



MEDICAL DIRECT EXPANSION AIR HANDLING UNIT

- It is recommended to use anti-corrosion and antibacterial materials for the inner wall panels to meet the requirements for rust prevention, resistance to disinfectant corrosion, and prevention of bacterial growth.
- The electric heating should use a dust-free, rust-free, and non-peeling PTC type or other similar performance forms.
- The recommended air velocity through the coil face should not exceed 2 m/s, and the cross-sectional air velocity should be uniform. The water pan must be made of stainless steel.
- Humidifiers should use dry steam or electrode-type humidifiers, avoiding wet film and other enthalpy humidification methods to ensure no water remains in the humidifier after shutdown, eliminating bacterial growth. Fans can be equipped with frequency converters for air volume adjustment to meet various customer requirements.
- Filters must be disposable and not reusable.
- The unit control should adopt a humidity control priority scheme: the relative humidity of the air at the outlet should not exceed 75%. After shutdown, the fan should delay shutdown to ensure the coil is dried. It should also have features such as operating room control panel linkage, duty fan frequency conversion or dual-speed operation to ensure pressure difference, automatic restart after power failure, and other related requirements.
- Ultraviolet germicidal lamps can be selected for the cooling section and the outlet section, and ozone generators or nano photocatalytic materials can be added to the outlet section. These are effective in killing bacteria in the air.
- The sound attenuator material should be micro-perforated plates, without glass wool to prevent glass wool fiber pollution of the air conditioning environment.

» Model Description (Direct Evaporative)

ZYJ — 14 V 70 A 020

- Unit External Static Pressure: Three digits, number $\times 10$ Pa
- Control System Types: A - Standard Type; B - Temperature Control Type; C - Humidity and Temperature Control Type
- Nominal Cooling Capacity: in kW
- Air Handling Side Installation Forms: V - Vertical; W - Horizontal; D - Ceiling-mounted
- Nominal Air Volume: Two digits, number $\times 1000$ m³/h
- Model Code: ZYJ Series Medical Air Handling Unit (Direct Evaporative Type).

Air-cooled Outdoor Unit

SW 075 H E A N N D

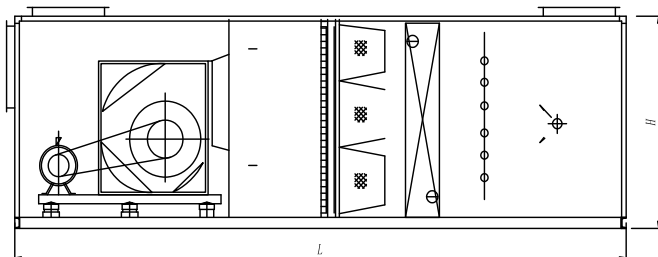
- Air Discharge Type: D - Top Discharge; V - Side Discharge
- Control System Types: N type - Standard type with control cabinet; B type - Only power cabinet and protection switch, without control board; C type - Custom-made non-standard type
- Interconnecting Pipes for Indoor and Outdoor Units: N - Standard Pipe Run; T - Extended Pipe Run (less than 50 meters)
- Compressor Types: A-Scroll Fixed Frequency; B-Scroll Inverter with Enhanced Refrigerant; C-Screw Fixed Frequency; D-Screw Inverter; F-Scroll Inverter without Enhanced Refrigerant
- Refrigerant Types: E-R410A; B-R22; A-R134a; J-R32; E-R410A; B-R22; A-R134a; J-R32
- Refrigeration System Functions: H - Heat Pump Type 1; D - Single Cooling Type; J - Year-Round Cooling Type 1 (Cooling in ambient temperatures from -5 to 43°C); Q - Year-Round Cooling Type 2 (Cooling in ambient temperatures from -15 to 43°C)
- Product Model: Three digits
- Model Code: SW represents an air-cooled outdoor unit.

» Model Description (Chilled Water Type)

ZYJ — 30 W T 2117

- Four-digit number: Order Code
- N - Standard Type Unit; T - Non-standard Type Unit
- Unit Form: D - Ceiling-mounted; V - Vertical; W - Horizontal
- Nominal Air Volume: number $\times 1000$ m³/h
- Model Code: ZYJ Series Medical Air Handling Unit (Chilled Water Type).

» JH Technical Parameters (Recirculating Air Unit)



JH Sections: Mixing, Fan, Uniform Flow, Primary and Medium Filter, Cooling Coil, Heating, Humidifier Supply Air

Technical Specifications

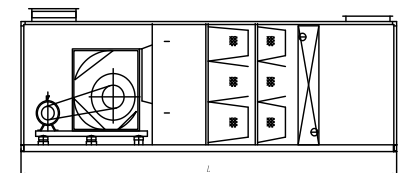
Model	Rated Airflow Rate	Airflow Rate Range	External Static Pressure	Motor Power	Two-Pipe System Cooling Capacity (Return Air Condition) kW			Four-Pipe Control Heating Capacity (Return Air Condition) kW							
								42°C Hot Water Coil Heating Capacity				60°C Hot Water Coil Heating Capacity			
					2R	4R	6R	1R	2R	4R	1R	2R	4R	1R	2R
ZYJ-02	2500	2000-2600	550	1.5	7.8	12.6	16.1	8.0	12.2	18.5	14.3	21.6	32.8	17.2	18.1
ZYJ-03	3500	2700-3800	550	2.2	12	16.4	22.2	12.5	19.1	29.0	22.4	33.8	51.4	28.2	29.6
ZYJ-05	5000	4000-5400	550	3	15.2	25.6	34.3	16.0	24.3	37.0	28.6	43.2	65.6	35.1	36.9
ZYJ-06	6000	5500-6400	550	4	18.4	30.5	40.8	19.4	29.5	44.8	34.6	52.2	79.4	40.0	42.0
ZYJ-08	8000	7500-8400	550	4	24.4	41.2	54.9	25.9	39.3	59.8	46.2	69.8	106.0	56.6	59.4
ZYJ-10	10000	9500-11000	550	5.5	30	55.6	67.2	32.1	48.9	74.3	57.4	86.7	131.7	70.6	74.1
ZYJ-12	12000	11500-13000	550	5.5	36.6	69.2	84	38.3	58.2	88.5	68.4	103.3	157.0	84.0	88.2
ZYJ-15	15000	13500-16000	550	7.5	44.3	88.9	108	46.0	70.0	106.4	82.2	124.1	188.7	101.0	106.1
ZYJ-20	20000	16500-22000	550	11	61	119.4	150.1	62.7	95.3	144.9	112	169.1	257.1	140.0	147.0
ZYJ-25	25000	22500-27000	550	11	72.4	143.8	176.1	78.4	119.2	181.1	140	211.4	321.3	176.0	184.8

Model	Cooling Capacity of Air-Cooled Direct Expansion Type kW	Model of Outdoor Unit	Fresh Air Inlet Dimensions	Return Air Inlet Dimensions	Supply Air Outlet Dimensions	Condensing Water Pipe	Unit Dimension			Weight
			L*W	L*W	L*W		L*W*H			
			mm	mm	mm		mm			kg
ZYJ-02	14.2	SW050	300*210	400*310	400*310	DN32	3700	850	830	530
ZYJ-03	16.8	SW060	300*210	500*310	500*310	DN32	3700	1050	930	560
ZYJ-05	28.4	SW100	300*210	600*410	600*410	DN32	3700	1250	930	660
ZYJ-06	33.6	SW125	300*310	800*410	800*410	DN32	3700	1250	1030	720
ZYJ-08	42.8	SW150	300*310	800*510	800*510	DN32	3700	1350	1230	830
ZYJ-10	52.4	SW200	400*310	1000*510	1000*510	DN32	3700	1550	1330	960
ZYJ-12	67.2	SW250	400*310	1000*510	1000*510	DN32	3700	1550	1530	1060
ZYJ-15	85	SW300	400*410	1200*510	1200*510	DN32	3700	1850	1530	1210
ZYJ-20	102	SW250+SW125	500*410	1500*610	1500*610	DN32	3700	2050	1530	1540
ZYJ-25	---	---	600*410	1500*810	1500*810	DN32	4000	2050	1830	1690

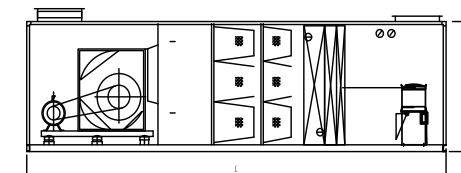
Note:

- The cooling capacity is measured at the nominal air volume with indoor wet and dry bulb temperatures of 24°C/17°C and outdoor wet and dry bulb temperatures of 35°C/28°C. The fresh air volume is in accordance with the "Technical Specification for Hospital Clean Operating Department Construction". The rated heating and humidifying condition: return air dry bulb temperature is 20°C with a relative humidity of 50%;
- The outdoor unit comes with refrigerant from the factory;
- The rated cooling capacity does not take into account the heat loss of the fan motor, and the nominal air volume refers to the operating air volume under standard conditions;
- The standard configuration of the unit is electric heating, but it can also use hot water heating or steam heating according to customer requirements;
- The standard configuration of the unit is electrode humidification, but it can also use dry steam or other methods according to customer requirements;
- The water resistance of the coil is ≤50kPa;
- If the specifications and parameters are changed due to product improvement, no separate notification will be given.

» JX Technical Parameters (Fresh Air Unit)



JX1 Type



JX2 Type

Jx1 Sections: Incoming Air Primary Filter, Fan, Uniform Flow, Medium Filter, Sub-High Efficiency Filter, Cooling Coil Supply Air
JXJX2 Sections: Incoming Air Primary Filter, Fan, Uniform Flow, Medium Filter, Sub-High Efficiency Filter, Cooling Coil, Dehumidifier and Reheating, Supply Air

Outline Dimensions

Model	Rated Airflow Rate	Airflow Rate Range	External Static Pressure	Motor Power	Two-Pipe System Cooling Capacity (Return Air Condition) kW			Four-Pipe Control Heating Capacity (Return Air Condition) kW							
								42°C Hot Water Coil Heating Capacity				60°C Hot Water Coil Heating Capacity			
								1R	2R	4R	1R	2R	4R	1R	2R
ZYJ-02	2500	2000-2600	550	2.2	34.2	42.8	46.2	9.6	14.6	22.3	17.2	26.0	39.5	20.0	32.4
ZYJ-03	3500	2700-3800	550	3	44.2	55.3	59.7	13.4	20.4	31.1	24	36.2	55.1	30.2	48.9
ZYJ-05	5000	4000-5400	550	4	68.6	85.8	92.6	20.2	30.6	46.6	36	54.4	82.6	40.6	65.8
ZYJ-06	6000	5500-6400	550	5.5	86.4	108.0	116.6	23.5	35.8	54.3	42	63.4	96.4	50.0	81.0
ZYJ-08	8000	7500-8400	550	5.5	112	140.0	151.2	32.5	49.4	75.0	58	87.6	133.1	64.2	104.0
ZYJ-10	10000	9500-11000	550	7.5	138.2	172.8	186.6	39.2	59.6	90.6	70	105.7	160.7	81.4	131.9
ZYJ-12	12000	11500-13000	550	7.5	166	207.5	224.1	47.7	72.5	110.2	85.2	128.7	195.6	97.3	157.6
ZYJ-15	15000	13500-16000	550	11	204	255.0	275.4	58.2	88.5	134.6	104	157.0	238.7	115.6	187.3
ZYJ-20	20000	16500-22000	550	11	265	331.3	357.8	76.2	115.8	176.0	136	205.4	312.1	154.0	249.5
ZYJ-25	25000	22500-27000	550	15	325	406.3	438.8	100.2	152.4	231.6	179	270.3	410.8	194.0	314.3

Model	Cooling Capacity of Air-Cooled Direct Expansion Type kW	Model of Outdoor Unit	Return Air Inlet Dimensions		Supply Air Outlet Dimensions		Condensing Water Pipe	Dehumidification and Reheating	JX1 Unit Dimensions			JX2 Unit Dimensions		
			L*W	L*W	L*W*H	L*W*H			L*W*H	L*W*H				
			mm	mm							mm	mm		
ZYJ-02	14.2	SW050	600*610	400*310	DN32	---	3500	850	830	3700	850	830		
ZYJ-03	16.8	SW060	600*610	500*310	DN32	---	3500	1050	930	3700	1050	930		
ZYJ-05	28.4	SW100	950*610	600*410	DN32	3HP	3700	1250	930	3900	1250	930		
ZYJ-06	33.6	SW125	950*710	800*410	DN32	4HP	3700	1250	1030	3900	1250	1030		
ZYJ-08	42.8	SW150	1360*710	800*510	DN32	5HP	3900	1350	1230	4100	1350	1230		
ZYJ-10	52.4	SW200	1360*810	1000*510	DN32	6HP	3900	1550	1330	4100	1550	1330		
ZYJ-12	67.2	SW250	1660*810	1000*510	DN32	2*4HP	4100	1550	1530	4300	1550	1530		
ZYJ-15	85	SW300	1660*1010	1200*510	DN32	2*4HP	4100	1850	1530	4300	1850	1530		
ZYJ-20	102	SW250-SW125	1960*1210	1500*610	DN32	2*5HP	4300	2050	1530	4500	2050	1530		
ZYJ-25	---	---	1960*1510	1500*810	DN32	2*6HP	4600	2050	1830	4800	2050	1830		

Note:

- Nominal cooling condition: fresh air wet and dry bulb temperatures are 35°C/28°C; Heating and humidifying rated condition: fresh air dry bulb temperature is 0°C with a relative humidity of 45%;
- The outdoor unit comes with refrigerant from the factory;
- The rated cooling capacity does not consider the heat loss from the fan motor, and the nominal air volume refers to the air volume under standard operating conditions;
- The unit is standardly configured with electric heating, but it can also be equipped with hot water heating or steam heating upon customer's request;
- The unit is standardly configured with electrode humidification, but it can also use dry steam or other methods upon customer's request;
- The water resistance of the coil is ≤50kPa;
- If the specifications and parameters are changed due to product improvement, no separate notification will be given.