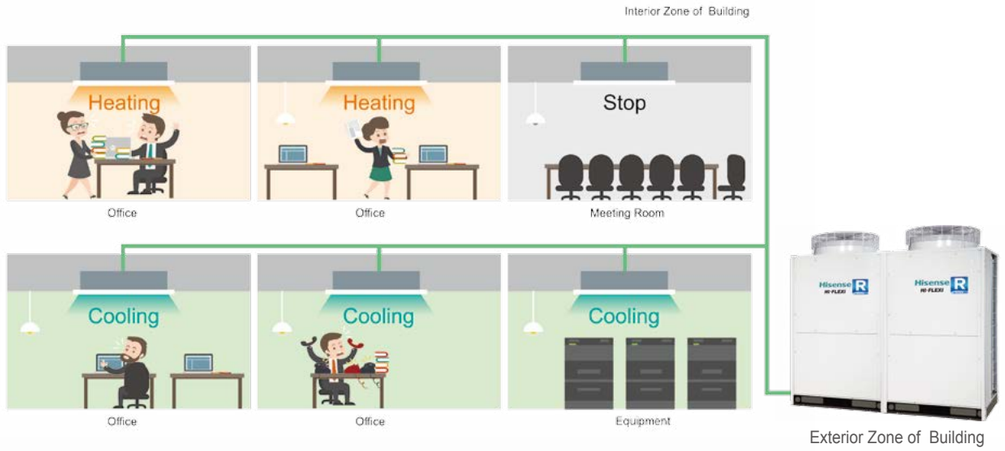
Hi-FLEXi R Series

Hisense Hi-FLEXi R Series heat recovery air conditioning systems can realize simultaneous cooling and heating operation within one refrigerating system, which not only contributes to energy conservation but also meets various requirements of different consumers.

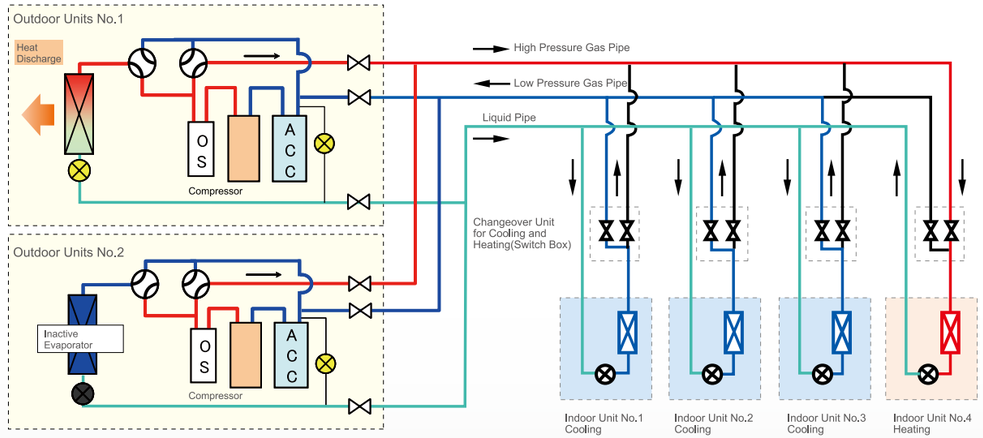
- High efficiency scroll compressor
- Simultaneous cooling and heating
- Lastest inverter control technology
- Intelligent control system

Heat Recovery



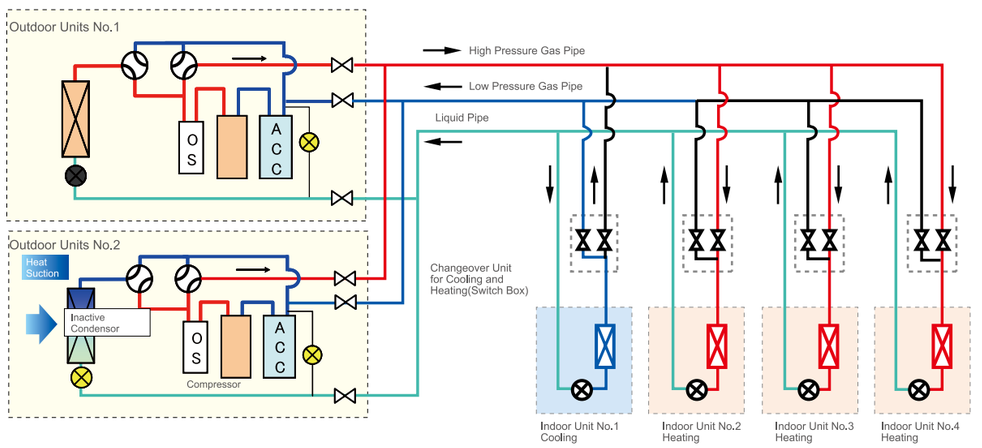
Meeting various requirements of customers who are sensitive to temperature and diverse space with different function from the perspective of humanity especially at the transition season, like the complex of equipment rooms and offices, or the guest rooms and dining hall in the same hotel etc.
The latest heat recovery multi-split system make season indoor units work in cooling and heating at the same time and being switched between two modes individually,which flexibly satisfies personalized need of different users.

Cooling Domination Mode



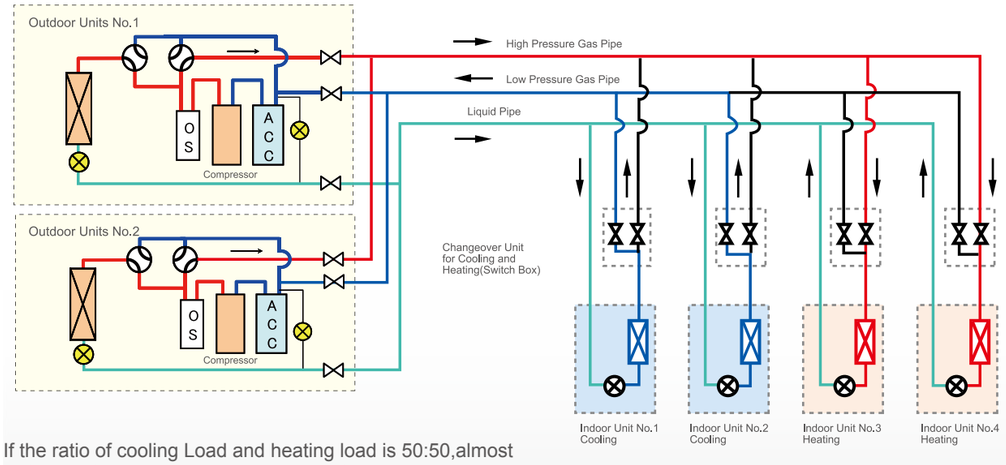
When total indoor heating load is less than cooling load,heat is being transferred from cooling room to heating room,part of heat exchanger is used as condenser to exhaust the redundant heat.

Heating Domination Mode



When total indoor heating load is more than cooling load,heat is being transferred from cooling room to heating room,part of heat exchanger is used as evaporator to compensate the required heat.

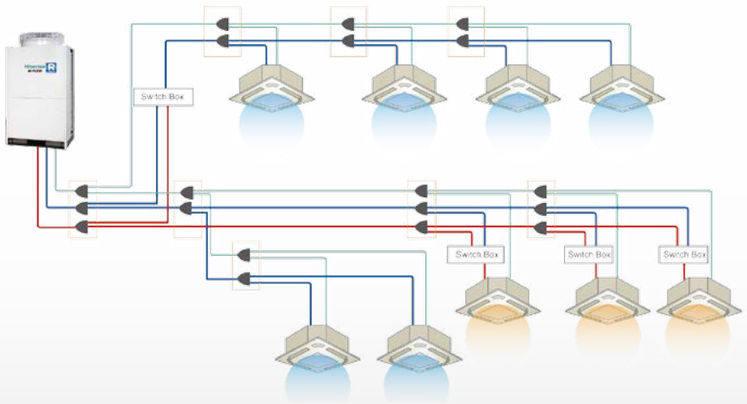
Cooling/Heating Equilibrium Mode



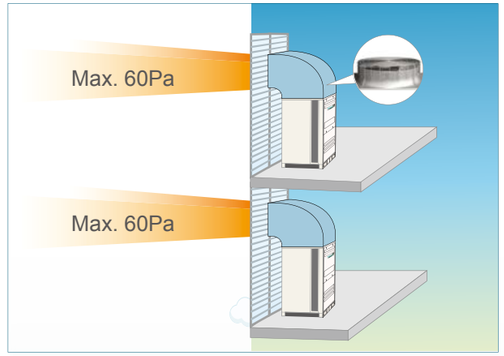
If the ratio of cooling Load and heating load is 50:50,almost all the heat is moving among indoor units

Configuration of Heat Recovery Operation System

Hi-FLEXi R Series heat recovery operation system is composed of heat recovery outdoor unit, indoor unit, switch box, branch pipes and refrigerant pipes. One switch box unit could connect to one or multiple indoor units. The indoor units equipped with a same switch box unit will keep the same operation mode.



Extra-high External Static Pressure Design



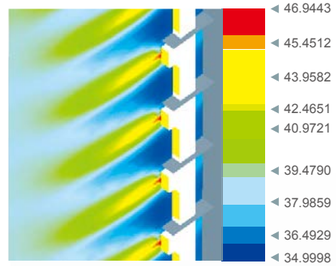
- Adopt high-efficiency DC fan motor
- The use of high-efficiency fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 60Pa

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.

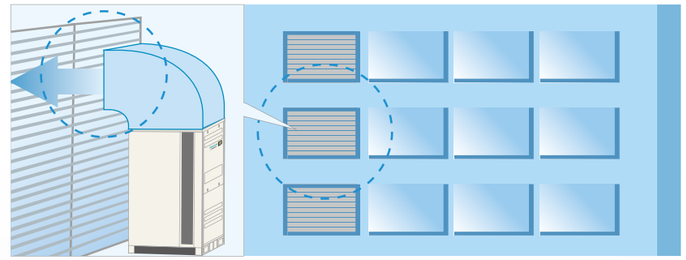
Layered Installation, Flexibly Corresponding to High-rise Buildings

For high-rise buildings, crawl space 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, short circuit of return air can be avoided with long exhaust distance, which ensures good ventilation and heat exchange effects of outdoor units.

Temperature ℃



Airflow Schematic



Exhaust duct installation

Layered installation effect picture

Outdoor Unit Specifications

8/10/12HP

14/16/18HP

Hi-FLEXi R Series		HP	8HP	10HP	12HP	14HP	16HP	18HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-76FESR	AVWT-96FESR	AVWT-114FESR	AVWT-136FESS	AVWT-154FESS	AVWT-170FESS
	AC3Φ380V/60Hz		AVWT-76F7SR	AVWT-96F7SR	AVWT-114F7SR	AVWT-136F7SS	AVWT-154F7SS	AVWT-170F7SS
	AC3Φ220V/60Hz		AVWT-76F9SR	AVWT-96F9SR	AVWT-114F9SR	AVWT-136F9SS	AVWT-154F9SS	AVWT-170F9SS
Combination								
Cooling Operation	Nominal Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0
		KBtu/h	76.5	95.5	114.3	136.5	153.5	170.6
	Power Consumption	kW	5.65	7.65	10.18	12.25	13.74	16.60
	EER		3.96	3.66	3.29	3.27	3.28	3.01
Heating Operation	Nominal Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0
		KBtu/h	85.3	107.5	128.0	153.5	170.6	191.1
	Power Consumption	kW	5.81	7.76	10.12	11.30	12.60	15.30
	COP		4.30	4.06	3.71	3.98	3.97	3.66
Air Flow Rate		m³/h	9,300	10,200	10,500	11,700	11,700	11,700
Outer Dimensions (H×W×D)		mm	1,720×950×750	1,720×950×750	1,720×950×750	1,720×1,210×750	1,720×1,210×750	1,720×1,210×750
Packing Dimension (H×W×D)		mm	1,828×1,018×824	1,828×1,018×824	1,828×1,018×824	1,882×1,278×824	1,882×1,278×824	1,882×1,278×824
Net Weight		Kg	225	227	246	298	312	318
Gross Weight		Kg	235	237	255	310	325	330
Compressor Quantity			1	1	1	2	2	2
Condenser Fan Quantity			1	1	1	1	1	1
Cabinet Color			Ivory White					
Heat Pump Operation System	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
Heat Recovery Operation System	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
	Low Pressure Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
	High Pressure Gas Line	mm	Φ15.88	Φ19.05	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Max. Connectable No. of Indoor Units			13.0	16.0	19.0	23.0	26.0	26.0
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU and IDU	m	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	58	58	60	62	62	63
Operation Range	Cooling	℃ DB	-5~48					
	Heating	℃ WB	-20~15.5					

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
   Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.

20HP

22/24/26HP

Hi-FLEXi R Series		HP	20HP	22HP	24HP	26HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-190FESZ	AVWT-212FESZ	AVWT-232FESZ	AVWT-250FESZ
	AC3Φ380V/60Hz		AVWT-190F7SZ	AVWT-212F7SZ	AVWT-232F7SZ	AVWT-250F7SZ
	AC3Φ220V/60Hz		AVWT-190F9SZ	AVWT-212F9SZ	AVWT-232F9SZ	AVWT-250F9SZ
Combination			AVWT-76FESR AVWT-114FESR	AVWT-76FESR AVWT-136FESS	AVWT-96FESR AVWT-136FESS	AVWT-114FESR AVWT-136FESS
Cooling Operation	Nominal Capacity	kW	56.0	61.5	69.0	73.0
		KBtu/h	190.8	213.0	232.0	250.8
	Power Consumption	kW	15.83	17.90	19.90	22.43
	EER		3.54	3.44	3.47	3.25
Heating Operation	Nominal Capacity	kW	63.0	69.0	77.5	82.5
		KBtu/h	213.3	239.0	261.0	281.5
	Power Consumption	kW	15.93	17.11	19.06	21.42
	COP		3.95	4.03	4.07	3.85
Air Flow Rate		m³/h	19,800	21,000	21,900	22,200
Outer Dimensions (H×W×D)		mm	1,720×(950+950)×750	1,720×(950+1,210)×750	1,720×(950+1,210)×750	1,720×(950+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---	---
Net Weight		Kg	225+246	225+298	227+298	246+298
Gross Weight		Kg	235+255	235+310	237+310	255+310
Compressor Quantity			2	3	3	3
Condenser Fan Quantity			2	2	2	2
Cabinet Color			Ivory White			
Heat Pump Operation System	Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75
	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05
	Low Pressure Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75
	High Pressure Gas Line	mm	Φ22.2	Φ25.4	Φ25.4	Φ25.4
Max. Connectable No. of Indoor Units			33.0	36.0	40.0	43.0
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU and IDU	m	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	62	63	63	64
Operation Range	Cooling	℃ DB	-5~48			
	Heating	℃ WB	-20~15.5			

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
   Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.

Outdoor Unit Specifications

28/30/32/34/36HP

Hi-FLEXi R Series		HP	28HP	30HP	32HP	34HP	36HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-272FESZ	AVWT-290FESZ	AVWT-308FESZ	AVWT-324FESZ	AVWT-340FESZ
	AC3Φ380V/60Hz		AVWT-272F7SZ	AVWT-290F7SZ	AVWT-308F7SZ	AVWT-324F7SZ	AVWT-340F7SZ
	AC3Φ220V/60Hz		AVWT-272F9SZ	AVWT-290F9SZ	AVWT-308F9SZ	AVWT-324F9SZ	AVWT-340F9SZ
Combination			AVWT-136FESS AVWT-136FESS	AVWT-136FESS AVWT-154FESS	AVWT-154FESS AVWT-154FESS	AVWT-154FESS AVWT-170FESS	AVWT-170FESS AVWT-170FESS
Cooling Operation	Nominal Capacity	kW	80.0	85.0	90.0	95.0	100.0
		KBtu/h	273.0	290.0	307.0	324.1	341.2
	Power Consumption	kW	24.50	25.99	27.48	30.34	33.20
	EER		3.27	3.27	3.28	3.13	3.01
Heating Operation	Nominal Capacity	kW	90.0	95.0	100.0	106.0	112.0
		KBtu/h	307.1	324.1	341.2	361.7	382.1
	Power Consumption	kW	22.60	23.90	25.20	27.90	30.60
	COP		3.98	3.97	3.97	3.80	3.66
Air Flow Rate		m³/h	23,400	23,400	23,400	23,400	23,400
Outer Dimensions (H×W×D)		mm	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---	---	---
Net Weight		Kg	298+298	298+312	312+312	312+318	318+318
Gross Weight		Kg	310+310	310+325	325+325	325+330	330+330
Compressor Quantity			4	4	4	4	4
Condenser Fan Quantity			2	2	2	2	2
Cabinet Color			Ivory White				
Heat Pump Operation System	Gas Line	mm	Φ31.75	Φ31.75	Φ31.75	Φ31.75	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75	Φ31.75	Φ31.75
	High Pressure Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Max. Connectable No. of Indoor Units			47.0	50.0	53.0	56.0	59.0
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU and IDU	m	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	65	65	65	66	66
Operation Range	Cooling	°C DB	-5~48				
	Heating	°C WB	-20~15.5				

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20°C DB(68°F DB),
   Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.

38/40/42HP

Hi-FLEXi R Series		HP	38HP	40HP	42HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-364FESZ	AVWT-382FESZ	AVWT-398FESZ
	AC3Φ380V/60Hz		AVWT-364F7SZ	AVWT-382F7SZ	AVWT-398F7SZ
	AC3Φ220V/60Hz		AVWT-364F9SZ	AVWT-382F9SZ	AVWT-398F9SZ
Combination			AVWT-114FESR AVWT-114FESR AVWT-136FESS	AVWT-114FESR AVWT-114FESR AVWT-154FESS	AVWT-114FESR AVWT-114FESR AVWT-170FESS
Cooling Operation	Nominal Capacity	kW	109.0	112.0	118.0
		KBtu/h	365.1	382.1	399.2
	Power Consumption	kW	32.61	34.10	36.96
	EER		3.34	3.28	3.19
Heating Operation	Nominal Capacity	kW	118.0	125.0	132.0
		KBtu/h	409.5	426.5	447.5
	Power Consumption	kW	31.54	32.84	35.54
	COP		3.74	3.81	3.71
Air Flow Rate		m³/h	32,700	32,700	32,700
Outer Dimensions (H×W×D)		mm	1,720×(950+950+1,210)×750	1,720×(950+950+1,210)×750	1,720×(950+950+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---
Net Weight		Kg	246+246+298	246+246+312	246+246+318
Gross Weight		Kg	255+255+310	255+255+325	255+255+330
Compressor Quantity			4	4	4
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Heat Pump Operation System	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	High Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75
Max. Connectable No. of Indoor Units			64.0	64.0	64.0
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU and IDU	m	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	66	66	66
Operation Range	Cooling	°C DB	-5~48		
	Heating	°C WB	-20~15.5		

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20°C DB(68°F DB),
   Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.

Outdoor Unit Specifications

44/46/48HP

Hi-FLEXi R Series		HP	44HP	46HP	48HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-420FESZ	AVWT-438FESZ	AVWT-454FESZ
	AC3Φ380V/60Hz		AVWT-420F7SZ	AVWT-438F7SZ	AVWT-454F7SZ
	AC3Φ220V/60Hz		AVWT-420F9SZ	AVWT-438F9SZ	AVWT-454F9SZ
Combination			AVWT-114FESR AVWT-136FESS AVWT-170FESS	AVWT-114FESR AVWT-154FESS AVWT-170FESS	AVWT-114FESR AVWT-170FESS AVWT-170FESS
Cooling Operation	Nominal Capacity	kW	125.0	132.0	136.0
		KBtu/h	421.4	438.4	455.5
	Power Consumption	kW	39.03	40.52	43.38
	EER		3.20	3.26	3.14
Heating Operationn	Nominal Capacity	kW	140.0	145.0	150.0
		KBtu/h	472.6	494.7	511.8
	Power Consumption	kW	36.72	38.02	40.72
	COP		3.81	3.81	3.68
Air Flow Rate		m³/h	33,900	33,900	33,900
Outer Dimensions (H×W×D)		mm	1,720×(950+1,210+1,210)×750	1,720×(950+1,210+1,210)×750	1,720×(950+1,210+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---
Net Weight		Kg	246+298+318	246+312+318	246+318+318
Gross Weight		Kg	255+310+330	255+325+330	255+330+330
Compressor Quantity			5	5	5
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Heat Pump Operation System	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	High Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75
Max. Connectable No. of Indoor Units			64.0	64.0	64.0
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU and IDU	m	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	67	67	67
Operation Range	Cooling	℃ DB	-5~48		
	Heating	℃ WB	-20~15.5		

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
   Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.

50/52/54HP

Hi-FLEXi R Series		HP	50HP	52HP	54HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-476FESZ	AVWT-494FESZ	AVWT-510FESZ
	AC3Φ380V/60Hz		AVWT-476F7SZ	AVWT-494F7SZ	AVWT-510F7SZ
	AC3Φ220V/60Hz		AVWT-476F9SZ	AVWT-494F9SZ	AVWT-510F9SZ
Combination			AVWT-136FESS AVWT-170FESS AVWT-170FESS	AVWT-154FESS AVWT-170FESS AVWT-170FESS	AVWT-170FESS AVWT-170FESS AVWT-170FESS
Cooling Operation	Nominal Capacity	kW	140.0	145.0	150.0
		KBtu/h	477.7	494.7	511.8
	Power Consumption	kW	45.45	46.94	49.80
	EER		3.08	3.09	3.01
Heating Operation	Nominal Capacity	kW	155.0	160.0	165.0
		KBtu/h	528.9	545.9	563.0
	Power Consumption	kW	41.90	43.20	45.90
	COP		3.70	3.70	3.59
Air Flow Rate		m³/h	35,100	35,100	35,100
Outer Dimensions (H×W×D)		mm	(1,720×1,210×750)×3	(1,720×1,210×750)×3	(1,720×1,210×750)×3
Packing Dimension (H×W×D)		mm	---	---	---
Net Weight		Kg	298+318+318	312+318+318	318+318+318
Gross Weight		Kg	310+330+330	325+330+330	330+330+330
Compressor Quantity			6	6	6
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Heat Pump Operation System	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	High Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75
Max. Connectable No. of Indoor Units			64.0	64.0	64.0
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU and IDU	m	50(90*)/40(90*)	50(90*)/40(90*)	50(90*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	67	67	68
Operation Range	Cooling	℃ DB	-5~48		
	Heating	℃ WB	-20~15.5		

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
   Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.