



FULL DC INVERTER SYSTEMS

SERVICE MANUAL

INDOOR DUCT UNITS SDV5-xxDA AND SDV5-17-71DAP

COMMERCIAL AIR CONDITIONERS SDV5

Medium Static Pressure Duct

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SDV5-xxDAP support to connect fascia - decoration panel SDV5-xxP

Fascia:	SDV5-01P	SDV5-02P	SDV5-03P
Units:	SDV5-22/28/36DAP	SDV5-45/56DAP	SDV5-71DAP

1 Specifications

SDV5-17DA/DAP/22DA/DAP/28DA/DAP/36DA/DAP

Table 1.2: SDV5-17(22, 28,36)DA/DAP specifications

Model name			SDV5-17DA/DAP	SDV5-22DA/DAP	SDV5-28DA/DAP	SDV5-36DA/DAP
Power supply			1-phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	1.7	2.2	2.8	3.6
		kBut/h	5.8	7.5	9.6	12.3
	Input	W	40	40	40	45
Heating ²	Capacity	kW	2.2	2.6	3.2	4
		kBut/h	7.5	8.2	10.9	13.6
	Input	W	40	40	40	45
Fan motor	Model		ZKSP-30-8-3L	ZKSP-30-8-3L	ZKSP-30-8-3L	ZKSP-30-8-3L
	Type		DC			
	Brand		Nidec/Welling/Yongan			
	Speed (H/M/L)	r/min	970/936/863/790/ 740/690/640	1010/936/863/790/740/690/640		1070/1004/937/870/830/790/750
Coil	Number of rows		2	2	2	2
	Tube pitch × row pitch	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ7 Inner groove			
	Dimensions (L×H ×W)	mm	515×147×26.74			
	Number of circuits		3		4	4
Airflow rate ³	m ³ /h	490/480/440/400/ 360/330/300	520/480/440/400/360/330/300		580/540/500/460/430/400/ 370	
External static pressure ⁴	Pa	10 (0~50)				
Sound pressure level ⁵	dB(A)	32/31/29/28/26/25/23				33/32/31/30/28/27/25
Sound power level	dB(A)	50/49/47/46/44/43/41				51/50/49/48/46/45/43
Unit	Net dimensions ⁶ (W×H×D)	mm	780×210×500			
	Packed dimensions (W×H×D)	mm	870×285×525			
	Net/Gross weight	kg	18/21			
Refrigerant type			R410A			
Throttle	Type	Electronic expansion valve				
	Model	D20MISZ-1R(L)				
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ25			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

SDV5-45DA/DAP/56DA/DAP/71DA/DAP

Table 1.2: SDV5-45(56, 71)DA/DAP specifications

Model name			SDV5-45DA/DAP	SDV5-56DA/DAP	SDV5-71DA/DAP
Power supply			1-phase, 220-240V, 50Hz		
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBut/h	15.4	19.1	24.2
	Input	W	92	92	98
Heating ²	Capacity	kW	5	6.3	8
		kBut/h	17.1	21.5	27.3
	Input	W	92	92	98
Fan motor	Model		ZKSP-30-8-3L	ZKSP-30-8-3L	ZKSP-60-8-2
	Type		DC		
	Brand		Nidec/Welling/Yongan		
	Speed (H/M/L)	r/min	1080/1027/974/920/ 827/734/640	1090/1044/997/950/ 900/850/800	1070/1024/977/930/ 877/824/770
Coil	Number of rows		2	2	2
	Tube pitch×row pitch	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.3	1.3	1.3
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ7 Inner groove		
	Dimensions (L×H×W)	mm	735×147×26.74	735×147×26.74	952×147×26.74
	Number of circuits		6	6	6
Airflow rate ³	m ³ /h	800/740/680/620/ 540/480/400	830/760/720/680/ 640/600/560	1000/960/900/840/ 780/720/680	
External static pressure ⁴	Pa	10 (0~50)			
Sound pressure level ⁵	dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28	
Sound power level	dB(A)	54/52/50/49/47/45/43	54/52/51/50/48/47/46	55/53/51/50/48/47/46	
Unit	Net dimensions ⁶ (W×H×D)	mm	1000x210x500		1220x210x500
	Packed dimensions (W×H×D)	mm	1115x285x525		1335x285x525
	Net/Gross weight	kg	21.5/25		27.5/31.5
Refrigerant type			R410A		
Throttle	Type	Electronic expansion valve			
	Model	D20MISZ-1R(L)			
Design pressure(H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7	Φ9.53/Φ15.9	
	Drain pipe	mm	ODΦ25		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

SDV5-80DA/90DA

Table 1.3: SDV5-80(90)DA specifications

Model name			SDV5-80DA	SDV5-90DA
Power supply			1-phase, 220-240V, 50Hz	
Cooling ¹	Capacity	kW	8	9
		kBut/h	27.3	30.7
	Input	W	110	120
Heating ²	Capacity	kW	9	10
		kBut/h	30.7	34.1
	Input	W	110	120
Fan motor	Model		ZKFP-150-8-1	ZKFP-150-8-1
	Type		DC	
	Brand		Nidec/Welling/Match-Well	
	Speed (H/M/L)	r/min	800/757/714/670/627/584/540	800/757/714/670/627/584/540
Coil	Number of rows		4	4
	Tube pitch×row pitch	mm	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5
	Fin type		Hydrophilic aluminum	
	Tube OD and type	mm	Φ7 Inner groove	
	Dimensions (L×H×W)	mm	955×336×58	955×336×58
	Number of circuits		5	8
Airflow rate ³		m ³ /h	1260/1180/1100/1020/940/860/780	1260/1180/1100/1020/940/860/780
External static pressure ⁴		Pa	20 (10~100)	
Sound pressure level ⁵		dB(A)	37/35/34/33/31/29/28	37/35/34/33/31/29/28
Sound power level		dB(A)	55/53/52/51/49/47/46	55/53/52/51/49/47/46
Unit	Net dimensions ⁶ (W×H×D)	mm	1230×270×775	
	Packed dimensions (W×H×D)	mm	1355×350×795	
	Net/Gross weight	kg	36.5/44.5	37/45
Refrigerant type			R410A	
Throttle	Type	Electronic expansion valve		
	Model	D20MISZ-1R(L)		
Design pressure(H/L)		MPa	4.4/2.6	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	ODΦ25	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

SDV5-112DA/140DA

Table 1.4: SDV5-112(140)DA specifications

Model name			SDV5-112DA	SD5-140DA	
Power supply			1-phase, 220-240V, 50Hz		
Cooling ¹	Capacity	kW	11.2	14	
		kBut/h	38.2	47.8	
	Input	W	200	250	
Heating ²	Capacity	kW	12.5	15.5	
		kBut/h	42.7	52.9	
	Input	W	200	250	
Fan motor	Model		ZKFP-150-8-1	ZKFP-240-8-1	
	Type		DC		
	Brand		Nidec/Welling/Match-Well		
	Speed (H/M/L)	r/min	920/884/847/810/770/730/690	1060/1010/960/910/860/810/760	
Coil	Number of rows		4	4	
	Tube pitch×row pitch	mm	21×13.37	21×13.37	
	Fin spacing	mm	1.5	1.5	
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ7 Inner groove		
	Dimensions (L×H ×W)	mm	955×336×58	1030×378×58	
	Number of circuits		8	8	
Airflow rate ³		m ³ /h	1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360	
External static pressure ⁴		Pa	20 (10~100)	40 (30~150)	
Sound pressure level ⁵		dB(A)	39/38/38/37/35/34/33	41/39/38/37/36/35/33	
Sound power level		dB(A)	57/56/56/55/53/52/51	59/57/56/55/54/53/51	
Unit	Net dimensions ⁶ (W×H×D)		mm	1230×270×775	1290×300×865
	Packed dimensions (W×H×D)		mm	1355×350×795	1400×375×925
	Net/Gross weight		kg	37/45	46.5/55.5
Refrigerant type			R410A		
Throttle	Type		Electronic expansion valve		
	Model		D20MISZ-1R(L)		
Design pressure(H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	
	Drain pipe	mm	ODΦ25		

Notes:

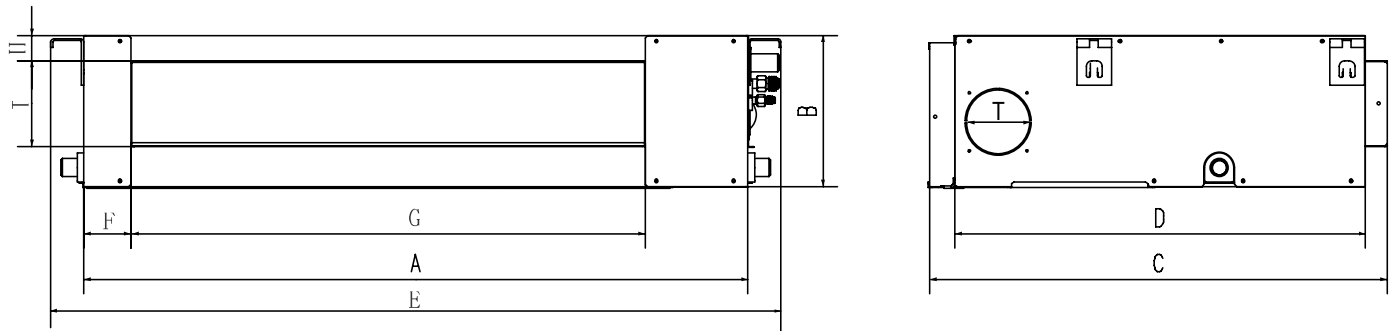
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

2 Dimensions

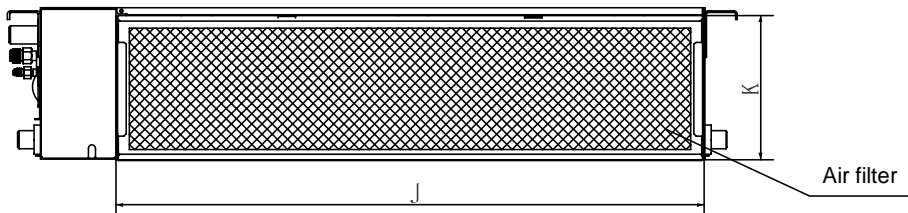
2.1 Unit Dimensions

Figure 2.1: Medium Static Pressure Duct dimensions (unit: mm)

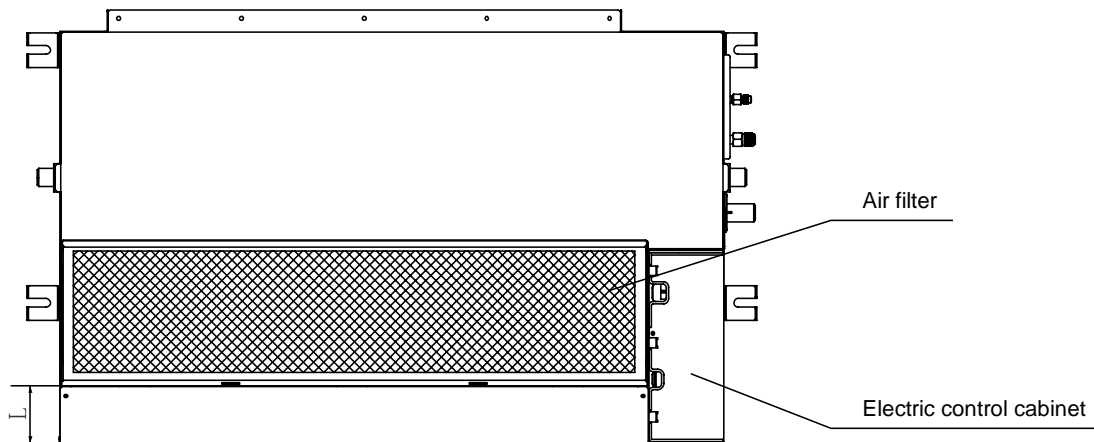
Outline dimension and air outlet opening size



Air return opening size



Position size of descensional ventilation opening



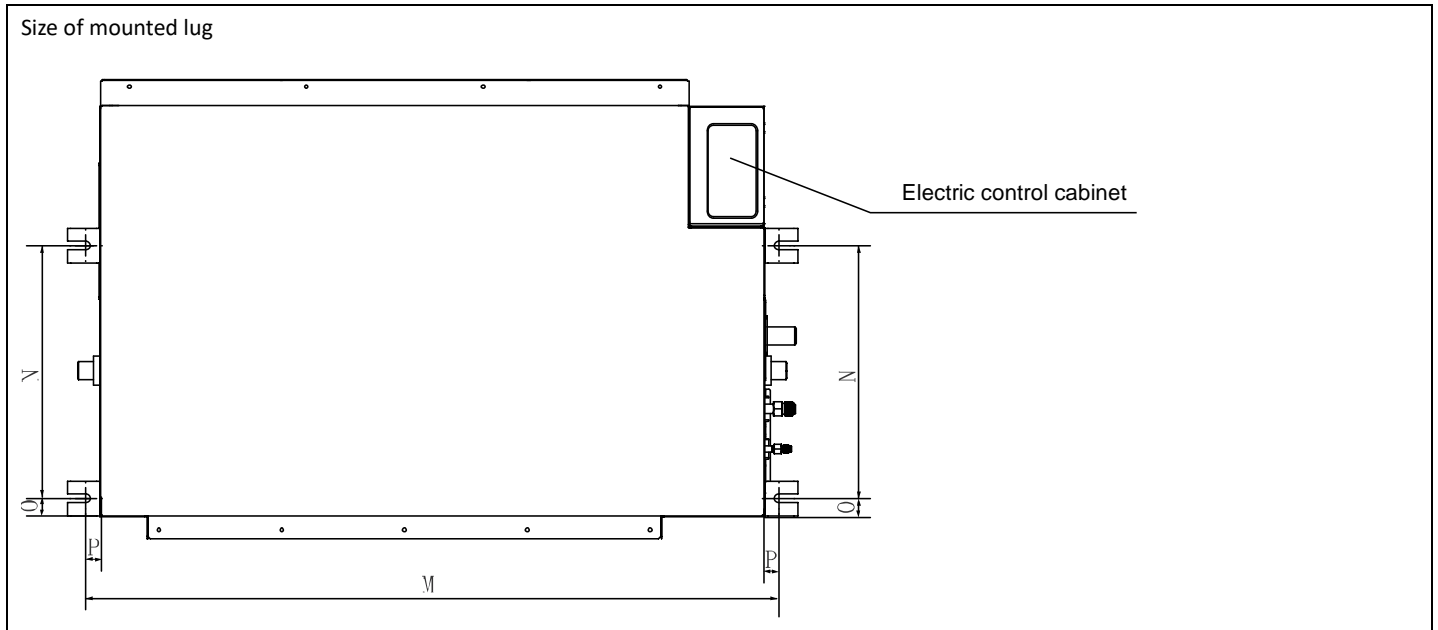


Table 2.1: Medium Static Pressure Duct dimensions

Model names	Dimension (mm)							
	A	B	C	D	E	F	G	H
SDV5-17DA/DAP - 36DA/DAP	700	210	500	450	780	45	512	17
SDV5-45DA/DAP - 56DA/DAP	920	210	500	450	1000	45	732	17
SDV5-71DA/DAP	1140	210	500	450	1220	45	950	17
SDV5-80DA - 112DA	1140	270	775	710	1230	65	933	35
SDV5-140DA	1200	300	865	800	1290	85	969	40
Model names	Dimension (mm)							
	I	J	K	L	M	N	O	P
SDV5-17DA/DAP - 36DA/DAP	145	570	180	-	740	350	35	20
SDV5-45DA/DAP - 56DA/DAP	145	790	180	-	960	350	35	20
SDV5-71DA/DAP	145	1010	180	-	1180	350	35	20
SDV5-80DA - 112DA	179	1035	260	20	1180	490	26	20
SDV5-140DA	204	1094	288	45	1240	500	26	20

Table 2.2: Medium Static Pressure Duct piping connections

Model names	Gas pipe (mm)	Liquid pipe (mm)
SDV5-17DA/DAP - 45DA/DAP	Φ12.7	Φ6.35
SDV5-56-71DA/DAP - 140DA	Φ15.9	Φ9.53

3 Unit Placement

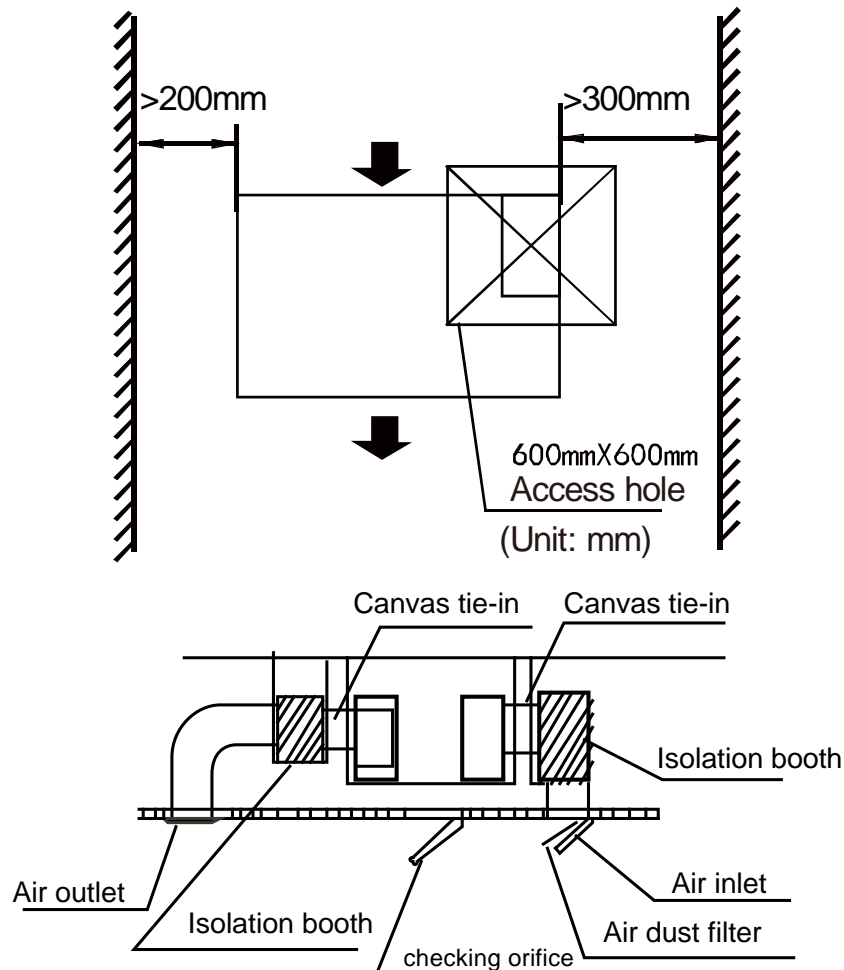
3.1 Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
 - Where exposure to direct radiation from a high-temperature heat source or to interference from a source of electromagnetic radiation may occur.
 - Where dust or dirt may affect heat exchangers.
 - Where exposure to oil or to corrosive or harmful gases, such as acidic or alkaline gases, may occur.
 - Where exposure to salinity may occur, such as seaside locations.
 - Where highly flammable materials are present.
 - Where exposure to oily air may occur, such as a kitchen.
 - Where exposure to very high humidity may occur, such as a laundry.
- Units should be installed in positions where:
 - The ceiling is horizontal and is able to bear the unit's weight.
 - There are no obstructions that could impede the airflow into and out of the unit.
 - The airflow out of the unit can reach throughout the room.
 - There is sufficient space for access during installation, servicing and maintenance.
 - The refrigerant piping and drain piping can be easily connected to the refrigerant piping and drain piping systems.
 - Short-circuit ventilation (where outlet air returns quickly to a unit's air inlet) will not occur.

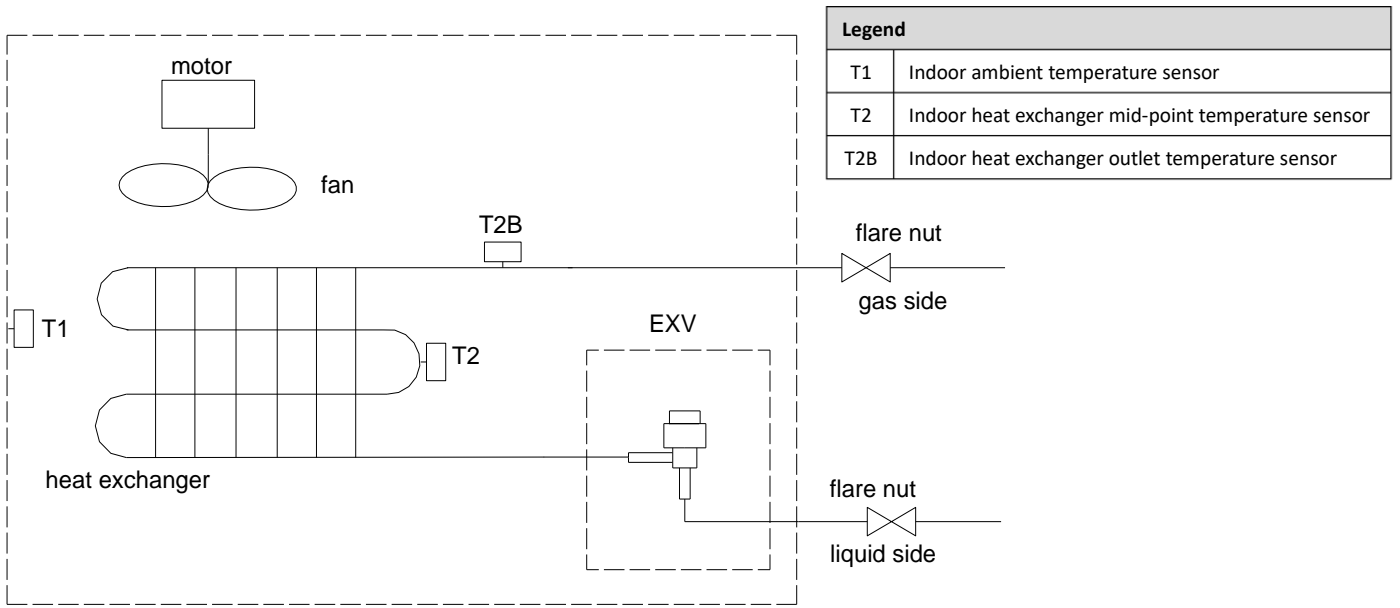
3.2 Space Requirements

Figure 3.1: Medium Static Pressure Duct space requirements (unit: mm)



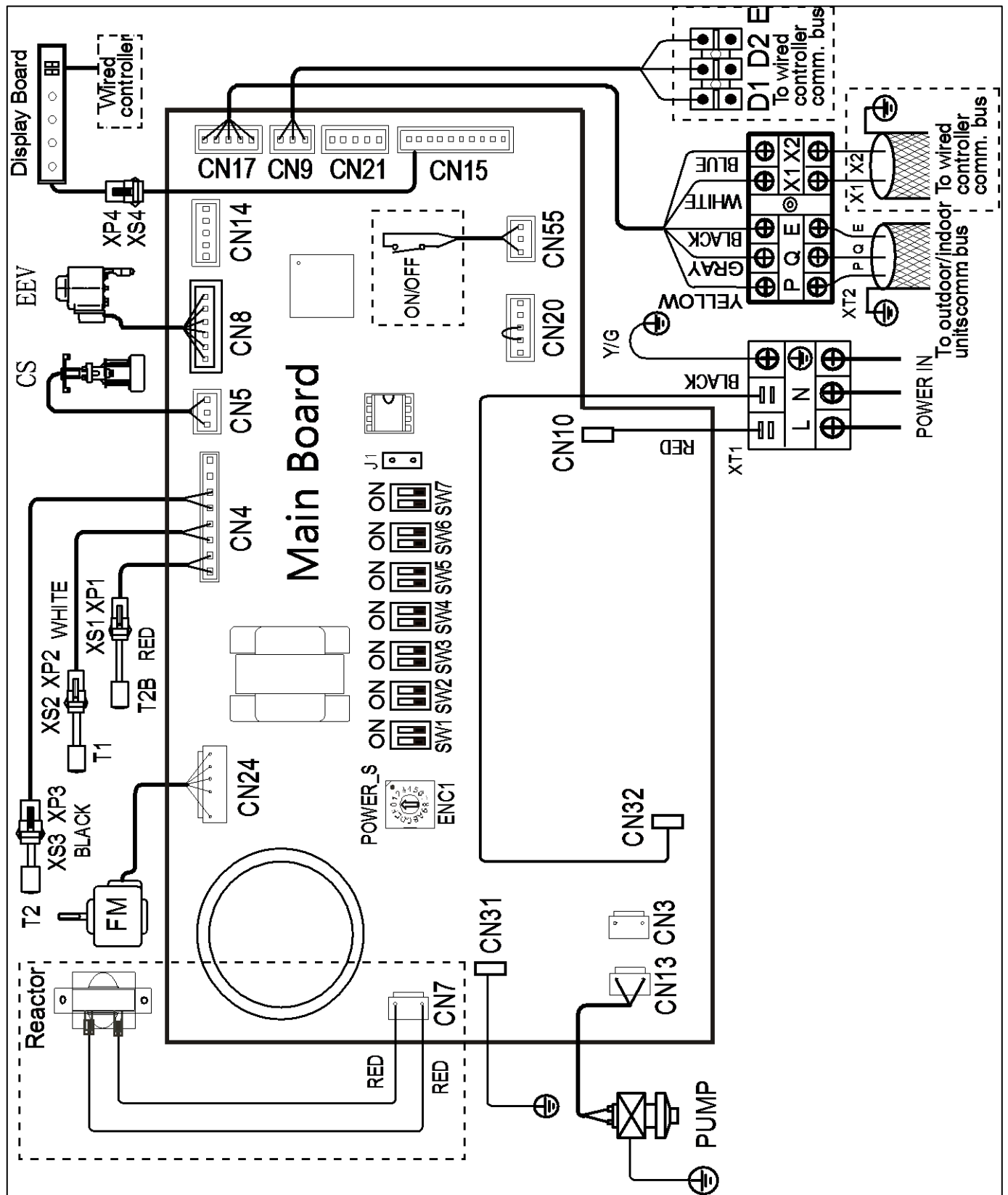
4 Piping Diagram

Figure 4.1: Medium Static Pressure Duct piping diagram



5 Wiring Diagrams

Figure 5.1: Medium Static Pressure Ductwiring diagram



Caution

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals – loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the electric control box cover risks fire or electric shock.
- Switch ENC1 (indoor unit capacity setting) is factory-set and its setting should normally not be changed. The only circumstances in which a switch ENC1 might need to be set in the field is when replacing a main PCB. When replacing a main PCB, ensure that the capacity setting on switch ENC1 on the new PCB is consistent with the unit capacity given on the unit's nameplate.

6 Fan Performance

Figure 6.1: SDV5-17DA/DAP fan performance

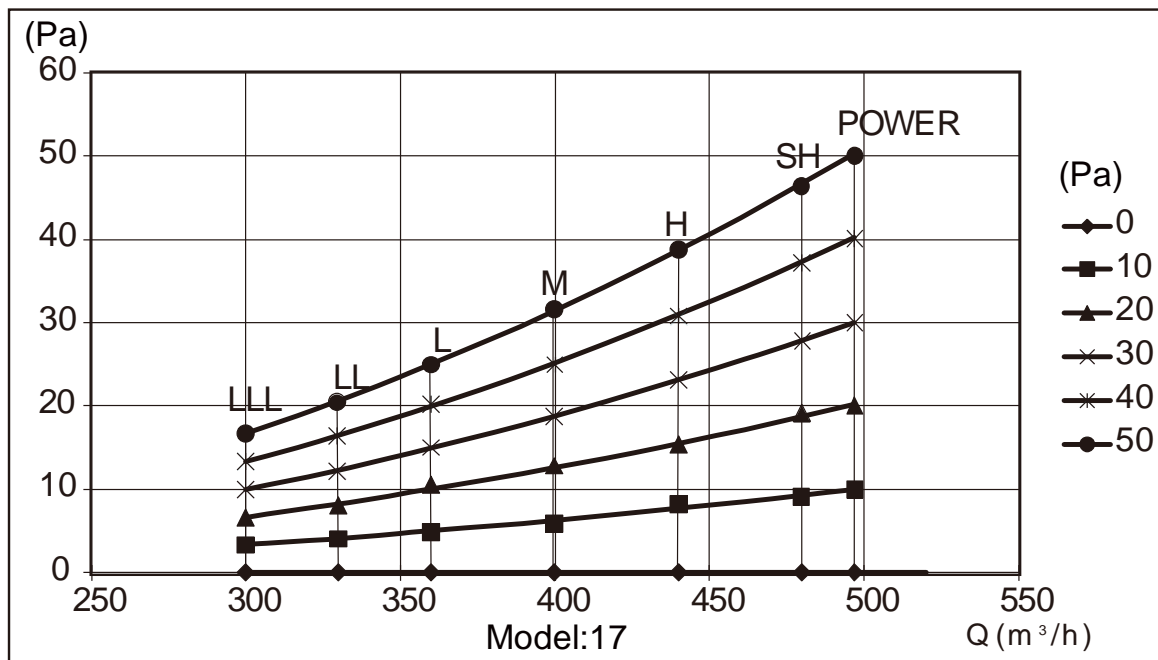


Figure 6.2: SDV5-22-28DA/DAP fan performance

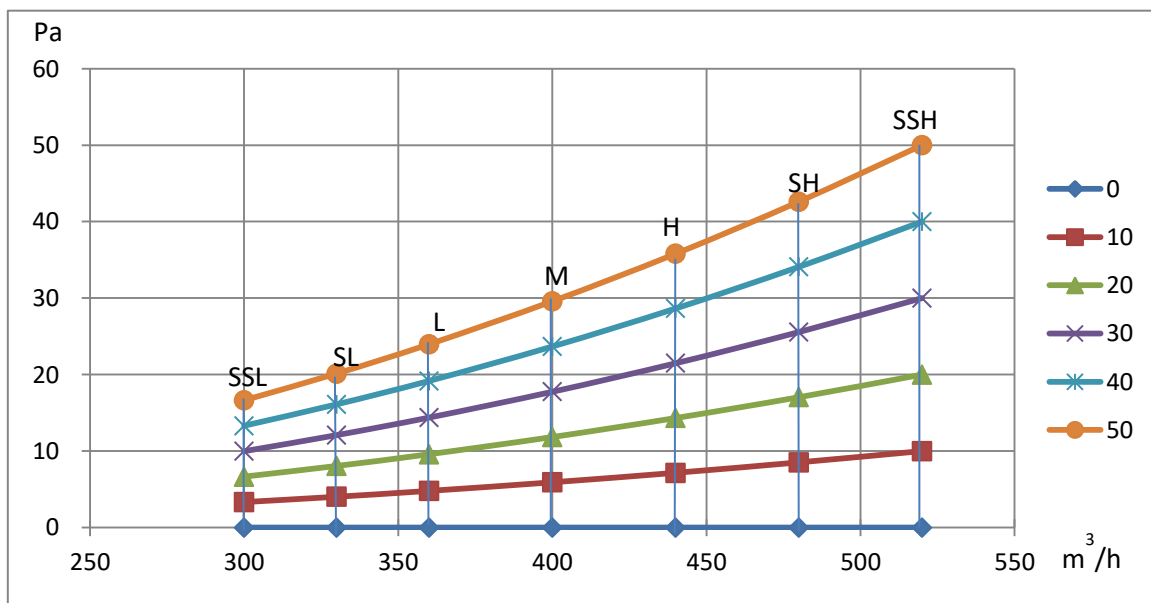


Figure 6.3:SDV5-36DA/DAP fan performance

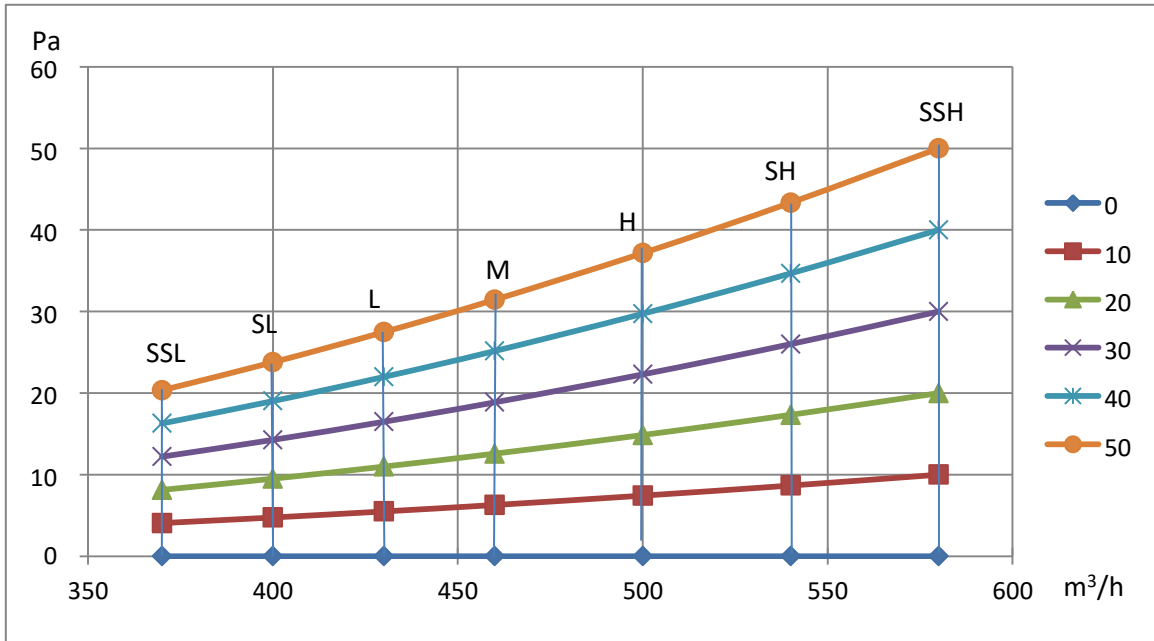


Figure 6.4:SDV5-45DA/DAP fan performance

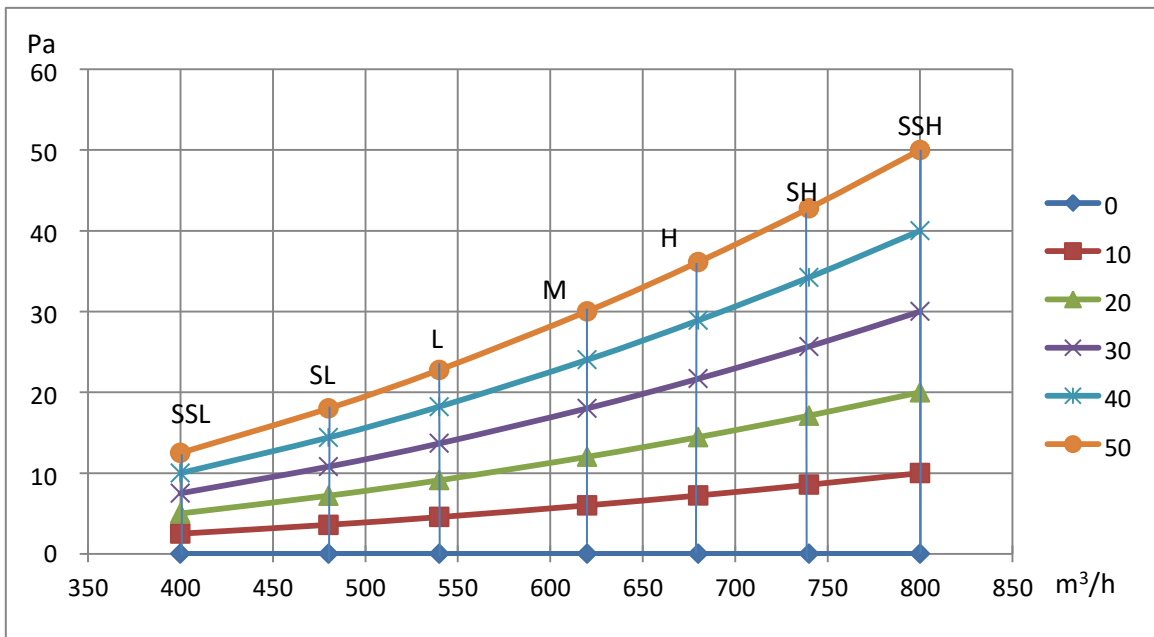


Figure 6.5: SDV5-56DA/DAP fan performance

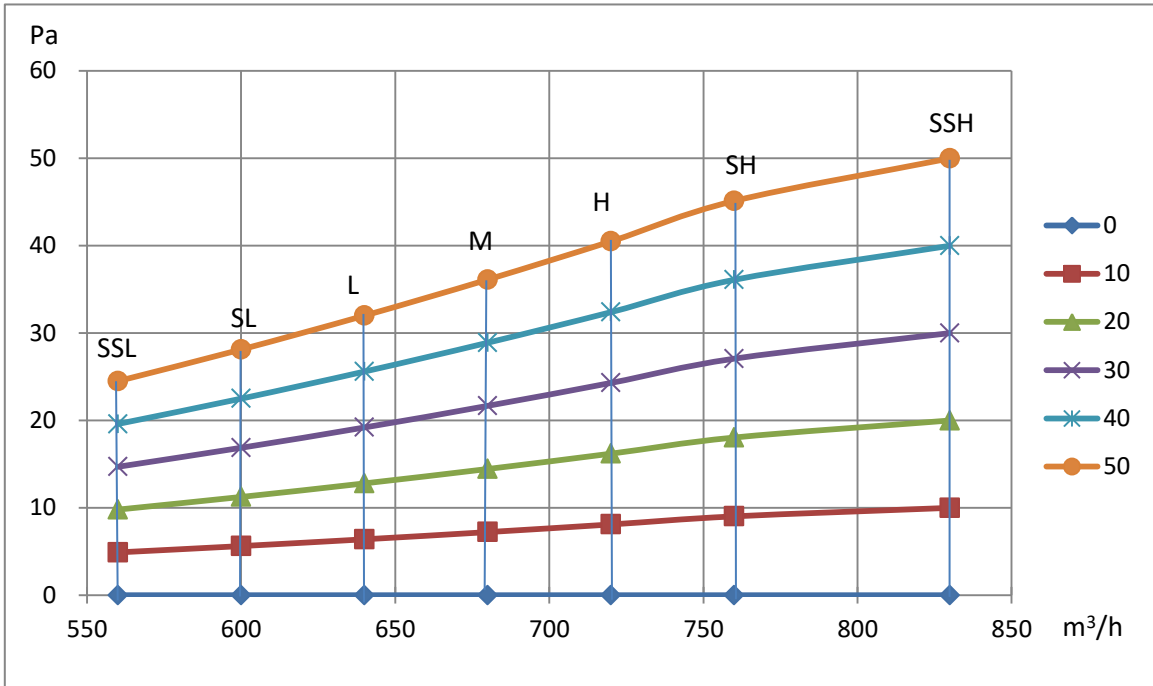


Figure 6.6: SDV5-71DA/DAP fan performance

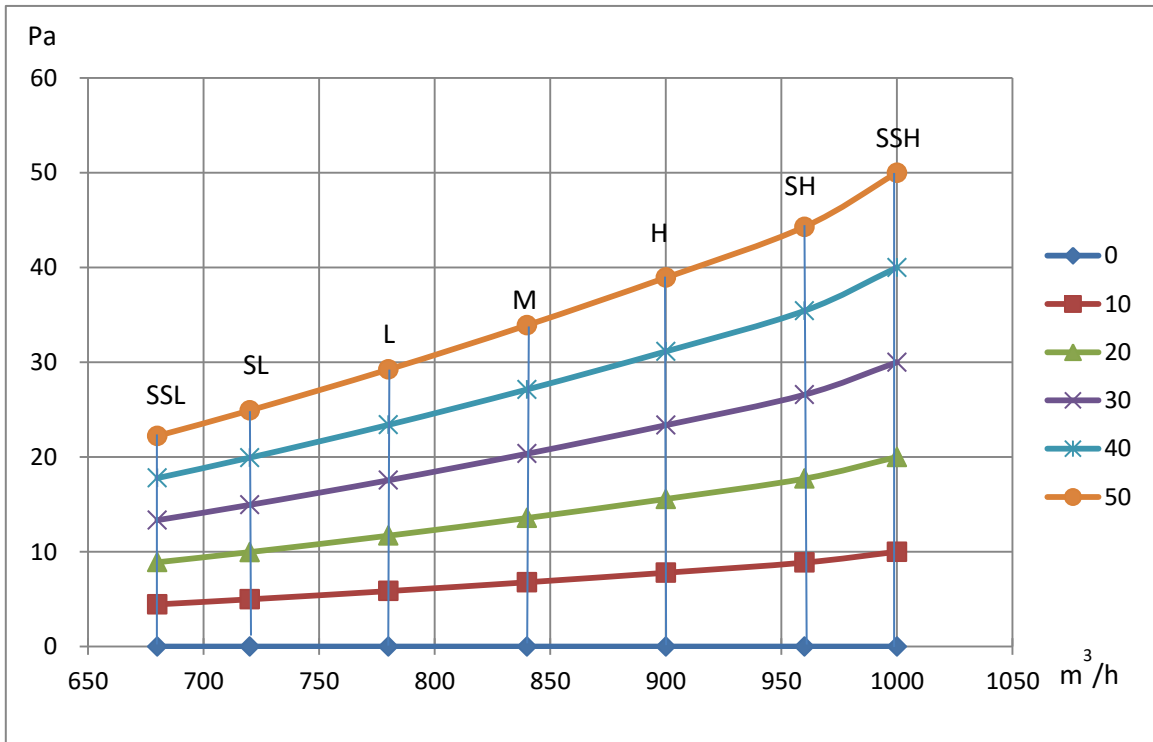


Figure 6.7: SDV5-80/90DA/DAP fan performance

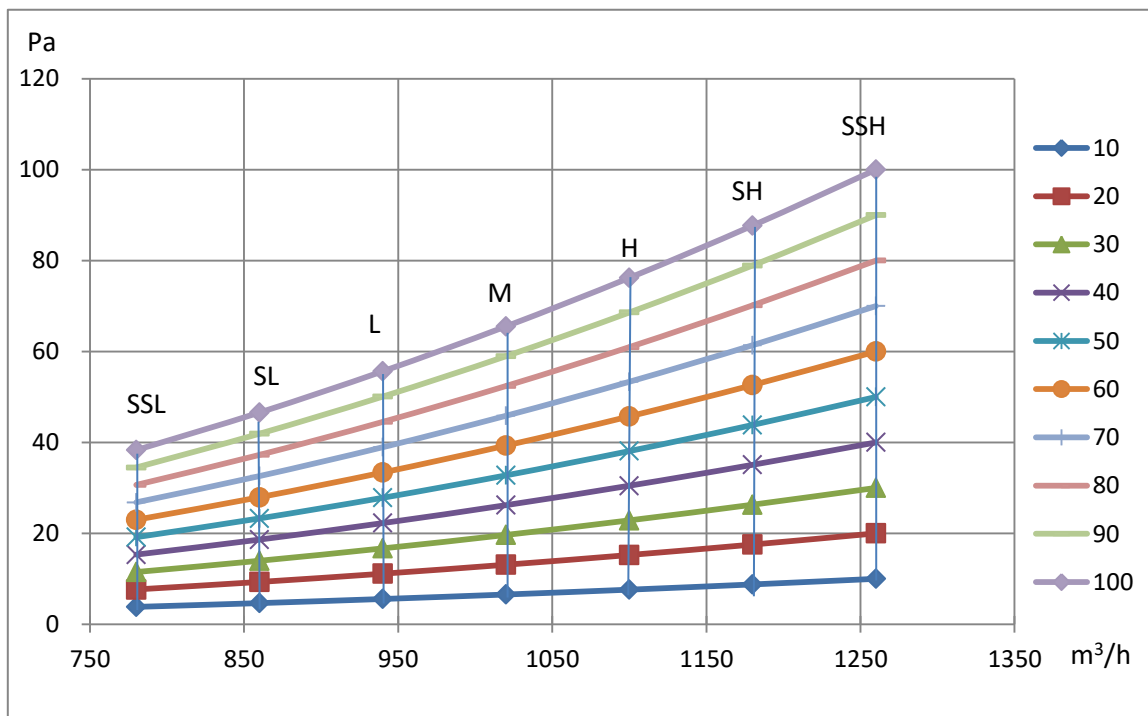


Figure 6.8: SDV5-112DA/DAP fan performance

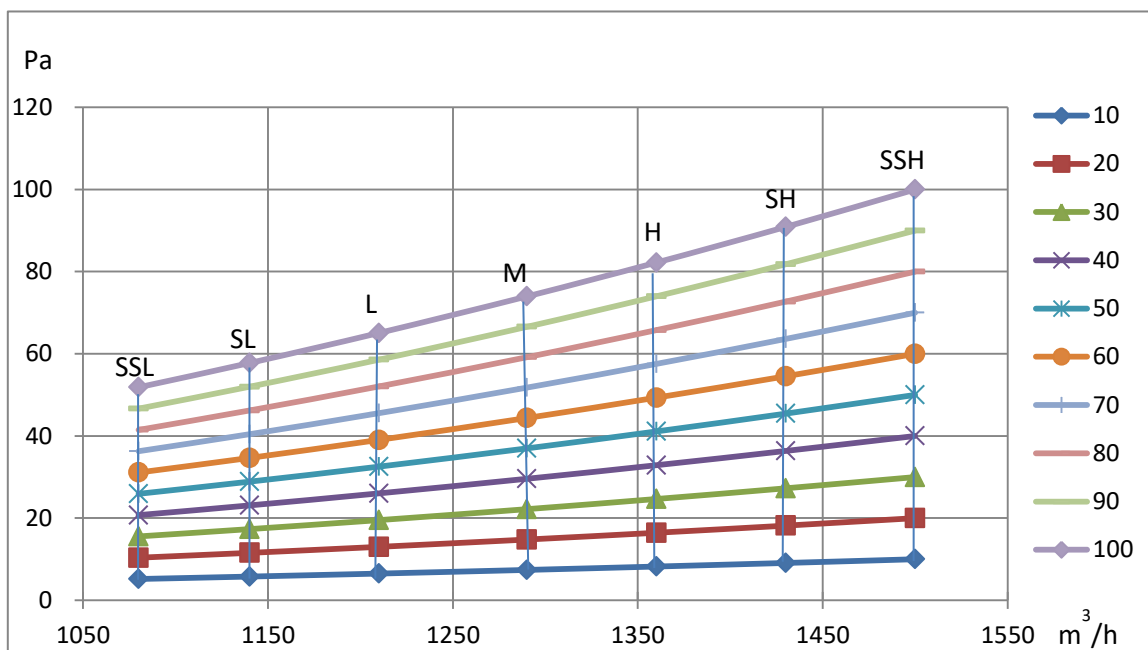


Figure 6.9: SDV5-140DA/DAP fan performance

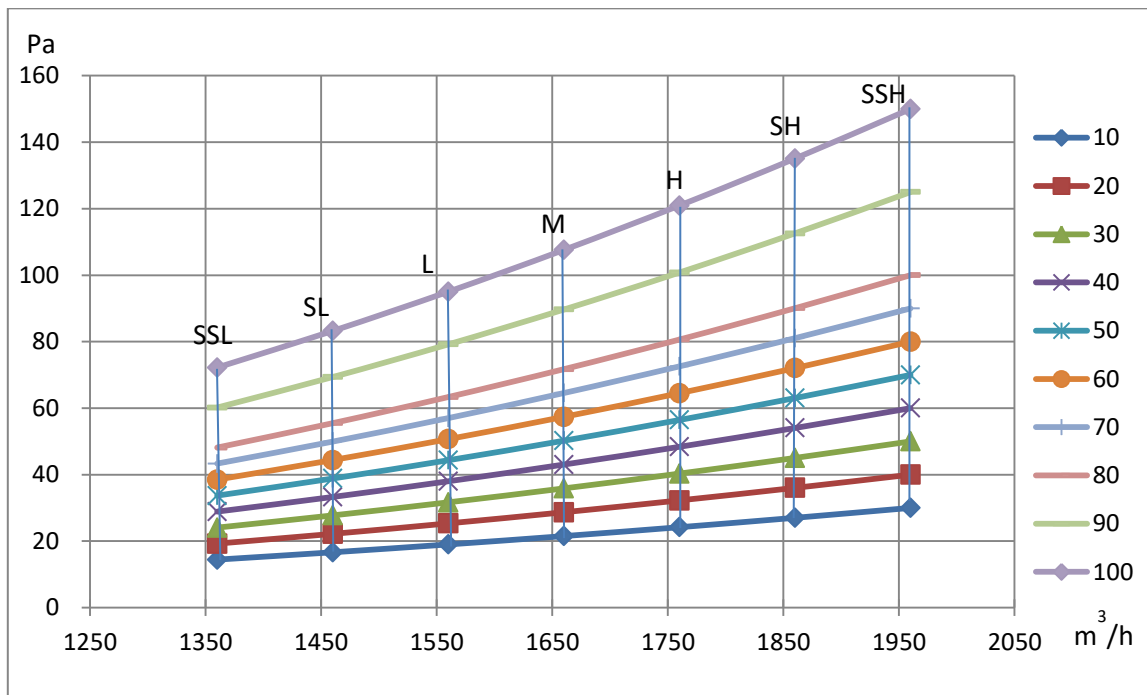


Table 6.1:ESP settings through DIP switch SW2

Capacity	ESP1	ESP2	ESP3	ESP4
1.7-7.1kW	10Pa	0Pa	30Pa	50Pa
8-11.2kW	20Pa	40Pa	70Pa	100Pa
14kW	40Pa	70Pa	100Pa	150Pa

Table 6.2:ESP settings through the new wired controller

Capacity	00	01	02	03	04	05	06	07	08	09
1.7-7.1kW	0Pa	10Pa	20Pa	30Pa	40Pa	50Pa	50Pa	50Pa	50Pa	50Pa
8-11.2kW	10Pa	20Pa	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa
14kW	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa	125Pa	150Pa

7.Capacity Tables

7.1 Cooling Capacity Table

Table 7.1: Medium Static Pressure Duct cooling capacity

Capacity (kW)	Outdoor air temperature (°CDB)	Indoor air temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1.7	10.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.2	1.3
	12.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.2	1.2
	14.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.2	1.2
	16.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.2	1.2
	18.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.2	1.2
	20.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.1	1.2
	21.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	2.0	1.3	2.1	1.2
	23.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.9	1.2	2.1	1.2
	25.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.9	1.2	2.0	1.2
	27.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.9	1.2	2.0	1.2
	29.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.9	1.2	1.9	1.2
	31.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.9	1.2	1.9	1.2
	33.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.9	1.2	1.9	1.2
	35.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.8	1.2	1.9	1.2
	37.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.8	1.3	1.8	1.2	1.8	1.2
	39.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.7	1.2	1.8	1.2	1.8	1.2
42.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.7	1.2	1.8	1.2	1.8	1.2	
44.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.7	1.2	1.8	1.2	1.8	1.2	
46.0	1.2	1.1	1.4	1.2	1.6	1.2	1.7	1.2	1.7	1.2	1.8	1.2	1.8	1.2	
2.2	10.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.9	1.7
	12.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	14.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	16.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	18.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	20.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.7	1.5
	21.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.7	1.5
	23.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.7	1.5
	25.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.6	1.5
	27.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.6	1.5
	29.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.5	1.5
	31.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.5	1.5
	33.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.4	1.5
	35.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.3	1.5	2.4	1.5
	37.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.3	1.5	2.3	1.5
	39.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5
42.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	
44.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	
46.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	

Abbreviations:

TC: Total capacity

SC: Sensible capacity

Notes:

1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.1: Medium Static Pressure Duct cooling capacity (continued)

Capacity (kW)	Outdoor air temperature (°C DB)	Indoor air temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
2.8	10.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.7	2.2
	12.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.6	2.1
	14.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.6	2.1
	16.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.5	2.1
	18.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.5	2.1
	20.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.4	2.1
	21.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.4	2.1
	23.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.1	3.4	2.1
	25.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.2	2.1	3.3	2.0
	27.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.2	2.1	3.3	2.0
	29.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.1	2.0	3.2	1.9
	31.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.1	2.0	3.2	1.9
	33.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.1	2.0	3.1	1.9
	35.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.0	3.1	1.9
	37.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.0	3.0	1.8
	39.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9
	42.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9
44.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9	
46.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9	
3.6	10.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.7	2.7
	12.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.7	2.7
	14.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.6	2.6
	16.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.5	2.6
	18.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.5	2.6
	20.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.4	2.5
	21.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.4	2.5
	23.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.1	2.5	4.3	2.4
	25.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.1	2.5	4.2	2.4
	27.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.0	2.4	4.2	2.4
	29.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.0	2.4	4.1	2.4
	31.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.2	2.8	4.1	2.4
	33.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.2	2.8	3.9	2.3
	35.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.2	2.8	3.9	2.3
	37.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.9	2.3
	39.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3
	42.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3
44.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3	
46.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3	

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.1: Medium Static Pressure Duct cooling capacity (continued)

Capacity (kW)	Outdoor air temperature (°C DB)	Indoor air temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
4.5	10.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.9	3.3
	12.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.9	3.3
	14.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.8	3.3
	16.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.6	3.2
	18.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.7	3.3
	20.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.7	3.3
	21.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.6	3.3
	23.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.5	3.2
	25.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.2	3.3	5.4	3.2
	27.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.1	3.2	5.2	3.0
	29.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.1	3.2	5.2	3.0
	31.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.0	3.1	5.1	2.9
	33.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	4.9	3.1	5.1	2.9
	35.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	4.8	3.0	5.0	2.9
	37.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	4.8	3.1	4.9	2.8
	39.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8
	42.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8
44.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8	
46.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8	
5.6	10.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.3	3.9
	12.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.2	3.8
	14.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.1	3.8
	16.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.0	3.7
	18.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.8	3.7
	20.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.7	3.6
	21.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.6	3.6
	23.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.6	3.5
	25.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.5	3.5
	27.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.4	3.8	6.4	3.5
	29.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.3	3.8	6.4	3.6
	31.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.2	3.7	6.2	3.4
	33.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.2	3.7	6.2	3.4
	35.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.0	3.6	6.0	3.4
	37.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	5.9	3.5	6.0	3.4
	39.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4
	42.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4
44.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4	
46.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4	

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.1: Medium Static Pressure Duct cooling capacity (continued)

Capacity (kW)	Outdoor air temperature (°C DB)	Indoor air temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
7.1	10.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	9.2	5.0
	12.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	9.1	4.9
	14.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	9.0	4.9
	16.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.9	4.8
	18.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.7	4.7
	20.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.5	4.6
	21.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.4	4.5
	23.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.3	4.5
	25.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.2	4.4
	27.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.1	4.7	8.2	4.5
	29.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.0	4.7	8.1	4.5
	31.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	7.9	4.6	7.8	4.3
	33.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	7.8	4.6	7.8	4.3
	35.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	7.6	4.5	7.7	4.2
	37.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.4	4.8	7.5	4.5	7.6	4.3
	39.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3
	42.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3
44.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3	
46.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3	
8.0	10.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	10.4	5.6
	12.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	10.2	5.5
	14.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	10.2	5.5
	16.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	10.0	5.4
	18.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	9.8	5.3
	20.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	9.6	5.2
	21.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	9.4	5.1
	23.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	9.4	5.1
	25.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.4	5.5	9.3	5.0
	27.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.4	9.1	5.3	9.2	5.1
	29.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.5	9.0	5.3	9.1	5.0
	31.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.5	8.9	5.2	8.8	4.8
	33.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.5	8.8	5.2	8.8	4.8
	35.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.4	5.5	8.6	5.1	8.6	4.8
	37.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.3	5.4	8.4	5.0	8.6	4.9
	39.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.1	5.3	8.3	5.0	8.6	4.9
	42.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.1	5.3	8.3	5.0	8.6	4.9
44.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.1	5.3	8.3	5.0	8.6	4.9	
46.0	5.5	4.4	6.6	4.9	7.5	5.3	8.0	5.5	8.1	5.3	8.3	5.0	8.6	4.9	

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.1: Medium Static Pressure Duct cooling capacity (continued)

Capacity (kW)	Outdoor air temperature (°C DB)	Indoor air temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
9.0	10.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.7	6.6
	12.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.5	6.5
	14.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.4	6.4
	16.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.3	6.3
	18.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.0	6.3
	20.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.8	6.2
	21.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.6	6.1
	23.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.5	6.0
	25.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.4	6.0
	27.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.3	6.4	10.4	5.9
	29.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.1	6.2	10.3	5.8
	31.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.0	6.2	9.9	5.7
	33.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	9.9	6.1	9.9	5.7
	35.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.5	6.5	9.6	6.0	9.7	5.7
	37.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.3	6.3	9.5	5.9	9.6	5.8
	39.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8
	42.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8
44.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8	
46.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8	
11.2	10.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	15.5	9.0
	12.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.4	8.4
	14.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.2	8.2
	16.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.1	8.2
	18.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.0	8.1
	20.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	13.9	8.1
	21.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	13.8	8.0
	23.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.1	8.1	13.7	7.9
	25.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.0	8.1	13.6	7.9
	27.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.9	8.0	13.4	7.8
	29.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.8	7.9	13.3	7.9
	31.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.7	7.8	12.8	7.5
	33.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.5	7.8	12.5	7.4
	35.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.8	8.0	12.4	7.7	12.3	7.3
	37.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.6	7.9	12.3	7.6	12.1	7.1
	39.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.4	7.8	12.2	7.6	11.9	7.1
	42.0	7.7	6.6	9.1	7.2	10.4	7.8	11.2	8.0	11.4	7.8	11.6	7.2	12.0	7.2
44.0	7.7	6.6	9.1	7.2	10.4	7.8	11.2	8.0	11.4	7.8	11.6	7.2	12.0	7.2	
46.0	7.7	6.6	9.1	7.2	10.4	7.8	11.2	8.0	11.4	7.8	11.6	7.2	12.0	7.2	

Abbreviations:
 TC: Total capacity
 SC: Sensible capacity

Notes:
 1. Shaded cells indicate rating condition.

Table 7.1: Medium Static Pressure Duct cooling capacity (continued)

Capacity (kW)	Outdoor air temperature (°C DB)	Indoor air temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
14.0	10.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	18.2	10.2
	12.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.9	10.0
	14.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.8	10.0
	16.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.5	9.8
	18.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.1	9.6
	20.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	16.8	9.4
	21.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	16.5	9.3
	23.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.4	10.2	16.4	9.2
	25.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.2	10.1	16.2	9.1
	27.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.1	10.0	16.1	9.2
	29.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.0	9.9	16.0	9.1
	31.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	15.8	9.8	15.4	8.8
	33.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	15.7	9.7	15.4	8.8
	35.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.7	9.7	15.1	9.4	15.1	8.8
	37.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.6	9.6	15.1	9.4	15.0	8.7
	39.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8
42.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8	
44.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8	
46.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8	

Abbreviations:

TC: Total capacity

SC: Sensible capacity

Notes:

1. Shaded cells indicate rating condition.

7.2 Heating Capacity Table

Table 7.2: Medium Static Pressure Duct heating capacity (continued)

Capacity (kW)	Outdoor air temperature(°C)		Indoor air temperature (°C DB)					
			16	18	20	21	22	24
	WB	DB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
1.7	-20	-19.8	1.24	1.24	1.24	1.24	1.24	1.24
	-19	-18.8	1.32	1.32	1.32	1.32	1.32	1.32
	-17	-16.7	1.39	1.39	1.39	1.39	1.39	1.39
	-15	-14.7	1.43	1.43	1.43	1.43	1.43	1.43
	-13.00	-12.60	1.51	1.51	1.51	1.51	1.51	1.51
	-11.00	-10.50	1.54	1.57	1.57	1.57	1.57	1.57
	-10.00	-9.50	1.61	1.61	1.61	1.61	1.61	1.61
	-9.10	-8.50	1.65	1.65	1.65	1.65	1.65	1.65
	-7.60	-7.00	1.68	1.68	1.68	1.68	1.68	1.68
	-5.60	-5.00	1.73	1.73	1.73	1.73	1.73	1.73
	-3.70	-3.00	1.83	1.83	1.83	1.83	1.83	1.83
	-0.70	0.00	1.95	1.95	1.95	1.95	1.95	1.84
	2.20	3.00	2.06	2.06	2.06	2.06	2.02	1.84
	4.10	5.00	2.13	2.13	2.13	2.13	2.02	1.84
	6.00	7.00	2.20	2.20	2.20	2.13	2.02	1.84
	7.90	9.00	2.27	2.27	2.20	2.13	2.02	1.84
	9.80	11.00	2.34	2.34	2.20	2.13	2.02	1.84
11.80	13.00	2.42	2.38	2.20	2.13	2.02	1.84	
13.70	15.00	2.49	2.38	2.20	2.13	2.02	1.84	
2.2	-20	-19.8	1.46	1.46	1.46	1.46	1.46	1.46
	-19	-18.8	1.56	1.56	1.56	1.56	1.56	1.56
	-17	-16.7	1.64	1.64	1.64	1.64	1.64	1.64
	-15	-14.7	1.69	1.69	1.69	1.69	1.69	1.69
	-13.00	-12.60	1.79	1.79	1.79	1.79	1.79	1.79
	-11.00	-10.50	1.82	1.85	1.85	1.85	1.85	1.85
	-10.00	-9.50	1.90	1.90	1.90	1.90	1.90	1.90
	-9.10	-8.50	1.95	1.95	1.95	1.95	1.95	1.95
	-7.60	-7.00	1.98	1.98	1.98	1.98	1.98	1.98
	-5.60	-5.00	2.05	2.05	2.05	2.05	2.05	2.05
	-3.70	-3.00	2.16	2.16	2.16	2.16	2.16	2.16
	-0.70	0.00	2.31	2.31	2.31	2.31	2.31	2.18
	2.20	3.00	2.44	2.44	2.44	2.44	2.39	2.18
	4.10	5.00	2.52	2.52	2.52	2.52	2.39	2.18
	6.00	7.00	2.60	2.60	2.60	2.52	2.39	2.18
	7.90	9.00	2.68	2.68	2.60	2.52	2.39	2.18
	9.80	11.00	2.76	2.76	2.60	2.52	2.39	2.18
11.80	13.00	2.86	2.81	2.60	2.52	2.39	2.18	
13.70	15.00	2.94	2.81	2.60	2.52	2.39	2.18	

Abbreviations:

TC: Total capacity

Notes:

1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.2: Medium Static Pressure Duct heating capacity (continued)

Capacity (kW)	Outdoor air temperature(°C)		Indoor air temperature (°C DB)					
			16	18	20	21	22	24
			TC	TC	TC	TC	TC	TC
	WB	DB	kW	kW	kW	kW	kW	kW
2.8	-20	-19.8	1.79	1.79	1.79	1.79	1.79	1.79
	-19	-18.8	1.92	1.92	1.92	1.92	1.92	1.92
	-17	-16.7	2.02	2.02	2.02	2.02	2.02	2.02
	-15	-14.7	2.02	2.02	2.02	2.02	2.02	2.02
	-13.00	-12.60	2.14	2.14	2.14	2.14	2.14	2.14
	-11.00	-10.50	2.24	2.24	2.24	2.24	2.24	2.24
	-10.00	-9.50	2.34	2.34	2.34	2.34	2.34	2.34
	-9.10	-8.50	2.40	2.40	2.40	2.40	2.40	2.40
	-7.60	-7.00	2.43	2.43	2.43	2.43	2.43	2.43
	-5.60	-5.00	2.53	2.53	2.53	2.53	2.53	2.53
	-3.70	-3.00	2.66	2.66	2.66	2.66	2.66	2.66
	-0.70	0.00	2.85	2.85	2.85	2.85	2.85	2.69
	2.20	3.00	3.01	3.01	3.01	3.01	2.94	2.69
	4.10	5.00	3.10	3.10	3.10	3.10	2.94	2.69
	6.00	7.00	3.20	3.20	3.20	3.10	2.94	2.69
	7.90	9.00	3.30	3.30	3.20	3.10	2.94	2.69
	9.80	11.00	3.39	3.39	3.20	3.10	2.94	2.69
11.80	13.00	3.52	3.46	3.20	3.10	2.94	2.69	
13.70	15.00	3.62	3.46	3.20	3.10	2.94	2.69	
3.6	-20	-19.8	2.24	2.24	2.24	2.24	2.24	2.24
	-19	-18.8	2.40	2.40	2.40	2.40	2.40	2.40
	-17	-16.7	2.52	2.52	2.52	2.52	2.52	2.52
	-15	-14.7	2.60	2.60	2.60	2.60	2.60	2.60
	-13.00	-12.60	2.68	2.68	2.68	2.68	2.68	2.68
	-11.00	-10.50	2.80	2.80	2.80	2.80	2.80	2.80
	-10.00	-9.50	2.92	2.92	2.92	2.92	2.92	2.92
	-9.10	-8.50	3.00	3.00	3.00	3.00	3.00	3.00
	-7.60	-7.00	3.04	3.04	3.04	3.04	3.04	3.04
	-5.60	-5.00	3.16	3.16	3.16	3.16	3.16	3.16
	-3.70	-3.00	3.32	3.32	3.32	3.32	3.32	3.32
	-0.70	0.00	3.56	3.56	3.56	3.56	3.56	3.36
	2.20	3.00	3.76	3.76	3.76	3.76	3.68	3.36
	4.10	5.00	3.88	3.88	3.88	3.88	3.68	3.36
	6.00	7.00	4.00	4.00	4.00	3.88	3.68	3.36
	7.90	9.00	4.12	4.12	4.00	3.88	3.68	3.36
	9.80	11.00	4.24	4.24	4.00	3.88	3.68	3.36
11.80	13.00	4.40	4.32	4.00	3.88	3.68	3.36	
13.70	15.00	4.52	4.32	4.00	3.88	3.68	3.36	

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.2: Medium Static Pressure Duct heating capacity (continued)

Capacity (kW)	Outdoor air temperature(°C)		Indoor air temperature (°C DB)					
			16	18	20	21	22	24
			TC	TC	TC	TC	TC	TC
	WB	DB	kW	kW	kW	kW	kW	kW
4.5	-20	-19.8	2.80	2.80	2.80	2.80	2.80	2.80
	-19	-18.8	3.00	3.00	3.00	3.00	3.00	3.00
	-17	-16.7	3.15	3.15	3.15	3.15	3.15	3.15
	-15	-14.7	3.25	3.25	3.25	3.25	3.25	3.25
	-13.00	-12.60	3.35	3.35	3.35	3.35	3.35	3.35
	-11.00	-10.50	3.50	3.50	3.50	3.50	3.50	3.50
	-10.00	-9.50	3.65	3.65	3.65	3.65	3.65	3.65
	-9.10	-8.50	3.75	3.75	3.75	3.75	3.75	3.75
	-7.60	-7.00	3.80	3.80	3.80	3.80	3.80	3.80
	-5.60	-5.00	3.95	3.95	3.95	3.95	3.95	3.95
	-3.70	-3.00	4.15	4.15	4.15	4.15	4.15	4.15
	-0.70	0.00	4.45	4.45	4.45	4.45	4.45	4.20
	2.20	3.00	4.70	4.70	4.70	4.70	4.60	4.20
	4.10	5.00	4.85	4.85	4.85	4.85	4.60	4.20
	6.00	7.00	5.00	5.00	5.00	4.85	4.60	4.20
	7.90	9.00	5.15	5.15	5.00	4.85	4.60	4.20
	9.80	11.00	5.30	5.30	5.00	4.85	4.60	4.20
11.80	13.00	5.50	5.40	5.00	4.85	4.60	4.20	
13.70	15.00	5.65	5.40	5.00	4.85	4.60	4.20	
5.6	-20	-19.8	3.53	3.53	3.53	3.53	3.53	3.53
	-19	-18.8	3.78	3.78	3.78	3.78	3.78	3.78
	-17	-16.7	3.97	3.97	3.97	3.97	3.97	3.97
	-15	-14.7	4.10	4.10	4.10	4.10	4.10	4.10
	-13.00	-12.60	4.22	4.22	4.22	4.22	4.22	4.22
	-11.00	-10.50	4.41	4.41	4.41	4.41	4.41	4.41
	-10.00	-9.50	4.60	4.60	4.60	4.60	4.60	4.60
	-9.10	-8.50	4.73	4.73	4.73	4.73	4.73	4.73
	-7.60	-7.00	4.79	4.79	4.79	4.79	4.79	4.79
	-5.60	-5.00	4.98	4.98	4.98	4.98	4.98	4.98
	-3.70	-3.00	5.23	5.23	5.23	5.23	5.23	5.23
	-0.70	0.00	5.61	5.61	5.61	5.61	5.61	5.29
	2.20	3.00	5.92	5.92	5.92	5.92	5.8	5.29
	4.10	5.00	6.11	6.11	6.11	6.11	5.8	5.29
	6.00	7.00	6.30	6.30	6.30	6.11	5.8	5.29
	7.90	9.00	6.49	6.49	6.3	6.11	5.8	5.29
	9.80	11.00	6.68	6.68	6.3	6.11	5.8	5.29
11.80	13.00	6.93	6.8	6.3	6.11	5.8	5.29	
13.70	15.00	7.12	6.8	6.3	6.11	5.8	5.29	

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table continued on next page ...

Table 7.2: Medium Static Pressure Duct heating capacity (continued)

Capacity (kW)	Outdoor air temperature(°C)		Indoor air temperature (°C DB)					
			16	18	20	21	22	24
	WB	DB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
7.1	-20	-19.8	4.48	4.48	4.48	4.48	4.48	4.48
	-19	-18.8	4.80	4.80	4.80	4.80	4.80	4.80
	-17	-16.7	5.04	5.04	5.04	5.04	5.04	5.04
	-15	-14.7	5.20	5.20	5.20	5.20	5.20	5.20
	-13.00	-12.60	5.36	5.36	5.36	5.36	5.36	5.36
	-11.00	-10.50	5.60	5.60	5.60	5.60	5.60	5.60
	-10.00	-9.50	5.84	5.84	5.84	5.84	5.84	5.84
	-9.10	-8.50	6.00	6.00	6.00	6.00	6.00	6.00
	-7.60	-7.00	6.08	6.08	6.08	6.08	6.08	6.08
	-5.60	-5.00	6.32	6.32	6.32	6.32	6.32	6.32
	-3.70	-3.00	6.64	6.64	6.64	6.64	6.64	6.64
	-0.70	0.00	7.12	7.12	7.12	7.12	7.12	6.72
	2.20	3.00	7.52	7.52	7.52	7.52	7.36	6.72
	4.10	5.00	7.76	7.76	7.76	7.76	7.36	6.72
	6.00	7.00	8.00	8.00	8.00	7.76	7.36	6.72
	7.90	9.00	8.24	8.24	8.00	7.76	7.36	6.72
	9.80	11.00	8.48	8.48	8.00	7.76	7.36	6.72
11.80	13.00	8.8	8.64	8.00	7.76	7.36	6.72	
13.70	15.00	9.04	8.64	8.00	7.76	7.36	6.72	
8.0	-20	-19.8	5.04	5.04	5.04	5.04	5.04	5.04
	-19	-18.8	5.40	5.40	5.40	5.40	5.40	5.40
	-17	-16.7	5.67	5.67	5.67	5.67	5.67	5.67
	-15	-14.7	5.85	5.85	5.85	5.85	5.85	5.85
	-13.00	-12.60	6.03	6.03	6.03	6.03	6.03	6.03
	-11.00	-10.50	6.30	6.30	6.30	6.30	6.30	6.30
	-10.00	-9.50	6.57	6.57	6.57	6.57	6.57	6.57
	-9.10	-8.50	6.75	6.75	6.75	6.75	6.75	6.75
	-7.60	-7.00	6.84	6.84	6.84	6.84	6.84	6.84
	-5.60	-5.00	7.11	7.11	7.11	7.11	7.11	7.11
	-3.70	-3.00	7.47	7.47	7.47	7.47	7.47	7.47
	-0.70	0.00	8.01	8.01	8.01	8.01	8.01	7.56
	2.20	3.00	8.46	8.46	8.46	8.46	8.28	7.56
	4.10	5.00	8.73	8.73	8.73	8.73	8.28	7.56
	6.00	7.00	9.00	9.00	9.00	8.73	8.28	7.56
	7.90	9.00	9.27	9.27	9.00	8.73	8.28	7.56
	9.80	11.00	9.54	9.54	9.00	8.73	8.28	7.56
11.80	13.00	9.9	9.72	9.00	8.73	8.28	7.56	
13.70	15.00	10.17	9.72	9.00	8.73	8.28	7.56	

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table 7.2: Medium Static Pressure Duct heating capacity (continued)

Capacity (kW)	Outdoor air temperature(°C)		Indoor air temperature (°C DB)					
			16	18	20	21	22	24
			TC	TC	TC	TC	TC	TC
	WB	DB	kW	kW	kW	kW	kW	kW
9.0	-20	-19.8	5.60	5.04	5.60	5.60	5.60	5.60
	-19	-18.8	6.00	5.40	6.00	6.00	6.00	6.00
	-17	-16.7	6.30	6.30	6.30	6.30	6.30	6.30
	-15	-14.7	6.50	6.50	6.50	6.50	6.50	6.50
	-13.00	-12.60	6.70	6.70	6.70	6.70	6.70	6.70
	-11.00	-10.50	7.00	7.00	7.00	7.00	7.00	7.00
	-10.00	-9.50	7.30	7.30	7.30	7.30	7.30	7.30
	-9.10	-8.50	7.50	7.50	7.50	7.50	7.50	7.50
	-7.60	-7.00	7.60	7.60	7.60	7.60	7.60	7.60
	-5.60	-5.00	7.90	7.90	7.90	7.90	7.90	7.90
	-3.70	-3.00	8.30	8.30	8.30	8.30	8.30	8.30
	-0.70	0.00	8.90	8.90	8.90	8.90	8.90	8.40
	2.20	3.00	9.40	9.40	9.40	9.40	9.20	8.40
	4.10	5.00	9.70	9.70	9.70	9.70	9.20	8.40
	6.00	7.00	10.0	10.0	10.0	9.70	9.20	8.40
	7.90	9.00	10.3	10.3	10.0	9.70	9.20	8.40
	9.80	11.00	10.6	10.6	10.0	9.70	9.20	8.40
11.80	13.00	11.0	10.8	10.0	9.70	9.20	8.40	
13.70	15.00	11.3	10.8	10.0	9.70	9.20	8.40	
11.2	-20	-19.8	7.00	7.00	7.00	7.00	7.00	7.00
	-19	-18.8	7.50	7.50	7.50	7.50	7.50	7.50
	-17	-16.7	7.88	7.88	7.88	7.88	7.88	7.88
	-15	-14.7	8.13	8.13	8.13	8.13	8.13	8.13
	-13.00	-12.60	8.38	8.38	8.38	8.38	8.38	8.38
	-11.00	-10.50	8.75	8.75	8.75	8.75	8.75	8.75
	-10.00	-9.50	9.13	9.13	9.13	9.13	9.13	9.13
	-9.10	-8.50	9.38	9.38	9.38	9.38	9.38	9.38
	-7.60	-7.00	9.50	9.50	9.50	9.50	9.50	9.50
	-5.60	-5.00	9.88	9.88	9.88	9.88	9.88	9.88
	-3.70	-3.00	10.38	10.38	10.38	10.38	10.38	10.38
	-0.70	0.00	11.13	11.13	11.13	11.13	11.13	10.5
	2.20	3.00	11.75	11.75	11.75	11.75	11.5	10.5
	4.10	5.00	12.13	12.13	12.13	12.13	11.5	10.5
	6.00	7.00	12.5	12.5	12.5	12.13	11.5	10.5
	7.90	9.00	12.88	12.88	12.5	12.13	11.5	10.5
	9.80	11.00	13.25	13.25	12.5	12.13	11.5	10.5
11.80	13.00	13.75	13.5	12.5	12.13	11.5	10.5	
13.70	15.00	14.13	13.5	12.5	12.13	11.5	10.5	

Abbreviations:
TC: Total capacity

Notes:
1. Shaded cells indicate rating condition.

Table 7.2: Medium Static Pressure Duct heating capacity (continued)

Capacity (kW)	Outdoor air temperature(°C)		Indoor air temperature (°C DB)					
			16	18	20	21	22	24
			TC	TC	TC	TC	TC	TC
	WB	DB	kW	kW	kW	kW	kW	kW
14.0	-20	-19.8	8.68	8.68	8.68	8.68	8.68	8.68
	-19	-18.8	9.30	9.30	9.30	9.30	9.30	9.30
	-17	-16.7	9.77	9.77	9.77	9.77	9.77	9.77
	-15	-14.7	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.4	10.4	10.4	10.4	10.4	10.4
	-11.00	-10.50	10.9	10.9	10.9	10.9	10.9	10.9
	-10.00	-9.50	11.3	11.3	11.3	11.3	11.3	11.3
	-9.10	-8.50	11.6	11.6	11.6	11.6	11.6	11.6
	-7.60	-7.00	11.8	11.8	11.8	11.8	11.8	11.8
	-5.60	-5.00	12.3	12.3	12.3	12.3	12.3	12.3
	-3.70	-3.00	12.9	12.9	12.9	12.9	12.9	12.9
	-0.70	0.00	13.8	13.8	13.8	13.8	13.8	13.0
	2.20	3.00	14.6	14.6	14.6	14.6	14.3	13.0
	4.10	5.00	15.0	15.0	15.0	15.0	14.3	13.0
	6.00	7.00	15.5	15.5	15.5	15.0	14.3	13.0
	7.90	9.00	16.0	16.0	15.5	15.0	14.3	13.0
	9.80	11.00	16.4	16.4	15.5	15.0	14.3	13.0
11.80	13.00	17.1	16.7	15.5	15.0	14.3	13.0	
13.70	15.00	17.5	16.7	15.5	15.0	14.3	13.0	

Abbreviations:

TC: Total capacity

Notes:

1. Shaded cells indicate rating condition.

8 Electrical Characteristics

Table 8.1: Medium Static Pressure Duct electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
SDV5-17DA/DAP	50	220-240	198	264	0.74	15	0.03	0.59
SDV5-22DA/DAP	50	220-240	198	264	0.74	15	0.03	0.59
SDV5-28DA/DAP	50	220-240	198	264	0.74	15	0.03	0.59
SDV5-36DA/DAP	50	220-240	198	264	0.77	15	0.03	0.62
SDV5-45DA/DAP	50	220-240	198	264	1	15	0.03	0.80
SDV5-56DA/DAP	50	220-240	198	264	1	15	0.03	0.80
SDV5-71DA/DAP	50	220-240	198	264	1.1	15	0.06	0.88
SDV5-80DA	50	220-240	198	264	1.3	15	0.15	1.04
SDV5-90DA	50	220-240	198	264	1.3	15	0.15	1.04
SDV5-112DA	50	220-240	198	264	1.5	15	0.15	1.20
SDV5-140DA	50	220-240	198	264	2.6	15	0.24	2.08

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

9 Sound Levels

9.1 Overall

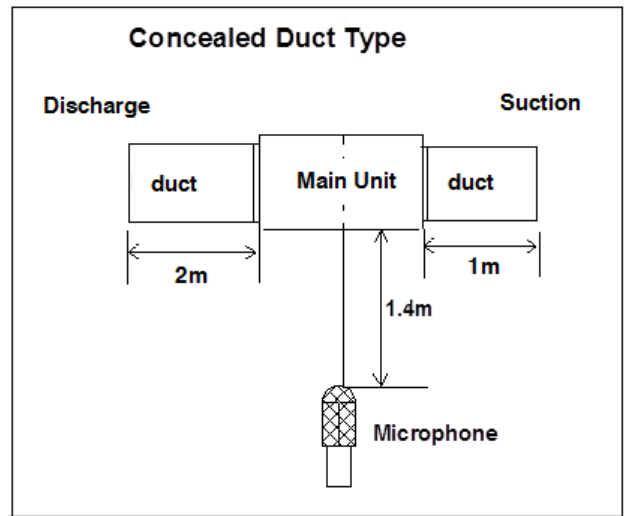
Table 9.1: Medium Static Pressure Duct sound pressure levels¹

Model name	Sound pressure levelsdB(A)						
	SSH	SH	H	M	L	SL	SSL
SDV5-17DA/DAP	32	31	29	28	26	25	23
SDV5-22DA/DAP	32	31	29	28	26	25	23
SDV5-28DA/DAP	32	31	29	28	26	25	23
SDV5-36DA/DAP	33	32	31	30	28	27	25
SDV5-45DA/DAP	36	34	32	31	29	27	25
SDV5-56DA/DAP	36	34	33	32	30	29	28
SDV5-71DA/DAP	37	35	33	32	30	29	28
SDV5-80DA	37	35	34	33	31	29	28
SDV5-90DA	37	35	34	33	31	29	28
SDV5-112DA	39	38	38	37	35	34	33
SDV5-140DA	41	39	38	37	36	35	33

Notes:

1. Sound pressure levels are measured 1.4m below the unit in a semi-anechoic chamber. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Figure 9.1: Medium Static Pressure Duct sound pressure level measurement



9.2 Octave Band Levels

Figure 9.2: SDV5-17-28DA/DAP octave band levels

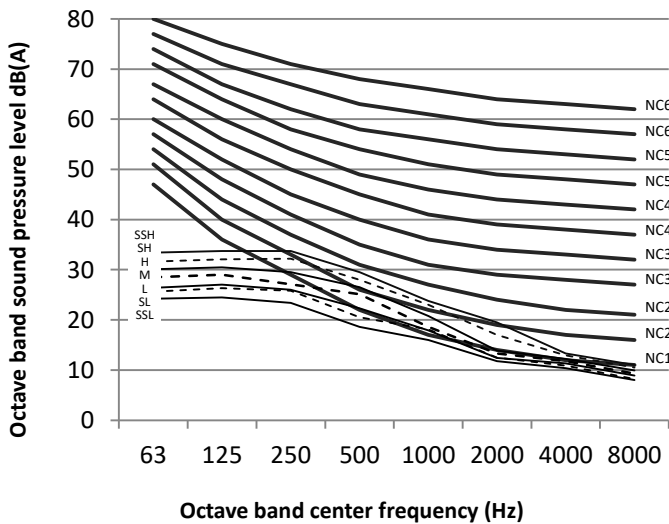


Figure 9.3: SDV5-36DA/DAP octave band levels

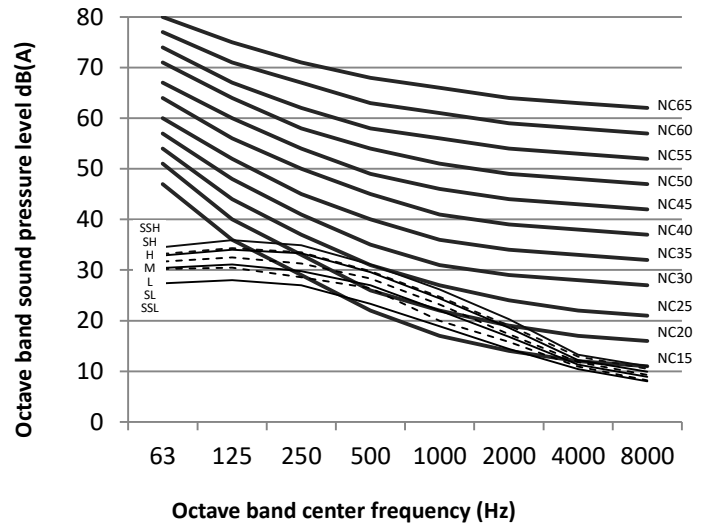


Figure 9.4: SDV5-45DA/DAP octave band levels

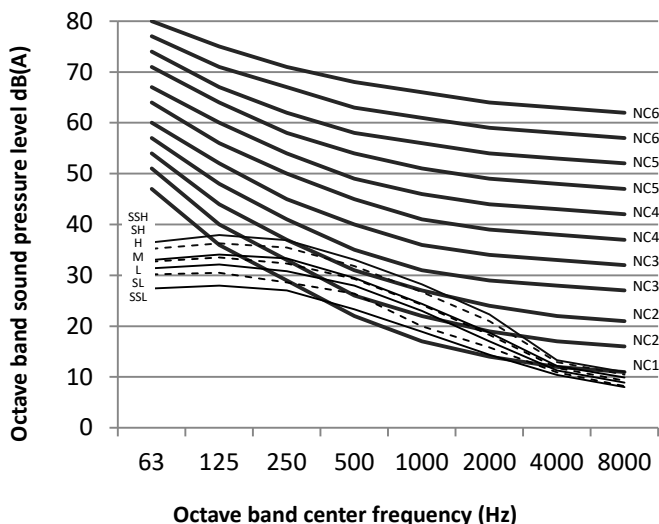


Figure 9.5: SDV5-56DA/DAP octave band levels

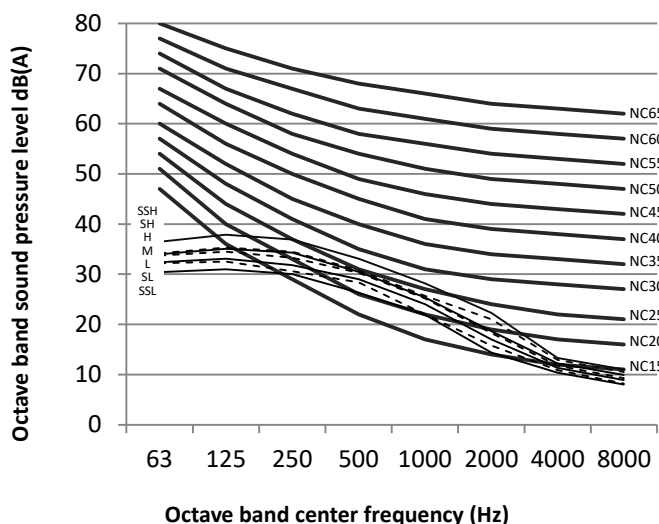


Figure 9.6: SDV5-71DA/DAP octave band levels

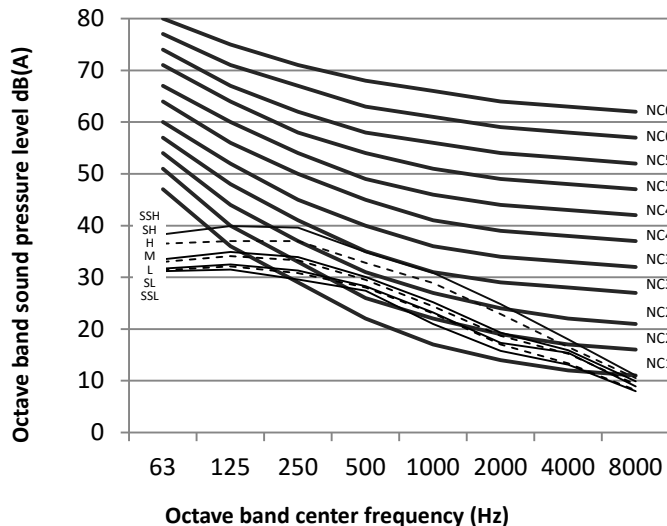


Figure 9.7: SDV5-80/90DA octave band levels

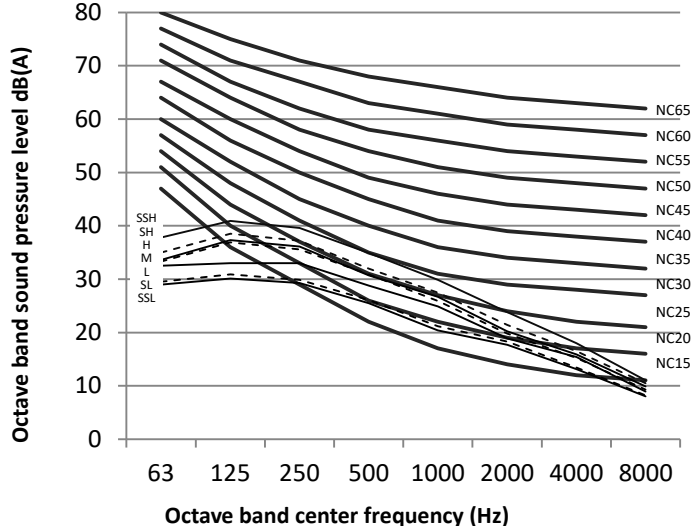


Figure 9.8: SDV5-112DA octave band levels

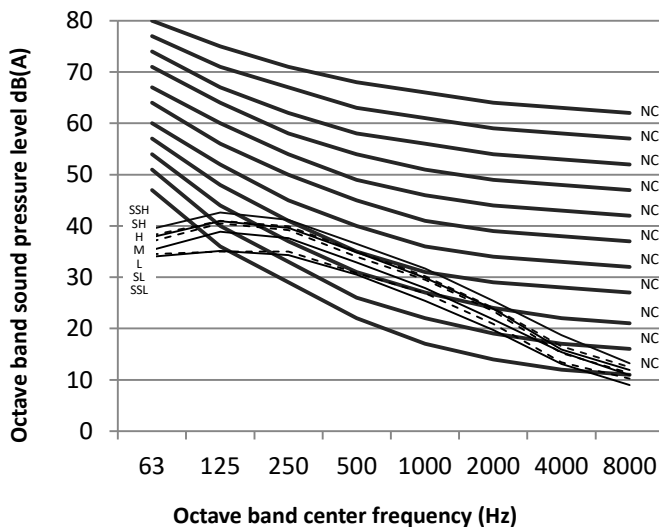
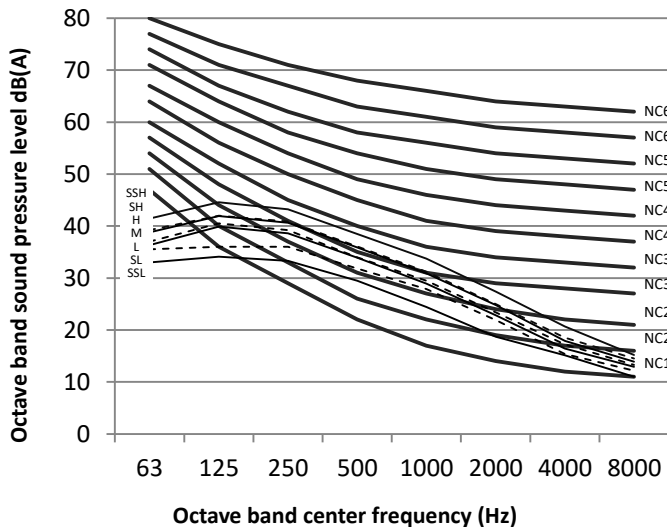


Figure 9.9: SDV5-140DA octave band levels





FULL DC INVERTER SYSTEMS

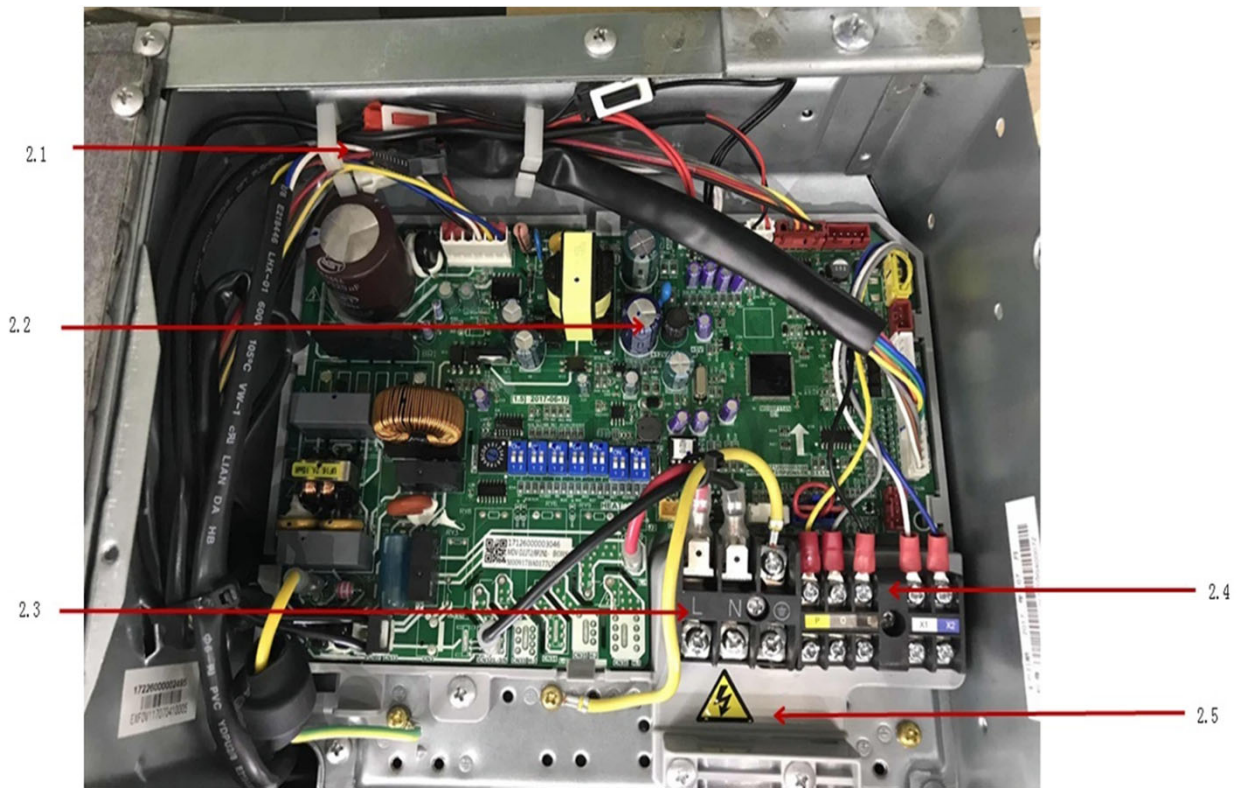
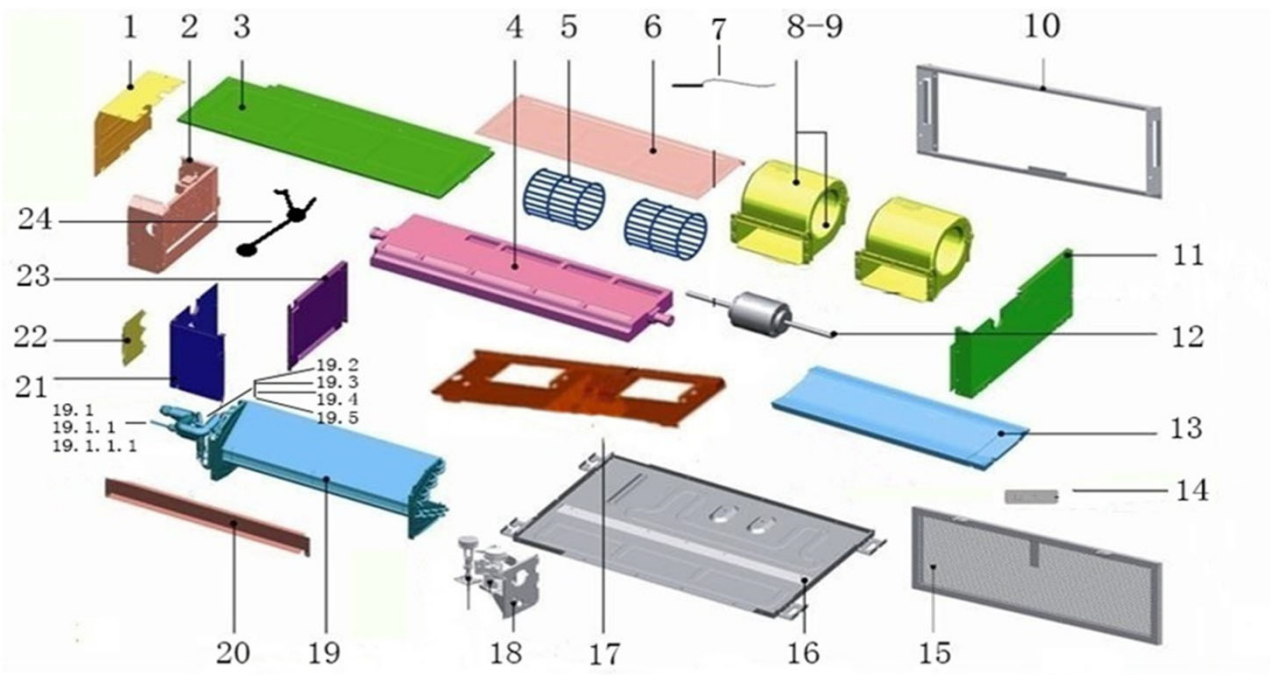
PARTS GUIDE

DUCT UNITS SDV5-22-140DA

COMMERCIAL AIR CONDITIONERS SDV5



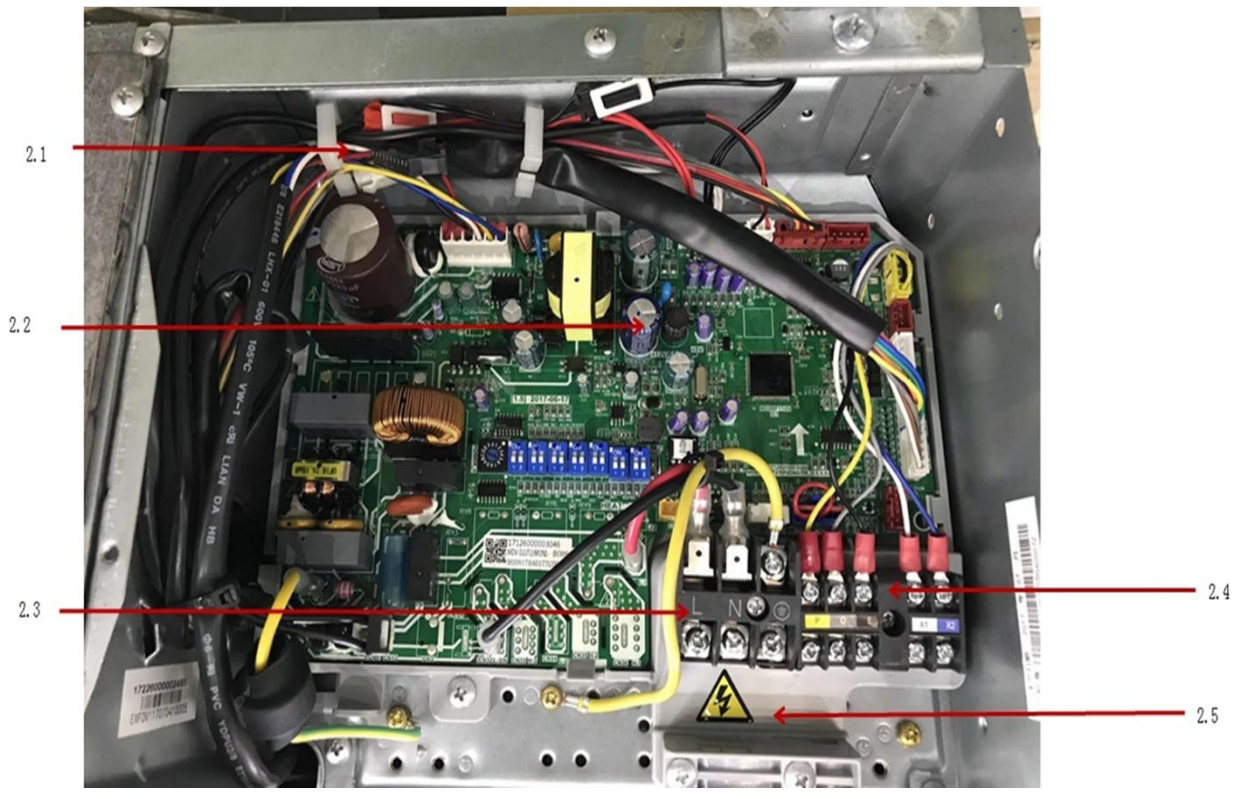
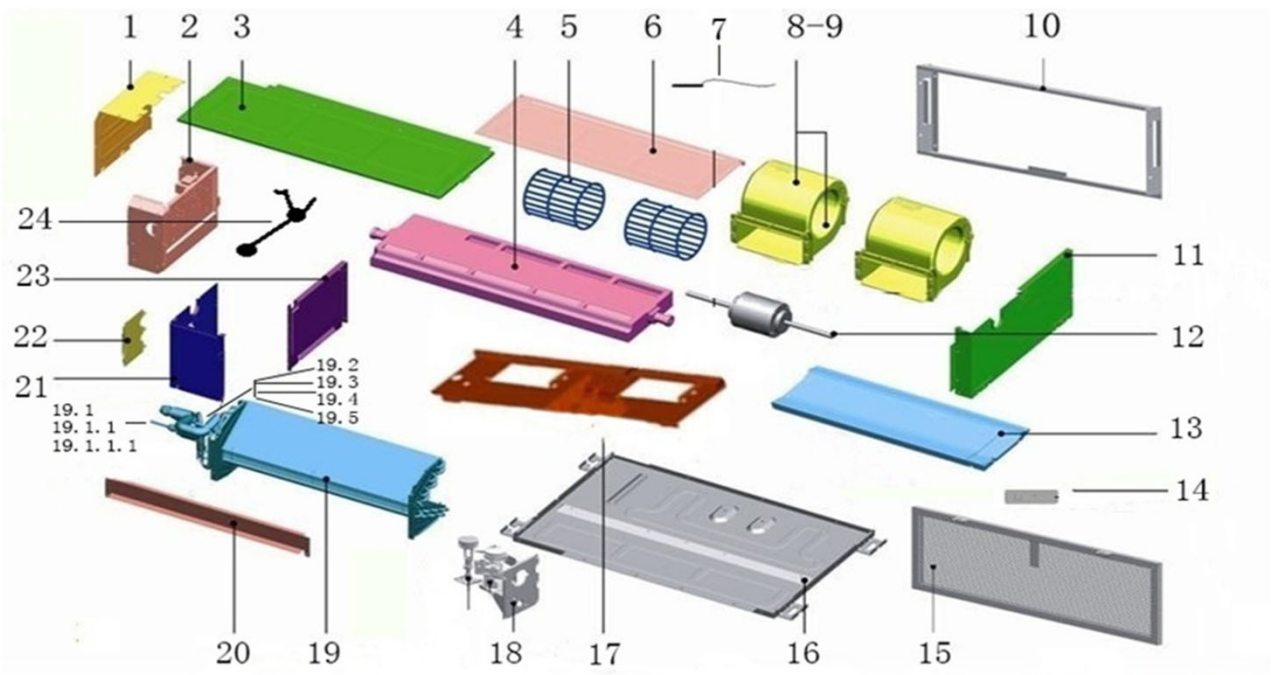
SDV5-22DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-22DA DUCT UNIT					
1	E-Part box cover	12226000003073		1	
2	E-part box assembly	17226000002634		1	
2.1	Electric control box	12223000003736		1	
2.2	Indoor unit main control board	17126000003408		1	
2.3	Wire joint	17400401000188		1	
2.4	Wire joint	17400401001516		1	
2.5	PCB installation board	12126000001343		1	
3	Top cover subassembly	12223000001339		1	
4	Water collector assembly	12823000000024		1	
5	Centrifugal fan	12100103000684		2	
6	Rear cover subassembly	12223000001337		1	
8	top volute	12123000000026		2	
9	volute shell assembly	12126000000061		2	
10	Flange assembly	12223000001510		1	
11	Left clapboard subassembly	12223000001266		1	
12	Brushless DC Motor	11002015003381		1	
13	Base foam subassembly	12823000000021		1	
14	Display board assembly	17223000002836		1	
15	Air filter	12100204001196		1	
16	Base ass	12223000008489		1	
17	Front beam assembly	12226000003074		1	
18	Drain pump assembly	17400802000573		1	
19	Evaporator assembly	15826000002012		1	
19.1	Evaporator input pipe assembly	15426000000556		1	
19.1.1	Electronic expansion valve assembly	15426000000557		1	
19.2	Evaporator output pipe assembly	15126000002346		1	
19.3	Pipe temperature sensor	11201007000070		1	
19.4	Pipr temp sensor assembly	11201007001600		1	
20	Front beam assembly	12223000001540		1	
21	Right clapboard subassembly	12223000001252		1	
22	Pipe clamp board subassembly	12223000008428		1	
23	Right,rear clapboard assembly	12223000001253		1	
24	Weak electric cable group	17401204009025		1	

The data are subject to change without notice.

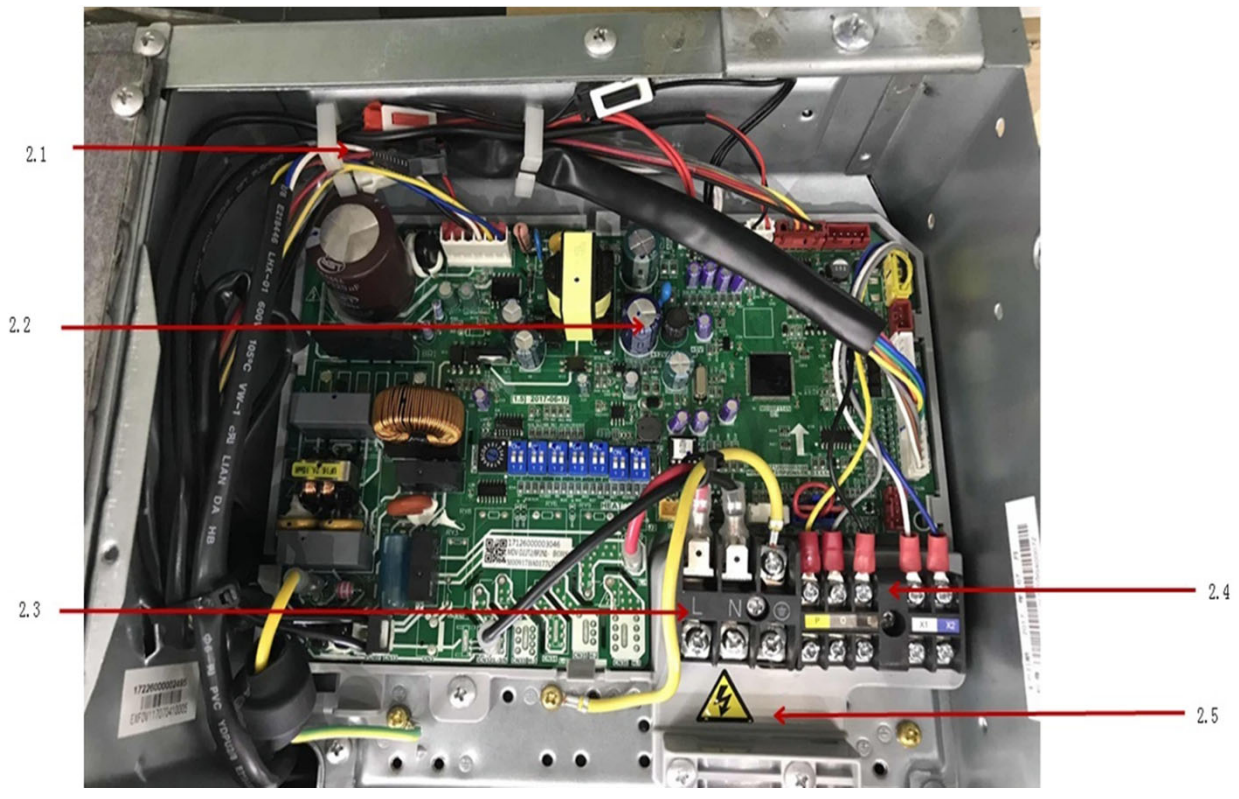
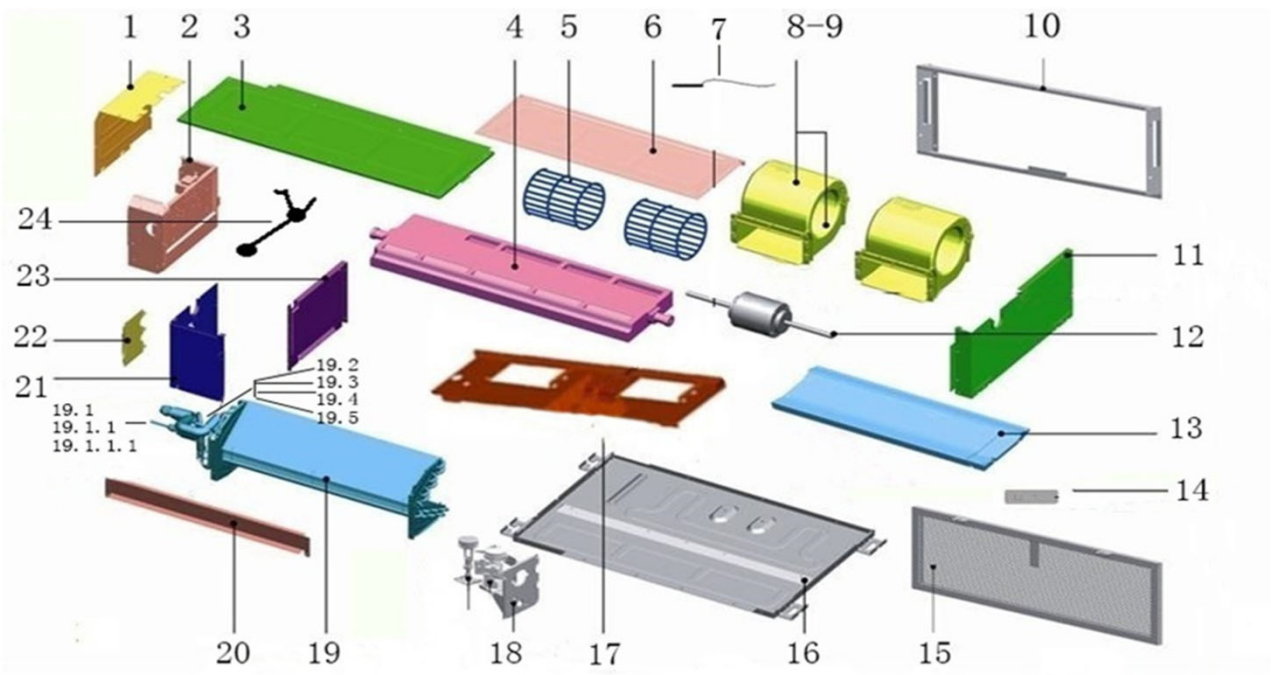
SDV5-28DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-28DA DUCT UNIT					
1	E-Part box cover	12226000003073		1	
2	E-part box assembly	17226000002634		1	
2.1	Electric control box	12223000003736		1	
2.2	Indoor unit main control board	17126000003408		1	
2.3	Wire joint	17400401000188		1	
2.4	Wire joint	17400401001516		1	
2.5	PCB installation board	12126000001343		1	
3	Top cover subassembly	12223000001339		1	
4	Water collector assembly	12823000000024		1	
5	Centrifugal fan	12100103000684		2	
6	Rear cover subassembly	12223000001337		1	
8	top volute	12123000000026		2	
9	volute shell assembly	12126000000061		2	
10	Flange assembly	12223000001510		1	
11	Left clapboard subassembly	12223000001266		1	
12	Brushless DC Motor	11002015003381		1	
13	Base foam subassembly	12823000000021		1	
14	Display board assembly	17223000002836		1	
15	Air filter	12100204001196		1	
16	Base ass	12223000008489		1	
17	Front beam assembly	12226000003074		1	
18	Drain pump assembly	17400802000573		1	
19	Evaporator assembly	15826000002012		1	
19.1	Evaporator input pipe assembly	15426000000556		1	
19.1.1	Electronic expansion valve assembly	15426000000557		1	
19.2	Evaporator output pipe assembly	15126000002346		1	
19.3	Pipe temperature sensor	11201007000070		1	
19.4	Pipr temp sensor assembly	11201007001600		1	
20	Front beam assembly	12223000001540		1	
21	Right clapboard subassembly	12223000001252		1	
22	Pipe clamp board subassembly	12223000008428		1	
23	Right,rear clapboard assembly	12223000001253		1	
24	Weak electric cable group	17401204009025		1	

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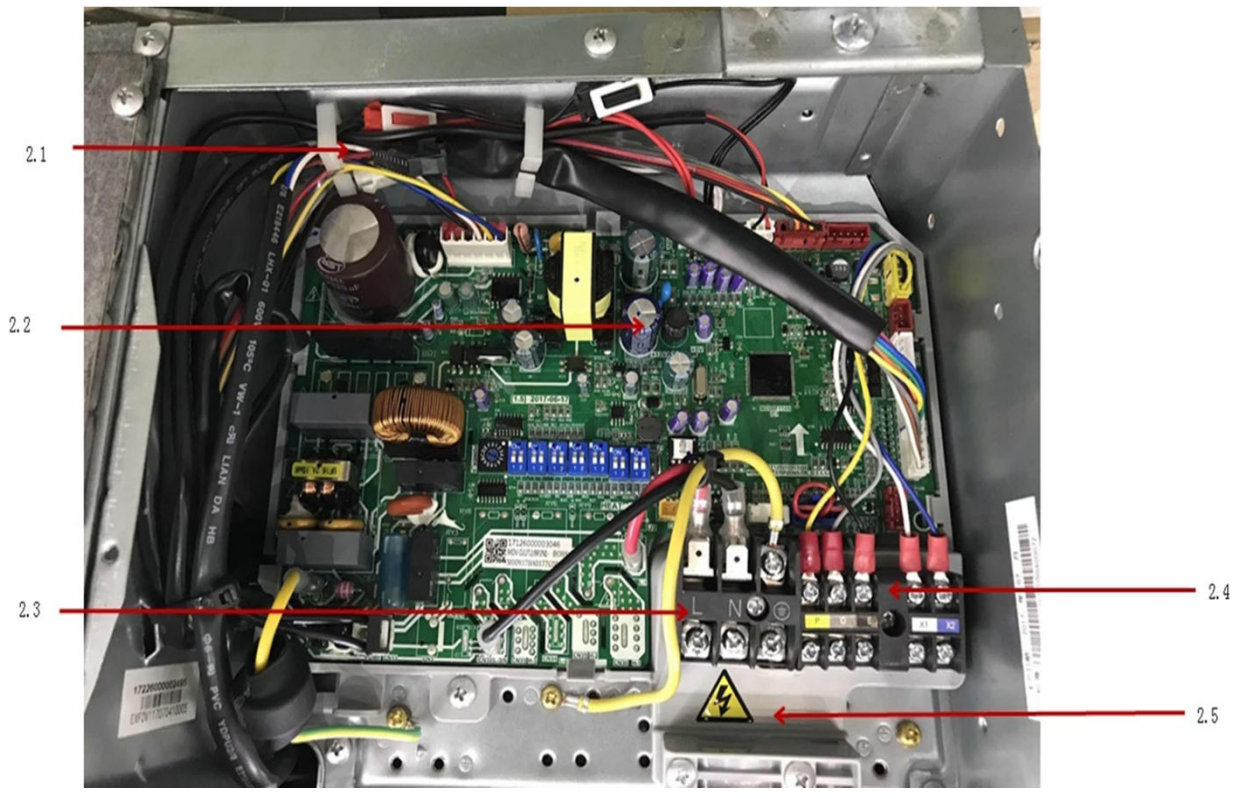
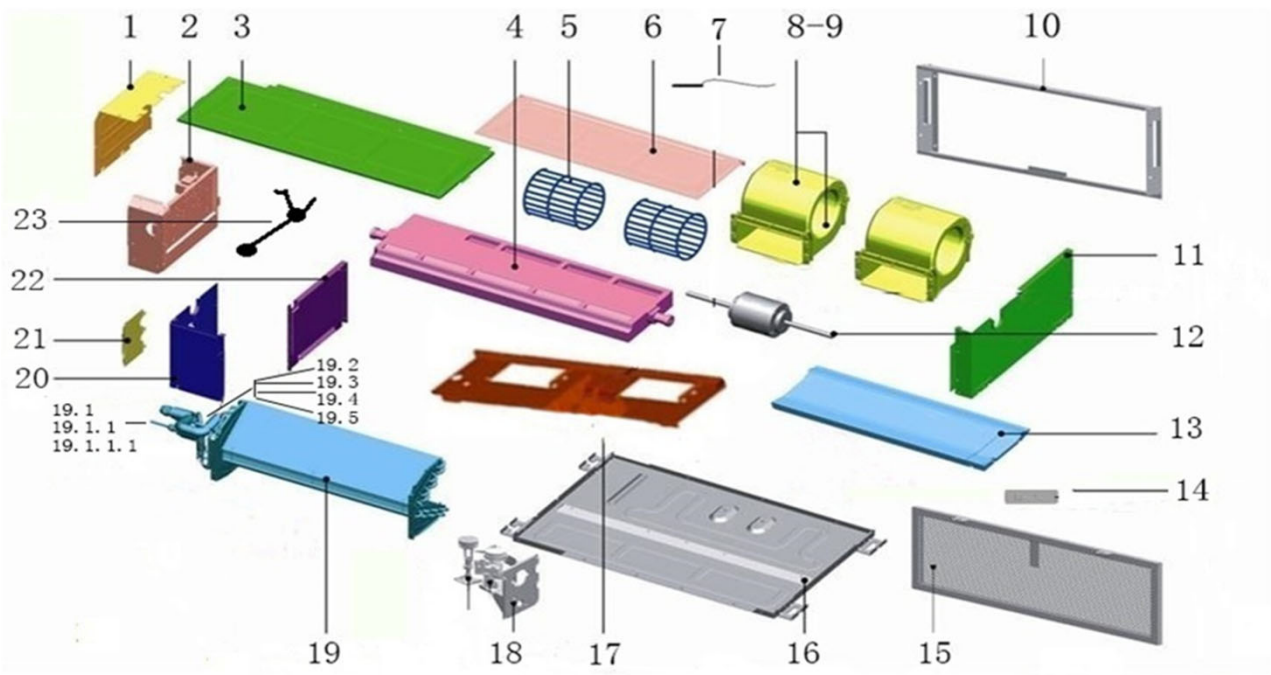
SDV5-36DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-36DA DUCT UNIT					
1	E-Part box cover	12226000003073		1	
2	E-part box assembly	17226000002634		1	
2.1	Electric control box	12223000003736		1	
2.2	Indoor unit main control board	17126000003408		1	
2.3	Wire joint	17400401000188		1	
2.4	Wire joint	17400401001516		1	
2.5	PCB installation board	12126000001343		1	
3	Top cover subassembly	12223000001339		1	
4	Water collector assembly	12823000000024		1	
5	Centrifugal fan	12100103000684		2	
6	Rear cover subassembly	12223000001337		1	
8	top volute	12123000000026		2	
9	volute shell assembly	12126000000061		2	
10	Flange assembly	12223000001510		1	
11	Left clapboard subassembly	12223000001266		1	
12	Brushless DC Motor	11002015003381		1	
13	Base foam subassembly	12823000000021		1	
14	Display board assembly	17223000002836		1	
15	Air filter	12100204001196		1	
16	Base ass	12223000008489		1	
17	Front beam assembly	12226000003074		1	
18	Drain pump assembly	17400802000573		1	
19	Evaporator assembly	15826000002012		1	
19.1	Evaporator input pipe assembly	15426000000556		1	
19.1.1	Electronic expansion valve assembly	15426000000557		1	
19.2	Evaporator output pipe assembly	15126000002346		1	
19.3	Pipe temperature sensor	11201007000070		1	
19.4	Pipr temp sensor assembly	11201007001600		1	
20	Front beam assembly	12223000001540		1	
21	Right clapboard subassembly	12223000001252		1	
22	Pipe clamp board subassembly	12223000008428		1	
23	Right,rear clapboard assembly	12223000001253		1	
24	Weak electric cable group	17401204009025		1	

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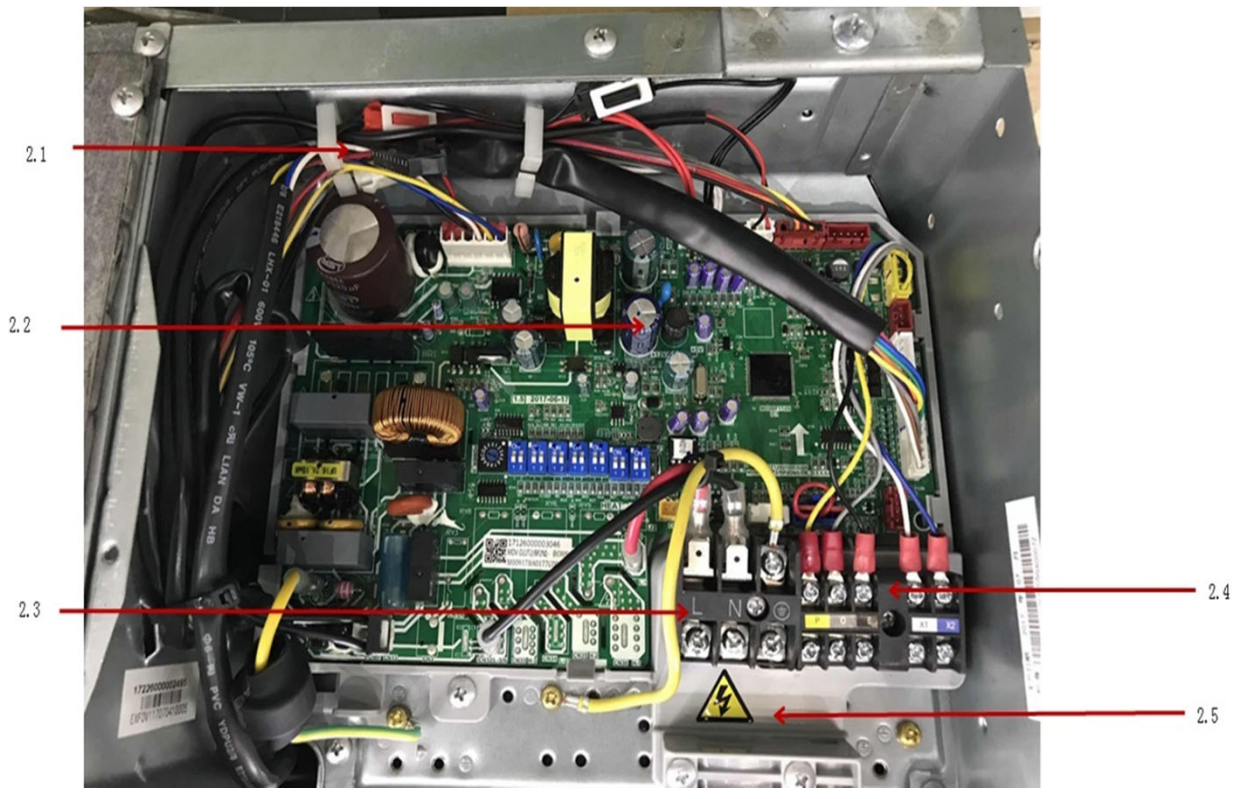
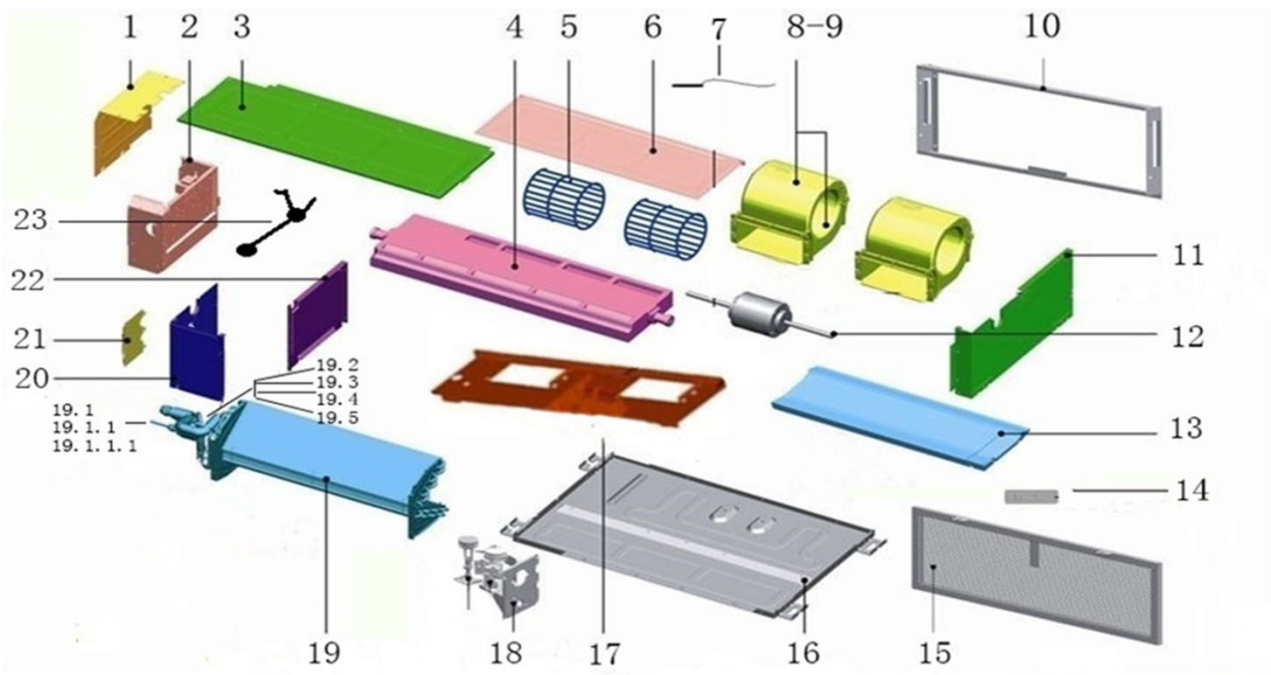
SDV5-45DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-45DA DUCT UNIT					
1	E-Part box cover	12226000003073		1	
2	E-part box assembly	17226000002634		1	
2.1	Electric control box	12223000003736		1	
2.2	Indoor unit main control board	17126000003408		1	
2.3	Wire joint	17400401000188		1	
2.4	Wire joint	17400401001516		1	
2.5	PCB installation board	12126000001343		1	
3	Top cover subassembly	12223000001349		1	
4	Water collector assembly	12823000000022		1	
5	Centrifugal fan	12100103000524		2	
6	Rear cover subassembly	12223000001354		1	
8	top volute	12123000000027		2	
9	bottom volute	12123000000023		2	
10	Flange assembly	12223000001507		1	
11	Left clapboard subassembly	12223000001266		1	
12	Brushless DC Motor	11002015003381		1	
13	Base foam subassembly	12823000000020		1	
14	Display board assembly	17223000002836		1	
15	Air filter	12100204001191		1	
16	Chassis ass	12223000008488		1	
17	Front beam assembly	12226000003075		1	
18	Drain pump assembly	17400802000573		1	
19	Evaporator assembly	15826000002013		1	
19.1	Evaporator inlet pipe subassembly	15426000000243		1	
19.1.1	Filter subassembly	15426000000327		1	
19.2	Evaporator outlet pipe subassembly	15126000001546		1	
19.3	Pipe temperature sensor	11201007000070		1	
19.4	Pipr temp sensor assembly	11201007001600		1	
20	Right clapboard subassembly	12223000001252		1	
21	Pipe clamp board subassembly	12223000008428		1	
22	Right,rear clapboard assembly	12223000001253		1	
23	Weak electric cable group	17401204009025		1	

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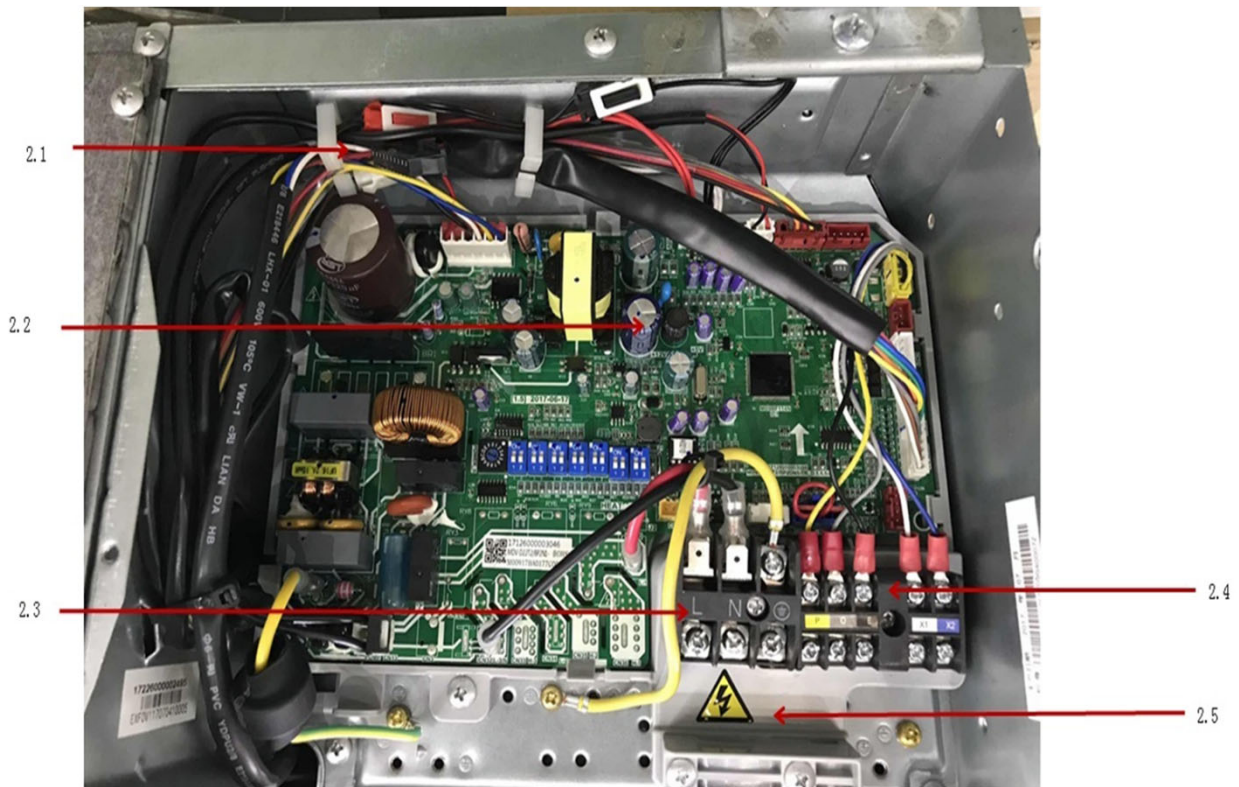
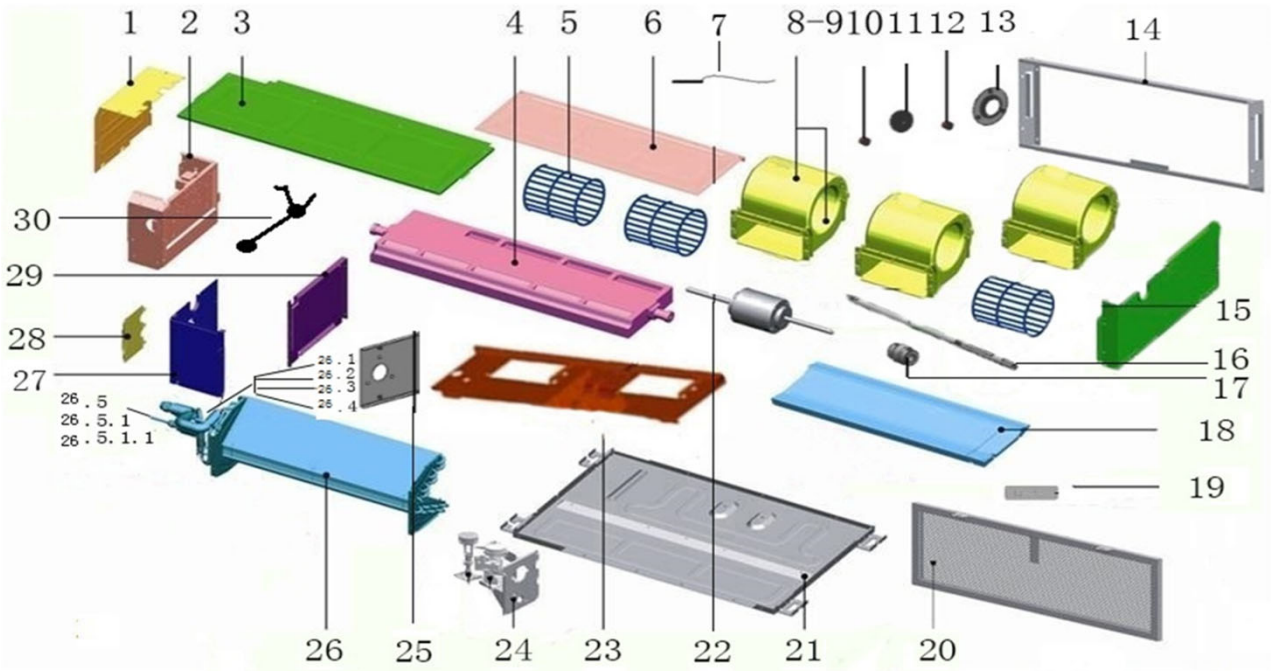
SDV5-56DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-56DA DUCT UNIT					
1	E-Part box cover	12226000003073		1	
2	E-part box assembly	17226000002634		1	
2.1	Electric control box	12223000003736		1	
2.2	Indoor unit main control board	17126000003408		1	
2.3	Wire joint	17400401000188		1	
2.4	Wire joint	17400401001516		1	
2.5	PCB installation board	12126000001343		1	
3	Top cover subassembly	12223000001349		1	
4	Water collector assembly	12823000000022		1	
5	Centrifugal fan	12100103000524		2	
6	Rear cover subassembly	12223000001354		1	
8	top volute	12123000000027		2	
9	bottom volute	12123000000023		2	
10	Flange assembly	12223000001507		1	
11	Left clapboard subassembly	12223000001266		1	
12	Brushless DC Motor	11002015003381		1	
13	Base foam subassembly	12823000000020		1	
14	Display board assembly	17223000002836		1	
15	Air filter	12100204001191		1	
16	Chassis ass	12223000008488		1	
17	Front beam assembly	12226000003075		1	
18	Drain pump assembly	17400802000573		1	
19	Evaporator assembly	15826000002014		1	
19.1	Evaporator input pipe assembly	15426000000354		1	
19.1.1	Filter subassembly	15426000000324		1	
19.2	Evaporator outlet pipe subassembly	15126000001526		1	
19.3	Pipe temperature sensor	11201007000070		1	
19.4	Pipr temp sensor assembly	11201007001600		1	
20	Right clapboard subassembly	12223000001252		1	
21	Pipe clamp board subassembly	12223000008428		1	
22	Right,rear clapboard assembly	12223000001253		1	
23	Weak electric cable group	17401204009025		1	

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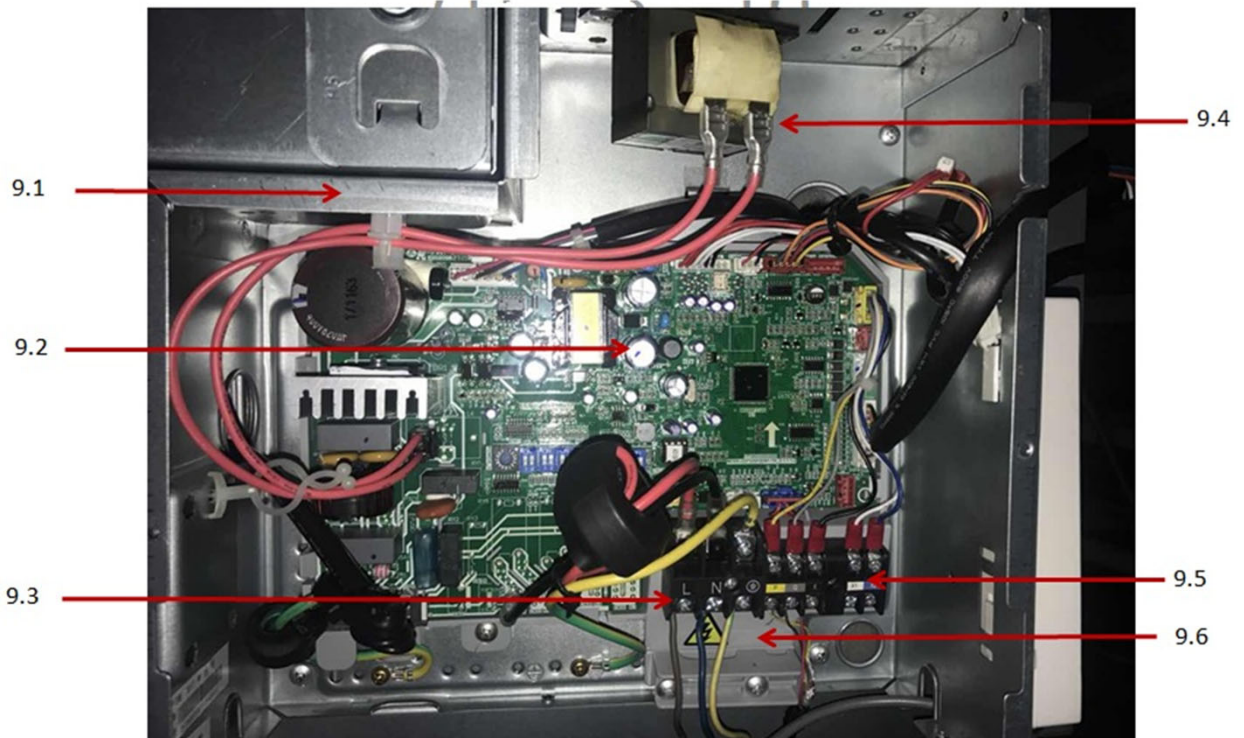
SDV5-71DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-71DA DUCT UNIT					
1	E-Part box cover	12226000003073		1	
2	E-part box assembly	17226000002634		1	
2.1	Electric control box	12223000003736		1	
2.2	Indoor unit main control board	17126000003408		1	
2.3	Wire joint	17400401000188		1	
2.4	Wire joint	17400401001516		1	
2.5	PCB installation board	12126000001343		1	
3	Top cover subassembly	12223000001351		1	
4	water butt dish foam	12826000000032		1	
5	Centrifugal fan	12100103000524		3	
6	Rear cover subassembly	12223000001362		1	
8	top volute	12123000000027		3	
9	bottom volute	12123000000023		3	
10	Bearing	12122000007617		1	
11	Rubber pad	12600401000652		1	
12	bearing block	12623000000054		1	
13	Pipe clamp board	12223000004043		1	
14	Flange assembly	12223000003328		1	
15	Left clapboard subassembly	12223000001266		1	
16	Connecting shaft	12900601000009		1	
17	Coupling	12923000000062		1	
18	Chassis foam	12826000000031		1	
19	Display board assembly	17223000002836		1	
20	Air filter	12100204001193		1	
21	chassis ass	12223000008487		1	
22	Motor	11002015001285		1	
23	Front beam assembly	12223000006287		1	
24	Drain pump assembly	17400802000573		1	
25	Support Plate	12223000006288		1	
26	Evaporator assembly	15826000002015		1	
26.1	Pipe temperature sensor	11201007000070		1	
26.2	Pipr temp sensor assembly	11201007001600		1	
26.4	Evaporator outlet pipe subassembly	15126000001526		1	
26.5	Evaporator input pipe assembly	15426000000354		1	
26.5.1	Filter subassembly	15426000000324		1	
27	Right clapboard subassembly	12223000001252		1	
28	Pipe clamp board subassembly	12223000008428		1	
29	Right,rear clapboard assembly	12223000001253		1	
30	Weak electric cable group	17401204009025		1	

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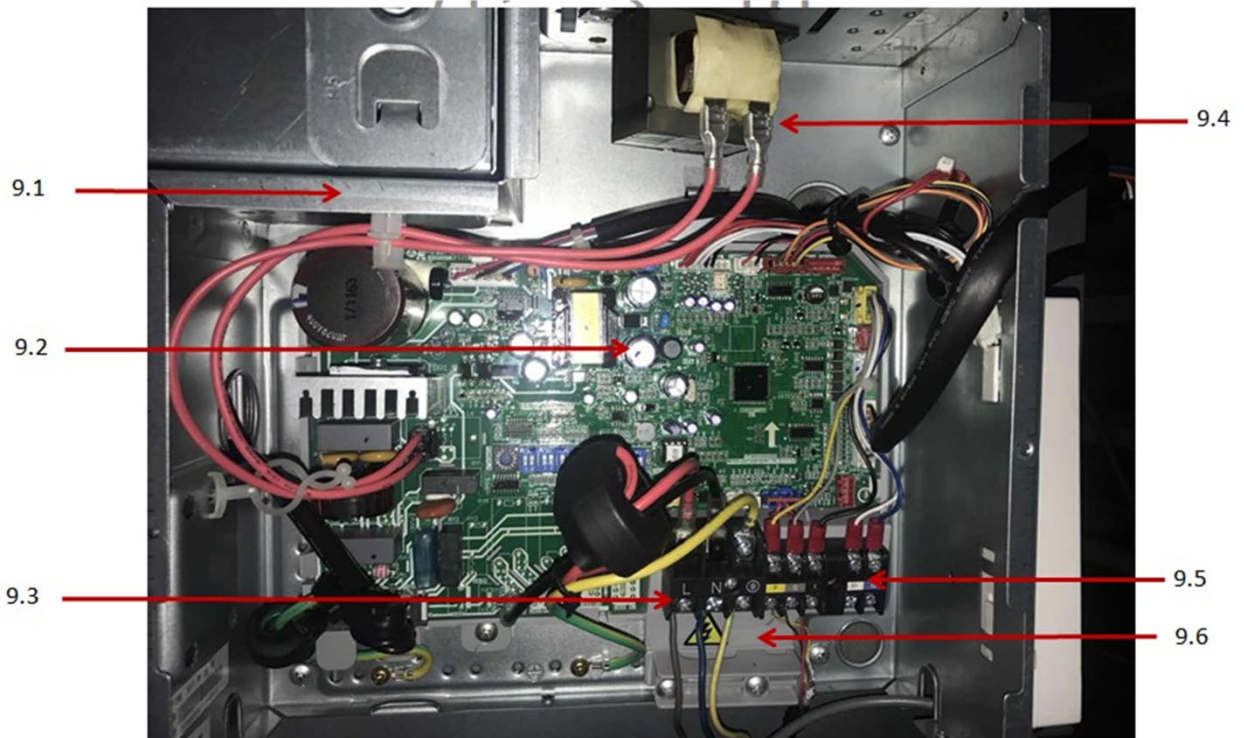
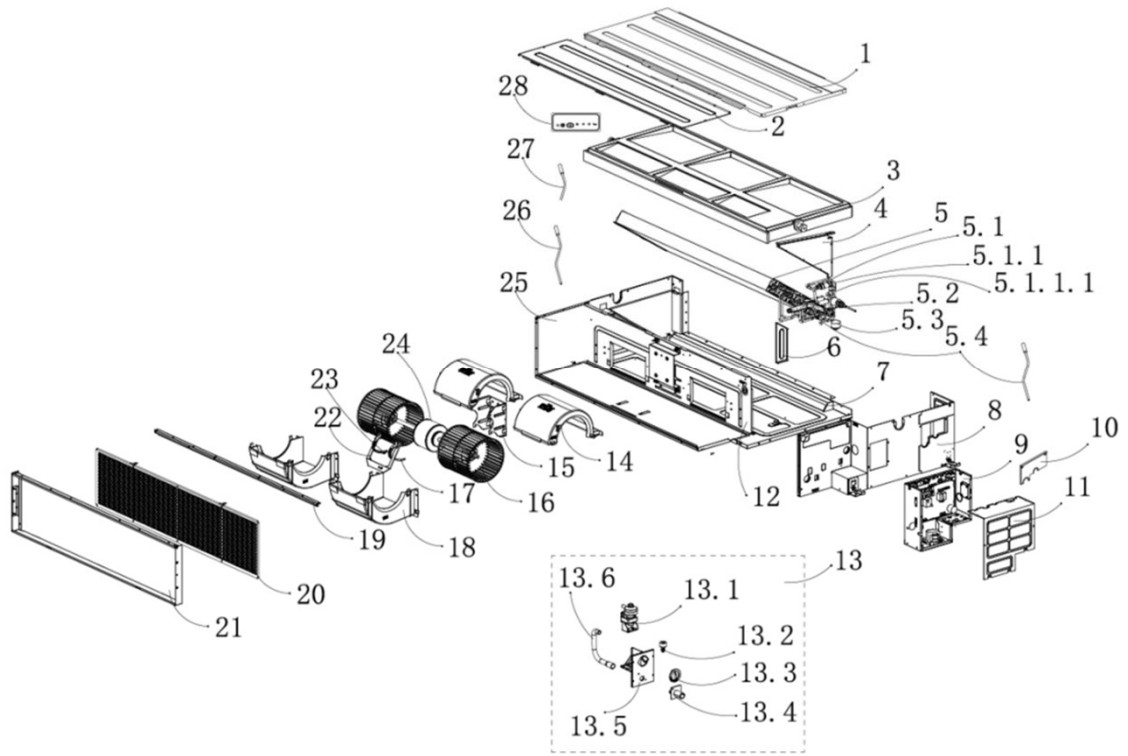
SDV5-80DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-80DA DUCT UNIT					
1	Top cover subassembly	12223000000201		1	
2	Rear cover subassembly	12223000001658		1	
3	Water collector assembly	12826200000027		1	
4	Evaporator right support board subassembly	12223000000287		1	
5	Evaporator assembly	15826000001934		1	
5.1	Evaporator input pipe assembly	15426000000353		1	
5.1.1	Electronic expansion valve assy	15426000000319		1	
5.2	Evaporator outlet pipe subassembly	15426000000384		1	
5.4	Pipe temperature sensor assemblies	11201007000030		1	
5.4	Pipe temperature sensor	11201007000102		1	
6	Right clapboard strengthen board	12223000000110		1	
7	Chassis assembly	12223000001471		1	
8	Side panel assembly	12223000010187		1	
9	E-part box assembly	17226000002635		1	
9.1	Electronic control box components	12226000003173		1	
9.2	Indoor unit main control board	17126000003407		1	
9.3	Wire joint	17400401000188		1	
9.4	Reactor	17400306000070		1	
9.5	Wire joint	17400401001516		1	
9.6	PCB installation board	12126000001343		1	
10	Pipe clamp board subassembly	12223000000524		1	
11	Electric control box cover assembly	12223000004648		1	
12	Beam ass'y	12223000010167		1	
13	Drain pump assembly	17400802000793		1	
13.1	Drain pump	17400802000553		1	
13.2	Water level switch	17400511000544		1	
13.3	Cover of water testing hole	12123000000043		1	
13.4	Drain pipe	12100510000021		1	
13.5	Drain pump bracket assembly	12226000003193		1	
13.6	Rubber tube	12623000000003		1	
14	top volute	12123000000024		2	
15	Motor support	12226000000370		1	
16	centrifuge fan	12100103000079		2	
17	Fan motor axes clamp (right)	12222500000255		1	
18	bottom volute	12123000000022		2	
19	Right clapboard	12223000000267		1	
20	Air filter	12100204000536		1	
21	Right clapboard subassembly	12223000000456		1	
22	Board	12226000000365		1	
23	Fan motor axes clamp (left)	12222500000253		1	
24	Brushless DC Motor	11002015000136		1	
25	Left clapboard subassembly	12223000001290		1	
27	Pipe temperature sensor assemblies	11201007000030		1	
27	Pipe temperature sensor	11201007000102		1	
28	Display board assembly	17223000002836		1	

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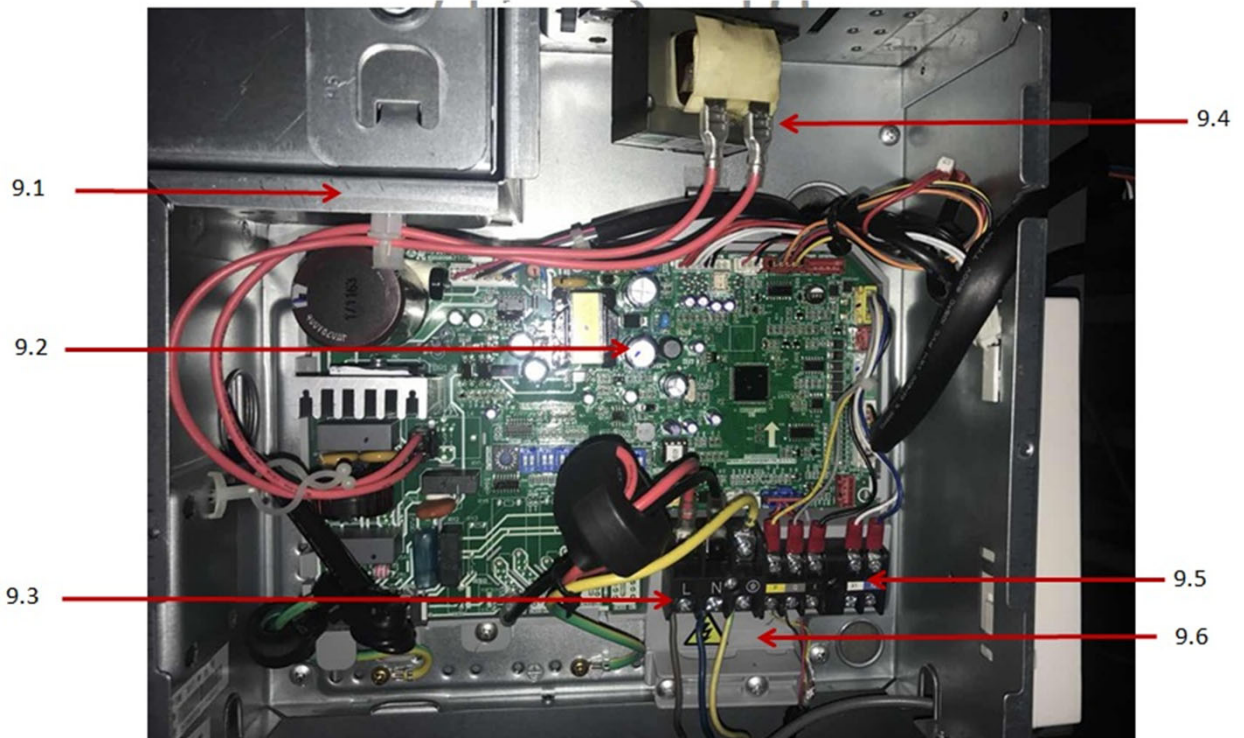
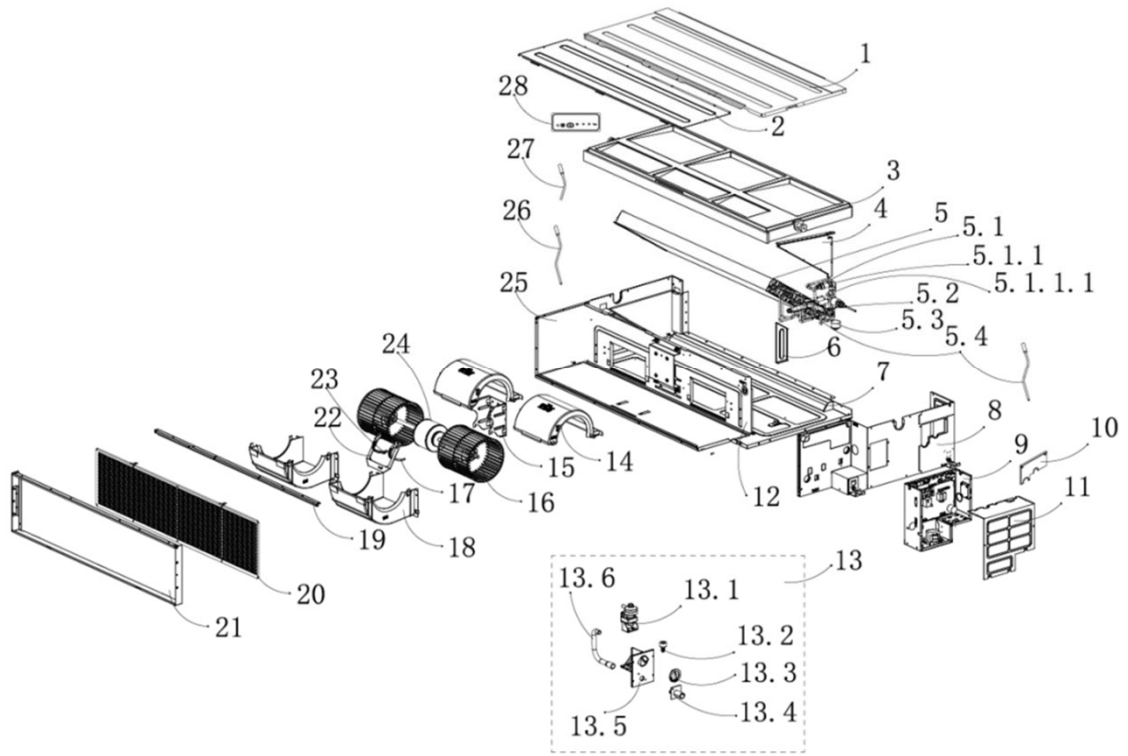
SDV5-90DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-90DA DUCT UNIT					
1	Top cover subassembly	12223000000201		1	
2	Rear cover subassembly	12223000001658		1	
3	Water collector assembly	12826200000027		1	
4	Evaporator right support board subassembly	12223000000287		1	
5	Evaporator assembly	15826000001932		1	
5.1	Evaporator input pipe assembly	15426000000345		1	
5.1.1	Electronic expansion valve assy	15426000000334		1	
5.2	Evaporator outlet pipe subassembly	15426000000396		1	
5.4	Pipe temperature sensor	11201007000102		1	
5.4	Pipe temperature sensor assemblies	11201007000030		1	
6	Right clapboard strengthen board	12223000000110		1	
7	Chassis assembly	12223000001471		1	
8	Side panel assembly	12223000010187		1	
9	E-part box assembly	17226000002635		1	
9.1	Electronic control box components	12226000003173		1	
9.2	Indoor unit main control board	17126000003407		1	
9.3	Wire joint	17400401000188		1	
9.4	Reactor	17400306000070		1	
9.5	Wire joint	17400401001516		1	
9.6	PCB installation board	12126000001343		1	
10	Pipe clamp board subassembly	12223000000524		1	
11	Electric control box cover assembly	12223000004648		1	
12	Beam ass'y	12223000010167		1	
13	Drain pump assembly	17400802000793		1	
13.1	Drain pump	17400802000553		1	
13.2	Water level switch	17400511000544		1	
13.3	Cover of water testing hole	12123000000043		1	
13.4	Drain pipe	12100510000021		1	
13.5	Drain pump bracket assembly	12226000003193		1	
13.6	Rubber tube	12623000000003		1	
14	top volute	12123000000024		2	
15	Motor support	12226000000370		1	
16	centrifuge fan	12100103000079		2	
17	Fan motor axes clamp (right)	12222500000255		1	
18	bottom volute	12123000000022		2	
19	Right clapboard	12223000000267		1	
20	Air filter	12100204000536		1	
21	Right clapboard subassembly	12223000000456		1	
22	Board	12226000000365		1	
23	Fan motor axes clamp (left)	12222500000253		1	
24	Brushless DC Motor	11002015000136		1	
25	Left clapboard subassembly	12223000001290		1	
27	Pipe temperature sensor	11201007000102		1	
27	Pipe temperature sensor assemblies	11201007000030		1	
28	Display board assembly	17223000002836		1	

The data are subject to change without notice.

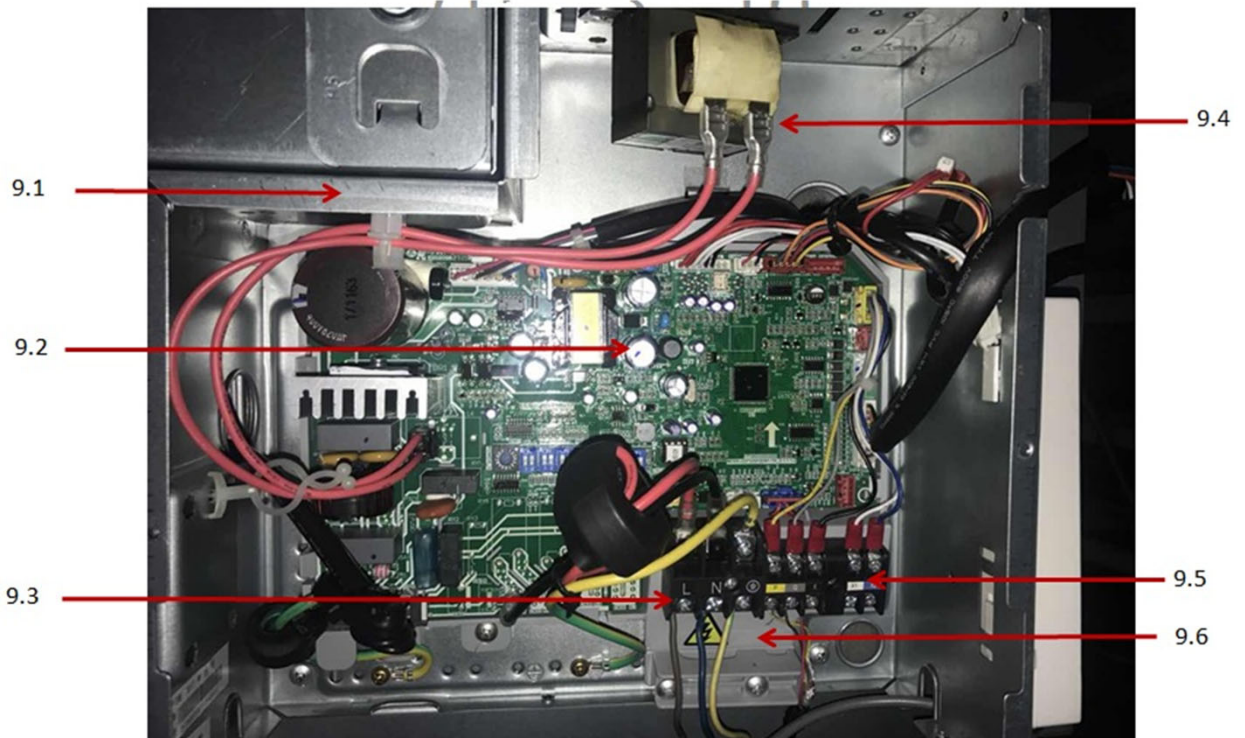
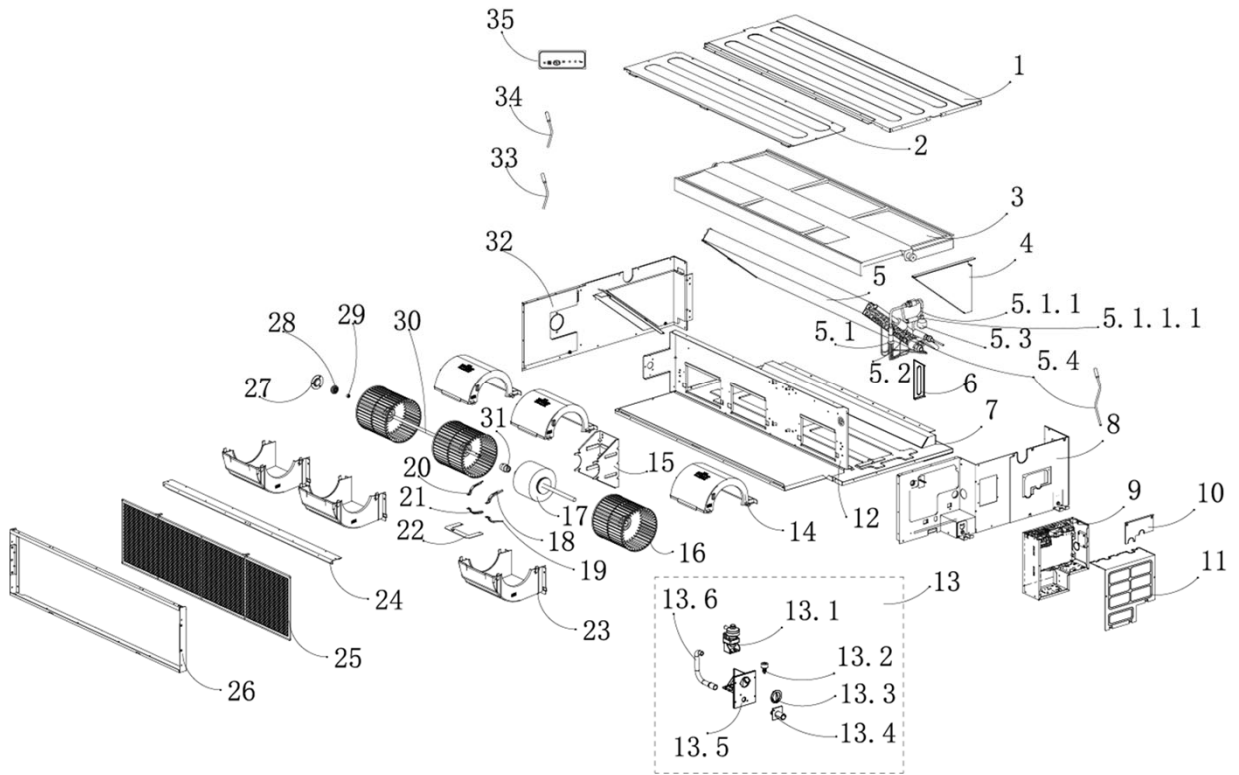
SDV5-112DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-112DA DUCT UNIT					
1	Top cover subassembly	12223000000201		1	
2	Rear cover subassembly	12223000001658		1	
3	Water collector assembly	12826200000027		1	
4	Evaporator right support board subassembly	12223000000287		1	
5	Evaporator assembly	15826000001932		1	
5.1	Evaporator input pipe assembly	15426000000345		1	
5.1.1	Electronic expansion valve assy	15426000000334		1	
5.2	Evaporator outlet pipe subassembly	15426000000396		1	
5.4	Pipe temperature sensor	11201007000102		1	
5.4	Pipe temperature sensor assemblies	11201007000030		1	
6	Right clapboard strengthen board	12223000000110		1	
7	Chassis assembly	12223000001471		1	
8	Side panel assembly	12223000010187		1	
9	E-part box assembly	17226000002635		1	
9.1	Electronic control box components	12226000003173		1	
9.2	Indoor unit main control board	17126000003407		1	
9.3	Wire joint	17400401000188		1	
9.4	Reactor	17400306000070		1	
9.5	Wire joint	17400401001516		1	
9.6	PCB installation board	12126000001343		1	
10	Pipe clamp board subassembly	12223000000524		1	
11	Electric control box cover assembly	12223000004648		1	
12	Beam ass'y	12223000010167		1	
13	Drain pump assembly	17400802000793		1	
13.1	Drain pump	17400802000553		1	
13.2	Water level switch	17400511000544		1	
13.3	Cover of water testing hole	12123000000043		1	
13.4	Drain pipe	12100510000021		1	
13.5	Drain pump bracket assembly	12226000003193		1	
13.6	Rubber tube	12623000000003		1	
14	top volute	12123000000024		2	
15	Motor support	12226000000370		1	
16	centrifuge fan	12100103000079		2	
17	Fan motor axes clamp (right)	12222500000255		1	
18	bottom volute	12123000000022		2	
19	Right clapboard	12223000000267		1	
20	Air filter	12100204000536		1	
21	Right clapboard subassembly	12223000000456		1	
22	Board	12226000000365		1	
23	Fan motor axes clamp (left)	12222500000253		1	
24	Brushless DC Motor	11002015000136		1	
25	Left clapboard subassembly	12223000001290		1	
27	Pipe temperature sensor	11201007000102		1	
27	Pipe temperature sensor assemblies	11201007000030		1	
28	Display board assembly	17223000002836		1	

The data are subject to change without notice.

SDV5-140DA



No	Description	Part Code	Note	Qty	Price Code
MODEL: SDV5-140DA DUCT UNIT					
1	Top cover subassembly	12223000000198		1	
2	Rear cover subassembly	12223000001655		1	
3	drain tray ass'y	12826200000047		1	
4	Evaporator right support board subassembly	12223000000288		1	
5	Evaporator assembly	15826000001933		1	
5.1	Evaporator inlet pipe subassembly	15426000000348		1	
5.1.1	Expansion valve assembly	15426000000326		1	
5.2	Evaporator outlet pipe subassembly	15426000000381		1	
5.4	Pipe temperature sensor assemblies	11201007000030		1	
5.4	Pipe temperature sensor	11201007000102		1	
6	Right clapboard strengthen board	12223000000112		1	
7	Chassis subassembly	12223000000495		1	
8	Side panel assembly	122260000003174		1	
9	E-part box assembly	172260000002635		1	
9.1	Electronic control box components	122260000003173		1	
9.2	Indoor unit main control board	171260000003407		1	
9.3	Wire joint	17400401000188		1	
9.4	Reactor	17400306000070		1	
9.5	Wire joint	17400401001516		1	
9.6	PCB installation board	12126000001343		1	
10	Pipe clamp board subassembly	12223000000524		1	
11	Electric control box cover assembly	122230000004648		1	
12	Middle beam subassembly	12223000000238		1	
13	Drain pump assembly	174008020000793		1	
13.1	Drain pump	174008020000553		1	
13.2	Water level switch	17400511000544		1	
13.3	Cover of water testing hole	12123000000043		1	
13.4	Drain pipe	12100510000021		1	
13.5	Drain pump bracket assembly	122260000003193		1	
13.6	Rubber tube	12623000000003		1	
14	top volute	12123000000024		3	
15	Motor support	122260000000689		1	
16	centrifuge fan	12100103000079		3	
17	Brushless DC Motor	11002015000280		1	
18	Fan motor cover	122230000000531		1	
19	Fan motor cover	122230000000529		1	
20	Fan motor cover	122230000000532		1	
21	Fan motor cover	122230000000530		1	
22	Board	122230000006888		1	
23	bottom volute	12123000000022		3	
24	Rear beam assembly	12223000001566		1	
25	Air filter	121002040000698		1	
26	Right clapboard subassembly	122230000000457		1	
27	Bearing Fixing board	122260000000731		1	
28	Bearing base	12622000000013		1	
29	Bearing	1212200000007617		1	
30	Connecting shaft	12900601000010		1	
31	Quick connector kit	129230000000004		1	
32	Left clapboard subassembly	12223000001249		1	
34	Pipe temperature sensor assemblies	11201007000030		1	
34	Pipe temperature sensor	11201007000102		1	
35	Display board assembly	172230000002836		1	

The data are subject to change without notice.



FULL DC INVERTER SYSTEMS

PARTS GUIDE

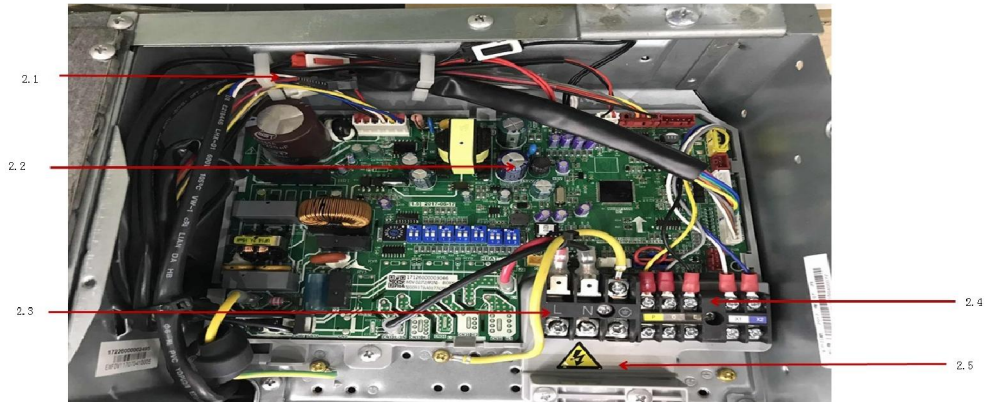
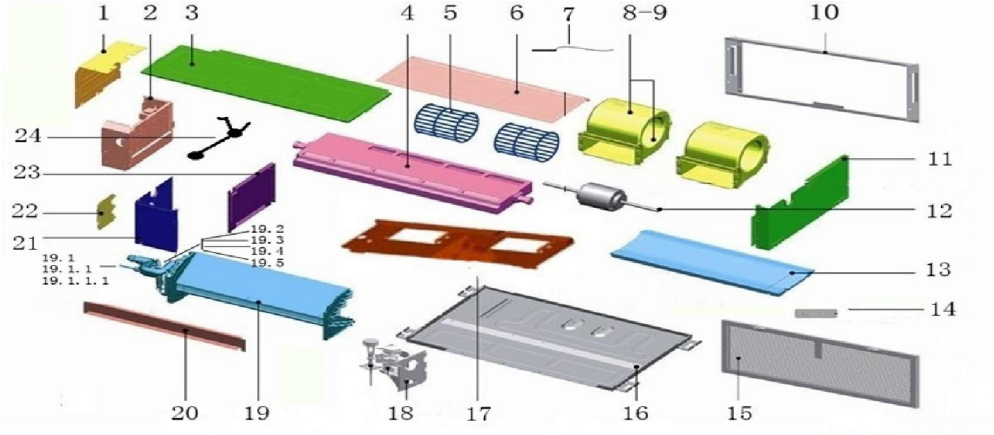
DUCT UNITS SDV5-17-71DAP

COMMERCIAL AIR CONDITIONERS SDV5

Exploded View

Product model:

SDV5-17DAP

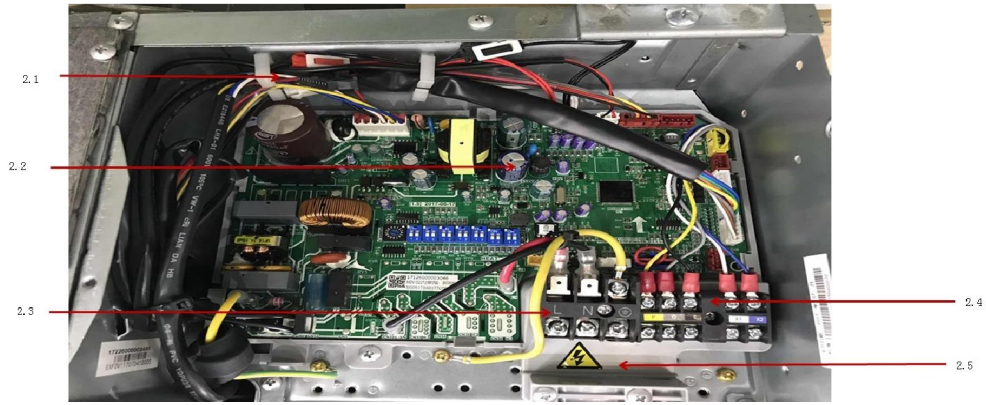
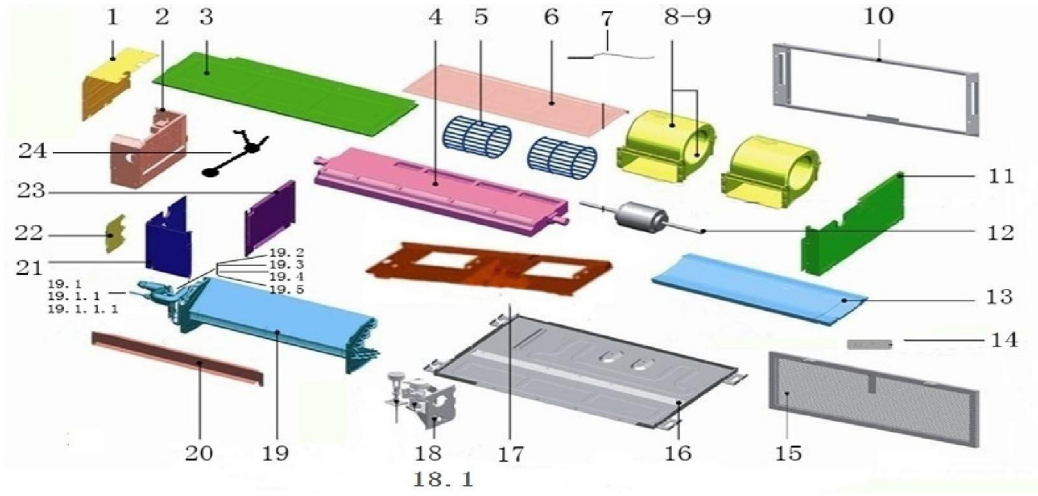


EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000A05566	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000A04169	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12226000004818	Top cover assembly	1	
4	12823000000024	Drain pan foam	1	
5	12100103000684	Centrifugal fan	2	
6	12223000001337	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000026	top volute	2	
9	12126000000061	volute shell assembly	2	
10	12223000001510	Flange assembly	1	
11	12223000001266	Left clapboard subassembly	1	
12	11002015003381	Brushless DC Motor	1	
13	12823000000021	Chassis foam	1	
14	17223000002836	Display board assembly	1	
15	12100204001196	Air filter	1	
16	12223000008489	Base ass	1	
17	12226000003074	Front beam assembly	1	
18	17400802000573	Drain pump assembly	1	
19	15826000002012	Evaporator assembly	1	
19.1	15426000000556	Evaporator input pipe assembly	1	
19.1.1	15426000000557	Electronic expansion valve assembly	1	
19.1.1.1	15500213000909	Electronic expansion valve suite	1	
19.2	15126000002346	Evaporator output pipe assembly	1	
19.3	11201007000070	Pipe Temperature Sensor	1	T2 : Middle Pipe Temp. Sensor
19.4	11201007001600	Pipe Temperature Sensor	1	T2B : Outlet Pipe Temp. Sensor
21	12223000001252	Right clapboard subassembly	1	
22	12223000008428	Pipe clamp board subassembly	1	
23	12223000001253	Right, rear clapboard assembly	1	
24	17401204009025	Weak electric cable group	1	

Exploded View

Product model:

SDV5-22DAP

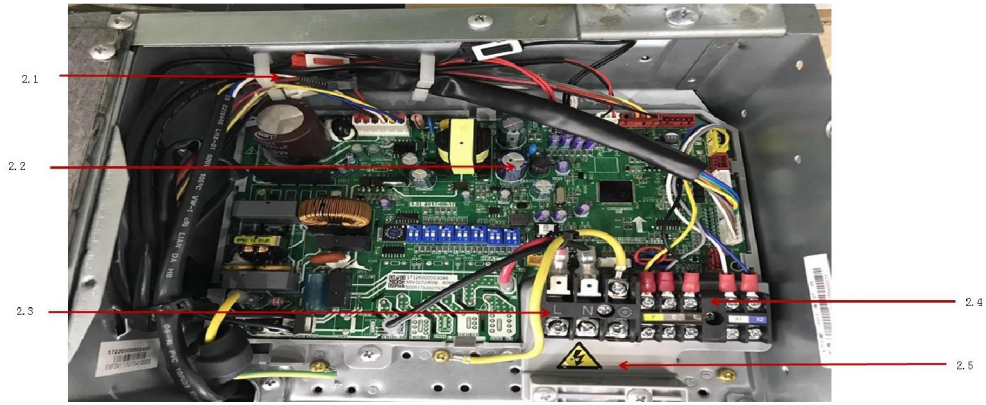
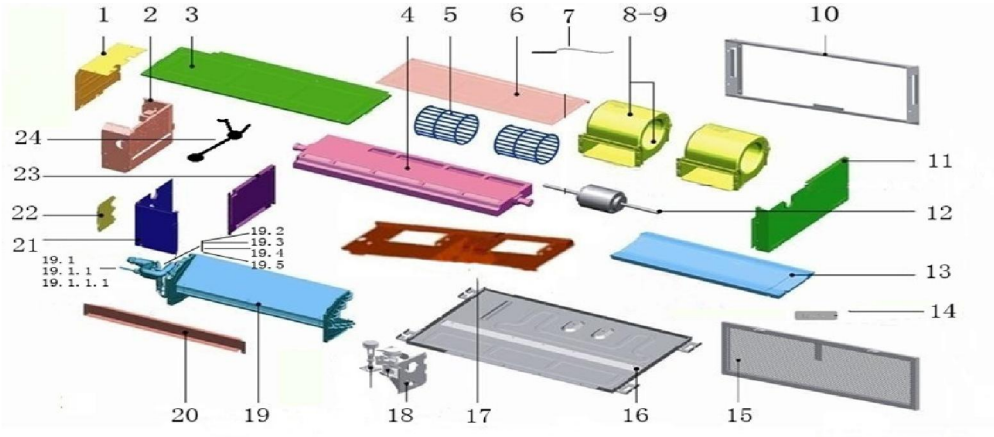


EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000002634	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000005132	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12226000004818	Top cover assembly	1	
4	12823000000024	Drain pan foam	1	
5	12100103000684	Centrifugal fan	2	
6	12223000001337	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000026	top volute	2	
9	12126000000061	volute shell assembly	2	
10	12223000001510	Flange assembly	1	
11	12223000001266	Left clapboard subassembly	1	
12	11002015003381	Brushless DC Motor	1	
13	12823000000021	Chassis foam	1	
14	17223000002836	Display board assembly	1	
15	12100204001196	Air filter	1	
16	12223000008489	Base ass	1	
17	12226000003074	Front beam assembly	1	
18	17400802000573	Drain pump assembly	1	
18.1	17400802000553	Drain pump	1	
19	15826000002012	Evaporator assembly	1	
19.1	15426000000556	Evaporator input pipe assembly	1	
19.1.1	15426000000557	Electronic expansion valve assembly	1	
19.1.1.1	15500213000909	Electronic expansion valve suite	1	
19.2	15126000002346	Evaporator output pipe assembly	1	
19.3	11201007000070	Pipe Temperature Sensor	1	T2 : Middle Pipe Temp. Sensor
19.4	11201007001600	Pipe Temperature Sensor	1	T2B : Outlet Pipe Temp. Sensor
21	12223000001252	Right clapboard subassembly	1	
22	12223000008428	Pipe clamp board subassembly	1	
23	12223000001253	Right, rear clapboard assembly	1	
24	17401204009025	Weak electric cable group	1	

Exploded View

Product model:

SDV5-28DAP

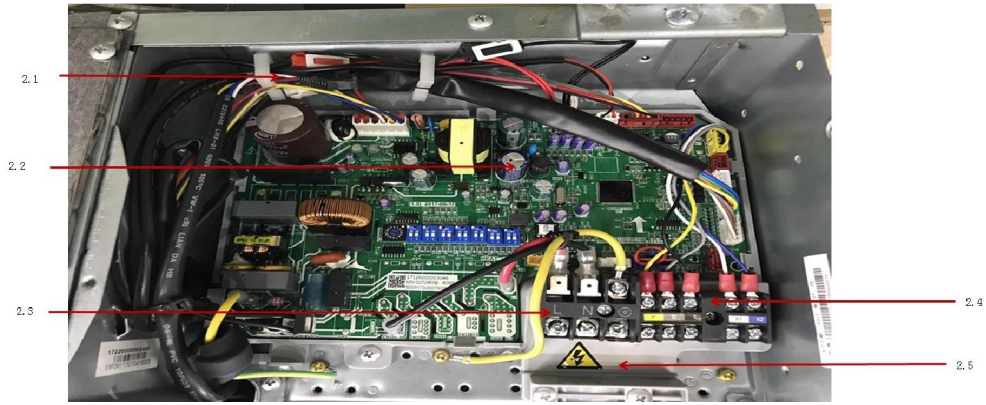
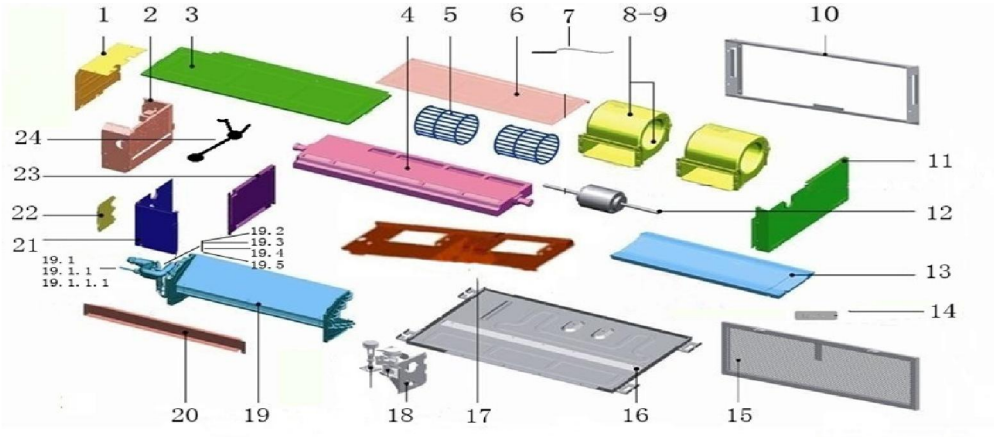


EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000002634	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000005132	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12226000004818	Top cover assembly	1	
4	12823000000024	Drain pan foam	1	
5	12100103000684	Centrifugal fan	2	
6	12223000001337	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000026	top volute	2	
9	12126000000061	volute shell assembly	2	
10	12223000001510	Flange assembly	1	
11	12223000001266	Left clapboard subassembly	1	
12	11002015003381	Brushless DC Motor	1	
13	12823000000021	Chassis foam	1	
14	17223000002836	Display board assembly	1	
15	12100204001196	Air filter	1	
16	12223000008489	Base ass	1	
17	12226000003074	Front beam assembly	1	
18	17400802000573	Drain pump assembly	1	
18.1	17400802000553	Drain pump	1	
19	15826000002012	Evaporator assembly	1	
19.1	15426000000556	Evaporator input pipe assembly	1	
19.1.1	15426000000557	Electronic expansion valve assembly	1	
19.1.1.1	15500213000909	Electronic expansion valve suite	1	
19.2	15126000002346	Evaporator output pipe assembly	1	
19.3	11201007000070	Pipe Temperature Sensor	1	T2 : Middle Pipe Temp. Sensor
19.4	11201007001600	Pipe Temperature Sensor	1	T2B : Outlet Pipe Temp. Sensor
21	12223000001252	Right clapboard subassembly	1	
22	12223000008428	Pipe clamp board subassembly	1	
23	12223000001253	Right,rear clapboard assembly	1	
24	17401204009025	Weak electric cable group	1	

Exploded View

Product model:

SDV5-36DAP

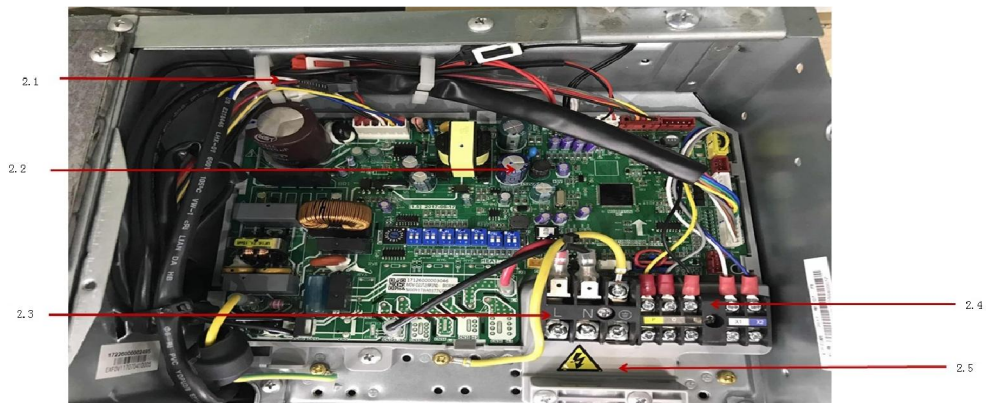
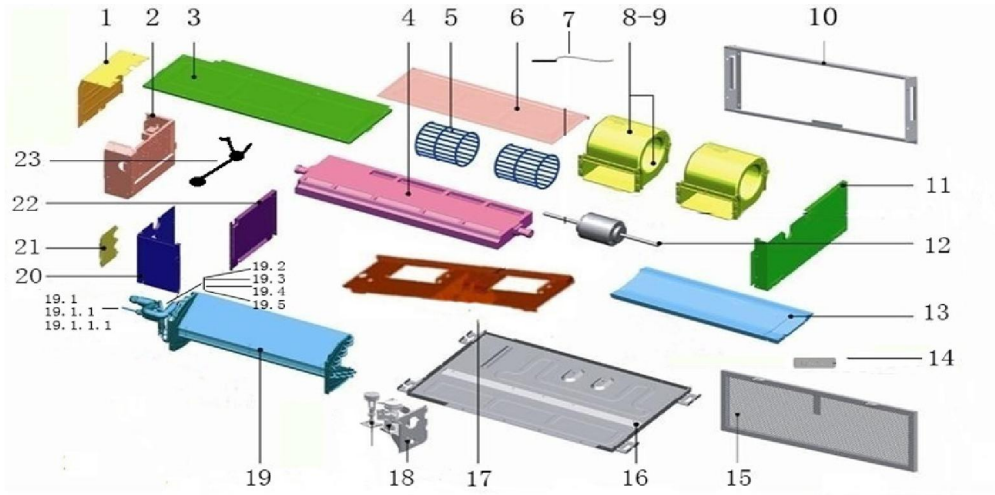


EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000002634	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000005132	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12226000004818	Top cover assembly	1	
4	12823000000024	Drain pan foam	1	
5	12100103000684	Centrifugal fan	2	
6	12223000001337	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000026	top volute	2	
9	12126000000061	volute shell assembly	2	
10	12223000001510	Flange assembly	1	
11	12223000001266	Left clapboard subassembly	1	
12	11002015003381	Brushless DC Motor	1	
13	12823000000021	Chassis foam	1	
14	17223000002836	Display board assembly	1	
15	12100204001196	Air filter	1	
16	12223000008489	Base ass	1	
17	12226000003074	Front beam assembly	1	
18	17400802000573	Drain pump assembly	1	
18.1	17400802000553	Drain pump	1	
19	15826000002012	Evaporator assembly	1	
19.1	15426000000556	Evaporator input pipe assembly	1	
19.1.1	15426000000557	Electronic expansion valve assembly	1	
19.1.1.1	15500213000909	Electronic expansion valve suite	1	
19.2	15126000002346	Evaporator output pipe assembly	1	
19.3	11201007000070	Pipe Temperature Sensor	1	T2 : Middle Pipe Temp. Sensor
19.4	11201007001600	Pipe Temperature Sensor	1	T2B : Outlet Pipe Temp. Sensor
21	12223000001252	Right clapboard subassembly	1	
22	12223000008428	Pipe clamp board subassembly	1	
23	12223000001253	Right,rear clapboard assembly	1	
24	17401204009025	Weak electric cable group	1	

Exploded View

Product model:

SDV5-45DAP

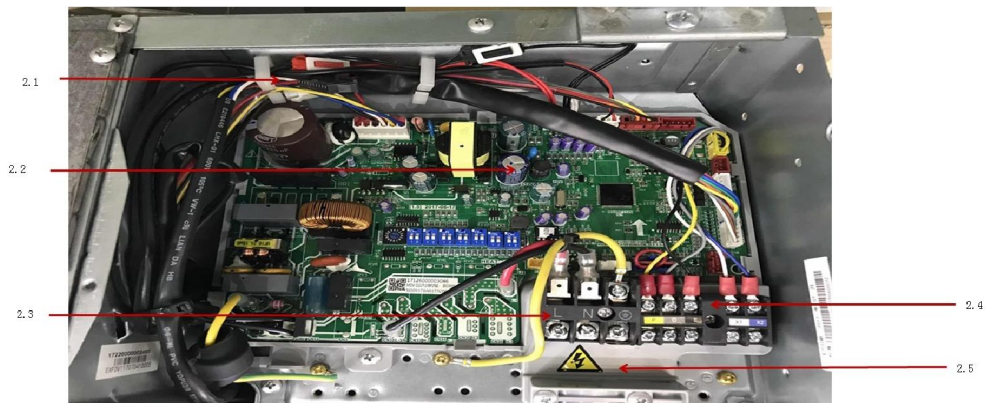
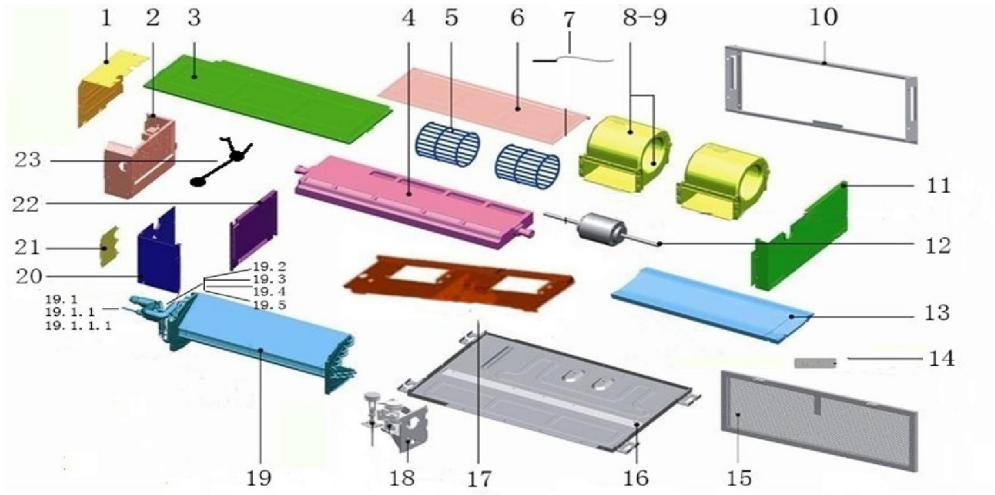


EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000002634	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000005132	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12223000001349	Top cover subassembly	1	
4	12823000000022	Drain pan foam	1	
5	12100103000524	Centrifugal fan	2	
6	12223000001354	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000027	top volute	2	
9	12123000000023	bottom volute	2	
10	12223000001507	Flange assembly	1	
11	12223000001266	Left clapboard subassembly	1	
12	11002015003381	Brushless DC Motor	1	
13	12823000000020	Chassis foam	1	
14	17223000002836	Display board assembly	1	
15	12100204001191	Air filter	1	
16	12223000008488	Chassis ass	1	
17	12226000003075	Front beam assembly	1	
18	17400802000573	Drain pump assembly	1	
18.1	17400802000553	Drain pump	1	
19	15826000002013	Evaporator assembly	1	
19.1	15426000000243	Evaporator inlet pipe subassembly	1	
19.1.1	15426000000327	Filter subassembly	1	
19.1.1.1	15500213000909	Electronic expansion valve suite	1	
19.2	15126000001546	Evaporator outlet pipe subassembly	1	
19.3	11201007000070	Pipe Temperature Sensor	1	
19.4	11201007001600	Pipe Temperature Sensor	1	
20	12223000001252	Right clapboard subassembly	1	
21	12223000008428	Pipe clamp board subassembly	1	
22	12223000001253	Right, rear clapboard assembly	1	
23	17401204009025	Weak electric cable group	1	

Exploded View

Product model:

SDV5-56DAP

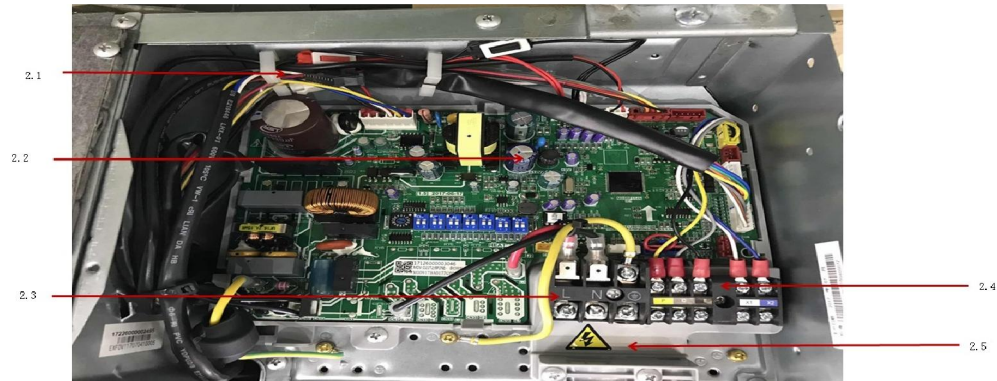
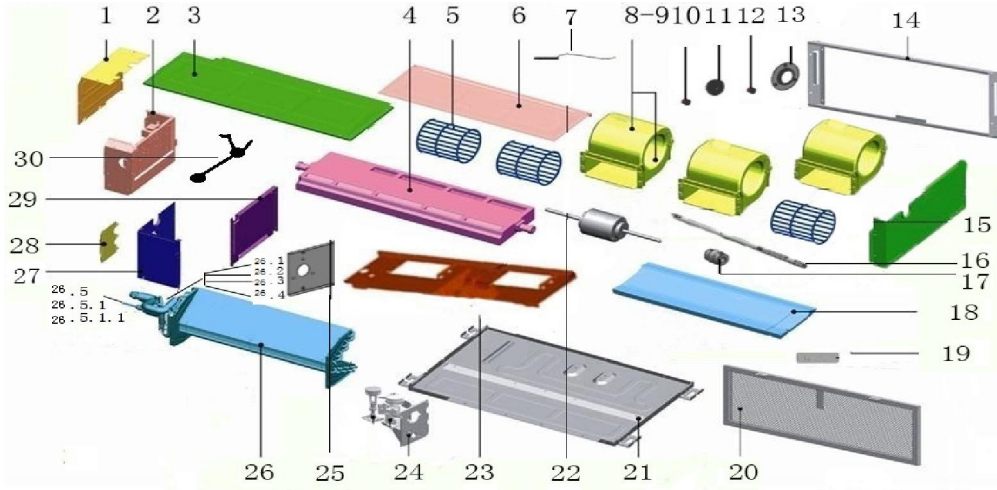


EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000002634	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000005132	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12223000001349	Top cover subassembly	1	
4	12823000000022	Drain pan foam	1	
5	12100103000524	Centrifugal fan	2	
6	12223000001354	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000027	top volute	2	
9	12123000000023	bottom volute	2	
10	12223000001507	Flange assembly	1	
11	12223000001266	Left clapboard subassembly	1	
12	11002015003381	Brushless DC Motor	1	
13	12823000000020	Chassis foam	1	
14	17223000002836	Display board assembly	1	
15	12100204001191	Air filter	1	
16	12223000008488	Chassis ass	1	
17	12226000003075	Front beam assembly	1	
18	17400802000573	Drain pump assembly	1	
18.1	17400802000553	Drain pump	1	
19	15826000002014	Evaporator assembly	1	
19.1	15426000000354	Evaporator input pipe assembly	1	
19.1.1	15426000000324	Filter subassembly	1	
19.1.1.1	15500213000909	Electronic expansion valve suite	1	
19.2	15126000001526	Evaporator outlet pipe subassembly	1	
19.3	11201007000070	Pipe Temperature Sensor	1	
19.4	11201007001600	Pipe Temperature Sensor	1	
20	12223000001252	Right clapboard subassembly	1	
21	12223000008428	Pipe clamp board subassembly	1	
22	12223000001253	Right,rear clapboard assembly	1	
23	17401204009025	Weak electric cable group	1	

Exploded View

Product model:

SDV5-71DAP



EX_ID	Spare Parts Code	Part Name(EN)	Qty.	Remarks
1	12226000003073	E-Part box cover	1	
2	17226000002634	E-part box assembly	1	
2.1	12223000003736	Electric control box	1	
2.2	17126000005132	Indoor unit main control board	1	
2.3	17400401000188	Wire joint	1	
2.4	17400401001516	Wire joint	1	
2.5	12126000001343	PCB installation board	1	
3	12223000001351	Top cover subassembly	1	
4	12826000000032	water butt dish foam	1	
5	12100103000524	Centrifugal fan	3	
6	12223000001362	Rear cover subassembly	1	
7	11201007000102	Room Temperature Sensor	1	T1 : Room Temp. Sensor
8	12123000000027	top volute	3	
9	12123000000023	bottom volute	3	
10	12122000007617	Bearing	1	
11	12600401000652	Rubber pad	1	
12	12623000000054	bearing block	1	
13	12223000004043	Pipe clamp board	1	
14	12223000003328	Flange assembly	1	
15	12223000001266	Left clapboard subassembly	1	
16	12900601000009	Connecting shaft	1	
17	12918000001320	Coupling	1	
18	12826000000031	Chassis foam	1	
19	17223000002836	Display board assembly	1	
20	12100204001193	Air filter	1	
21	12223000008487	chassis ass	1	
22	11002015001285	Motor	1	
23	12223000006287	Front beam assembly	1	
24	17400802000573	Drain pump assembly	1	
24.1	17400802000553	Drain pump	1	
25	12223000006288	Support Plate	1	
26	15826000002015	Evaporator assembly	1	
26.1	11201007000070	Pipe Temperature Sensor	1	
26.2	11201007001600	Pipe Temperature Sensor	1	
26.3	15823000001063	Evaporator	1	
26.3	15823000001064	Evaporator	1	
26.4	15126000001526	Evaporator outer pipe	1	
26.5	15426000000354	Evaporator input pipe	1	
26.5.1	15426000000324	Filter subassembly	1	
26.5.1.1	15500213000909	Electronic expansion valve	1	
27	12223000001252	Right clapboard subassembly	1	
28	12223000008428	pipe clamp board	1	
29	12223000001253	Right, rear clapboard assembly	1	
30	17401204009025	Weak electric cable group	1	

NOTE CONCERNING PROTECTION OF ENVIRONMENT



This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

INFORMATION CONCERNING USED REFRIGERANT MEDIUM

This unit is containing fluorinated gases included in the Kyoto protocol. The maintenance and the liquidation must be carried out by qualified personnel.

Type of refrigerant: R410A

The composition of the cooling medium R410A: (50% HFC-32, 50% HFC-125)

The quantity of the refrigerant: please see the unit label.

The value GWP: 2088 (1 kg R410A = 2,088 t CO₂ eq)

GWP = Global Warming Potential

In case of quality problem or other please contact your local supplier or authorized service center.

Emergency number: 112

PRODUCER

SINCLAIR CORPORATION Ltd.

1-4 Argyll St.

London W1F 7LD

Great Britain

www.sinclair-world.com

This product was manufactured in China (Made in China).

REPRESENTATIVE

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