



ALTITUDE
REFRIGERATION SOLUTIONS

HORIZONTAL TYPE AIR HANDLING UNIT
VERTICAL TYPE AIR HANDLING UNIT
MODULAR AIR HANDLING UNIT



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HORIZONTAL TYPE(QWWC)VERTICAL TYPE(QWLC) AHU

CONTENT

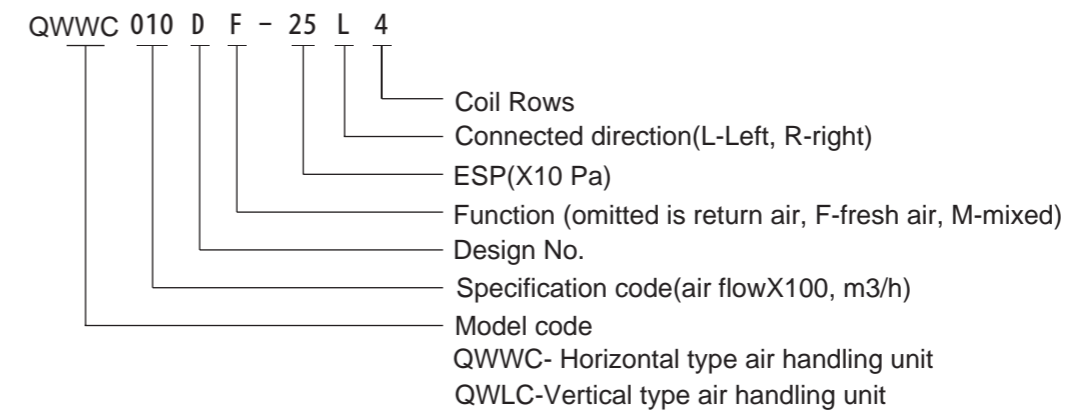
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1 PRODUCT OVERVIEW

The patented air handling unit with tenon and double pillar is our new innovative air handling unit(AHU) product, it is combined by filter, heat exchanger, fan, motor and etc. It can meet kinds of pressure requirements, compact structure, light weight, good cooling and heating performance. The panels are directly assembled, the frame of the panels are patented aluminum ally structure, after assemble, it has good sealing prevent the cold bridge and enhances the box strength.

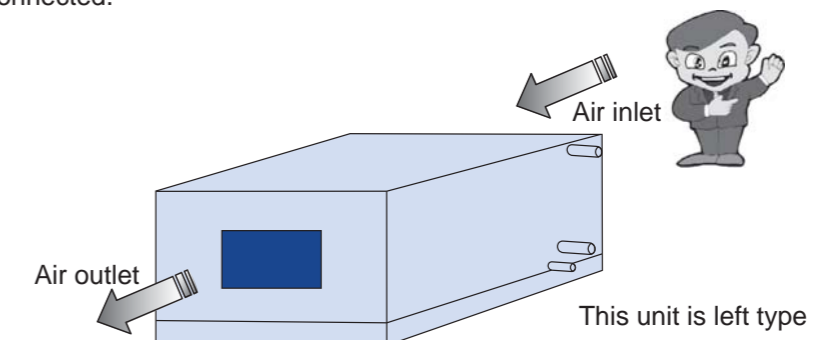
This series units are small volume, low noise, and is widely used in hotel, stadium, exhibition hall, office, metro, air port and etc.

2 MODEL SPECIFICATION



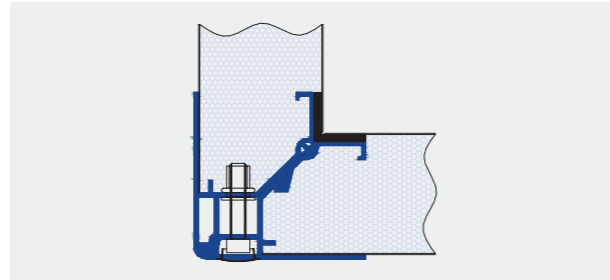
3 PRODUCT FEATURES

Face to the air inlet direction (the air is coming from the back), the pipes and service door on left are left connected, on right are right connected.

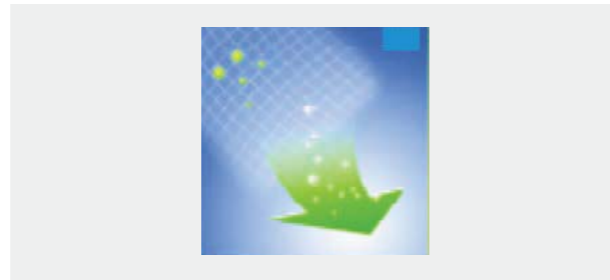


4 PRODUCT FEATURES

- The air handling unit panel inner and outer plate are color steel plate and galvanized sheet, between the plate is high density polyurethane foam. Patented tenon double pillar structure, making the unit has ultra strength and lower leakage;



- High efficiency low resistance nylon filter, lower power consumption, easy to clean, convenient to use, and also give plate type filter for optional;



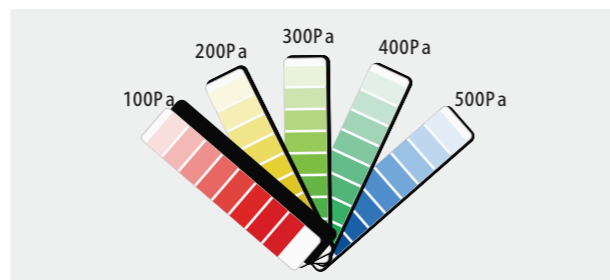
- Coil use copper tube and aluminum fins, copper tube pass the 12MPa water pressure expansion, it can fit any high pressure pipe and without any leakage, ensuring the smallest heat resistance and heat transfer efficiency;



- All the fans are selected by professional software ensuring the best working point. Based on the requirements of air flow, air pressure, lower the loss to the bottom, protection the air flow status lower the air ducts noise;



- The external excess pressure is stepless adjustable, and it has 3 kinds of ESP for choice, at the same time it has different air outlet direction and Rows for option.



5 COOLING PERFORMANCE

1 THE REFRIGERATING PERFORMANCE PARAMETERS OF THE TABLE - 4 R (RETURN)

Model QWWC QWLC	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KW C kPa	KLC kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KW C kg	KLC kg
010	1000	5.9	9.94	1.01	12.2	5.1	120	180	250	0.37	0.37	0.37	73	96
015	1500	8.6	13.58	1.48	20.6	8.5	120	180	250	0.37	0.37	0.37	80	98
020	2000	13.3	22.12	2.29	24.9	10.5	120	180	250	0.55	0.55	0.55	95	102
025	2500	15.9	23.66	2.73	42.0	17.4	120	180	250	0.55	0.55	0.55	100	114
030	3000	16.6	28.14	2.85	52.7	24.7	120	180	250	0.55	0.55	0.75	115	130
040	4000	22.4	37.52	3.85	9.9	47.9	150	200	300	0.75	1.1	1.1	125	163
050	5000	30.0	47.88	5.16	18.3	12.2	150	200	300	1.1	1.5	1.5	155	196
060	6000	35.5	58.1	6.10	30.3	13.7	150	200	300	1.1	1.5	1.5	167	202
070	7000	42.0	67.62	7.22	34.5	13.7	180	250	350	1.5	1.5	2.2	191	239
080	8000	48.7	76.86	8.37	38.6	20.0	180	250	350	2.2	2.2	3	260	279
090	9000	49.3	89.74	8.48	41.9	25.6	200	300	400	2.2	2.2	3	295	299
105	10500	59.3	104.02	10.20	65.3	28.1	200	300	400	2.2	3	3	315	333
120	12000	69.3	122.5	11.92	78.6	13.2	200	300	400	3	4	4	325	347
135	13500	82.7	144.9	14.22	26.2	17.7	300	400	500	3	4	5.5	383	410
150	15000	89.7	161.7	15.43	26.8	20.0	300	400	500	4	4	5.5	387	418
180	18000	115.5	202.58	19.86	30.7	24.5	300	400	500	4	5.5	7.5	446	466
210	21000	121.4	214.48	20.88	40.1	28.4	300	400	500	5.5	7.5	7.5	509	529
240	24000	142.8	252.42	24.56	40.9	27.6	300	400	500	7.5	7.5	11	619	632
270	27000	158.7	275.94	27.29	58.3	40.0	300	400	500	7.5	11	11	672	678
300	30000	195.5	342.58	33.62	58.3	47.4	300	400	500	11	11	11	702	715

Note:

1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 27/19.5°C;

2, Heating: water inlet temp. 60°C, air inlet temp. 21°C;

3, The pressure and the motor power are for the standard unit, if any change please contact with us;

4, All the above is for your reference, if any of the working conditions are changed please contact with us.

5 COOLING PERFORMANCE

2 THE REFRIGERATING PERFORMANCE PARAMETERS OF THE TABLE - 6 R (RETURN)

Model QWWC QWLC	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KW C	KLC	I	II	III	I	II	III	KW C	KLC
					kPa	kPa	Pa	Pa	Pa	kW	kW	kW	kg	kg
010	1000	8.2	12.4	1.41	27.3	11.6	120	180	250	0.37	0.37	0.37	80	116
015	1500	10.5	16.0	1.81	49.6	20.8	120	180	250	0.37	0.37	0.55	86	120
020	2000	15.1	23.0	2.60	57.5	26.7	120	180	250	0.55	0.55	0.55	105	127
025	2500	18.1	29.8	3.11	79	44.6	120	180	250	0.55	0.55	0.55	110	137
030	3000	21.6	34.7	3.71	15.5	62.4	120	180	250	0.55	0.75	0.75	146	159
040	4000	28.7	46.5	4.94	24.9	15.0	150	200	300	1.1	1.1	1.1	155	191
050	5000	35.9	56.6	6.17	44.6	25.7	150	200	300	1.5	1.5	1.5	185	228
060	6000	42.8	65.9	7.36	72.5	32.2	150	200	300	1.5	1.5	2.2	208	238
070	7000	49.4	77.2	8.50	82.5	32.0	180	250	350	1.5	2.2	2.2	251	280
080	8000	57.9	87.5	9.96	27.6	45.9	180	250	350	2.2	2.2	3	300	336
090	9000	64.6	101.7	11.11	29.9	63.5	200	300	400	2.2	3	3	330	349
105	10500	78.3	124.7	13.47	46.2	22.8	200	300	400	3	3	4	345	387
120	12000	88.5	141.1	15.22	55.3	33.5	200	300	400	3	4	4	351	394
135	13500	98.5	160.9	16.94	62.4	40.4	300	400	500	4	4	5.5	413	455
150	15000	107.7	176.7	18.52	64.5	46.2	300	400	500	4	5.5	5.5	429	477
180	18000	126.4	207.5	21.74	73.1	51.6	300	400	500	5.5	5.5	7.5	499	541
210	21000	150.8	247.5	25.93	28.3	21.2	300	400	500	5.5	7.5	7.5	612	624
240	24000	173.2	284.2	29.79	28.9	67.9	300	400	500	7.5	11	11	677	712
270	27000	194.5	319.4	33.45	40.9	29.3	300	400	500	7.5	11	11	735	805
300	30000	216.9	355.9	37.30	40.8	29.8	300	400	500	11	11	15	794	849

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 27/19.5°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 21°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

3 THE REFRIGERATING PERFORMANCE PARAMETERS OF THE TABLE -8R (RETURN)

Model QWWC QWLC	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KW C	KLC	I	II	III	I	II	III	KW C	KLC
					kPa	kPa	Pa	Pa	Pa	kW	kW	kW	kg	kg
030	3000	25.6	38.7	4.40	26.0	14.0	120	180	250	0.75	0.75	0.75	175	173
040	4000	33.9	51.4	5.83	41.0	27.2	150	200	300	1.1	1.1	1.1	185	204
050	5000	41.4	62.1	7.12	30.0	46.4	150	200	300	1.5	1.5	2.2	225	245
060	6000	49.4	76.3	8.50	35.9	56.4	150	200	300	1.5	1.5	2.2	237	258
070	7000	57.7	87.4	9.92	40.7	56.1	180	250	350	1.5	2.2	2.2	293	306
080	8000	65.4	101.0	11.25	45.3	24.5	180	250	350	2.2	2.2	3	335	377
090	9000	73.9	121.4	12.71	62.0	33.8	200	300	400	2.2	3	3	365	385
105	10500	86.6	142.2	14.89	41.4	38.2	200	300	400	3	3	4	375	404
120	12000	99	162.5	17.02	38.7	58.8	200	300	400	4	4	5.5	393	427
135	13500	112.8	183.6	19.40	30.5	69.9	300	400	500	4	5.5	5.5	425	484
150	15000	123.6	201.2	21.26	31.6	24.8	300	400	500	4	5.5	5.5	441	520
180	18000	146.1	237.5	25.12	35.9	27.3	300	400	500	5.5	7.5	7.5	511	601
210	21000	165.7	269.9	28.50	46.0	37.5	300	400	500	7.5	7.5	11	625	704
240	24000	199.5	324.9	34.31	47.0	36.0	300	400	500	7.5	11	11	690	777
270	27000	216.5	352.0	37.23	66.0	51.3	300	400	500	11	11	11	747	917
300	30000	220.2	391.4	37.87	66.0	52.1	300	400	500	11	11	15	807	968

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 27/19.5°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 21°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

5 COOLING PERFORMANCE

4 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 4 R (AIR)

Model QWWC QWLC	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KW C kPa	KLC kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KW C kg	KLC kg
010	1000	16.4	18.9	2.82	41.6	22.8	120	180	250	0.37	0.37	0.37	73	96
015	1500	21.9	26.1	3.77	66.7	38.9	120	180	250	0.37	0.37	0.37	80	98
020	2000	28.8	31.6	4.95	10.8	53.0	120	180	250	0.55	0.55	0.55	95	102
025	2500	34.9	41.5	6.00	15.1	75.0	120	180	250	0.55	0.55	0.55	100	114
030	3000	41.0	49.2	7.05	22.8	16.5	120	180	250	0.55	0.55	0.75	115	130
040	4000	48.9	61.5	8.41	38.7	25.4	150	200	300	0.75	1.1	1.1	125	163
050	5000	64.5	76.7	11.09	22.8	47.6	150	200	300	1.1	1.5	1.5	155	196
060	6000	76.4	92.6	13.14	27.0	55.5	150	200	300	1.1	1.5	1.5	167	202
070	7000	90.1	106.9	15.49	26.2	55.8	180	250	350	1.5	1.5	2.2	191	239
080	8000	104.1	121.4	17.90	37.2	25.6	180	250	350	2.2	2.2	3	260	279
090	9000	116.9	140.2	20.10	50.6	35.6	200	300	400	2.2	2.2	3	295	299
105	10500	141.7	172.0	24.37	36.7	42.3	200	300	400	2.2	3	3	315	333
120	12000	158.4	199.7	27.24	39.0	62.8	200	300	400	3	4	4	325	347
135	13500	175.1	225.3	30.11	69.9	69.9	300	400	500	3	4	5.5	383	410
150	15000	185.8	239.1	31.95	24.9	24.9	300	400	500	4	4	5.5	387	418
180	18000	210.8	262.3	36.25	26.2	26.2	300	400	500	4	5.5	7.5	446	466
210	21000	253.4	318.3	43.58	35.5	35.5	300	400	500	5.5	7.5	7.5	509	529
240	24000	294.9	366.9	50.71	34.3	34.3	300	400	500	7.5	7.5	11	619	632
270	27000	316.5	393.7	54.43	50.0	50.0	300	400	500	7.5	11	11	672	678
300	30000	344.8	428.9	59.29	50.5	50.5	300	400	500	11	11	11	702	715

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 35/28°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 7°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

5 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 6 R (AIR)

Model QWWC QWLC	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KW C kPa	KLC kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KW C kg	KLC kg
010	1000	19.1	22.3	3.28	10.9	13.6	120	180	250	0.37	0.37	0.37	80	116
015	1500	27.1	31.4	4.66	21.0	12.3	120	180	250	0.37	0.37	0.55	86	120
020	2000	35.7	41.6	6.14	23.4	16.6	120	180	250	0.55	0.55	0.55	105	127
025	2500	43.4	50.8	7.46	33.9	23.3	120	180	250	0.55	0.55	0.55	110	137
030	3000	50.2	58.9	8.63	51.3	35.8	120	180	250	0.55	0.75	0.75	146	159
040	4000	64.6	76.3	11.11	28.4	64.6	150	200	300	1.1	1.1	1.1	155	191
050	5000	79.9	92.0	13.74	55.9	34.8	150	200	300	1.5	1.5	1.5	185	228
060	6000	95.6	110.8	16.44	61.6	40.4	150	200	300	1.5	1.5	2.2	208	238
070	7000	110.8	129.8	19.05	59.3	40.4	180	250	350	1.5	2.2	2.2	251	280
080	8000	126.1	146.3	21.69	65.3	57.9	180	250	350	2.2	2.2	3	300	336
090	9000	134.8	168.5	23.18	82.3	28.5	200	300	400	2.2	3	3	330	349
105	10500	164.1	204.9	28.22	85.6	41.1	200	300	400	3	3	4	345	387
120	12000	186.3	232.8	32.04	92.7	46.6	200	300	400	3	4	4	351	394
135	13500	208.6	266.1	35.87	50.1	50.1	300	400	500	4	4	5.5	413	455
150	15000	225.3	287.3	38.74	57.5	57.5	300	400	500	4	5.5	5.5	429	477
180	18000	269.1	336.7	46.28	52.0	52.0	300	400	500	5.5	5.5	7.5	499	541
210	21000	312.1	390.5	53.67	70.5	70.5	300	400	500	7.5	7.5	7.5	612	624
240	24000	364.2	455.7	62.63	70.4	70.4	300	400	500	7.5	11	11	677	712
270	27000	399.8	500.4	68.75	97.3	97.3	300	400	500	7.5	11	11	735	805
300	30000	430.2	538.4	73.98	90.9	90.9	300	400	500	11	11	15	794	849

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 35/28°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 7°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

5 COOLING PERFORMANCE

6 HEATING PERFORMANCE

6 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 8 R (AIR)

Model QWWC QWLC	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KW C	KLC	I	II	III	I	II	III	KW C	KLC
					kPa	kPa	Pa	Pa	Pa	kW	kW	kW	kg	kg
030	3000	55.1	63.9	9.48	26.0	57.0	120	180	250	0.75	0.75	0.75	175	173
040	4000	70.5	82.6	12.12	48.7	33.9	150	200	300	1.1	1.1	1.1	185	204
050	5000	86.1	100.2	14.81	40.5	57.2	150	200	300	1.5	1.5	2.2	225	245
060	6000	107.4	127.7	18.47	45.3	68.6	150	200	300	1.5	1.5	2.2	237	258
070	7000	120.5	139.5	20.72	43.5	68.8	180	250	350	1.5	2.2	2.2	293	306
080	8000	136.7	159.3	23.51	60.9	42.2	180	250	350	2.2	2.2	3	335	377
090	9000	153.6	191.8	26.41	69.5	57.9	200	300	400	2.2	3	3	365	385
105	10500	180.9	226.1	31.11	80.2	65.5	200	300	400	3	3	4	375	404
120	12000	205.2	256.5	35.29	85.4	61.2	200	300	400	4	4	5.5	393	427
135	13500	236.3	301.4	40.64	36.4	36.4	300	400	500	4	5.5	5.5	425	484
150	15000	249.3	318.0	42.87	42.5	42.5	300	400	500	4	5.5	5.5	441	520
180	18000	298.4	374.0	51.32	38.5	38.5	300	400	500	5.5	7.5	7.5	511	601
210	21000	345.8	433.0	59.47	51.5	51.5	300	400	500	7.5	7.5	11	625	704
240	24000	396.6	497.0	68.20	49.4	49.4	300	400	500	7.5	11	11	690	777
270	27000	443.1	555.0	76.20	70.4	70.4	300	400	500	11	11	11	747	917
300	30000	477.6	599.0	82.13	71.2	71.2	300	400	500	11	11	15	807	968

Note:

- 1, Cooling: water inlet/outlet temp. 7/12°C, air inlet/outlet temp. DB/WB 35/28°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 7°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

Model QWWC QWLC	Air flow m ³ /h	Return air condition						Fresh air condition					
		1R heating coil			2R heating coil			1R heating coil			2R heating coil		
		Rated Heating Capacity	Water flow	Water Resistance	Rated Heating Capacity	Water flow	Water Resistance	Rated Heating Capacity	Water flow	Water Resistance	Rated Heating Capacity	Water flow	Water Resistance
		kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kg
010	1000	4.0	0.34	0.3	6.3	0.54	0.3	5.6	0.48	1.2	8.0	0.69	0.6
015	1500	5.8	0.50	0.50	10.7	0.92	0.6	8.7	0.75	2	13.6	1.17	1.4
020	2000	8.7	0.75	0.8	14.6	1.26	0.9	11.6	1.00	3.2	19.4	1.67	2.3
025	2500	9.7	0.83	1.00	17.5	1.50	1.2	13.6	1.17	4.3	21.3	1.83	2.7
030	3000	12.7	1.09	1.80	22.5	1.93	2.9	16.7	1.44	7.1	27.4	2.36	4.9
040	4000	16.7	1.44	3.20	27.4	2.36	3.1	21.6	1.86	10.7	35.3	3.04	8
050	5000	21.6	1.86	6.30	35.3	3.04	4.7	28.4	2.44	20.6	45.1	3.88	12.7
060	6000	25.5	2.19	7.10	43.1	3.71	7.4	33.3	2.86	20.9	52.9	4.55	10.4
070	7000	29.4	2.53	8.30	51.0	4.39	8.7	38.2	3.28	21.5	62.7	5.39	14.9
080	8000	33.3	2.86	8.7	56.8	4.88	9.2	44.1	3.79	31.6	70.6	6.07	19.4
090	9000	38.2	3.28	14.20	65.7	5.65	16.3	50	4.30	43.9	79.4	6.83	24.7
105	10500	46.1	3.96	21.10	75.5	6.49	17.8	56.8	4.88	16.3	95.1	8.18	37.5
120	12000	51.9	4.46	22.70	86.2	7.41	18.9	65.7	5.65	52.2	107.8	9.27	42.8
135	13500	51.9	4.46	18.00	97.0	8.34	13.9	74.7	6.42	35	123.2	10.59	36.9
150	15000	64.0	5.50	23.70	106.7	9.17	21.5	77.6	6.67	35	128	11.01	28.7
180	18000	76.6	6.59	32.40	124.2	10.68	20.7	93.1	8.01	43.9	154.2	13.26	38.2
210	21000	88.3	7.59	34.40	144.5	12.42	25.2	105.7	9.09	19.1	177.5	15.26	40.3
240	24000	95.1	8.18	3.70	172.7	14.85	21.4	124.2	10.68	9.4	206.6	17.76	25.9
270	27000	111.6	9.60	7.30	200.8	17.27	49.5	134.8	11.59	9.7	228.9	19.68	31.9
300	30000	131.0	11.26	56.50	213.4	18.35	30.7	154.2	13.26	57.1	255.1	21.93	46.5

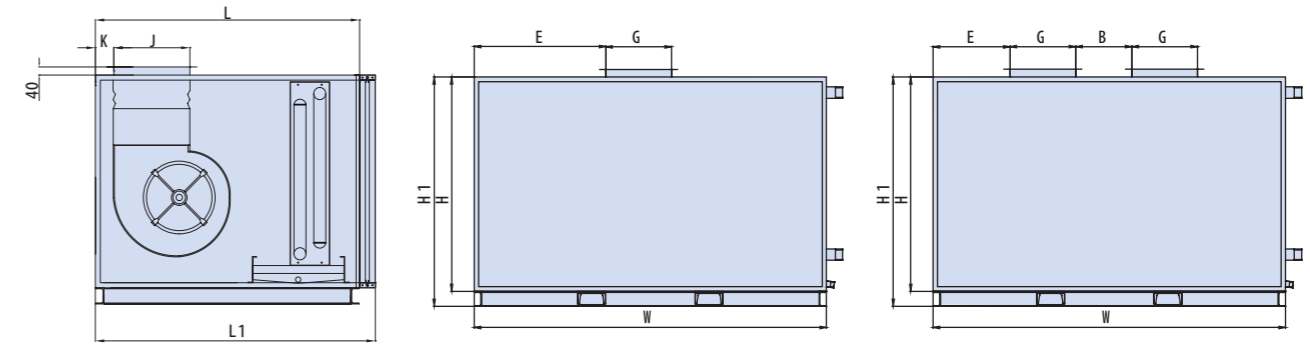
Note:

- 1, Heating: water inlet/outlet temp. 60/50°C, fresh air inlet tem. 7°C, air return temp. 21°C;
- 2, All the above is for your reference, if any working condition changes, please contact with us.

7 STANDARD MODEL PIPE SIZE

Model QWWC QWLC	Return air					Fresh air					Dry return air		Condenser Pipe DN
	4R	6R	8R	1R Heating	2R Heating	4R	6R	8R	1R Heating	2R Heating	4R	6R	
	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	
010	40	40	-	32	40	40	40	-	32	40	32	32	25
015	40	40	-	32	40	40	40	-	32	40	32	32	25
020	40	40	-	32	40	40	40	-	32	40	32	32	25
025	40	40	-	32	40	40	40	-	32	40	32	32	25
030	40	40	40	32	40	40	40	40	32	40	32	32	25
040	40	40	40	32	40	40	40	50	32	40	32	32	25
050	40	40	40	32	40	40	50	50	32	40	32	32	25
060	40	40	40	32	40	50	50	50	32	40	32	32	25
070	40	40	40	32	40	50	50	65	32	40	32	32	25
080	40	40	50	32	40	50	65	65	32	40	32	32	25
090	40	50	50	32	40	50	65	65	32	40	32	32	25
105	50	50	50	32	40	65	65	65	32	40	32	32	25
120	50	50	50	32	40	65	65	65	32	40	-	-	25
135	50	50	65	32	40	65	80	80	32	40	-	-	32
150	50	50	65	32	40	65	80	80	32	40	-	-	32
180	50	65	65	32	40	80	80	80	32	40	-	-	32
210	65	65	65	32	40	80	80	80	32	40	-	-	32
240	65	65	65	32	40	80	80	80	32	40	-	-	32
270	65	65	80	32	40	80	80	80	32	40	-	-	32
300	65	65	80	32	40	80	80	80	32	40	-	-	32

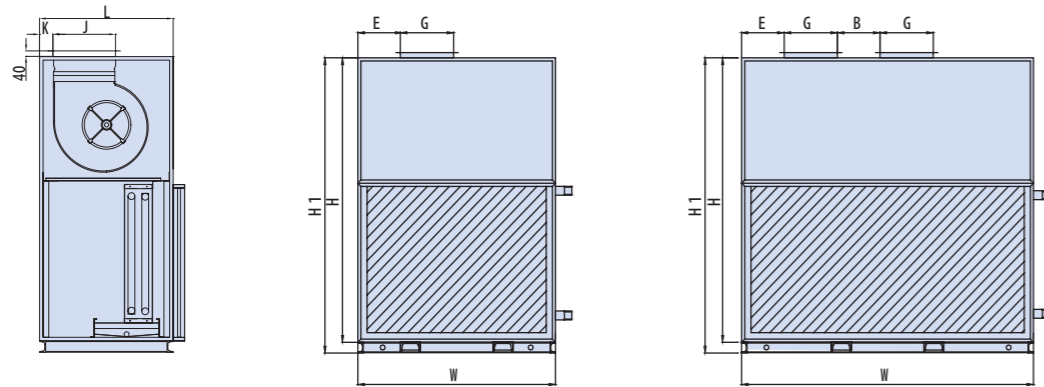
8 STANDARD MODEL DIMENSION



QWWC	L	W	H	L1	H1	G	J	B	K	E	Air inlet flange(L*W*H*qty)		Supply air flange(L*W*H*qty)					
010	940	860	490	990	570	259	228	-	85	197	810	X	440	X1	259	X	228	X1
015	940	860	490	990	570	259	228	-	85	197	810	X	440	X1	259	X	228	X1
020	940	940	520	990	600	259	228	-	85	257	890	X	470	X1	259	X	228	X1
025	940	940	520	990	600	259	228	-	85	257	890	X	470	X1	259	X	228	X1
030	1100	1060	520	1150	600	298	262	-	110	300	1010	X	470	X1	298	X	262	X1
040	1100	1210	570	1150	650	331	289	-	110	392	1160	X	520	X1	331	X	289	X1
050	1100	1420	570	1150	650	232	262	184	135	290	1370	X	520	X1	232	X	262	X2
060	1100	1640	600	1150	680	298	262	244	125	250	1590	X	550	X1	298	X	262	X2
070	1100	1700	620	1150	700	331	289	264	125	250	1650	X	570	X1	331	X	289	X2
080	1100	1760	670	1150	750	331	289	264	125	281	1710	X	620	X1	331	X	289	X2
090	1100	1800	720	1150	800	309	341	244	100	360	1750	X	670	X1	309	X	341	X2
105	1230	2060	720	1280	800	309	341	244	100	600	2010	X	670	X1	309	X	341	X2
120	1230	2200	800	1280	880	395	341	324	115	400	2150	X	750	X1	395	X	341	X2
135	1320	2150	970	1370	1050	373	404	294	100	430	2100	X	920	X1	373	X	404	X2
150	1320	2150	1050	1370	1130	373	404	294	100	430	2100	X	1000	X1	373	X	404	X2
180	1470	2250	1150	1520	1230	430	478	343	100	350	2200	X	1100	X1	430	X	478	X2
210	1470	2450	1220	1520	1300	430	478	343	100	460	2400	X	1170	X1	430	X	478	X2
240	1470	2450	1350	1520	1430	430	478	343	100	460	2400	X	1300	X1	430	X	478	X2
270	1470	2750	1350	1520	1430	557	478	458	85	375	2700	X	1300	X1	557	X	478	X2
300	1470	2750	1470	1520	1550	557	478	458	100	330	2700	X	1420	X1	557	X	478	X2

MODULAR AIR HANDLING UNIT(QWZE_DH/DV)

9 STANDARD MODEL DIMENSIONS

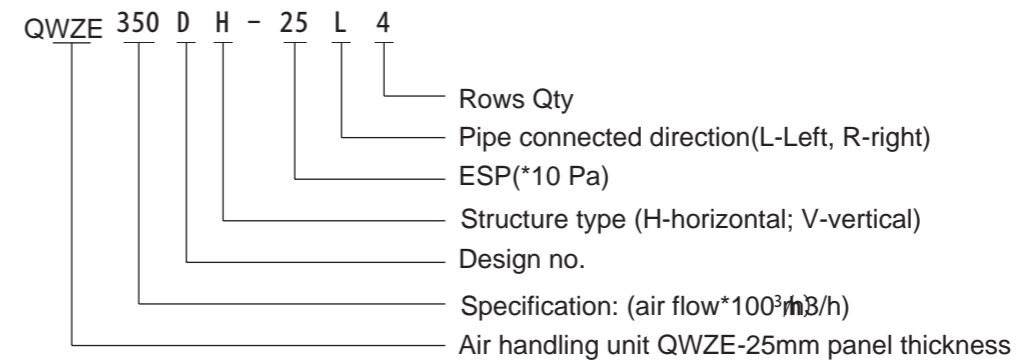


QWLC	L	W	H	L1	H1	G	J	B	K	E	Air inlet flange(L*W*Qty)			Supply air flange(L*W*Qty)				
010	625	800	1100	675	1180	-	-	-	150	-	760	X	510	X1	-	-	-	
015	625	800	1100	675	1180	-	-	-	150	-	760	X	510	X1	-	-	-	
020	625	800	1200	675	1280	-	-	-	150	-	760	X	560	X1	-	-	-	
025	625	800	1200	675	1280	-	-	-	150	-	760	X	560	X1	-	-	-	
030	625	940	1260	675	1340	298	262	-	125	240	900	X	575	X1	298	X	262	X1
040	625	1095	1260	675	1340	331	289	-	100	310	1055	X	575	X1	331	X	289	X1
050	675	1250	1410	725	1490	309	341	-	112	437	1210	X	575	X1	309	X	341	X1
060	675	1410	1570	725	1650	395	341	-	112	505.5	1370	X	675	X1	395	X	341	X1
070	780	1410	1670	830	1750	373	404	-	85	517	1370	X	775	X1	373	X	404	X1
080	780	1570	1670	830	1750	373	404	-	85	596.5	1530	X	775	X1	373	X	404	X1
090	940	1730	1730	990	1810	430	478	-	105	648	1690	X	775	X1	430	X	478	X1
105	940	1730	1830	990	1910	430	478	-	105	648	1690	X	835	X1	430	X	478	X1
120	940	1890	1830	990	1910	557	478	-	105	664.5	1850	X	905	X1	557	X	478	X1
135	940	2040	2000	990	2080	373	404	294	165	320	2000	X	1080	X1	373	X	404	X2
150	940	2040	2000	990	2080	373	404	294	165	320	2000	X	1080	X1	373	X	404	X2
180	940	2200	2200	990	2280	430	478	343	105	339	2160	X	1230	X1	430	X	478	X2
210	940	2355	2200	990	2280	430	478	343	105	464	2315	X	1230	X1	430	X	478	X2
240	1100	2355	2520	1150	2600	430	478	343	185	374	2315	X	1460	X1	430	X	478	X2
270	1100	2670	2520	1150	2600	557	478	458	185	330	2630	X	1460	X1	557	X	478	X2
300	1100	2670	2520	1150	2600	557	478	458	185	280	2630	X	1535	X1	557	X	478	X2

1 PRODUCT OVERVIEW

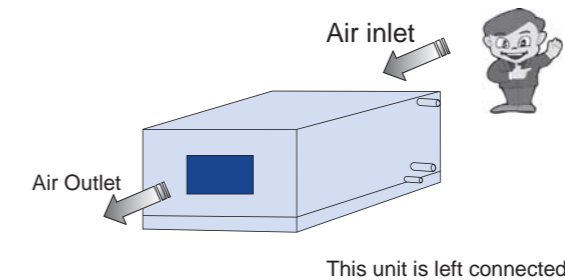
QWZE_DH/DV series air handling unit is a new large air flow unit which is based on KWC/KLC

2 MODEL SPECIFICATION



3 PRODUCT FEATURES

Face to the air inlet direction (the air is coming from the back), the pipes and service door on left are left connected, on right are right connected.



4 COOLING PERFORMANCE

1 THE REFRIGERATING PERFORMANCE PARAMETERS OF THE TABLE - 4 R (RETURN)

Model QWZE_DH QWZE_DV	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KZE_DH kPa	KZE_DV kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KZE_DH kg	KZE_DV kg
350	35000	223.7	351.0	38.41	79.54	79.54	300	400	500	11	11	15	1000	1050
400	40000	239.0	390.6	40.52	24.60	24.60	300	400	500	11	15	15	1100	1150
450	45000	274.4	441.5	47.15	35.74	35.74	300	400	500	15	15	18.5	1200	1250
500	50000	306.0	492.4	52.50	33.56	33.56	300	400	500	15	18.5	18.5	1300	1350

2 THE REFRIGERATING PERFORMANCE PARAMETERS OF THE TABLE - 6R (RETURN)

Model QWZE_DH QWZE_DV	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KZE_DH kPa	KZE_DV kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KZE_DH kg	KZE_DV kg
350	35000	288.2	403.4	49.50	69.17	69.17	300	400	500	11	15	15	1050	1100
400	40000	326.1	461.3	56.10	73.56	73.56	300	400	500	11	15	15	1150	1200
450	45000	355.8	519.9	61.10	85.79	85.79	300	400	500	15	15	18.5	1250	1300
500	50000	397.1	579.1	68.20	83.86	83.86	300	400	500	18.5	18.5	22	1300	1400

3 THE REFRIGERATING PERFORMANCE PARAMETERS OF THE TABLE - 8R (RETURN)

Model QWZE_DH QWZE_DV	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KZE_DH kPa	KZE_DV kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KZE_DH kg	KZE_DV kg
350	35000	299.5	423.9	51.52	38.78	38.78	300	400	500	11	15	15	1100	1150
400	40000	342.9	484.7	58.82	43.28	43.28	300	400	500	15	15	15	1200	1250
450	45000	387.9	546.1	66.50	59.54	59.54	300	400	500	15	18.5	18.5	1300	1350
500	50000	432.7	607.8	74.30	58.30	58.30	300	400	500	18.5	18.5	22	1400	1450

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 27/19.5°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 21°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

4 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 4 R (AIR)

Model QWZE_DH QWZE_DV	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KZE_DH kPa	KZE_DV kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KZE_DH kg	KZE_DV kg
350	35000	471.9	484.5	81.10	98.03	98.03	300	400	500	11	11	15	1000	1050
400	40000	522.9	546.5	89.91	45.99	45.99	300	400	500	11	15	15	1100	1150
450	45000	592.7	615.9	102.03	63.86	63.86	300	400	500	15	15	18.5	1200	1250
500	50000	656.0	687.0	112.10	59.69	59.69	300	400	500	15	18.5	18.5	1300	1350

5 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 6 R (AIR)

Model QWZE_DH QWZE_DV	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KZE_DH kPa	KZE_DV kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KZE_DH kg	KZE_DV kg
350	35000	572.5	559.9	98.32	134.19	134.19	300	400	500	11	15	15	1050	1100
400	40000	647.3	639.9	111.09	142.67	142.67	300	400	500	11	15	15	1150	1200
450	45000	739.5	719.8	127.20	208.97	208.97	300	400	500	15	15	18.5	1250	1300
500	50000	824.5	801.5	141.00	201.44	201.44	300	400	500	18.5	18.5	22	1300	1400

6 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 8 R (AIR)

Model QWZE_DH QWZE_DV	Air flow m ³ /h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow m ³ /h	Water resistance		ESP			Motor power			Unit weight	
					KZE_DH kPa	KZE_DV kPa	I Pa	II Pa	III Pa	I kW	II kW	III kW	KZE_DH kg	KZE_DV kg
350	35000	610.6	620.0	104.90	139.89	139.89	300	400	500	11	15	15	1100	1150
400	40000	698.2	692.0	119.90	156.58	156.58	300	400	500	15	15	15	1200	1250
450	45000	786.7	778.5	135.22	215.14	215.14	300	400	500	15	18.5	18.5	1300	1350
500	50000	873.8	866.5	150.32	209.43	209.43	300	400	500	18.5	18.5	22	1400	1450

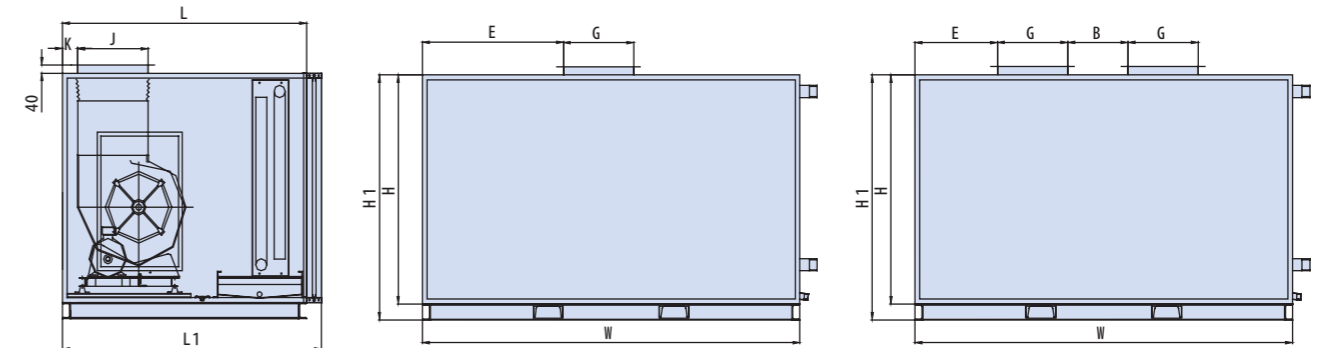
Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 38/28°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 21°C;
- 3, The pressure and the motor power are for the standard unit, if any change please contact with us;
- 4, All the above is for your reference, if any of the working conditions are changed please contact with us.

5 HEATING PERFORMANCE

Model	Air flow	Return air condition						Fresh air condition					
		1R heating coil			2R heating coil								
		Rated heating Capacity	Water flow	Water Resistance	Rated heating Capacity	Water flow	Water Resistance	Rated heating Capacity	Water flow	Water Resistance	Rated heating Capacity	Water flow	Water Resistance
QWZE_DH QWZE_DV	m ³ /h	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
350	35000	150.0	12.90	13.0	276.8	23.80	80.5	194.0	16.68	27.5	301.3	25.91	15.6
400	40000	172.3	14.82	14.7	316.8	27.24	89.9	222.4	19.12	32.1	345.1	29.67	17.4
450	45000	195.9	16.84	20.2	333.0	28.63	15.6	251.8	21.65	43.7	390.7	33.59	23.7
500	50000	218.8	18.81	19.7	371.8	31.97	15.2	281.2	24.18	42.8	436.3	37.52	23.1

Note:
1, Heating: water inlet/outlet temp. 60/50°C, fresh air inlet tem. 7°C, air return temp. 21°C;
2, All the above is for your reference, if any working condition changes, please contact with us.



6 STANDARD UNIT NOZZLE SIZE

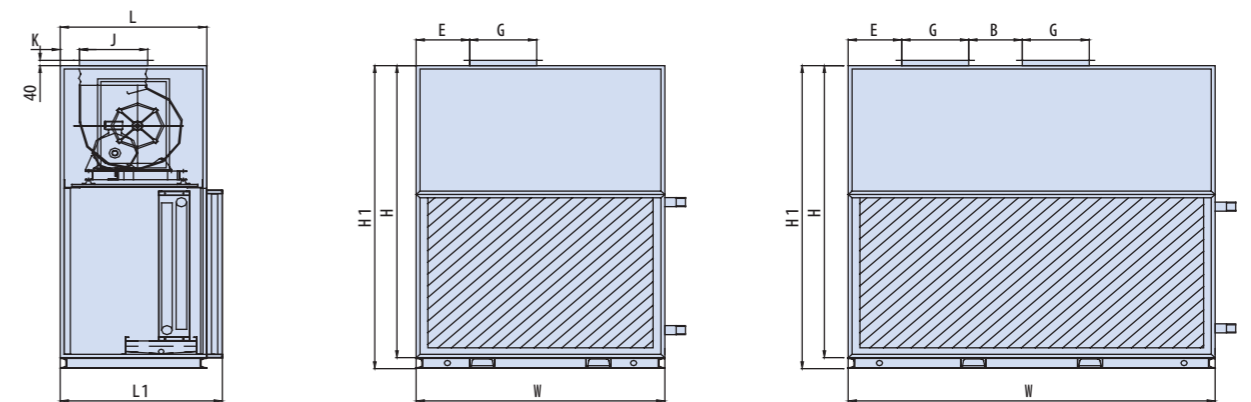
Model	Return air condition					Fresh air condition				
	4R	6R	8R	1R heating coil	2R heating coil	4R	6R	8R	1R heating coil	2R heating coil
	QWZE_DH QWZE_DV	DN	DN	DN	DN	DN	DN	DN	DN	DN
350	80*2	80*2	80*2	40*2	40*2	80*2	80*2	80*2	40*2	40*2
400	80*2	80*2	80*2	40*2	40*2	80*2	80*2	80*2	40*2	40*2
450	80*2	80*2	80*2	40*2	40*2	80*2	100*2	100*2	40*2	40*2
500	80*2	80*2	80*2	40*2	40*2	80*2	100*2	100*2	40*2	40*2

Note :DN*2 means heat exchanger is up and bottom structure, water inlet/outlet are 2 sets each.

7 STANDARD MODEL DIMENSIONS

QWZE_DH	L	W	H	L1	H1	G	J	B	K	E	Air inlet flange L*W*Qty				Air outlet flange L*W*Qty			
350	1900	2950	1650	1955	1750	569	569	450	100	450	2900	X	1600	X1	569	X	569	X2
400	2000	3050	1750	2055	1850	638	638	500	100	370	3000	X	1700	X1	638	X	638	X2
450	2000	3350	1750	2055	1850	638	638	500	100	550	3300	X	1700	X1	638	X	638	X2
500	2000	3350	1950	2055	2050	638	638	500	100	550	3300	X	1900	X1	638	X	638	X2

8 STANDARD MODEL DIMENSIONS



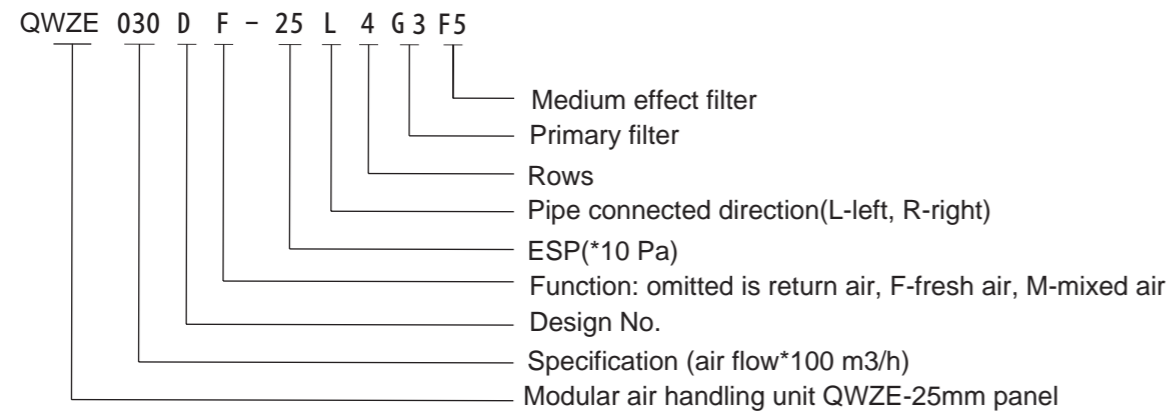
QWZE_DV	L	W	H	L1	H1	G	J	B	K	E	Air inlet flange L*W*Qty				Air outlet flange L*W*Qty			
350	1100	2950	2750	1155	2850	569	569	450	100	450	2900	X	1600	X1	569	X	569	X2
400	1200	3050	2900	1255	3000	638	638	500	100	370	3000	X	1700	X1	638	X	638	X2
450	1200	3350	2900	1255	3000	638	638	500	100	550	3300	X	1700	X1	638	X	638	X2
500	1200	3350	3100	1255	3200	638	638	500	100	550	3300	X	1900	X1	638	X	638	X2

MODULAR AIR HANDLING UNIT(QWZE)

1 PRODUCT

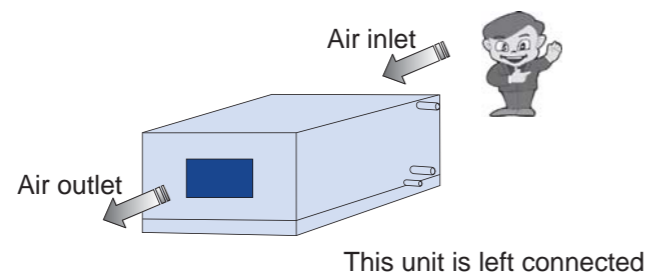
QWZE series modular air handling unit is a new style based on horizontal air handling unit. The main section is mixed, primary(medium effect) filter, cooling coil, fan sections, and also can supply heating, humidify section.

2 MODEL SPECIFICATION



3 PRODUCT FEATURES

Face to the air inlet direction (the air is coming from the back), the pipes and service door on left are left connected, on right are right connected.



4 COOLING PERFORMANCE

1 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 4 R (RETURN)

Model	Airflow m ³ /h	Rated cooling capacity kW	Rated heating capacity kW	Water flow m ³ /h	Water resistance kPa	Weight	
						Primary filter kg	Primary and medium effect kg
QWZE							
030	3000	18.6	31.8	3.2	31.7	126.5	138.0
040	4000	25.6	40.3	4.4	53.7	137.5	150.0
050	5000	30.0	53.5	5.4	56.4	170.5	186.0
060	6000	38.5	64.6	6.6	75.2	183.7	200.4
070	7000	42.0	74.1	7.4	25.1	210.1	229.2
080	8000	48.7	85.1	8.6	35.4	286.0	312.0
090	9000	56.3	95.8	9.4	33.8	324.5	354.0
105	10500	66.8	112.6	11.5	58.0	346.5	378.0
120	12000	74.7	127.3	12.8	35.2	357.5	390.0
135	13500	82.7	145.9	14.9	52.2	421.3	459.6
150	15000	96.9	162.6	16.6	51.5	425.7	464.4
180	18000	115.5	196.1	20.2	72.8	490.6	535.2
210	21000	131.6	224.0	22.6	28.6	559.9	610.8
240	24000	142.8	253.9	25.5	30.0	680.9	742.8
270	27000	172.2	290.5	29.6	44.3	739.2	806.4
300	30000	195.5	321.5	32.6	45.2	772.2	842.4

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 27/19.5°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 15°C;
- 3, All the above is for your reference, if any of the working conditions are changed please contact with us.

4 COOLING PERFORMANCE

2 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 6R (RETURN)

Model	Airflow	Rated cooling capacity	Rated heating capacity	Water flow	Water resistance	Weight	
						Primary filter	Primary and medium effect
QWZE	m ³ /h	kW	kW	m ³ /h	kPa	kg	kg
030	3000	24.2	37.7	4.2	78.1	160.6	175.2
040	4000	30.6	49.1	5.3	15.8	170.5	186.0
050	5000	37.8	61.0	6.5	16.7	203.5	222.0
060	6000	46.1	73.7	7.9	22.3	228.8	249.6
070	7000	54.6	86.6	9.4	24.1	276.1	301.2
080	8000	62.8	99.3	10.8	33.7	330.0	360.0
090	9000	71.0	111.9	11.9	34.8	363.0	396.0
105	10500	83.8	131.2	14.4	58.4	379.5	414.0
120	12000	88.5	148.0	16.0	25.3	386.1	421.2
135	13500	107.4	168.6	18.4	37.0	454.3	495.6
150	15000	119.7	187.7	20.6	36.5	471.9	514.8
180	18000	145.0	226.1	24.9	51.5	548.9	598.8
210	21000	170.7	264.7	29.3	68.3	673.2	734.4
240	24000	193.2	301.0	33.2	72.0	744.7	812.4
270	27000	216.1	338.0	37.1	44.7	808.5	882.0
300	30000	239.0	374.6	41.0	45.9	873.4	952.8

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 27/19.5°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 15°C;
- 3, All the above is for your reference, if any of the working conditions are changed please contact with us.

3 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 4R (AIR)

Model	Airflow	Rated cooling capacity	Rated heating capacity	Water flow	Water resistance	Weight	
						Primary filter	Primary and medium effect
QWZE	m ³ /h	kW	kW	m ³ /h	kPa	kg	kg
030	3000	41.0	38.7	6.6	16.7	126.5	138.0
040	4000	53.0	52.4	9.1	28.4	137.5	150.0
050	5000	64.5	65.0	11.2	29.9	170.5	186.0
060	6000	76.4	78.5	13.7	40.0	183.7	200.4
070	7000	90.1	92.4	16.2	43.4	210.1	229.2
080	8000	104.1	105.8	18.7	60.8	286.0	312.0
090	9000	116.9	119.1	21.1	69.9	324.5	354.0
105	10500	141.7	136.8	23.7	30.7	346.5	378.0
120	12000	158.4	157.5	27.6	44.8	357.5	390.0
135	13500	186.8	179.9	32.0	66.4	421.3	459.6
150	15000	208.4	200.4	35.8	65.4	425.7	464.4
180	18000	243.0	240.7	41.7	33.6	490.6	535.2
210	21000	288.4	282.9	49.5	44.2	559.9	610.8
240	24000	327.8	322.3	56.3	45.0	680.9	742.8
270	27000	379.1	367.2	65.1	65.8	739.2	806.4
300	30000	413.8	403.9	71.0	69.8	772.2	842.4

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 35/28°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 7°C;
- 3, All the above is for your reference, if any of the working conditions are changed please contact with us.

4 COOLING PERFORMANCE

4 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 6R (AIR)

Model	Airflow	Rated cooling capacity	Rated heating capacity	Water flow	Water resistance	Weight	
						Primary filter	Primary and medium effect
QWZE	m ³ /h	kW	kW	m ³ /h	kPa	kg	kg
030	3000	50.2	45.3	8.6	41.0	160.6	175.2
040	4000	64.6	60.8	11.7	67.5	170.5	186.0
050	5000	84.2	75.6	14.4	71.4	203.5	222.0
060	6000	95.6	89.9	16.8	27.9	228.8	249.6
070	7000	110.8	105.5	19.9	30.2	276.1	301.2
080	8000	133.5	120.7	22.9	42.2	330.0	360.0
090	9000	150.6	135.9	25.9	48.4	363.0	396.0
105	10500	177.6	159.1	30.5	72.7	379.5	414.0
120	12000	200.2	180.9	34.3	44.5	386.1	421.2
135	13500	230.2	205.4	39.5	64.8	454.3	495.6
150	15000	256.4	228.5	44.0	63.7	471.9	514.8
180	18000	309.0	276.7	53.0	78.0	548.9	598.8
210	21000	355.9	321.6	61.1	43.2	673.2	734.4
240	24000	405.3	366.9	69.6	44.2	744.7	812.4
270	27000	464.6	415.8	79.7	63.5	808.5	882.0
300	30000	510.2	459.3	87.5	68.2	873.4	952.8

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 35/28°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 7°C;
- 3, All the above is for your reference, if any of the working conditions are changed please contact with us.

5 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 4R (30% FRESH AIR)

Model	Airflow	Rated cooling capacity	Rated heating capacity	Water flow	Water resistance	Weight	
						Primary filter	Primary and medium effect
QWZE	m ³ /h	kW	kW	m ³ /h	kPa	kg	kg
030	3000	25.5	34.7	4.4	56.9	126.5	138.0
040	4000	31.4	44.5	5.4	11.0	137.5	150.0
050	5000	38.7	55.1	6.6	11.5	170.5	186.0
060	6000	47.5	66.9	8.1	15.6	183.7	200.4
070	7000	56.5	79.0	9.7	17.1	210.1	229.2
080	8000	65.4	90.7	11.2	24.2	286.0	312.0
090	9000	74.0	102.2	12.7	27.8	324.5	354.0
105	10500	87.9	120.2	15.1	42.5	346.5	378.0
120	12000	102.1	138.5	17.5	61.7	357.5	390.0
135	13500	112.4	154.5	19.3	26.7	421.3	459.6
150	15000	125.5	172.2	21.5	26.4	425.7	464.4
180	18000	152.5	207.7	26.2	37.4	490.6	535.2
210	21000	180.2	243.7	30.9	50.0	559.9	610.8
240	24000	203.3	276.3	34.9	52.5	680.9	742.8
270	27000	244.0	315.2	40.3	76.9	739.2	806.4
300	30000	259.5	348.9	44.5	78.6	772.2	842.4

Note:

- 1, Cooling: water inlet/outlet temp.7/12°C, air inlet/outlet temp. DB/WB 29.4/22.4°C;
- 2, Heating: water inlet temp. 60°C, air inlet temp. 12.6°C;
- 3, All the above is for your reference, if any of the working conditions are changed please contact with us.

4 COOLING PERFORMANCE

5 HEATING PERFORMANCE

6 REFRIGERATION PERFORMANCE PARAMETERS OF THE TABLE - 6R (30% FRESH AIR)

Model	Air flow	Rated cooling Capacity	Rated heating Capacity	Water flow	Water Resistance	Weight	
						Primary filter	Primary and medium
QWZE	m ³ /h	kW	kW	m ³ /h	kPa	kg	kg
030	3000	30.5	39.3	5.2	16.6	160.6	175.2
040	4000	41.8	53.0	7.2	27.8	170.5	186.0
050	5000	51.7	65.9	8.9	29.3	203.5	222.0
060	6000	62.8	79.5	10.8	38.9	228.8	249.6
070	7000	74.2	93.3	12.7	41.9	276.1	301.2
080	8000	85.3	106.8	14.7	58.7	330.0	360.0
090	9000	96.2	120.3	16.5	67.1	363.0	396.0
105	10500	109.1	138.7	18.7	30.2	379.5	414.0
120	12000	126.5	159.4	21.7	43.8	386.1	421.2
135	13500	145.5	181.2	24.9	63.7	454.3	495.6
150	15000	162.2	201.6	27.8	62.7	471.9	514.8
180	18000	191.2	240.2	32.8	37.8	548.9	598.8
210	21000	225.0	281.1	38.6	50.1	673.2	734.4
240	24000	254.8	319.7	43.7	52.7	744.7	812.4
270	27000	292.2	362.8	50.1	76.4	808.5	882.0
300	30000	323.3	402.2	55.4	78.3	873.4	952.8

Note:
 1, Cooling: water inlet/outlet temp. 7/12°C, air inlet/outlet temp. DB/WB 29.4/22.4°C;
 2, Heating: water inlet temp. 60°C, air inlet temp. 12.6°C;
 3, All the above is for the 30% fresh air, if the working condition, water inlet/outlet temp. and other data changed, please contact with us.

Model	Air flow	Return air condition						Fresh air condition					
		1R heating coil			2R heating coil			1R heating coil			2R heating coil		
		Rated Heating Capacity	Water flow	Water Resistance	Rated Heating Capacity	Water flow	Water Resistance	Rated Heating Capacity	Water flow	Water Resistance	Rated Heating Capacity	Water flow	Water Resistance
QWZE	m ³ /h	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kg
010	1000	4.0	0.34	0.3	6.3	0.54	0.3	5.6	0.48	1.2	8.0	0.69	0.6
015	1500	5.8	0.50	0.50	10.7	0.92	0.6	8.7	0.75	2	13.6	1.17	1.4
020	2000	8.7	0.75	0.8	14.6	1.26	0.9	11.6	1.00	3.2	19.4	1.67	2.3
025	2500	9.7	0.83	1.00	17.5	1.50	1.2	13.6	1.17	4.3	21.3	1.83	2.7
030	3000	12.7	1.09	1.80	22.5	1.93	2.9	16.7	1.44	7.1	27.4	2.36	4.9
040	4000	16.7	1.44	3.20	27.4	2.36	3.1	21.6	1.86	10.7	35.3	3.04	8
050	5000	21.6	1.86	6.30	35.3	3.04	4.7	28.4	2.44	20.6	45.1	3.88	12.7
060	6000	25.5	2.19	7.10	43.1	3.71	7.4	33.3	2.86	20.9	52.9	4.55	10.4
070	7000	29.4	2.53	8.30	51.0	4.39	8.7	38.2	3.28	21.5	62.7	5.39	14.9
080	8000	33.3	2.86	8.7	56.8	4.88	9.2	44.1	3.79	31.6	70.6	6.07	19.4
090	9000	38.2	3.28	14.20	65.7	5.65	16.3	50	4.30	43.9	79.4	6.83	24.7
105	10500	46.1	3.96	21.10	75.5	6.49	17.8	56.8	4.88	16.3	95.1	8.18	37.5
120	12000	51.9	4.46	22.70	86.2	7.41	18.9	65.7	5.65	52.2	107.8	9.27	42.8
135	13500	51.9	4.46	18.00	97.0	8.34	13.9	74.7	6.42	35	123.2	10.59	36.9
150	15000	64.0	5.50	23.70	106.7	9.17	21.5	77.6	6.67	35	128	11.01	28.7
180	18000	76.6	6.59	32.40	124.2	10.68	20.7	93.1	8.01	43.9	154.2	13.26	38.2
210	21000	88.3	7.59	34.40	144.5	12.42	25.2	105.7	9.09	19.1	177.5	15.26	40.3
240	24000	95.1	8.18	3.70	172.7	14.85	21.4	124.2	10.68	9.4	206.6	17.76	25.9
270	27000	111.6	9.60	7.30	200.8	17.27	49.5	134.8	11.59	9.7	228.9	19.68	31.9
300	30000	131.0	11.26	56.50	213.4	18.35	30.7	154.2	13.26	57.1	255.1	21.93	46.5
350	35000	150.0	12.90	13.0	276.8	23.80	80.5	194.0	16.68	27.5	301.3	25.91	15.6
400	40000	172.3	14.82	14.7	316.8	27.24	89.9	222.4	19.12	32.1	345.1	29.67	17.4
450	45000	195.9	16.84	20.2	333.0	28.63	15.6	251.8	21.65	43.7	390.7	33.59	23.7
500	50000	218.8	18.81	19.7	371.8	31.97	15.2	281.2	24.18	42.8	436.3	37.52	23.1

Note:
 1, Heating: water inlet/outlet temp. 60/50°C, fresh air inlet tem. 7°C, air return temp. 21°C;
 2, All the above is for your reference, if any working condition changes, please contact with us.

6 QWZE UNIT MOTOR CONTROL

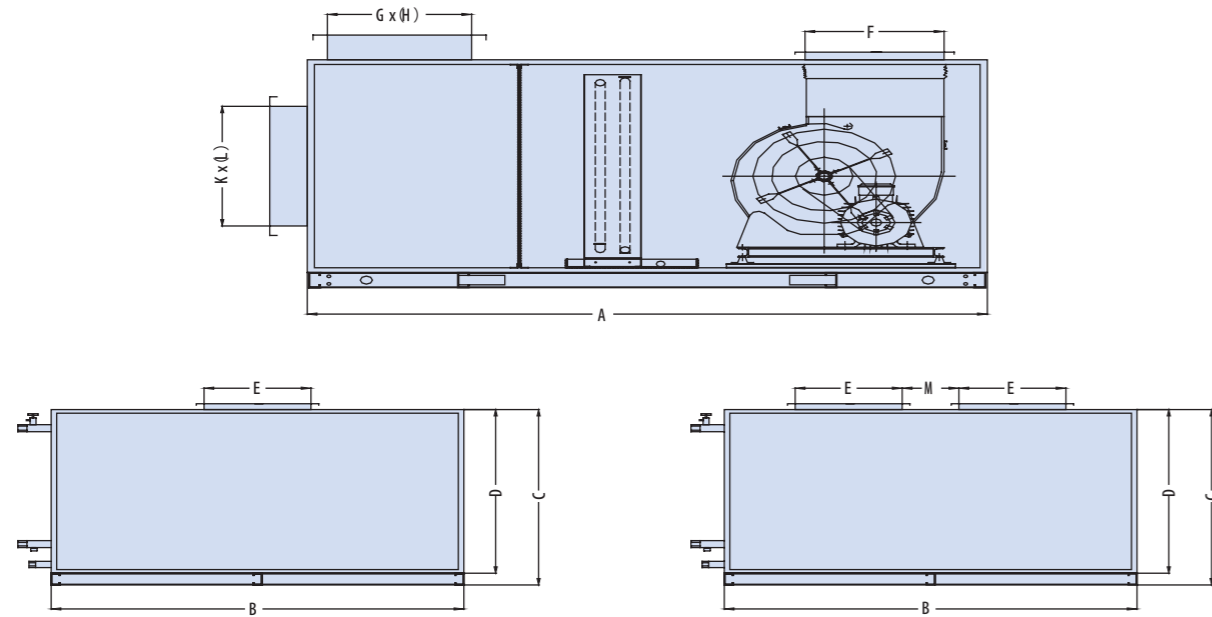
Model QWZE	Air Flow (m ³ /h)	Rows	Primary filter(nylon)						Primary filter(plate)						Primary and medium effect filter(plate+bag)					
			ESP(Pa)			Motor power(kw)			ESP(Pa)			Motor power(kw)			ESP(pa)			Motor power(kw)		
			I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
030	3000	4	120	180	250	0.55	0.55	0.75	120	180	250	0.55	0.75	0.75	120	180	250	1.1	1.1	1.1
		6	120	180	250	0.55	0.75	0.75	120	180	250	0.75	0.75	1.1	120	180	250	1.1	1.1	1.1
040	4000	4	150	200	300	0.75	0.75	1.1	150	200	300	1.1	1.1	1.1	150	200	300	1.1	1.5	1.5
		6	150	200	300	0.75	1.1	1.1	150	200	300	1.1	1.1	1.5	150	200	300	1.5	1.5	2.2
050	5000	4	150	200	300	1.1	1.1	1.1	150	200	300	1.1	1.1	1.5	150	200	300	1.5	1.5	2.2
		6	150	200	300	1.1	1.1	1.1	150	200	300	1.1	1.1	1.5	150	200	300	1.5	1.5	2.2
060	6000	4	150	200	300	1.1	1.5	1.5	150	200	300	1.5	1.5	2.2	150	200	300	2.2	2.2	2.2
		6	150	200	300	1.5	1.5	2.2	150	200	300	1.5	1.5	2.2	150	200	300	2.2	2.2	3
070	7000	4	180	250	350	1.1	1.5	2.2	180	250	350	1.5	1.5	2.2	180	250	350	2.2	2.2	3
		6	180	250	350	1.5	1.5	2.2	180	250	350	1.5	2.2	2.2	180	250	350	2.2	2.2	3
080	8000	4	180	250	350	1.5	2.2	2.2	180	250	350	2.2	2.2	2.2	180	250	350	2.2	3	3
		6	180	250	350	1.5	2.2	2.2	180	250	350	2.2	2.2	2.2	180	250	350	3	3	3
090	9000	4	200	300	400	2.2	2.2	3	200	300	400	2.2	2.2	3	200	300	400	3	3	4
		6	200	300	400	2.2	2.2	3	200	300	400	2.2	3	3	200	300	400	3	3	4
105	10500	4	200	300	400	2.2	3	3	200	300	400	3	3	3	200	300	400	3	4	4
		6	200	300	400	2.2	3	3	200	300	400	3	3	4	200	300	400	4	4	4
120	12000	4	200	300	400	2.2	3	3	200	300	400	2.2	3	4	200	300	400	4	4	5.5
		6	200	300	400	3	3	4	200	300	400	3	3	4	200	300	400	4	4	5.5
135	13500	4	300	400	500	3	4	4	300	400	500	4	4	5.5	300	400	500	5.5	5.5	5.5
		6	300	400	500	3	4	5.5	300	400	500	4	4	5.5	300	400	500	5.5	5.5	7.5
150	15000	4	300	400	500	4	4	5.5	300	400	500	4	5.5	5.5	300	400	500	5.5	5.5	7.5
		6	300	400	500	4	5.5	5.5	300	400	500	4	5.5	5.5	300	400	500	5.5	7.5	7.5
180	18000	4	300	400	500	4	5.5	7.5	300	400	500	5.5	5.5	7.5	300	400	500	7.5	7.5	11
		6	300	400	500	5.5	5.5	7.5	300	400	500	5.5	7.5	7.5	300	400	500	7.5	7.5	11
210	21000	4	300	400	500	5.5	7.5	7.5	300	400	500	7.5	7.5	7.5	300	400	500	7.5	11	11
		6	300	400	500	5.5	7.5	7.5	300	400	500	7.5	7.5	11	300	400	500	11	11	11
240	24000	4	300	400	500	7.5	7.5	11	300	400	500	7.5	11	11	300	400	500	11	11	11
		6	300	400	500	7.5	11	11	300	400	500	7.5	11	11	300	400	500	11	11	15
270	27000	4	300	400	500	7.5	7.5	11	300	400	500	7.5	11	11	300	400	500	11	11	15
		6	300	400	500	7.5	11	11	300	400	500	11	11	11	300	400	500	11	15	15
300	30000	4	300	400	500	7.5	11	11	300	400	500	11	11	11	300	400	500	11	15	15
		6	300	400	500	11	11	11	300	400	500	11	11	15	300	400	500	11	15	15

7 QWZE STANDARD UNIT NOZZLE SIZE

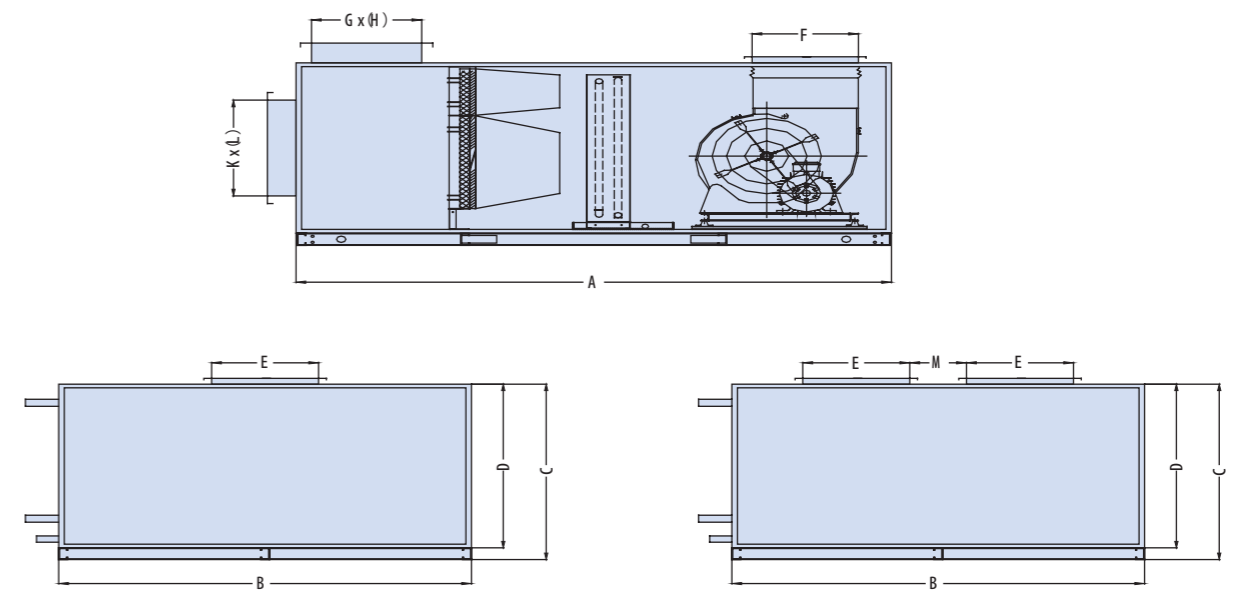
Model QWZE	Return air		30% fresh air		Fresh air		Condensing pipe
	4R	6R	4R	6R	4R	6R	
	DN	DN	DN	DN	DN	DN	DN
030	40	40	40	40	40	40	25
040	40	40	40	40	40	40	25
050	40	40	40	40	40	50	25
060	40	40	40	40	50	50	25
070	40	40	40	50	50	50	25
080	40	40	40	50	50	65	25
090	40	40	50	50	65	65	25
105	40	50	50	50	65	65	25
120	50	50	50	65	65	65	25
135	50	50	50	65	65	80	32
150	50	50	65	65	65	80	32
180	50	65	65	65	80	80	32
210	65	65	65	80	80	80	32
240	65	65	65	80	80	80	32
270	65	80	80	80	80	80	32
300	65	80	80	80	80	80	32

8 QWZE STANDARD UNIT DIMENSION

1 STANDARD UNIT ONE OR TWO (WITH PRIMARY FILTER)



2 STANDARD UNIT THREE (WITH JUNIOR HIGH EFFICIENCY FILTER)

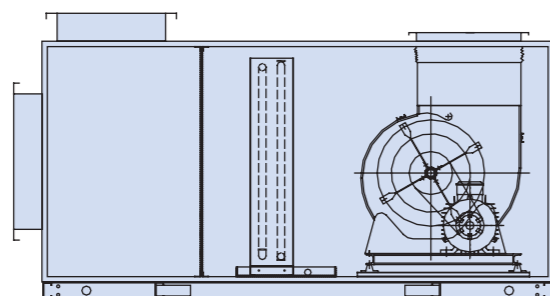


Model QWZE	A	B	C	D	M	Fresh air inlet					Return air inlet					Supply air outlet				
						G	X	H	X	Qty	K	X	L	X	Qty	F	X	E	X	Qty
030	1550	950	650	570	-	160	x	300	x	1	250	x	300	x	1	266	x	302	x	1
040	1600	1060	700	620	-	160	x	400	x	1	200	x	500	x	1	293	x	355	x	1
050	1600	1060	820	740	-	280	x	300	x	1	250	x	500	x	1	345	x	313	x	1
060	1600	1150	880	800	-	250	x	400	x	1	250	x	600	x	1	345	x	399	x	1
070	1700	1200	980	900	-	280	x	400	x	1	280	x	600	x	1	408	x	377	x	1
080	1700	1300	980	900	-	320	x	400	x	1	400	x	500	x	1	408	x	377	x	1
090	1950	1350	1050	970	-	370	x	400	x	1	370	x	600	x	1	482	x	434	x	1
105	1950	1520	1050	970	-	370	x	500	x	1	400	x	630	x	1	482	x	434	x	1
120	2000	1700	1050	970	-	400	x	500	x	1	500	x	600	x	1	482	x	561	x	1
135	1900	1950	1050	970	294	450	x	500	x	1	560	x	600	x	1	408	x	377	x	2
150	1900	1950	1150	1070	294	400	x	630	x	1	450	x	800	x	1	408	x	377	x	2
180	2050	2160	1200	1120	341	500	x	600	x	1	630	x	700	x	1	482	x	434	x	2
210	2050	2350	1280	1200	341	400	x	900	x	1	560	x	900	x	1	482	x	434	x	2
240	2050	2350	1380	1300	341	400	x	1000	x	1	450	x	1300	x	1	482	x	434	x	2
270	2250	2680	1380	1300	454	450	x	1000	x	1	500	x	1300	x	1	482	x	561	x	2
300	2300	2680	1480	1400	454	450	x	1100	x	1	560	x	1300	x	1	482	x	561	x	2

Model QWZE	A	B	C	D	M	Fresh air inlet					Return air inlet					Supply air outlet				
						G	X	H	X	Qty	K	X	L	X	Qty	F	X	E	X	Qty
030	1850	950	650	570	-	160	x	300	x	1	250	x	300	x	1	266	x	302	x	1
040	2000	1060	700	620	-	160	x	400	x	1	200	x	500	x	1	293	x	355	x	1
050	2000	1060	820	740	-	280	x	300	x	1	250	x	500	x	1	345	x	313	x	1
060	2000	1150	880	800	-	250	x	400	x	1	250	x	600	x	1	345	x	399	x	1
070	2100	1200	980	900	-	280	x	400	x	1	280	x	600	x	1	408	x	377	x	1
080	2100	1300	980	900	-	320	x	400	x	1	400	x	500	x	1	408	x	377	x	1
090	2400	1350	1050	970	-	370	x	400	x	1	370	x	600	x	1	482	x	434	x	1
105	2400	1520	1050	970	-	370	x	500	x	1	400	x	630	x	1	482	x	434	x	1
120	2500	1700	1050	970	-	400	x	500	x	1	500	x	600	x	1	482	x	561	x	1
135	2400	1950	1050	970	294	450	x	500	x	1	560	x	600	x	1	408	x	377	x	2
150	2400	1950	1150	1070	294	400	x	630	x	1	450	x	800	x	1	408	x	377	x	2
180	2500	2160	1200	1120	341	500	x	600	x	1	630	x	700	x	1	482	x	434	x	2
210	2550	2350	1280	1200	341	400	x	900	x	1	560	x	900	x	1	482	x	434	x	2
240	2550	2350	1380	1300	341	400	x	1000	x	1	450	x	1300	x	1	482	x	434	x	2
270	2600	2680	1380	1300	454	450	x	1000	x	1	500	x	1300	x	1	482	x	561	x	2
300	2700	2680	1480	1400	454	450	x	1100	x	1	560	x	1300	x	1	482	x	561	x	2

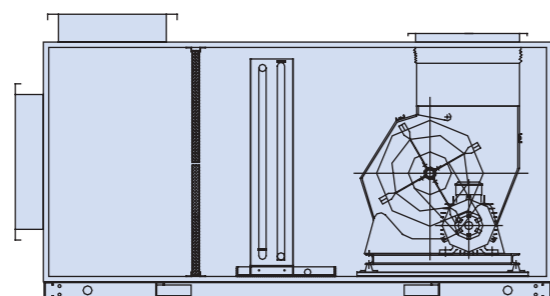
9 QWZE UNIT CLASSIFICATION

1 STANDARD UNIT 1:



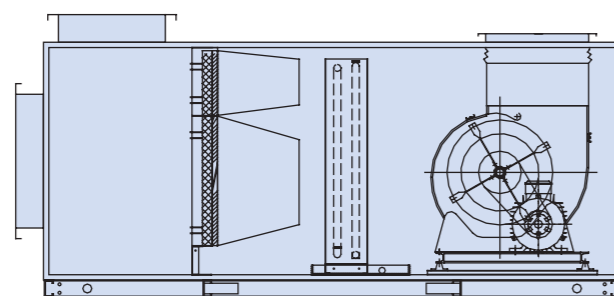
Mix (includes primary nylon filter) + coil + fan

2 STANDARD UNIT TWO:



Mix (includes primary plate type filter) + coil + fan

3 STANDARD UNIT THREE:



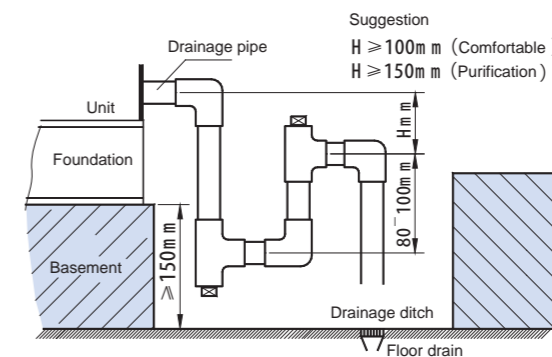
Mix (includes primary plate type filter) + medium effect filter + coil + fan

Note:

- 1, Standard fitting is galvanized air valve, you can choose aluminum alloy or flange;
- 2, You can choose 1~2R heating coil or 50~150mm wet-film humidifier;
- 3, Primary filter is nylon, you can choose G3/G4;
- 4, Medium filter is F5, you can choose F6~F9;

10 UNIT INSTALLATION

- 1, Please check the unit before installation, see if there are something broken such as transformation, scratch on panel or case, motor or fan loosen;
- 2, Please consider to add extra shock absorber if the unit is installed on floor;
- 3, Around the unit there should be enough space specially for the pipes and service (suggest not less than 0.6m);
- 4, Please make the pipes according to the instruction, please make the effort evenly to avoid the damage to the unit;
- 5, The water inlet pipe must have valves and filtration device, please clean the pipe before installation;
- 6, Suggest to set plenum chamber on air inlet and air outlet, and set air flow damper on air ducts, set the fire damper correctly;
- 7, Before start the fan, please rotate the fan impeller in hand, check whether there are any problem, if has please exclude; after power in, start the fan, check whether the rotate direction is right, if not, exchange the power line phase sequence will be ok;
- 8, Make sure the AHU is connected with the ground;
- 9, Please use flexible connection avoiding the unit bearing the load;
- 10, Condensing water outlet must set water seal, and then connected with the outside pipes;
- 11, Please check the power, make sure it is the same with the unit;

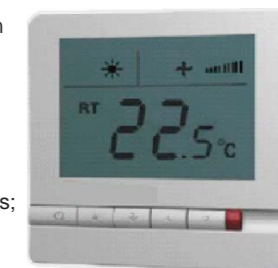


Water Seal

11 CONTROL SYSTEM INTRODUCTION

1 FUNCTIONAL INTRODUCTION

- 1, QWWC/QWLC/QWZE can choose the control system as option, the control box includes multiple protection such as short circuit, loss power, overload and so on, making sure the unit can running reliably;
- 2, The electric parts of the control system are world famous brands;
- 3, Remote control system, can be connected to the third party's control system, realize remote control and monitor;
- 4, There set reliable Singlechip inside the control system, built-in temperature controller, it can display the room temperature and adjust the temperature according to the customer's requirements;
- 5, Reserved fresh air valve(start and shut down with the supply fan), fire damper and switchtype water valve control signal, Rich external interlocking, protect the unit long-term effective operation;
- 6, The temperature controller can choose heating mode or cooling mode, suitable for two-pipe system;



LCD temperature controller

11 CONTROL SYSTEM BRIEF INTRODUCTION

2 FUNCTIONAL INTRODUCTION

- 1, Control box is installed on the unit, temperature controller is delivered with the unit, the customers only need to connect water valve, control cabinet signal wire and control power cable;
- 2, Water valve connector is only for 220V switch type, not used for control valve;
- 3, For the all fresh air unit, it has the condition that the fresh air temp. is under 0°C, so in order to anti-freezing, fresh air without pre-heating, the water valve control signal can not connected to the controller.



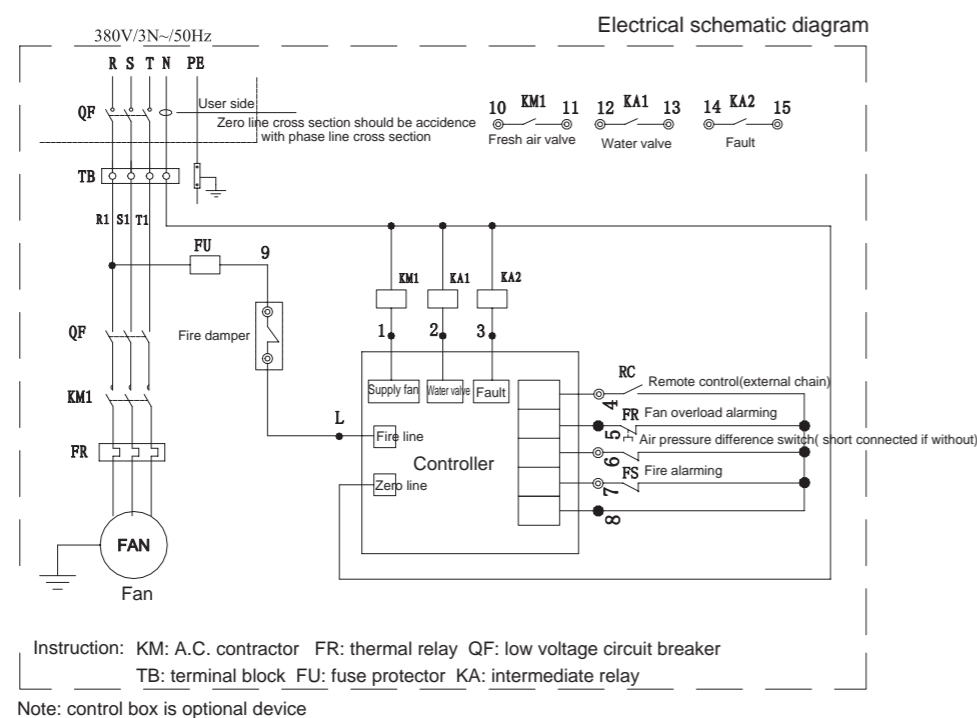
Control cabinet

3 CONTROL INSTALLATION INSTRUCTIONS

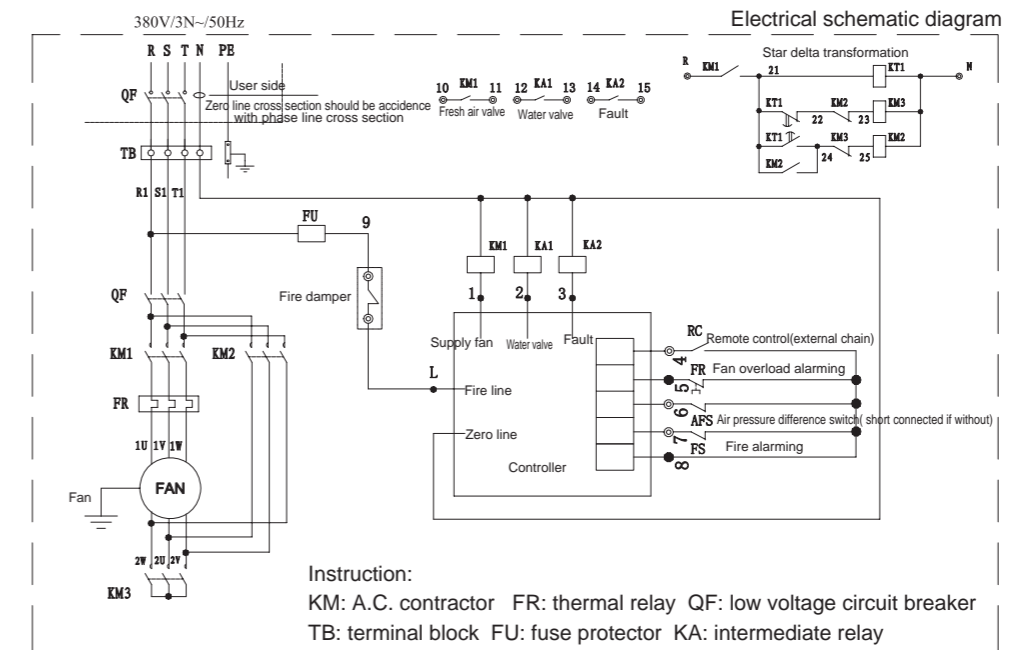
- 1, Optional device: anti-freezing protector switch, when the fresh air temp. is lower than 3°C, for anti-freezing, the fresh air damper will be shut down by itself;
- 2, This kind of control only for cooling+fan, if needs to add heating coil, electrical heater and humidity control please make a remark.

12 UNIT INSTALLATION

1 DIRECT START (MOTOR POWER LESS THAN 11 KW)



2 STAR DELTA STARTER TYPE (MOTOR POWER IS LARGER THAN 15KW)



Note: control box is optional device

13 USE AND MAINTANANCE

- 1, Before the unit operate, please check all the valves and dampers of the water pipe and air ducts each time, make sure they are all in the normal operation status;
- 2, Check the linkage, operation and transfer situation of the moving parts such as fan, motor in period, and make the adjustable in time;
- 3, Before or during the operation, please clean the filter once every month;
- 4, If the unit doesn't running during the winter please discharge the water in the coil; if the unit is running in winter, if it needs to stop, please keep the water circulation in coil, and shut down the fresh air damper protecting the coil frozen. If long time no use please discharge the water in the coil;
- 5, The cold water or the hot water should be clean soften water. Please use chemical methods to clean the water scale in the coil, and use compressed air or water clean the dirt on the coil surface, and clean the water pan and water seal bent each year;
- 6, Please check the fan axial and belt in period;