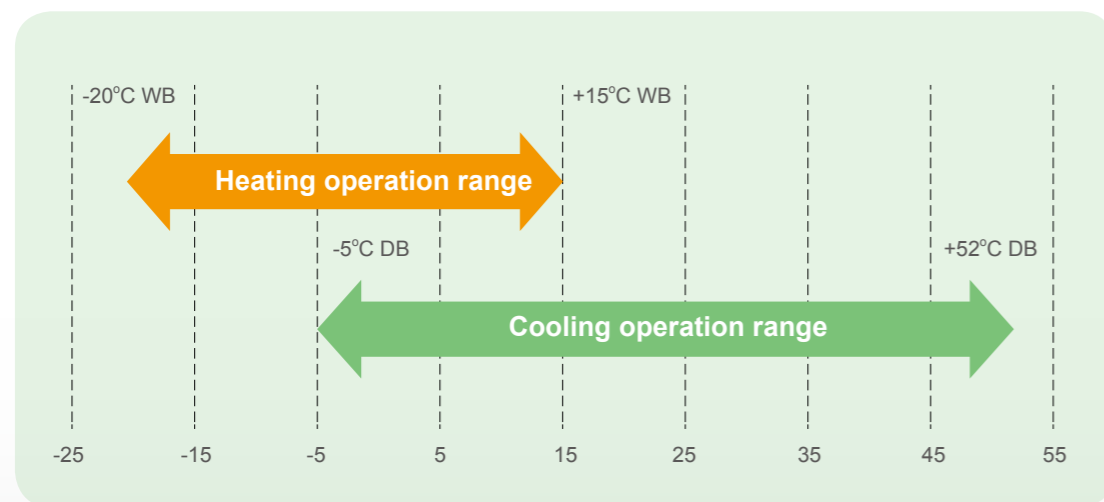
Hi-FLEXi X Series is equipped with large capacity full DC inverter compressor. The wide capacity range and compact structure design make it suitable for various place such as office building, shopping mall, hospital, school and so on.

- High efficiency and large capacity scroll compressor
- Latest DC inverter-driven technology
- Stepless fan speed regulation technology
- Smart and accurate unit capacity allocation technology
- Intelligent control mode



Wide Operating Range

The system can run in a wide temperature range, the lowest temperature can reach -20°C WB, ensure a good heating effect in winter.



Super-long Piping Conditions, More Convenient Design

Max. piping length: 190m*
Max. total piping length: 1000m

Max. piping length between 1st branch and indoor unit: 90m

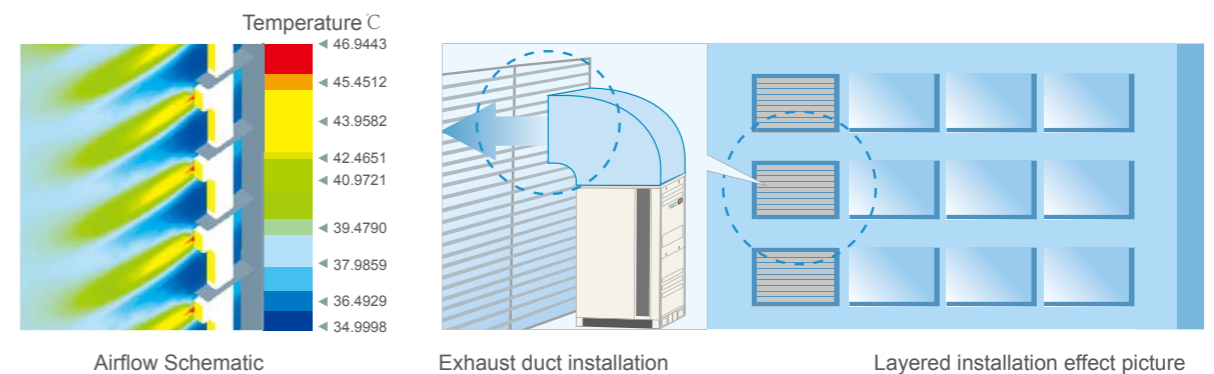
Height difference between outdoor and indoor unit
Outdoor unit is higher: 90m*
Outdoor unit is lower: 90m*

Height difference between indoor units: 30m*

Note: For data marked by ※, please contact with our professional engineer.

Layered Installation, Flexibly Corresponding to High-rise Buildings

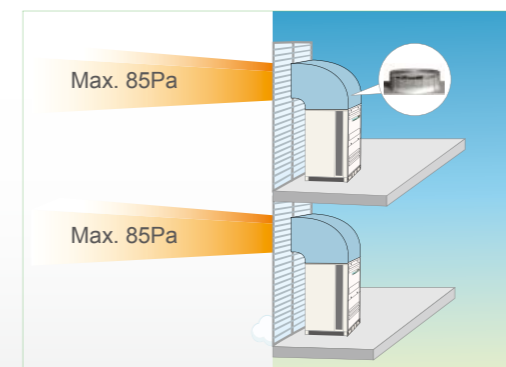
For high-rise buildings, machine layer can be left to place outdoor units, or machine room can be set up on each floor. By using exhaust duct to exhaust the air, with long distance supply air, can effectively prevent short circuit of return air, ensure good ventilation and heat exchange effects of outdoor units.



Extra-high external static pressure design

The efficient axial fan is designed adopting CFD, finite element method, aviation dynamic fluid simulation analysis and other advanced concepts; its air inlet angle and outlet angle are optimized; together with unique horn air vent design, the external static pressure of outdoor unit is higher, which can better exhaust air and ensure smooth air flow.

- Adopt high-efficiency DC fan motor
- The use of high-efficiency fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 85Pa



Outdoor Unit Specifications



Hi-FLEXi X Series		HP	8HP	10HP	12HP	14HP	16HP	18HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-76UESRX	AVWT-96UESRX	AVWT-114UESX	AVWT-136UESX	AVWT-154UESX	AVWT-172UESX
Combination								AVWT-76UESRX AVWT-96UESRX
Cooling Operation	Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.4
		KBtu/h	76.5	95.6	114.3	136.5	153.5	172.0
	Power Consumption	kW	5.25	7.31	8.57	11.05	13.16	12.56
	EER		4.27	3.83	3.91	3.62	3.42	4.01
Heating Operation	Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.5
		KBtu/h	85.3	107.5	128.0	153.5	170.6	192.8
	Power Consumption	kW	5.62	7.61	8.89	11.08	12.47	13.23
	COP		4.45	4.14	4.22	4.06	4.01	4.27
Air Flow Rate		m ³ /min	155	170	175	190	190	155+170
Outer Dimension (H×W×D)		mm	1,720×950×750		1,720×1,210×750		1,720×(950+950)×750	
Packing Dimension (H×W×D)		mm	1,882×1,018×828		1,882×1,278×828		—	
Net Weight		Kg	197	197	224	227	247	197+197
Gross Weight		Kg	223	223	248	250	272	223+223
Compressor Quantity			1	1	1	1	1	1+1
Condenser Fan Quantity			1	1	1	1	1	1+1
Cabinet Color			Ivory White					
Refrigerant Piping	Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Max. Indoor Unit Connectable			13	16	19	23	26	26
Noise Level		dB(A)	62/54	64/55	64/56	65/57	66/58	66/57
Operation Range	Cooling Mode	°C	-5~52*					
	Heating Mode	°C	-20~15					
Max. Single piping length		m	190	190	190	190	190	190
Height Difference	Between ODU&IDU	m	50(40)	50(40)	50(40)	50(40)	50(40)	50(40)
	Between IDUs	m	15	15	15	15	15	15

Notes:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- When the cooling operation temperature is over 52°C, please contact our professional engineer.



Hi-FLEXi X Series		HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-190UESZX	AVWT-210UESZX	AVWT-229UESZX	AVWT-250UESZX	AVWT-268UESZX	AVWT-290UESZX	AVWT-307UESZX
Combination			AVWT-76UESRX	AVWT-96UESRX	AVWT-114UESX	AVWT-114UESX	AVWT-114UESX	AVWT-136UESX	AVWT-154UESX
Cooling Operation	Cooling Capacity	kW	56.0	61.5	67.0	73.5	78.5	85.0	90.0
		KBtu/h	191.1	209.8	228.6	250.8	267.8	290	307.1
	Power Consumption	kW	13.82	15.88	17.14	19.62	21.73	24.21	26.32
	EER		4.05	3.87	3.91	3.75	3.61	3.51	3.42
Heating Operation	Heating Capacity	kW	62.5	69.0	75.0	82.5	87.5	95.0	100.0
		KBtu/h	213.3	235.5	256.0	281.5	298.6	324.1	341.2
	Power Consumption	kW	14.51	16.5	17.78	19.97	21.36	23.55	24.94
	COP		4.31	4.18	4.22	4.13	4.10	4.03	4.01
Air Flow Rate		m ³ /min	155+175	170+175	175+175	175+190	175+190	190+190	190+190
Outer Dimension (H×W×D)		mm	1,720×(950+1,210)×750		1,720×(1,210+1,210)×750				
Packing Dimension (H×W×D)		mm	—		—				
Net Weight		Kg	197+224	197+224	224+224	224+227	224+247	227+247	247+247
Gross Weight		Kg	223+248	223+248	248+248	248+250	248+272	250+272	272+272
Compressor Quantity			1+1	1+1	1+1	1+1	1+1	1+1	1+1
Condenser Fan Quantity			1+1	1+1	1+1	1+1	1+1	1+1	1+1
Cabinet Color			Ivory White						
Refrigerant Piping	Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75	Φ31.75	Φ31.75	Φ31.75
	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. Indoor Unit Connectable			33	36	40	43	47	50	53
Noise Level		dB(A)	68/60	68/60	68/60	68/60	69/61	69/61	69/62
Operation Range	Cooling Mode	°C	-5~52*						
	Heating Mode	°C	-20~15						
Max. Single piping length		m	190	190	190	190	190	190	
Height Difference	Between ODU&IDU	m	50(40)	50(40)	50(40)	50(40)	50(40)	50(40)	
	Between IDUs	m	15	15	15	15	15	15	

Notes:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
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Outdoor Unit Specifications



Hi-FLEXi X Series		HP	34HP	36HP	38HP	40HP	42HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-324UESZX	AVWT-343UESZX	AVWT-365UESZX	AVWT-386UESZX	AVWT-404UESZX
Combination			AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-154UESSX
Cooling Operation	Cooling Capacity	kW	96.0	100.5	107.0	113.0	118.5
		KBtu/h	327.6	342.9	365.1	385.6	404.3
	Power Consumption	kW	24.45	25.71	28.19	30.3	32.78
	EER		3.93	3.91	3.80	3.73	3.62
Heating Operation	Heating Capacity	kW	106.5	112.5	120.0	125.0	132.5
		KBtu/h	363.5	384.0	409.5	426.6	452.1
	Power Consumption	kW	25.39	26.67	28.86	30.25	32.44
	COP		4.19	4.22	4.16	4.13	4.08
Air Flow Rate	m ³ /min		170+175+175	175+175+175	175+175+190	175+175+190	175+190+190
Outer Dimension (H×W×D)	mm		1,720×(950+1,210+1,210)×750				1,720×(1,210+1,210+1,210)×750
Packing Dimension (H×W×D)	mm		—				—
Net Weight	Kg		197+224+224	224+224+224	224+224+227	224+224+247	224+227+247
Gross Weight	Kg		223+248+248	248+248+248	248+248+250	248+248+272	248+250+272
Compressor Quantity			1+1+1	1+1+1	1+1+1	1+1+1	1+1+1
Condenser Fan Quantity			1+1+1	1+1+1	1+1+1	1+1+1	1+1+1
Cabinet Color			Ivory White				Ivory White
Refrigerant Piping	Gas Line	mm	Φ31.75	Φ38.1	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. Indoor Unit Connectable			56	59	64	64	64
Noise Level	dB(A)		70/63	70/63	71/64	71/64	71/64
Operation Range	Cooling Mode	°C	-5~52*				-5~52*
	Heating Mode	°C	-20~15				-20~15
Max. Single piping length	m		190	190	190	190	190
Height Difference	Between ODU&IDU	m	50(40)	50(40)	50(40)	50(40)	50(40)
	Between IDUs	m	15	15	15	15	15

Notes:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
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Hi-FLEXi X Series		HP	44HP	46HP	48HP	50HP	52HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-420UESZX	AVWT-444UESZX	AVWT-460UESZX	AVWT-480UESZX	AVWT-500UESZX
Combination			AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-114UESSX	AVWT-114UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-114UESSX	AVWT-114UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-114UESSX	AVWT-136UESSX
Cooling Operation	Cooling Capacity	kW	123.5	130.0	135.0	140.4	146.0
		KBtu/h	421.1	443.6	460.6	479	498.2
	Power Consumption	kW	34.89	37.37	39.48	36.76	39.24
	EER		3.54	3.48	3.42	3.82	3.72
Heating Operation	Heating Capacity	kW	137.5	145.0	150.0	156.5	163.0
		KBtu/h	469.2	494.7	511.8	534.0	556.2
	Power Consumption	kW	33.83	36.02	37.41	37.75	39.94
	COP		4.06	4.03	4.01	4.15	4.08
Air Flow Rate	m ³ /min		175+190+190	190+190+190	190+190+190	175+175+175+190	175+175+190+190
Outer Dimension (H×W×D)	mm		1,720×(1,210+1,210+1,210)×750			1,720×(1,210+1,210+1,210)×750	
Packing Dimension (H×W×D)	mm		—			—	
Net Weight	Kg		224+247+247	227+247+247	247+247+247	224+224+224+227	224+224+227+227
Gross Weight	Kg		248+272+272	250+272+272	272+272+272	248+248+248+250	248+248+250+250
Compressor Quantity			1+1+1	1+1+1	1+1+1	1+1+1+1	1+1+1+1
Condenser Fan Quantity			1+1+1	1+1+1	1+1+1	1+1+1+1	1+1+1+1
Cabinet Color			Ivory White				Ivory White
Refrigerant Piping	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1	Φ41.3	Φ41.3
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2
Max. Indoor Unit Connectable			64	64	64	64	64
Noise Level	dB(A)		72/65	72/65	72/65	73/66	73/66
Operation Range	Cooling Mode	°C	-5~52*				-5~52*
	Heating Mode	°C	-20~15				-20~15
Max. Single piping length	m		190	190	190	190	190
Height Difference	Between ODU&IDU	m	50(40)	50(40)	50(40)	50(40)	50(40)
	Between IDUs	m	15	15	15	15	15

Notes:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
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- For 4 modular combination please contact manufacture for special design.
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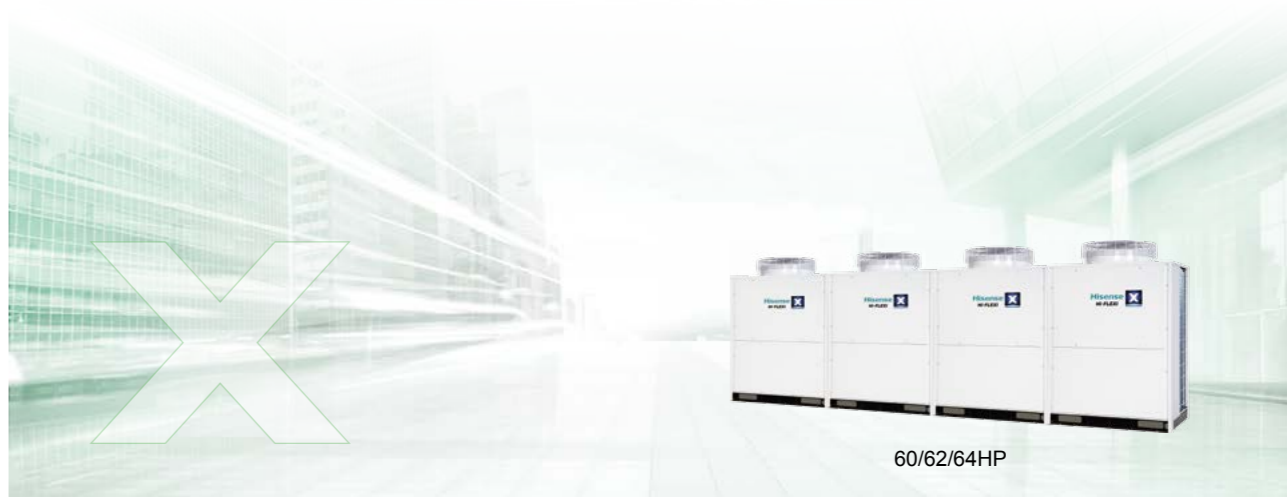
Outdoor Unit Specifications



Hi-FLEXi X Series		HP	54HP	56HP	58HP
Model Power Supply	AC3Φ380V~415V/50Hz		AVWT-520UESZX	AVWT-540UESZX	AVWT-560UESZX
Combination			AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX
			AVWT-136UESSX	AVWT-154UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Cooling Operation	Cooling Capacity	kW	151.5	157.0	163.5
		KBtu/h	516.9	535.7	557.9
	Power Consumption	kW	41.35	43.46	45.94
	EER		3.66	3.61	3.56
Heating Operation	Heating Capacity	kW	169.0	175.0	182.5
		KBtu/h	576.6	597.1	622.7
	Power Consumption	kW	41.33	42.72	44.91
		COP	4.09	4.10	4.06
Air Flow Rate	m ³ /min		175+175+190+190	175+175+190+190	175+190+190+190
Outer Dimension (H×W×D)	mm		1,720×(1,210+1,210+1,210+1,210)×750	1,720×(1,210+1,210+1,210+1,210)×750	
Packing Dimension (H×W×D)	mm		-	-	-
Net Weight	Kg		224+224+227+247	224+224+247+247	224+227+247+247
Gross Weight	Kg		248+248+250+272	248+248+272+272	248+250+272+272
Compressor Quantity			1+1+1+1	1+1+1+1	1+1+1+1
Condenser Fan Quantity			1+1+1+1	1+1+1+1	1+1+1+1
Cabinet Color			Ivory White		
Refrigerant Piping	Gas Line	mm	Φ41.3	Φ41.3	Φ44.5
	Liquid Line	mm	Φ22.2	Φ22.2	Φ22.2
Max. Indoor Unit Connectable			64	64	64
Noise Level		dB(A)	73/66	73/66	74/67
Operation Range	Cooling Mode	°C	-5~52*		
	Heating Mode	°C	-20~15		
Max. Single piping length		m	190	190	190
Height Difference	Between ODU&IDU	m	50(40)	50(40)	50(40)
	Between IDUs	m	15	15	15

Notes:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For 4 modular combination please contact manufacturer for special design.
- When the cooling operation temperature is over 52°C, please contact our professional engineer.



Hi-FLEXi X Series		HP	60HP	62HP	64HP
Model Power Supply	AC3Φ380V~415V/50Hz		AVWT-580UESZX	AVWT-600UESZX	AVWT-620UESZX
Combination			AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Cooling Operation	Cooling Capacity	kW	168.5	175.0	180.0
		KBtu/h	574.9	597.1	614.2
	Power Consumption	kW	48.05	50.53	52.64
	EER		3.51	3.46	3.42
Heating Operation	Heating Capacity	kW	187.5	195.0	200.0
		KBtu/h	639.8	665.3	682.4
	Power Consumption	kW	46.3	48.49	49.88
		COP	4.05	4.02	4.01
Air Flow Rate	m ³ /min		175+190+190+190	190+190+190+190	190+190+190+190
Outer Dimension (H×W×D)	mm		1,720×(1,210+1,210+1,210+1,210)×750		
Packing Dimension (H×W×D)	mm		-	-	-
Net Weight	Kg		224+247+247+247	227+247+247+247	247+247+247+247
Gross Weight	Kg		248+272+272+272	250+272+272+272	272+272+272+272
Compressor Quantity			1+1+1+1	1+1+1+1	1+1+1+1
Condenser Fan Quantity			1+1+1+1	1+1+1+1	1+1+1+1
Cabinet Color			Ivory White		
Refrigerant Piping	Gas Line	mm	Φ44.5	Φ44.5	Φ44.5
	Liquid Line	mm	Φ22.2	Φ22.2	Φ22.2
Max. Indoor Unit Connectable			64	64	64
Noise Level		dB(A)	74/67	74/67	74/67
Operation Range	Cooling Mode	°C	-5~52*		
	Heating Mode	°C	-20~15		
Max. Single piping length		m	190	190	190
Height Difference	Between ODU&IDU	m	50(40)	50(40)	50(40)
	Between IDUs	m	15	15	15

Notes:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
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- When the cooling operation temperature is over 52°C, please contact our professional engineer.