

TECHNICAL DATA

Indoor Unit

	Class	22	28	36	45	56	60	73	90	106	140	160
U1	4-Way Cassette	S-22MU1E51 S-22MU1E5	S-28MU1E51 S-28MU1E5	S-36MU1E51 S-36MU1E5	S-45MU1E51 S-45MU1E5	S-56MU1E51 S-56MU1E5	S-60MU1E51	S-73MU1E51 S-73MU1E5	S-90MU1E51	S-106MU1E51 S-106MU1E5	S-140MU1E51 S-140MU1E5	S-160MU1E51 S-160MU1E5
Y1	4-Way Cassette 60×60	S-22MY1E5	S-28MY1E5	S-36MY1E5	S-45MY1E5	S-56MY1E5						
L1	2-Way Cassette	S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5		S-73ML1E5				
D1	1-Way Cassette		S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5		S-73MD1E5				
F1	Low Silhouette Ducted	S-22MF1E5	S-28MF1E5	S-36MF1E5	S-45MF1E5	S-56MF1E5		S-73MF1E5	S-90MF1E5	S-106MF1E5	S-140MF1E5	S-160MF1E5
F2	Low Silhouette Ducted	S-22MF2E5	S-28MF2E5	S-36MF2E5	S-45MF2E5	S-56MF2E5	S-60MF2E5	S-73MF2E5	S-90MF2E5	S-106MF2E5	S-140MF2E5	S-160MF2E5
M1	Slim Low Static Ducted	S-22MM1E5	S-28MM1E5	S-36MM1E5	S-45MM1E5	S-56MM1E5						
T1	Ceiling			S-36MT1E5	S-45MT1E5	S-56MT1E5		S-73MT1E5		S-106MT1E5	S-140MT1E5	
K1	Wall Mounted	S-22MK1E5	S-28MK1E5	S-36MK1E5	S-45MK1E5	S-56MK1E5		S-73MK1E5		S-106MK1E5		
R1	Concealed Floor Standing	S-22MR1E5	S-28MR1E5	S-36MR1E5	S-45MR1E5	S-56MR1E5		S-71MR1E5				
P1	Floor Standing	S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5		S-71MP1E5				

	Class	73	106	140	224	280
E1	High Static Pressure Ducted	S-73ME1E5	S-106ME1E5	S-140ME1E5	S-224ME1E5	S-280ME1E5

Check of Density Limit

The room in which the air conditioner is to be installed requires a design that in the event of refrigerant gas leaking out, its density will not exceed a set limit.

The refrigerant (R410A), which is used in the air conditioner, is safe, without the toxicity or combustibility of ammonia, and is not restricted by laws imposed to protect the ozone layer. However, since it contains more than air, it poses the risk of suffocation if its density should rise excessively. Suffocation from leakage of refrigerant is almost non-existent. With the recent increase in the number of high density buildings, however, the installation of multi air conditioner systems is on the increase because of the need for effective use of floor space, individual control, energy conservation by curtailing heat and carrying power, etc.

Most importantly, the multi air conditioner system is able to replenish a large amount of refrigerant compared to conventional individual air conditioners. If a single unit of the multi air conditioner system is to be installed in a small room, select a suitable model and installation procedure so that if the refrigerant accidentally leaks out, its density does not reach the limit (and in the event of an emergency, measures can be made before injury can occur).

In a room where the density may exceed the limit, create an opening with adjacent rooms, or install mechanical ventilation combined with a gas leak detection device. The density is as given below.

Total amount of refrigerant (kg)

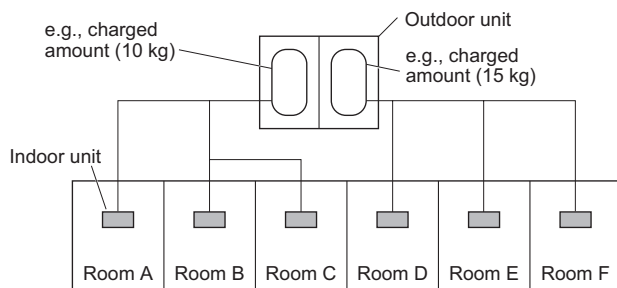
$$\text{Min. volume of the indoor unit installed room (m}^3\text{)} \leq \text{Density limit (kg/m}^3\text{)}$$

The density limit of refrigerant which is used in multi air conditioners is 0.3 kg/m^3 (ISO 5149).

NOTE

1. If there are 2 or more refrigerating systems in a single refrigerating device, the amount of refrigerant should be as charged in each independent device.

For the amount of charge in this example:

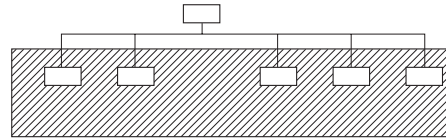


The possible amount of leaked refrigerant gas in rooms A, B and C is 10 kg.

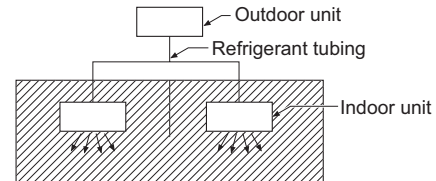
The possible amount of leaked refrigerant gas in rooms D, E and F is 15 kg.

2. The standards for minimum room volume are as follows.

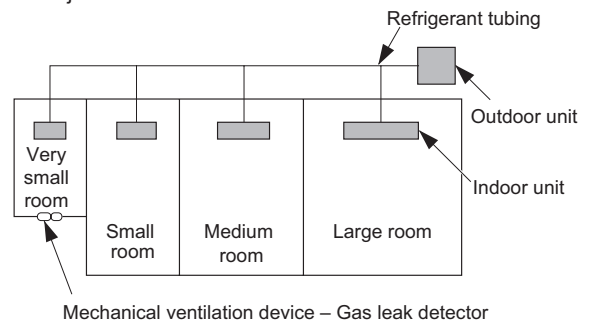
- (1) No partition (shaded portion)



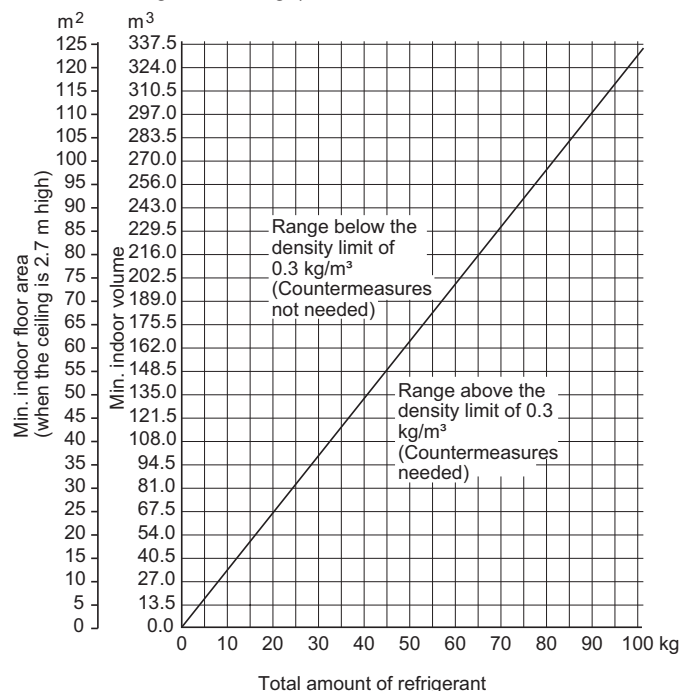
- (2) When there is an effective opening with the adjacent room for ventilation of leaking refrigerant gas (opening without a door, or an opening 0.15% or larger than the respective floor spaces at the top or bottom of the door).



- (3) If an indoor unit is installed in each partitioned room and the refrigerant tubing is interconnected, the smallest room of course becomes the object. But when mechanical ventilation is installed interlocked with a gas leakage detector in the smallest room where the density limit is exceeded, the volume of the next smallest room becomes the object.



3. The minimum indoor floor space compared with the amount of refrigerant is roughly as follows: (When the ceiling is 2.7 m high)



Precautions for Installation Using New Refrigerant

1. Care regarding tubing

1-1. Process tubing

- Material: Use C1220 phosphorous deoxidized copper specified in JIS H3300 "Copper and Copper Alloy Seamless Pipes and Tubes." For tubes of $\phi 22.22$ or larger, use C1220 T-1/2H material or H material, and do not bend the tubes.
- **Tubing size: Be sure to use the sizes indicated in the table below.**
- Use a tube cutter when cutting the tubing, and be sure to remove any flash. This also applies to distribution joints (optional).
- When bending tubing, use a bending radius that is 4 times the outer diameter of the tubing or larger.



CAUTION

Use sufficient care in handling the tubing. Seal the tubing ends with caps or tape to prevent dirt, moisture, or other foreign substances from entering. These substances can result in system malfunction.

Unit: mm

Material		O				
Copper tube	Outer diameter	6.35	9.52	12.7	15.88	19.05
	Wall thickness	0.8	0.8	0.8	1.0	1.2

Unit: mm

Material		1/2 H, H					
Copper tube	Outer diameter	22.22	25.4	28.58	31.75	38.1	41.28
	Wall thickness	1.0	1.0	1.0	1.1	over 1.35	over 1.45

1-2. Prevent impurities including water, dust and oxide from entering the tubing. Impurities can cause R410A refrigerant deterioration and compressor defects. Due to the features of the refrigerant and refrigerating machine oil, the prevention of water and other impurities becomes more important than ever.

2. Be sure to recharge the refrigerant only in liquid form.

- 2-1. Since R410A is a non-azeotrope, recharging the refrigerant in gas form can lower performance and cause defects in the unit.
- 2-2. Since refrigerant composition changes and performance decreases when gas leaks, collect the remaining refrigerant and recharge the required total amount of new refrigerant after fixing the leak.

3. Different tools required

3-1. Tool specifications have been changed due to the characteristics of R410A.

Some tools for R22- and R407C-type refrigerant systems cannot be used.

Item	New tool?	R407C tools compatible with R410A?	Remarks
Manifold gauge	Yes	No	Types of refrigerant, refrigerating machine oil, and pressure gauge are different.
Charge hose	Yes	No	To resist higher pressure, material must be changed.
Vacuum pump	Yes	Yes	Use a conventional vacuum pump if it is equipped with a check valve. If it has no check valve, purchase and attach a vacuum pump adapter.
Leak detector	Yes	No	Leak detectors for CFC and HCFC that react to chlorine do not function because R410A contains no chlorine. Leak detectors for HFC134a can be used for R410A.
Flaring oil	Yes	No	For systems that use R22, apply mineral oil (Suniso oil) to the flare nuts on the tubing to prevent refrigerant leakage. For machines that use R407C or R410A, apply synthetic oil (ether oil) to the flare nuts.

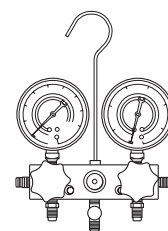
* Using tools for R22 and R407C and new tools for R410A together can cause defects.

3-2. Use R410A exclusive cylinder only.

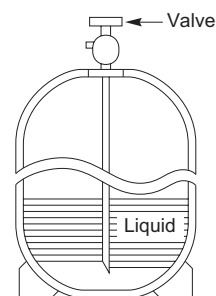
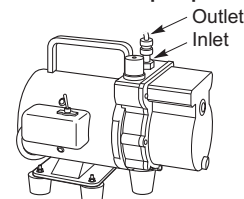
Single-outlet valve

(with siphon tube)
Liquid refrigerant should be recharged with the cylinder standing on end as shown.

Manifold gauge



Vacuum pump



3. Electrical Wiring



CAUTION

- (1) When linking outdoor units in a network, disconnect the terminal extended from the short plug (CN072, 2P Black, location: right bottom on the outdoor main control PCB) from all outdoor units except any one of the outdoor units.
(When shipping: In shorted condition.)
For a system without link (no connection wiring between outdoor units), do not remove the short plug.
- (2) Do not install the inter-unit control wiring in a way that forms a loop. (Fig. 2-2)

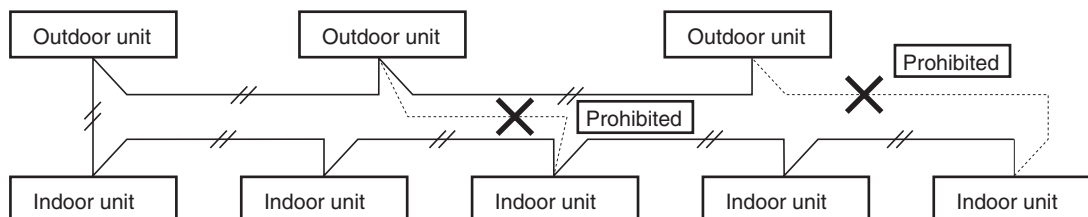


Fig. 2-2

- (3) Do not install inter-unit control wiring such as star branch wiring. Star branch wiring causes misaddress setting.

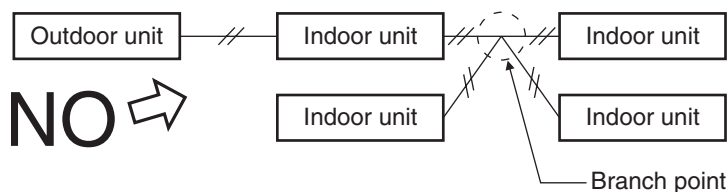


Fig. 2-3

- (4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer. (Branches less than 1 m are not included in the total branch number.) (Fig. 2-4)

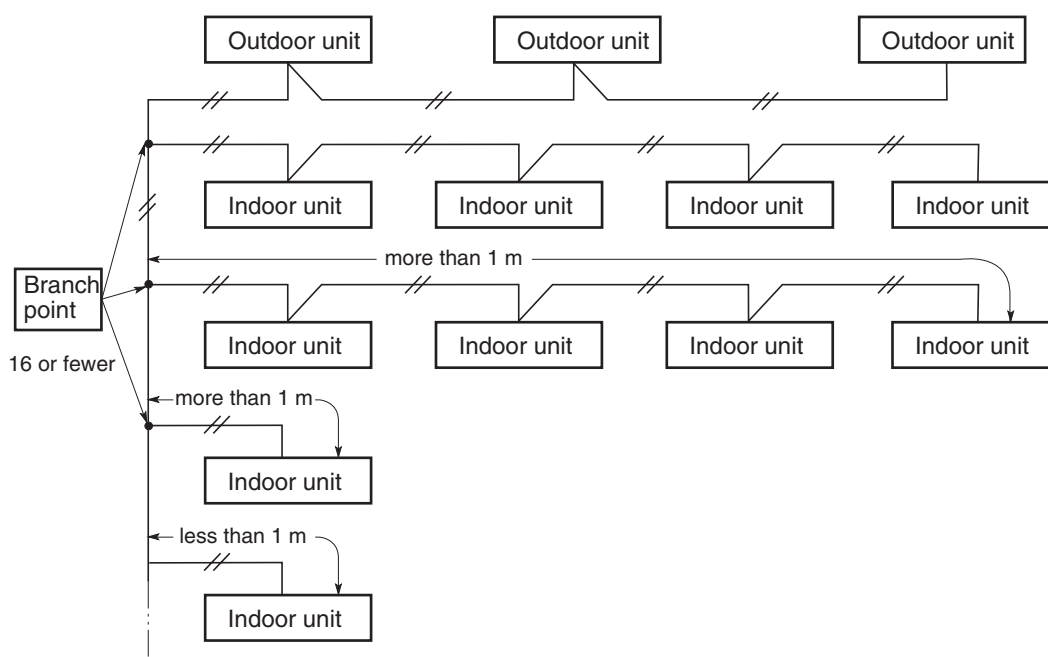


Fig. 2-4

3. Electrical Wiring

- (5) Use shielded wires for inter-unit control wiring (c) and ground the shield on both sides, otherwise misoperation from noise may occur. (Fig. 2-5)
Connect wiring as shown in Section “3-3. Wiring System Diagram.”
- (6) Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conforms to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (245 IEC57, 245 IEC66)

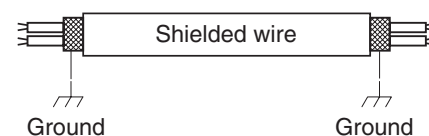


Fig. 2-5



WARNING

Loose wiring may cause the terminal to overheat or result in unit malfunction.
A fire hazard may also exist.
Therefore, ensure that all wiring is tightly connected.

When connecting each power wire to the terminal, follow the instructions on “How to connect wiring to the terminal” and fasten the wire securely with the fixing screw of the terminal plate.

How to connect wiring to the terminal

■ For stranded wiring

- (1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends. (Fig. 2-6)
- (2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal plate.
- (3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
- (4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver. (Fig. 2-7)

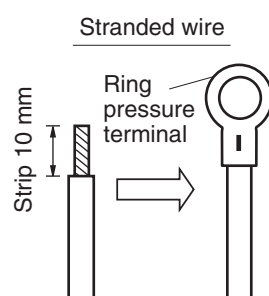


Fig. 2-6

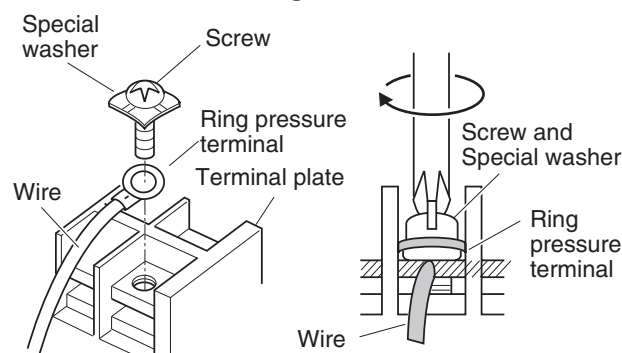


Fig. 2-7

■ Examples of shield wires

- (1) Remove cable coat not to scratch braided shield. (Fig. 2-8)
- (2) Ravel braided shield carefully and put tightly braided shield together.
Coat with insulation tube or wrap insulation tape after putting tightly. (Fig. 2-9)
- (3) Remove coat of signal wire. (Fig. 2-10)
- (4) Connect signal wire removed coat and shield wire with pressure terminal. (Fig. 2-11)



Fig. 2-8

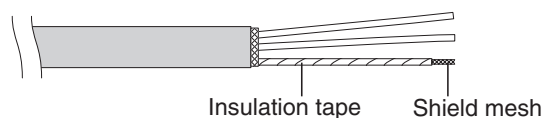


Fig. 2-9

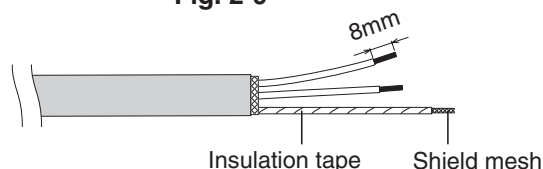


Fig. 2-10

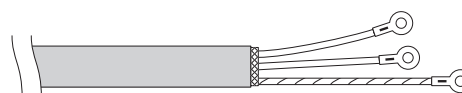


Fig. 2-11

■ Earth wire for power supply

The earth wire should be longer than the other lead wires for electrical safety.

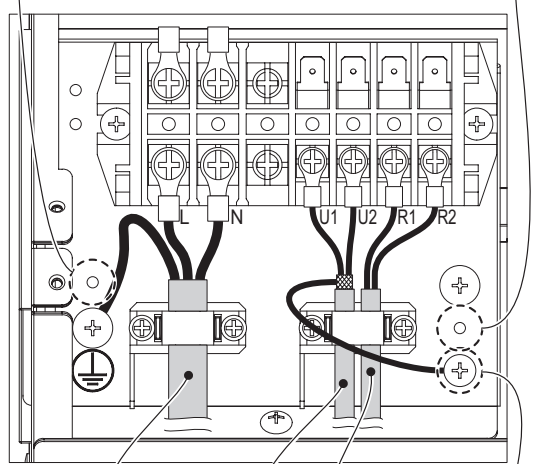
3. Electrical Wiring

■ Wiring sample

Indoor Unit : F1 Type

Protective ground screw (External Solenoid Valve Kit for 3WAY)

Functional ground screw (External Electronic Expansion Valve Kit and Schedule Timer)



Power Supply

Remote Control Wiring

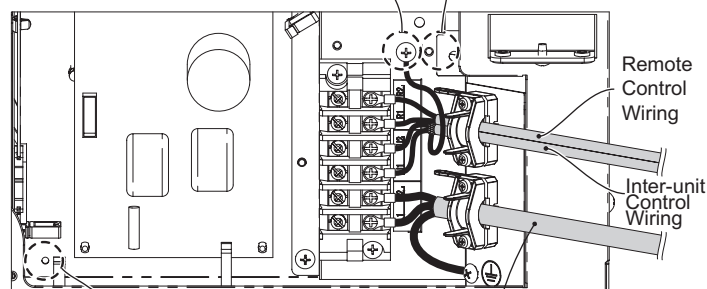
Inter-unit Control Wiring

Use this screw when connecting to ground the shield for the Inter-unit control wiring.

Indoor Unit : F2 type

Functional ground screw (External Electronic Expansion Valve Kit and Schedule Timer)

Use this screw when connecting the shield for the Inter-unit control wiring to ground.



Protective ground screw (External Solenoid Valve Kit for 3WAY)

Power Supply

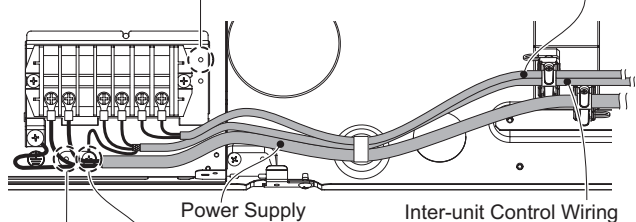
Remote Control Wiring

Inter-unit Control Wiring

Indoor Unit : D1 Type

Protective ground screw (External Solenoid Valve Kit for 3WAY)

Remote Control Wiring



Power Supply

Inter-unit Control Wiring

Use this screw when connecting to ground the shield for the Inter-unit control wiring.

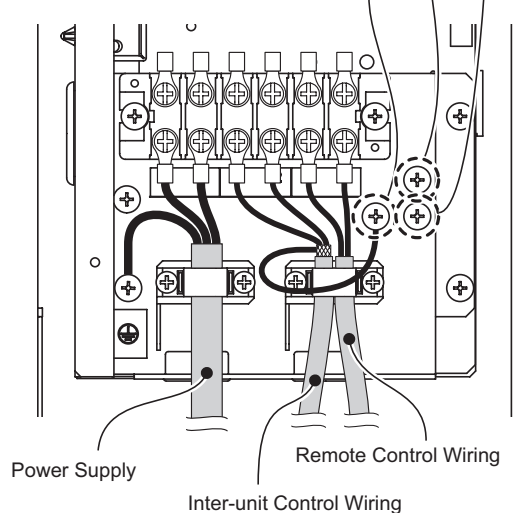
Functional ground screw (External Electronic Expansion Valve Kit and Schedule Timer)

Indoor Unit : P1 and R1 Types

Protective ground screw (External Solenoid Valve Kit for 3WAY)

Functional ground screw (External Electronic Expansion Valve Kit and Schedule Timer)

Use this screw when connecting to ground the shield for the Inter-unit control wiring.



Power Supply

Remote Control Wiring

Inter-unit Control Wiring

13. 1-Way Cassette Type (D1 Type)

13-1. Specifications

Unit specifications (A)

MODEL No.			Indoor Unit		S-28MD1E5					
POWER SOURCE					220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE					Cooling			Heating		
	Capacity		kW		2.8			3.2		
			BTU / h		9,600			11,000		
	Air circulation (Hi / Me / Lo)		m³ / h		720 / 600 / 540					
	Moisture removal (High)		Liters / h		0.6			—		
ELECTRICAL RATINGS										
	Voltage rating		V		220	230	240	220	230	240
	Available voltage range		V		198 - 264			198 - 264		
	Running amperes		A		0.40	0.39	0.39	0.36	0.35	0.35
	Power input		W		50	51	52	39	40	42
	Power factor		%		57	57	56	49	50	50
	Max. starting amperes		A		1	1	1	1	1	1
FEATURES										
	Controls				Microprocessor					
	Timer				ON / OFF Timer (Max. 72 hr)					
	Fan speeds				3 and Automatic control					
	Air flow direction				Automatic (Remote control)					
	Air filter				Washable, easy access, long life (2,500 hr)					
	Refrigerant control				Electronic expansion valve					
	Operation sound (Hi / Me / Lo)		dB-A		36 / 34 / 33					
	Refrigerant tubing connections				Flare type					
	Refrigerant tube diameter	Liquid tube	mm (in.)		6.35 (1 / 4)					
		Gas tube	mm (in.)		12.7 (1 / 2)					
	Drain connection				25 A, OD32 mm					
	Drain pump				Max. head 700 mm above drain connection					
	Panel				Optional (CZ-KPD2)					
	Remote controller				Optional (Wired / Wireless)					
Refrigerant tubing kit / Accessories				Optional / Accessory cable						
Color (Approximate value)				Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)						
DIMENSIONS & WEIGHT					Indoor unit (including panel)			Package		
			Body					Panel		
	Unit dimensions	Height	mm (in.)		220 (8-21 / 32)			235 (9-1 / 4)		130 (5-1 / 8)
		Width	mm (in.)		1230 (48-7 / 16)			1270 (50)		1260 (49-39 / 64)
		Depth	mm (in.)		800 (31-1 / 2)			790 (31-3 / 32)		875 (34-7 / 16)
Net weight		kg (lbs.)		21+5.5 (46+12)			—		—	
Shipping weight		kg (lbs.)		—			23.5 (52)		7.5 (17)	
Shipping volume		m³ (cu.ft)		—			0.236 (8.3)		0.143 (5.1)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

13. 1-Way Cassette Type (D1 Type)

Unit specifications (B)

MODEL No.		Indoor Unit		S-36MD1E5					
POWER SOURCE				220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE				Cooling			Heating		
	Capacity		kW	3.6			4.2		
			BTU / h	12,000			14,000		
	Air circulation (Hi / Me / Lo)		m³ / h	720 / 600 / 540					
	Moisture removal (High)		Liters / h	1.3			–		
ELECTRICAL RATINGS									
	Voltage rating		V	220	230	240	220	230	240
	Available voltage range		V	198 - 264			198 - 264		
	Running amperes		A	0.40	0.39	0.39	0.36	0.35	0.35
	Power input		W	50	51	52	39	40	42
	Power factor		%	57	57	56	49	50	50
	Max. starting amperes		A	1	1	1	1	1	1
FEATURES									
	Controls		Microprocessor						
	Timer		ON / OFF Timer (Max. 72 hr)						
	Fan speeds		3 and Automatic control						
	Air flow direction		Automatic (Remote control)						
	Air filter		Washable, easy access, long life (2,500 hr)						
	Refrigerant control		Electronic expansion valve						
	Operation sound (Hi / Me / Lo)		dB-A	36 / 34 / 33					
	Refrigerant tubing connections		Flare type						
	Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
		Gas tube	mm (in.)	12.7 (1 / 2)					
	Drain connection		25 A, OD32 mm						
	Drain pump		Max. head 700 mm above drain connection						
	Panel		Optional (CZ-KPD2)						
	Remote controller		Optional (Wired / Wireless)						
	Refrigerant tubing kit / Accessories		Optional / Accessory cable						
Color (Approximate value)		Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)							
DIMENSIONS & WEIGHT				Indoor unit (including panel)		Package			
		Body				Panel			
	Unit dimensions	Height	mm (in.)	220 (8-21 / 32)		235 (9-1 / 4)		130 (5-1 / 8)	
		Width	mm (in.)	1230 (48-7 / 16)		1270 (50)		1260 (49-39 / 64)	
		Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)		875 (34-7 / 16)	
Net weight		kg (lbs.)		21+5.5 (46+12)		–		–	
Shipping weight		kg (lbs.)		–		23.5 (52)		7.5 (17)	
Shipping volume		m³ (cu.ft)		–		0.236 (8.3)		0.143 (5.1)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

13. 1-Way Cassette Type (D1 Type)

Unit specifications (C)

MODEL No.		Indoor Unit		S-45MD1E5					
POWER SOURCE				220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE				Cooling			Heating		
	Capacity		kW	4.5			5.0		
			BTU / h	15,000			17,000		
	Air circulation (Hi / Me / Lo)		m³ / h	720 / 660 / 600					
	Moisture removal (High)		Liters / h	1.3		–			
ELECTRICAL RATINGS									
	Voltage rating		V	220	230	240	220	230	240
	Available voltage range		V	198 - 264			198 - 264		
	Running amperes		A	0.40	0.39	0.39	0.36	0.35	0.35
	Power input		W	50	51	52	39	40	42
	Power factor		%	57	57	56	49	50	50
	Max. starting amperes		A	1	1	1	1	1	1
FEATURES									
	Controls		Microprocessor						
	Timer		ON / OFF Timer (Max. 72 hr)						
	Fan speeds		3 and Automatic control						
	Air flow direction		Automatic (Remote control)						
	Air filter		Washable, easy access, long life (2,500 hr)						
	Refrigerant control		Electronic expansion valve						
	Operation sound (Hi / Me / Lo)		dB-A	36 / 35 / 34					
	Refrigerant tubing connections			Flare type					
	Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
		Gas tube	mm (in.)	12.7 (1 / 2)					
	Drain connection			25 A, OD32 mm					
	Drain pump			Max. head 700 mm above drain connection					
	Panel			Optional (CZ-KPD2)					
	Remote controller			Optional (Wired / Wireless)					
	Refrigerant tubing kit / Accessories			Optional / Accessory cable					
Color (Approximate value)			Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)						
DIMENSIONS & WEIGHT				Indoor unit (including panel)		Package			
		Body				Panel			
	Unit dimensions	Height	mm (in.)	220 (8-21 / 32)		235 (9-1 / 4)		130 (5-1 / 8)	
		Width	mm (in.)	1230 (48-7 / 16)		1270 (50)		1260 (49-39 / 64)	
		Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)		875 (34-7 / 16)	
Net weight			kg (lbs.)	21+5.5 (46+12)		–		–	
Shipping weight			kg (lbs.)	–		23.5 (52)		7.5 (17)	
Shipping volume			m³ (cu.ft)	–		0.236 (8.3)		0.143 (5.1)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

13. 1-Way Cassette Type (D1 Type)

Unit specifications (D)

MODEL No.		Indoor Unit		S-56MD1E5					
POWER SOURCE				220 - 230 - 240 V, single-phase, 50/60 Hz					
PERFORMANCE				Cooling			Heating		
	Capacity	kW	5.6			6.3			
		BTU / h	19,000			21,000			
	Air circulation (Hi / Me / Lo)		m³ / h	780 / 690 / 600					
	Moisture removal (High)		Liters / h	2.5			–		
ELECTRICAL RATINGS									
	Voltage rating		V	220	230	240	220	230	240
	Available voltage range		V	198 - 264			198 - 264		
	Running amperes		A	0.46	0.46	0.46	0.42	0.41	0.41
	Power input		W	58	60	61	46	48	49
	Power factor		%	57	57	55	50	51	50
	Max. starting amperes		A	1	1	1	1	1	1
FEATURES									
	Controls		Microprocessor						
	Timer		ON / OFF Timer (Max. 72 hr)						
	Fan speeds		3 and Automatic control						
	Air flow direction		Automatic (Remote control)						
	Air filter		Washable, easy access, long life (2,500 hr)						
	Refrigerant control		Electronic expansion valve						
	Operation sound (Hi / Me / Lo)		dB-A	38 / 36 / 34					
	Refrigerant tubing connections		Flare type						
	Refrigerant tube diameter	Liquid tube	mm (in.)	6.35 (1 / 4)					
		Gas tube	mm (in.)	12.7 (1 / 2)					
	Drain connection		25 A, OD32 mm						
	Drain pump		Max. head 700 mm above drain connection						
	Panel		Optional (CZ-KPD2)						
	Remote controller		Optional (Wired / Wireless)						
	Refrigerant tubing kit / Accessories		Optional / Accessory cable						
Color (Approximate value)		Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)							
DIMENSIONS & WEIGHT				Indoor unit (including panel)		Package			
		Body				Panel			
	Unit dimensions	Height	mm (in.)	220 (8-21 / 32)		235 (9-1 / 4)		130 (5-1 / 8)	
		Width	mm (in.)	1230 (48-7 / 16)		1270 (50)		1260 (49-39 / 64)	
		Depth	mm (in.)	800 (31-1 / 2)		790 (31-3 / 32)		875 (34-7 / 16)	
Net weight		kg (lbs.)	21+5.5 (46+12)		–		–		
Shipping weight		kg (lbs.)	–		23.5 (52)		7.5 (17)		
Shipping volume		m³ (cu.ft)	–		0.236 (8.3)		0.143 (5.1)		

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

13. 1-Way Cassette Type (D1 Type)

Unit specifications (E)

MODEL No.		Indoor Unit		S-73MD1E5						
POWER SOURCE				220 - 230 - 240 V, single-phase, 50/60 Hz						
PERFORMANCE				Cooling			Heating			
	Capacity	kW		7.3			8.0			
		BTU / h		25,000			27,000			
	Air circulation (Hi / Me / Lo)		m³ / h		1,080 / 900 / 780					
	Moisture removal (High)		Liters / h		3.3			–		
ELECTRICAL RATINGS										
	Voltage rating		V		220	230	240	220	230	240
	Available voltage range		V		198 - 264			198 - 264		
	Running amperes		A		0.71	0.70	0.69	0.66	0.65	0.63
	Power input		W		86	87	89	75	76	77
	Power factor		%		55	54	54	52	51	51
	Max. starting amperes		A		1	1	1	1	1	1
FEATURES										
	Controls				Microprocessor					
	Timer				ON / OFF Timer (Max. 72 hr)					
	Fan speeds				3 and Automatic control					
	Air flow direction				Automatic (Remote control)					
	Air filter				Washable, easy access, long life (2,500 hr)					
	Refrigerant control				Electronic expansion valve					
	Operation sound (Hi / Me / Lo)		dB-A		45 / 40 / 36					
	Refrigerant tubing connections				Flare type					
	Refrigerant tube diameter	Liquid tube	mm (in.)		9.52 (3 / 8)					
		Gas tube	mm (in.)		15.88 (5 / 8)					
	Drain connection				25 A, OD32 mm					
	Drain pump				Max. head 700 mm above drain connection					
	Panel				Optional (CZ-KPD2)					
	Remote controller				Optional (Wired / Wireless)					
	Refrigerant tubing kit / Accessories				Optional / Accessory cable					
Color (Approximate value)				Munsell 2.5GY 9.0 / 0.5, RAL 9001-GL (resemblant color)						
DIMENSIONS & WEIGHT				Indoor unit (including panel)			Package			
							Body		Panel	
	Unit dimensions	Height	mm (in.)	220 (8-21 / 32)			235 (9-1 / 4)		130 (5-1 / 8)	
		Width	mm (in.)	1230 (48-7 / 16)			1270 (50)		1260 (49-39 / 64)	
		Depth	mm (in.)	800 (31-1 / 2)			790 (31-3 / 32)		875 (34-7 / 16)	
Net weight		kg (lbs.)		22+5.5 (49+12)			–		–	
Shipping weight		kg (lbs.)		–			24.5 (54)		7.5 (17)	
Shipping volume		m³ (cu.ft)		–			0.236 (8.3)		0.143 (5.1)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Rated conditions

Cooling: Indoor air temperature 27°C DB / 19°C WB; Outdoor air temperature 35°C DB

Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

13. 1-Way Cassette Type (D1 Type)

13-2. Major Component Specifications

Indoor unit (A)

MODEL No.		S-28MD1E5
Power source		220 - 230 - 240 V, single-phase, 50/60 Hz
Controller P.C.B. Ass'y		CR-SXRP56B-B (Microprocessor)
Fan (Number...diameter)	mm	Centrifugal (1...ø140)
Fan motor		
Model...Nominal output	W	DK8-63C280H...50 W
Power source		340 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,010
Coil resistance (Ambient temperature 20°C)	Ω	RED - WHT : 53.0 WHT - BLU : 53.0 BLU - RED : 53.0
Safety device		overcurrent, rotating signal detection, fuse
Run capacitor	VAC, μF	—
Electronic expansion valve		
Coil		UKV-U030E
Coil resistance (at 20°C)	Ω	ORG - GRY : 46 YEL - GRY : 46 RED - GRY : 46 BLK - GRY : 46
Valve body		UKV-18D31
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...fin pitch	mm	3...1.4
Face area	m ²	0.154
Panel		
Model No.		CZ-KPD2
Auto louver motor		MP24GA1
Coil resistance (at 25°C)	Ω	380 Ω ± 7%
Drain pump		ADP-1414
Rated	V, W	AC 230 V, 50/60 Hz, 12/11 W
Total head & capacity		700 mm, 400 cc/min

13. 1-Way Cassette Type (D1 Type)

Indoor unit (B)

MODEL No.		S-36MD1E5
Power source		220 - 230 - 240 V, single-phase, 50/60 Hz
Controller P.C.B. Ass'y		CR-SXRP56B-B (Microprocessor)
Fan (Number...diameter)	mm	Centrifugal (2...ø140)
Fan motor		
Model...Nominal output	W	DK8-63C280H...50 W
Power source		340 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,010
Coil resistance (Ambient temperature 20°C)	Ω	RED - WHT : 53.0 WHT - BLU : 53.0 BLU - RED : 53.0
Safety device		overcurrent, rotating signal detection, fuse
Run capacitor	VAC, μF	—
Electronic expansion valve		
Coil		UKV-U030E
Coil resistance (at 20°C)	Ω	ORG - GRY : 46 YEL - GRY : 46 RED - GRY : 46 BLK - GRY : 46
Valve body		UKV-18D31
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...fin pitch	mm	3...1.4
Face area	m ²	0.154
Panel		
Model No.		CZ-KPD2
Auto louver motor		MP24GA1
Coil resistance (at 25°C)	Ω	380 Ω ± 7%
Drain pump		ADP-1414
Rated	V, W	AC 230 V, 50/60 Hz, 12/11 W
Total head & capacity		700 mm, 400 cc/min

13. 1-Way Cassette Type (D1 Type)

Indoor unit (C)

MODEL No.		S-45MD1E5
Power source		220 - 230 - 240 V, single-phase, 50/60 Hz
Controller P.C.B. Ass'y		CR-SXRP56B-B (Microprocessor)
Fan (Number...diameter)	mm	Centrifugal (2...ø140)
Fan motor		
Model...Nominal output	W	DK8-63C280H...50 W
Power source		340 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,010
Coil resistance (Ambient temperature 20°C)	Ω	RED - WHT : 53.0 WHT - BLU : 53.0 BLU - RED : 53.0
Safety device		overcurrent, rotating signal detection, fuse
Run capacitor	VAC, μF	—
Electronic expansion valve		
Coil		UKV-U030E
Coil resistance (at 20°C)	Ω	ORG - GRY : 46 YEL - GRY : 46 RED - GRY : 46 BLK - GRY : 46
Valve body		UKV-25D32
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...fin pitch	mm	3...1.4
Face area	m ²	0.154
Panel		
Model No.		CZ-KPD2
Auto louver motor		MP24GA1
Coil resistance (at 25°C)	Ω	380 Ω ± 7%
Drain pump		ADP-1414
Rated	V, W	AC 230 V, 50/60 Hz, 12/11 W
Total head & capacity		700 mm, 400 cc/min

13. 1-Way Cassette Type (D1 Type)

Indoor unit (D)

MODEL No.		S-56MD1E5
Power source		220 - 230 - 240 V, single-phase, 50/60 Hz
Controller P.C.B. Ass'y		CR-SXRP56B-B (Microprocessor)
Fan (Number...diameter)	mm	Centrifugal (2...ø140)
Fan motor		
Model...Nominal output	W	DK8-63C280H...50 W
Power source		340 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,010
Coil resistance (Ambient temperature 20°C)	Ω	RED - WHT : 53.0 WHT - BLU : 53.0 BLU - RED : 53.0
Safety device		overcurrent, rotating signal detection, fuse
Run capacitor	VAC, μF	—
Electronic expansion valve		
Coil		UKV-U030E
Coil resistance (at 20°C)	Ω	ORG - GRY : 46 YEL - GRY : 46 RED - GRY : 46 BLK - GRY : 46
Valve body		UKV-25D32
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...fin pitch	mm	3...1.4
Face area	m ²	0.154
Panel		
Model No.		CZ-KPD2
Auto louver motor		MP24GA1
Coil resistance (at 25°C)	Ω	380 Ω ± 7%
Drain pump		ADP-1414
Rated	V, W	AC 230 V, 50/60 Hz, 12/11 W
Total head & capacity		700 mm, 400 cc/min

13. 1-Way Cassette Type (D1 Type)

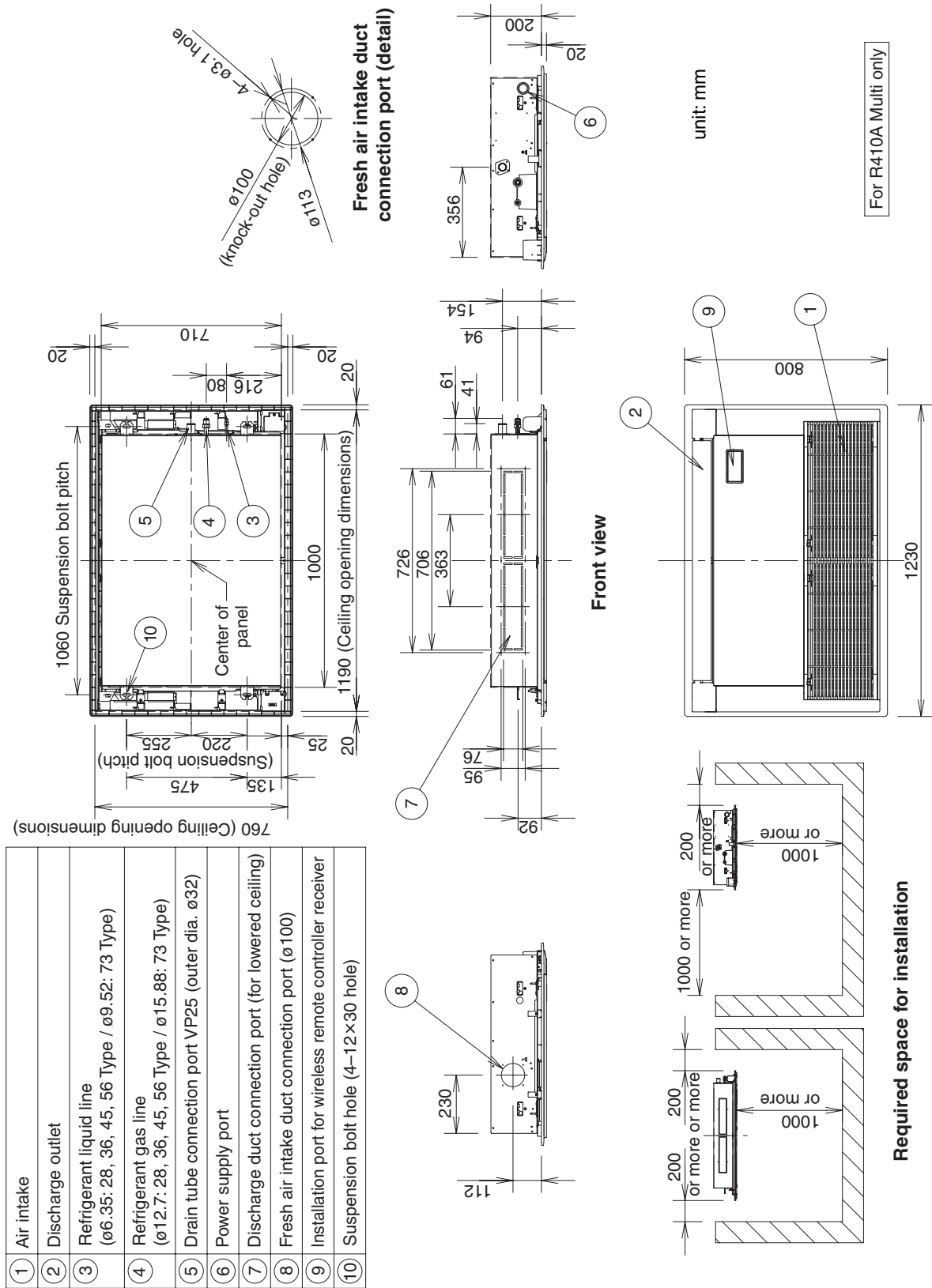
Indoor unit (E)

MODEL No.		S-73MD1E5
Power source		220 - 230 - 240 V, single-phase, 50/60 Hz
Controller P.C.B. Ass'y		CR-SXRP56B-B (Microprocessor)
Fan (Number...diameter)	mm	Centrifugal (2...ø140)
Fan motor		
Model...Nominal output	W	DK8-63C280H...50 W
Power source		340 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,010
Coil resistance (Ambient temperature 20°C)	Ω	RED - WHT : 53.0 WHT - BLU : 53.0 BLU - RED : 53.0
Safety device		overcurrent, rotating signal detection, fuse
Run capacitor	VAC, μF	—
Electronic expansion valve		
Coil		UKV-U030E
Coil resistance (at 20°C)	Ω	ORG - GRY : 46 YEL - GRY : 46 RED - GRY : 46 BLK - GRY : 46
Valve body		UKV-25D32
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...fin pitch	mm	3...1.4
Face area	m ²	0.154
Panel		
Model No.		CZ-KPD2
Auto louver motor		MP24GA1
Coil resistance (at 25°C)	Ω	380 Ω ± 7%
Drain pump		ADP-1414
Rated	V, W	AC 230 V, 50/60 Hz, 12/11 W
Total head & capacity		700 mm, 400 cc/min

13. 1-Way Cassette Type (D1 Type)

13-3. Dimensional Data

Indoor unit: S-28MD1E5 / 36MD1E5 / 45MD1E5 / 56MD1E5 / 73MD1E5



13. 1-Way Cassette Type (D1 Type)

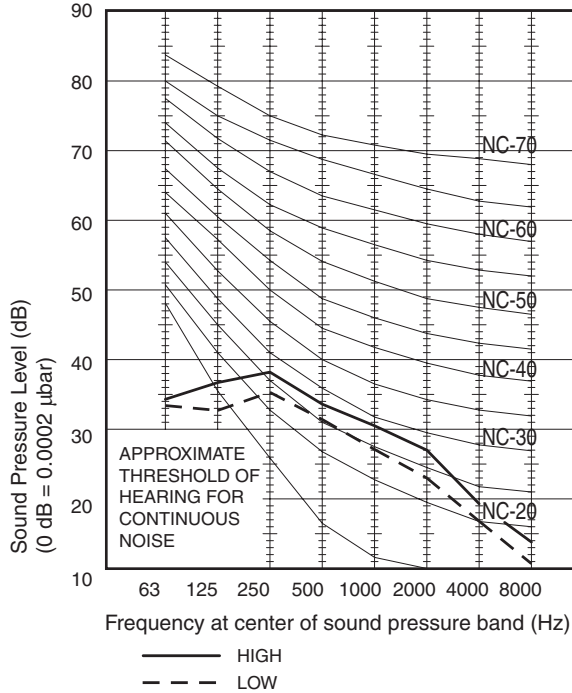
13-4. Noise Criterion Curves

MODEL : S-28MD1E5
-36MD1E5

SOUND LEVEL : HIGH 36 dB(A), NC 29 / LOW 33 dB(A), NC 25

CONDITION : Under the unit 1.5 m

SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz

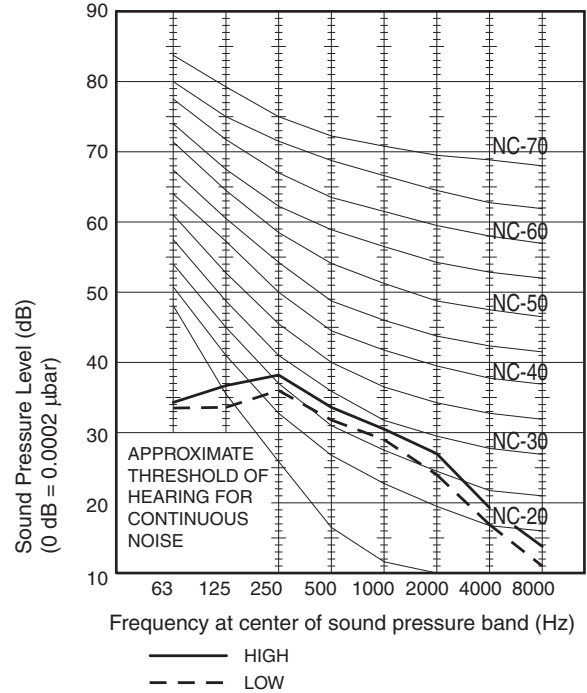


MODEL : S-45MD1E5

SOUND LEVEL : HIGH 36 dB(A), NC 29 / LOW 34 dB(A), NC 27

CONDITION : Under the unit 1.5 m

SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz

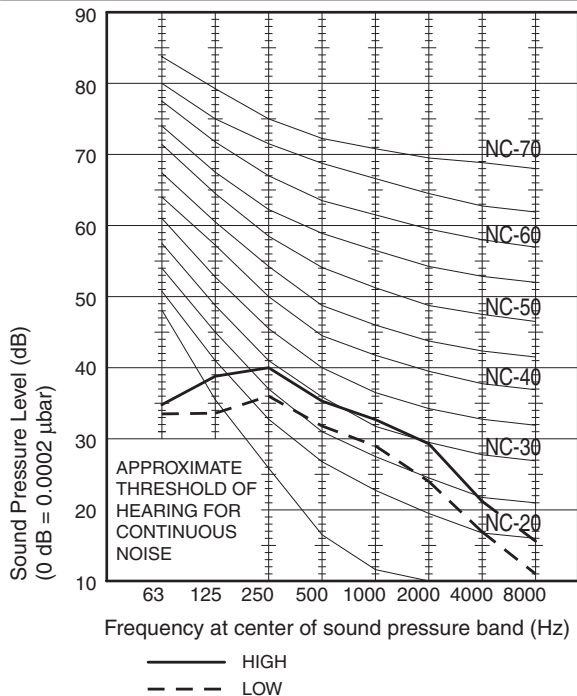


MODEL : S-56MD1E5

SOUND LEVEL : HIGH 38 dB(A), NC 31 / LOW 34 dB(A), NC 27

CONDITION : Under the unit 1.5 m

SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz

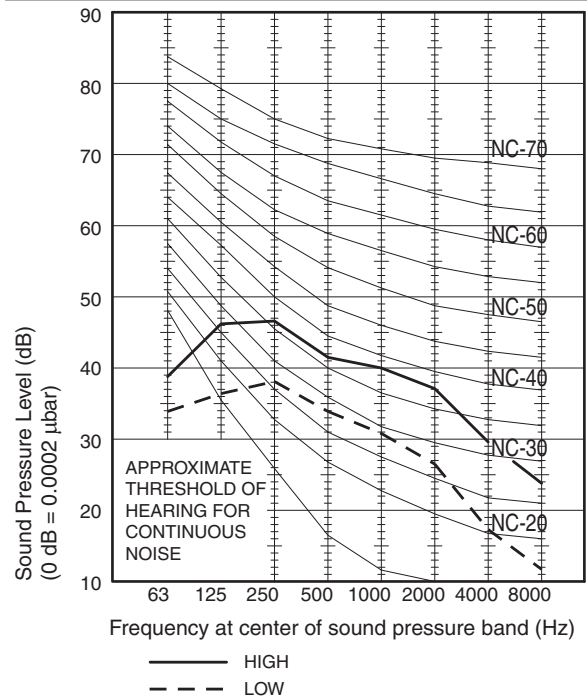


MODEL : S-73MD1E5

SOUND LEVEL : HIGH 45 dB(A), NC 38 / LOW 36 dB(A), NC 29

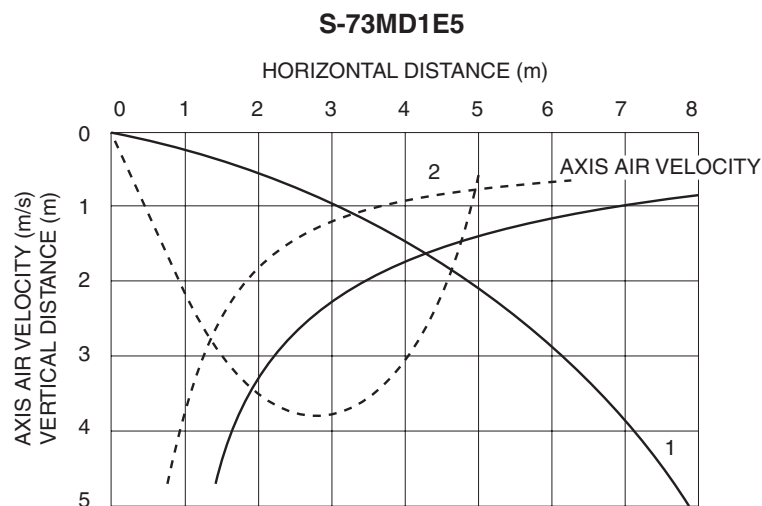
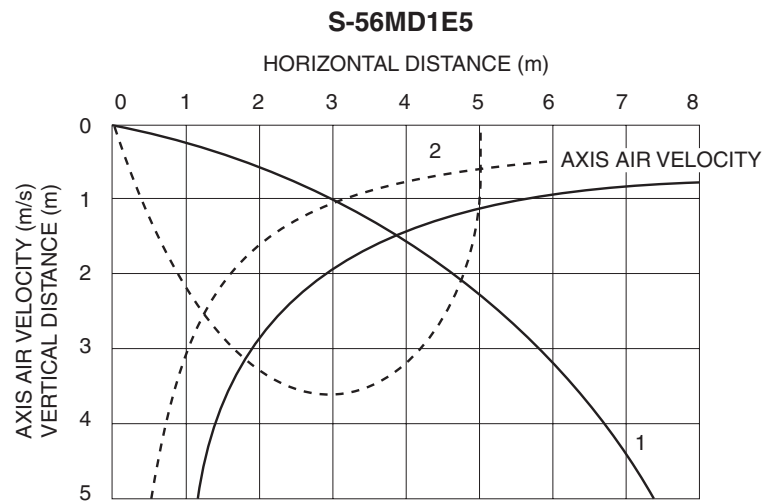
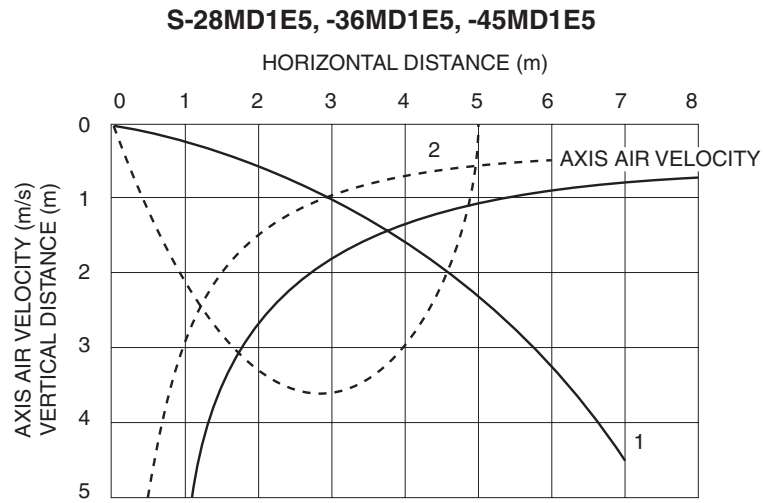
CONDITION : Under the unit 1.5 m

SOURCE : 220 - 230 - 240 V, Single-phase, 50/60 Hz



13. 1-Way Cassette Type (D1 Type)

13-5. Air Flow Distance Chart



Condition Fan Speed : Hi
Room air temp. : 27°C DB in Cooling mode
20°C DB in Heating mode

1 : LOUVER ANGLE 15° in Cooling mode
2 : LOUVER ANGLE 65° in Heating mode

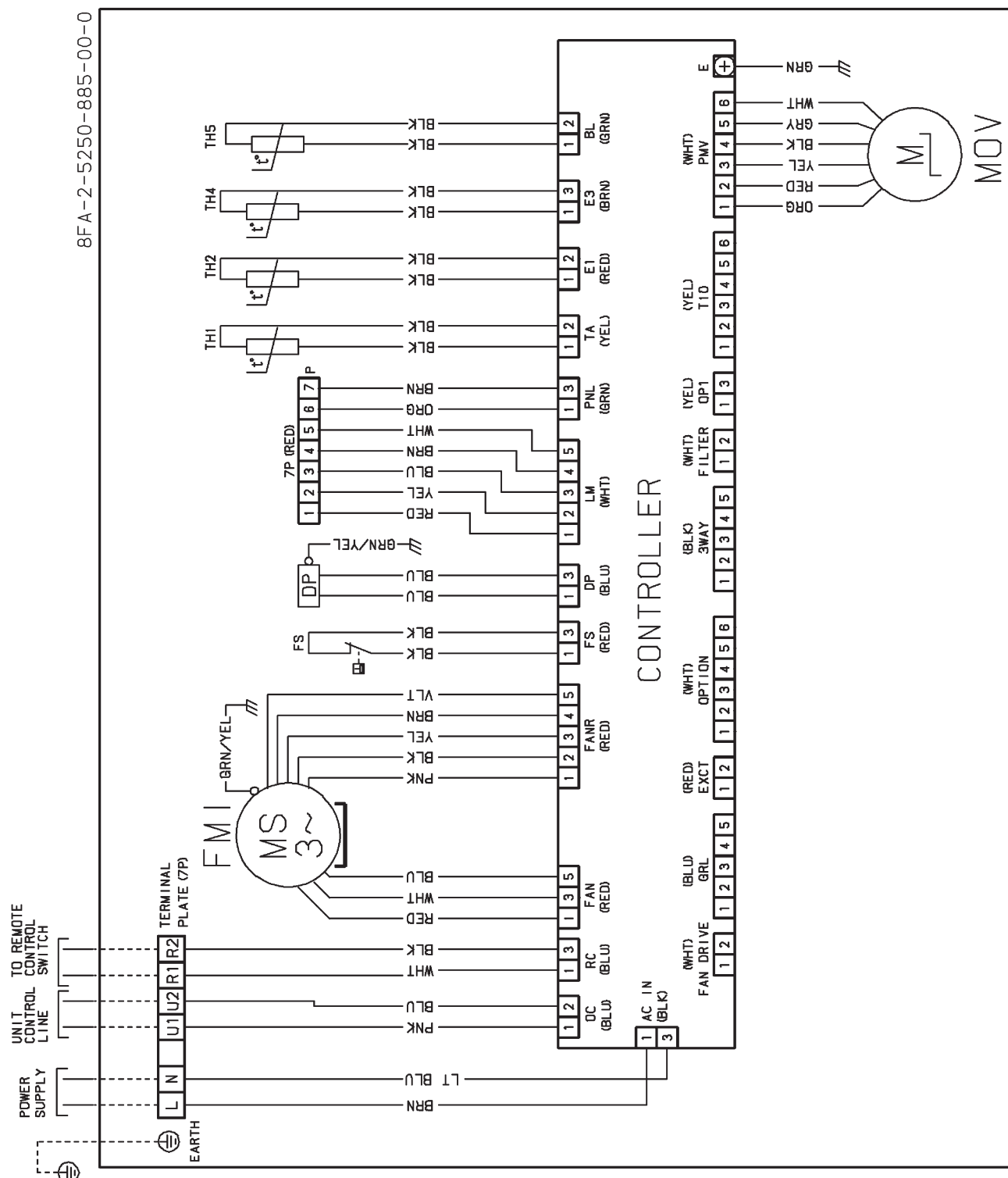
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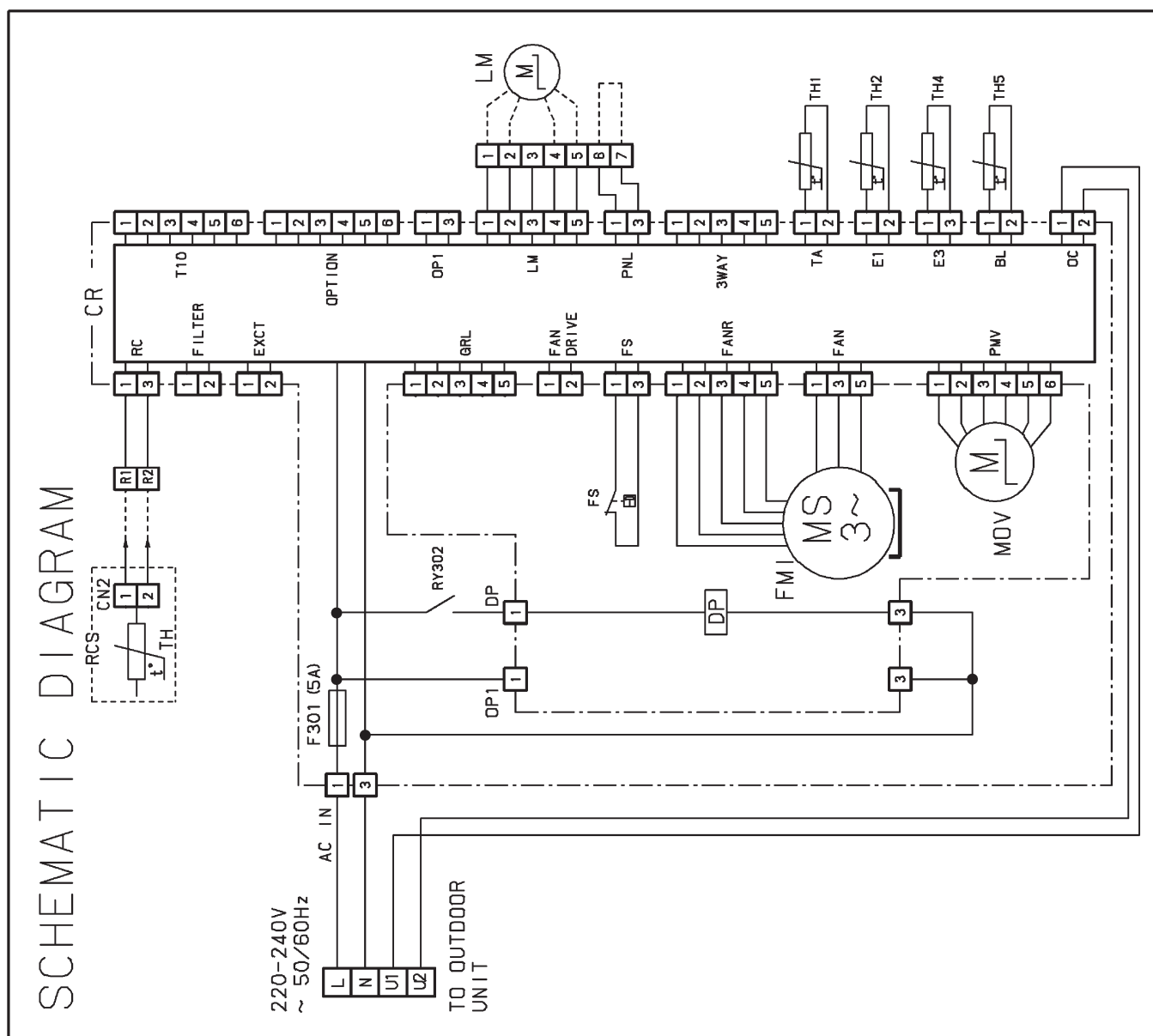
2. Indoor Unit

(4) Electric Wiring Diagram S-28MD1E5/36MD1E5/45MD1E5/56MD1E5/73MD1E5



8FA-2-5250-885-00-0

SYMBOLS	DESCRIPTION
FMI	INDOOR FAN MOTOR
TH1	ROOM THERMISTOR
TH2	THERMISTOR (INDOOR COIL E1)
TH4	THERMISTOR (INDOOR COIL E3)
TH5	THERMISTOR DISCHARGE AIR
F301	FUSE
MOV	MOTOR OPERATED VALVE
CR	INDOOR CONTROLLER
LM	AUTO LOUVER MOTOR
RY302	AUXILIARY RELAY
DP	DRAIN PUMP
FS	FLOAT SWITCH
(RCS)	REMOTE CONTROL SWITCH (OPTION) TH: ROOM THERMISTOR
☐	CONNECTOR, TERMINAL PLATE
☒	TERMINAL



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3. Cooling Capacity of Indoor Unit

3-11. 1-Way Cassette Type (D1 Type)

• S-28MD1E5

Power supply : 220/230/240V 1phase-50,60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 10HP outdoor unit.

RATING CAPACITY:		2.8 kW AIR FLOW RATE: 12.0 m³/min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	21	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	23	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	25	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	27	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
15		TC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	21	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	23	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	25	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	27	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
16		TC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	21	SHC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	23	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	25	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	27	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
17		TC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	21	SHC	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	23	SHC	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	25	SHC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	27	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
18		TC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	21	SHC	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	23	SHC	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	25	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	27	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
19		TC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	21	SHC	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	23	SHC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	25	SHC	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	27	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
20		TC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9
	23	SHC	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	25	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	27	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	29	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
21		TC	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0	2.9
	23	SHC	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3
	25	SHC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	27	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
	29	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4
22		TC	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.1	3.1	3.0
	25	SHC	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5
	27	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8
	29	SHC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2
	31	SHC	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.5	2.5
23		TC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.3	3.2	3.1	3.1
	25	SHC	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3
	27	SHC	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.6
	29	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
	31	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.3

3. Cooling Capacity of Indoor Unit

• S-36MD1E5

Power supply : 220/230/240V 1phase-50,60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 10HP outdoor unit.

RATING CAPACITY:		3.6 kW AIR FLOW RATE: 12.0 m³/min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	21	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	23	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	25	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	27	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
15		TC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	21	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	23	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	25	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	27	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
16		TC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	21	SHC	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	23	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	25	SHC	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	27	SHC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
17		TC	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	21	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	23	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	25	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	27	SHC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
18		TC	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	21	SHC	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	23	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	25	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	27	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
19		TC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	21	SHC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	23	SHC	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	25	SHC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	27	SHC	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
20		TC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7
	23	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8
	25	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	27	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5
	29	SHC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21		TC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	3.9	3.8	3.8
	23	SHC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6
	25	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
	27	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3
	29	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7
22		TC	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.0	3.9	3.9
	25	SHC	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8
	27	SHC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1
	29	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5
	31	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.8	2.8
23		TC	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.4	4.3	4.2	4.1	4.0	3.9
	25	SHC	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.6
	27	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9
	29	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.3
	31	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.6	2.6

3. Cooling Capacity of Indoor Unit

• S-45MD1E5

Power supply : 220/230/240V 1phase-50,60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 10HP outdoor unit.

RATING CAPACITY:		4.5 kW AIR FLOW RATE: 12.0 m³/min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	21	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	23	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	25	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	27	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
15		TC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	21	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	23	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	25	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	27	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
16		TC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	21	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	23	SHC	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	25	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	27	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
17		TC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	21	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	23	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	25	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	27	SHC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
18		TC	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	21	SHC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	23	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	25	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	27	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
19		TC	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	21	SHC	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	23	SHC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	25	SHC	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	27	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
20		TC	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.6
	23	SHC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3
	25	SHC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8
	27	SHC	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3
	29	SHC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8
21		TC	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	4.9	4.8	4.7
	23	SHC	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1
	25	SHC	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.5
	27	SHC	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0
	29	SHC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
22		TC	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.1	5.0	4.9	4.8
	25	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3
	27	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.8	2.8
	29	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.3	3.3	3.3
	31	SHC	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8	3.8
23		TC	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.5	5.4	5.2	5.1	5.0	4.9
	25	SHC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0
	27	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.6	2.6	2.5	2.5	2.5
	29	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1	3.0	3.0	3.0
	31	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.5	3.5	3.5

3. Cooling Capacity of Indoor Unit

• S-56MD1E5

Power supply : 220/230/240V 1phase-50,60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 10HP outdoor unit.

RATING CAPACITY:		5.6 kW AIR FLOW RATE: 13.0 m³/min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	21	SHC	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	23	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	25	SHC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	27	SHC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
15		TC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	21	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	23	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	25	SHC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	27	SHC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
16		TC	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	21	SHC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	23	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	25	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	27	SHC	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
17		TC	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	21	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	23	SHC	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	25	SHC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	27	SHC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
18		TC	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	21	SHC	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	23	SHC	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	25	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	27	SHC	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
19		TC	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	21	SHC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	23	SHC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	25	SHC	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	27	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
20		TC	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.8
	23	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7
	25	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2
	27	SHC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6
	29	SHC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0
21		TC	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.1	6.0	5.9
	23	SHC	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.5	2.5
	25	SHC	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9
	27	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.3
	29	SHC	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8
22		TC	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.4	6.2	6.1	6.0
	25	SHC	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.7	2.7	2.7
	27	SHC	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.2	3.1	3.1
	29	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.6	3.6	3.5
	31	SHC	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.0
23		TC	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.9	6.7	6.5	6.3	6.2	6.1
	25	SHC	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.6	2.5	2.5	2.4	2.4
	27	SHC	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0	2.9	2.9	2.8
	29	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.3	3.3
	31	SHC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.7

3. Cooling Capacity of Indoor Unit

● S-73MD1E5

Power supply : 220/230/240V 1phase-50,60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 10HP outdoor unit.

RATING CAPACITY:		7.3 kW AIR FLOW RATE:18.0 m³/min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	21	SHC	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	23	SHC	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	25	SHC	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	27	SHC	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
15		TC	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	21	SHC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	23	SHC	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	25	SHC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	27	SHC	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
16		TC	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	21	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	23	SHC	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	25	SHC	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	27	SHC	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
17		TC	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	21	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	23	SHC	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	25	SHC	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	27	SHC	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
18		TC	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	21	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	23	SHC	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	25	SHC	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	27	SHC	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
19		TC	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	21	SHC	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	23	SHC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	25	SHC	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	27	SHC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
20		TC	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	23	SHC	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	25	SHC	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	27	SHC	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	29	SHC	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2
21		TC	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	7.9	7.8	7.7
	23	SHC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.3	3.2
	25	SHC	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.8
	27	SHC	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.3
	29	SHC	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9
22		TC	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.6	8.3	8.1	8.0	7.8
	25	SHC	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.5	3.5
	27	SHC	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.2	4.1	4.1	4.0
	29	SHC	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.7	4.6	4.6
	31	SHC	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.3	5.2	5.2	5.1
23		TC	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.0	8.7	8.5	8.2	8.1	8.0
	25	SHC	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.1
	27	SHC	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	3.9	3.8	3.7	3.7
	29	SHC	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.5	4.4	4.3	4.3	4.2
	31	SHC	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.1	5.0	4.9	4.8	4.8