



# ***Technical Sales Guide***

## **U-MATCH SERIES AIR CONDITIONERS**

(GC201912-III)

TECHNICAL SALES GUIDE 50/60Hz

CAPACITY RANGE: 3.5~15.6kW

SUPER HIGH AMBIENT OPERATION TO 48°C



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## 1 PRODUCT LIST

### ➔ 1.1 Outdoor Unit

Model	Power Supply	Finished Product Code	Appearance
	(V,Ph,Hz)		
GUD35W/A-S	220-240V ~50/60Hz	CF090W1550	
GUD50W/A-S		CF090W1540	
GUD71W/A1-S		CF090W1630	
GUD71W/A-S		CF090W1560	
GUD100W/A-S		CF090W1460	
GUD125W/A-S		CF090W1470	
GUD140W/A-S		CF090W1490	
GUD160W/A-S		CF090W1510	
GUD125W/A-X		CF090W1480	
GUD140W/A-X		380-415V 3N~50/60Hz	CF090W1500
GUD160W/A-X	CF090W1520		

Note: 1 Ton = 12000Btu/h = 3.517kW

If one outdoor unit is to be connected with multiple indoor units, the indoor units must have the same cooling capacity and be of the same type.

## ➔ 1.2 Indoor Unit

Model		Rated Cooling/ Heating Capacity (kW)	Power Supply	Finished Product Code	Appearance
			(V,Ph,Hz)		
Cassette Type	GUD35T/A-S	3.50/4.00	220-240V ~50/60Hz	ET010N1850	
	GUD50T/A-S	5.00/5.60		ET010N1860	
	GUD71T/A1-S	7.00/8.00		ET010N1910	
	GUD71T/A-S	7.00/8.00		ET010N1840	
	GUD100T/A-S	10.10/11.00		ET010N1780	
	GUD125T/A-S	12.02/14.00		ET010N1790	
	GUD140T/A-S	14.00/15.00		ET010N1800	
	GUD160T/A-S	15.00/17.00		ET010N1810	
Duct Type (without pump)	GUD35P/A-S	3.50/4.00	220-240V ~50/60Hz	CF022N2630	
	GUD50P/A-S	5.30/5.80		CF022N2650	
	GUD71P/A1-S	7.15/8.00		CF022N2800	
	GUD71P/A-S	7.10/8.00		CF022N2660	
	GUD100PH/A-S	10.10/11.00		CF022N2440	
	GUD125PH/A-S	12.02/14.00		CF022N2420	
	GUD140PH/A-S	14.00/15.00		CF022N2480	
	GUD160PH/A-S	15.60/17.00		CF022N2460	

# U-MATCH SERIES AIR CONDITIONERS

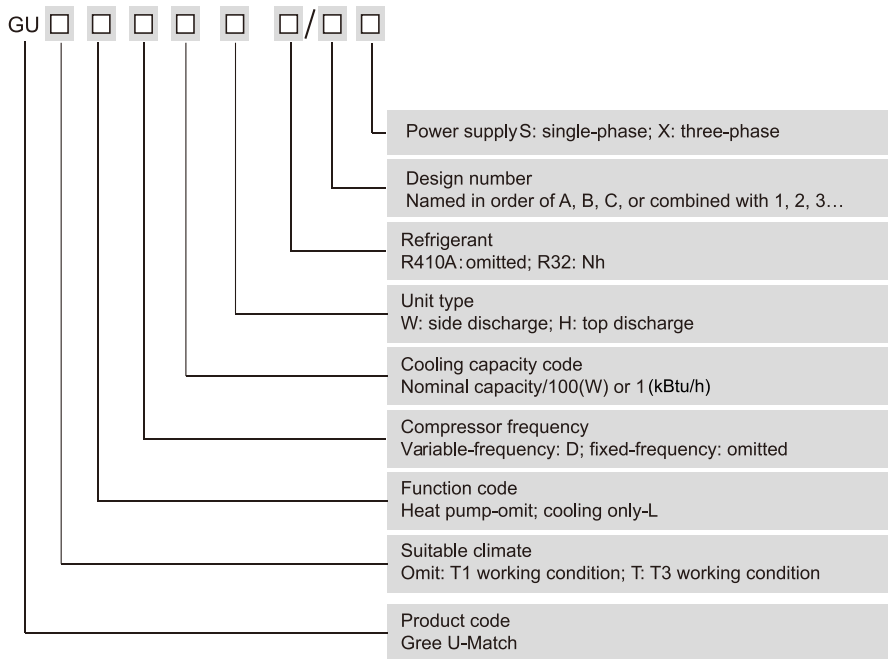
	Model	Rated Cooling/ Heating Capacity (kW)	Power Supply	Finished Product Code	Appearance
			(V,Ph,Hz)		
Duct Type(with pump)	GUD35PS/A-S	3.50/4.00	220-240V ~50/60Hz	CF022N2640	
	GUD50PS/A-S	5.30/5.80		CF022N2670	
	GUD71PS/A1-S	7.15/8.00		CF022N2810	
	GUD71PS/A-S	7.10/8.00		CF022N2680	
	GUD100PHS/A-S	10.10/11.00		CF022N2450	
	GUD125PHS/A-S	12.02/14.00		CF022N2430	
	GUD140PHS/A-S	14.00/15.00		CF022N2490	
	GUD160PHS/A-S	15.60/17.00		CF022N2470	
Floor Ceiling Type	GUD35ZD/A-S	3.50/4.00	220-240V ~50/60Hz	ED020N2160	
	GUD50ZD/A-S	5.20/5.80		ED020N2170	
	GUD71ZD/A1-S	7.15/8.00		ED020N2200	
	GUD71ZD/A-S	7.10/8.00		ED020N2180	
	GUD100ZD/A-S	10.00/11.00		ED020N2120	
	GUD125ZD/A-S	12.02/14.00		ED020N2130	
	GUD140ZD/A-S	14.00/15.00		ED020N2140	
	GUD160ZD/A-S	15.40/17.00		ED020N2150	

Note: The outdoor unit is generally suitable to any one of the three types of indoor units with no need of change (limited to cassette type, duct type and floor ceiling type).

## 2 NOMENCLATURE

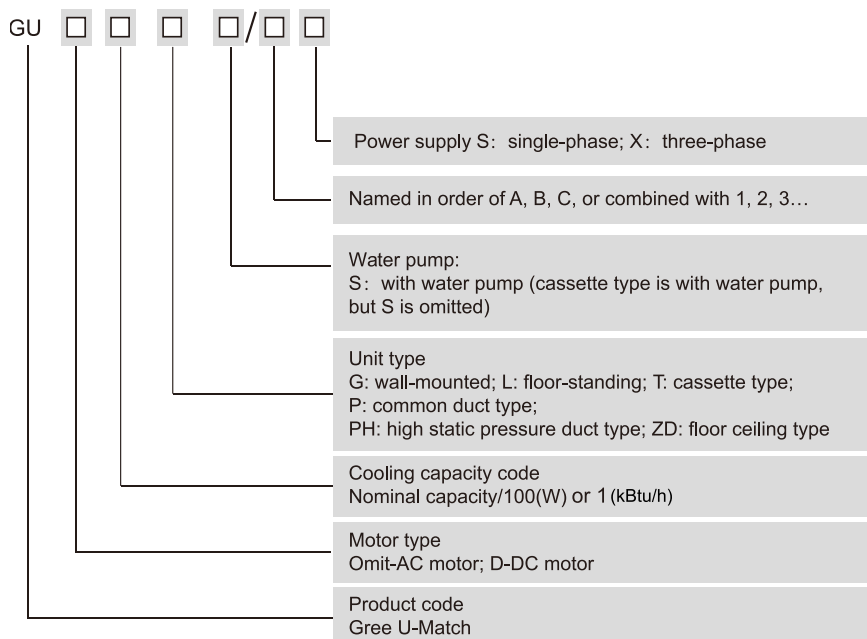
### ➔ 2.1 Nomenclature of Outdoor Unit

Basic structure of outdoor unit model designation.



### ➔ 2.2 Nomenclature of Indoor Unit

Basic structure of indoor unit model designation.



### 3 PRODUCT FEATURES

Gree R410A Condensing Unit Series Air Conditioners have combined the extraordinary comfort of the central air conditioners with the convenient installation and facility of the mini type of the split air conditioners. The casing of this unit is made of pre-painted steel, capable of resisting corrosion and rust creep and ensuring minimal fading when exposed to sunlight.

Gree R410A Condensing Unit Series Air Conditioning Units can offer the perfect combination of superior product quality, high operating efficiency and cost efficiency. The capacity rated according to ranges from 3.5kW to 15.6kW, which could be sufficient to different requirements from customers. All units are factory tested prior to dispatch to verify the operation performance and control functioning.

Gree R410A Condensing Unit Series Air Conditioning Units can be widely used in small supermarkets, chain stores, hotels, restaurants, offices and meeting room etc. especially fit for the small commercial and industrial application. The unit can set for cooling even when the outdoor ambient temperature drops to -15°C and thus an ideal for locations that require cooling even in winter.

The careful design from each part to the whole unit, together with the all-round process test and unit test, offers the high reliability for the whole system.

Perfect system protections can guarantee the safety of the system at utmost and get rid of the irreparable damage to the compressor or other critical parts under the harsh working conditions.

- ◆ High Efficiency and Energy Saving
  - 1W standby
  - Energy saving
  - DC motor
  - 8°C heating (absence mode)
- ◆ Reliability
  - Self-diagnosis
  - Filter cleaning reminder
  - Low temperature cooling
  - Intelligent defrosting
- ◆ Versatility
  - Multiple selections of Fan Speed
  - Multiple modes of static pressure
  - Wide voltage range
- ◆ Convenience
  - Memory function
  - Filter cleaning reminder
- ◆ Comfortable and Healthy
  - 360°air discharge
  - Sleep mode
  - Quiet mode
  - Fresh air
  - I feel
  - Turbo
  - Vertical airflow
  - Horizontal airflow (limited to floor ceiling unit)
  - Fast cooling, fast heating
  - Switch between °F and °C
- ◆ Easy Control
  - WIFI
  - Double wired controllers
  - Access control
  - Centralized control
  - Timer On/Off
  - Remote control
  - Weekly timer(Optional)
  - BMS gateway
  - Programmable remote control
  - Remote control of dry contact gateways
  - Child lock

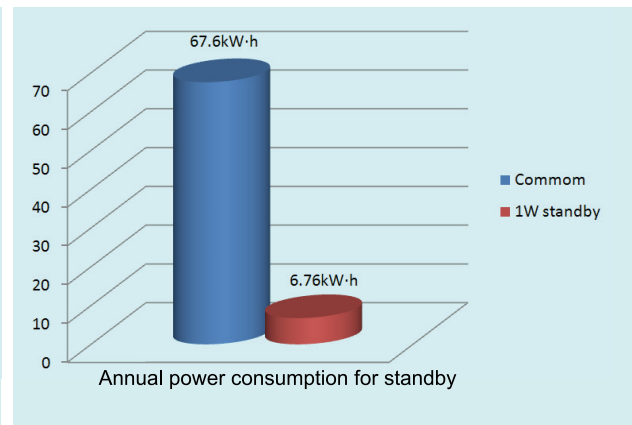
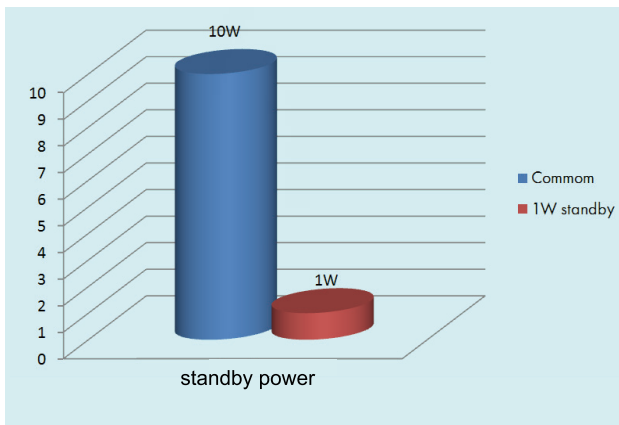
### ➔ 3.1 User-Friendly Design

1. User can set room temperature in auto mode.
2. In winter, if you are away, the unit can maintain room temperature at 8°C, to care for your pets and plants.
3. Power-off memory function: in case of power failure, unit can memorize the operating condition and restore the previous operating condition when power is resumed.
4. Ambient temperature check: user can check indoor ambient temperature, outdoor ambient temperature and the set temperature through wired controller or remote controller.

### ➔ 3.2 Energy Saving

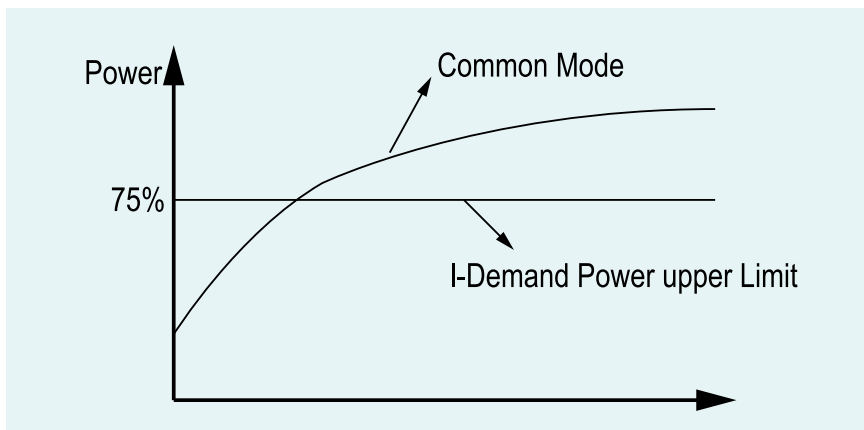
#### 3.2.1 High Energy Efficiency

Power consumption in standby status is only 1W.



#### 3.3.2 I-Demand

I-Demand function, with 25% power saving.

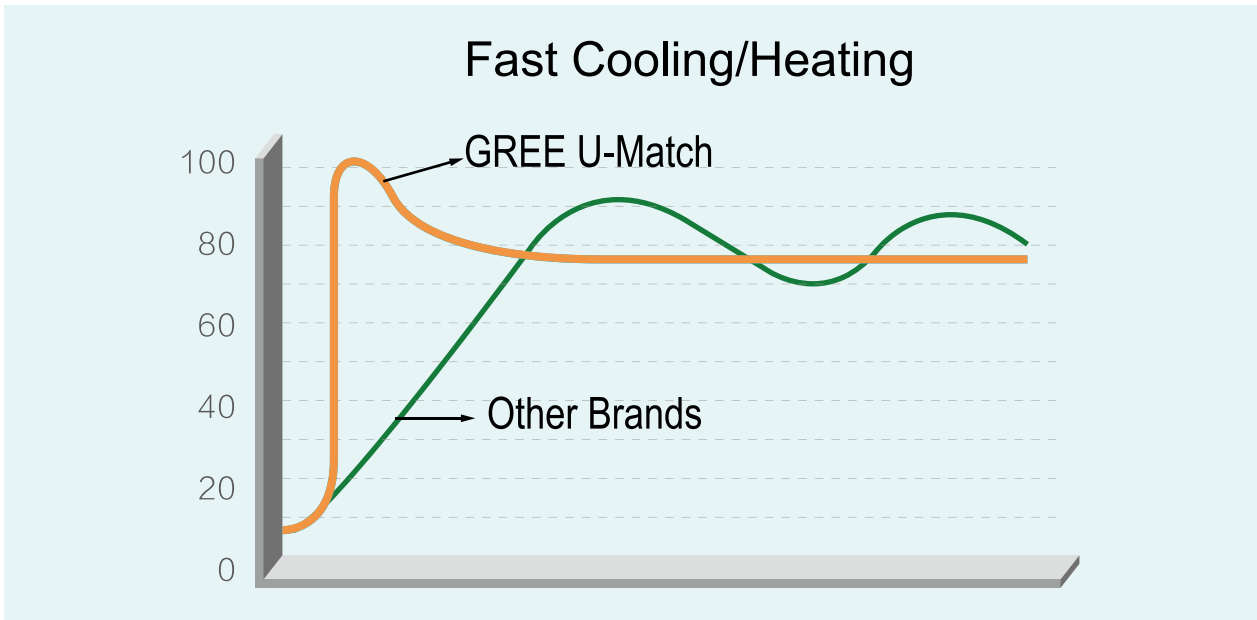




### ➔ 3.3 Highly Comfortable

#### 3.3.1 Fast Cooling/Heating

When the difference between room temperature and the set temperature is large, the unit will enter fast cooling or fast heating mode upon startup, and then quickly reach the user's set temperature.



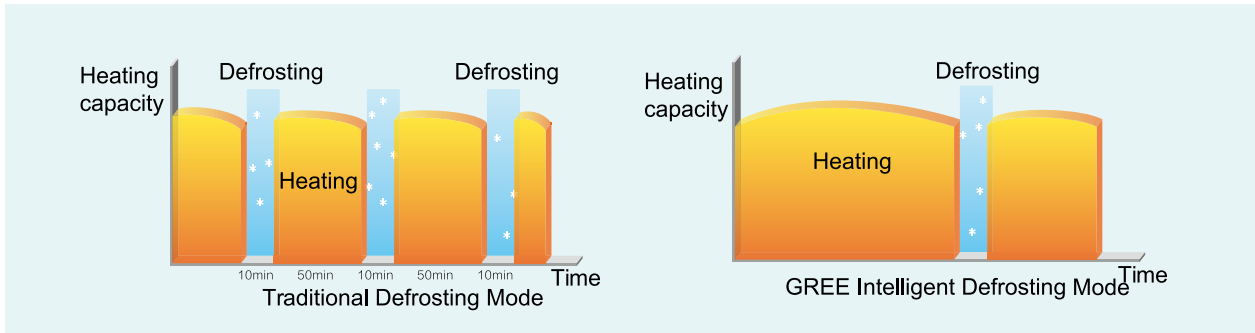
#### 3.3.2 Quiet Design

Both indoor and outdoor units can run quietly, with no noise disturbance to neighbours while providing you with a quiet and comfortable environment.



### 3.3.3 Intelligent Defrosting

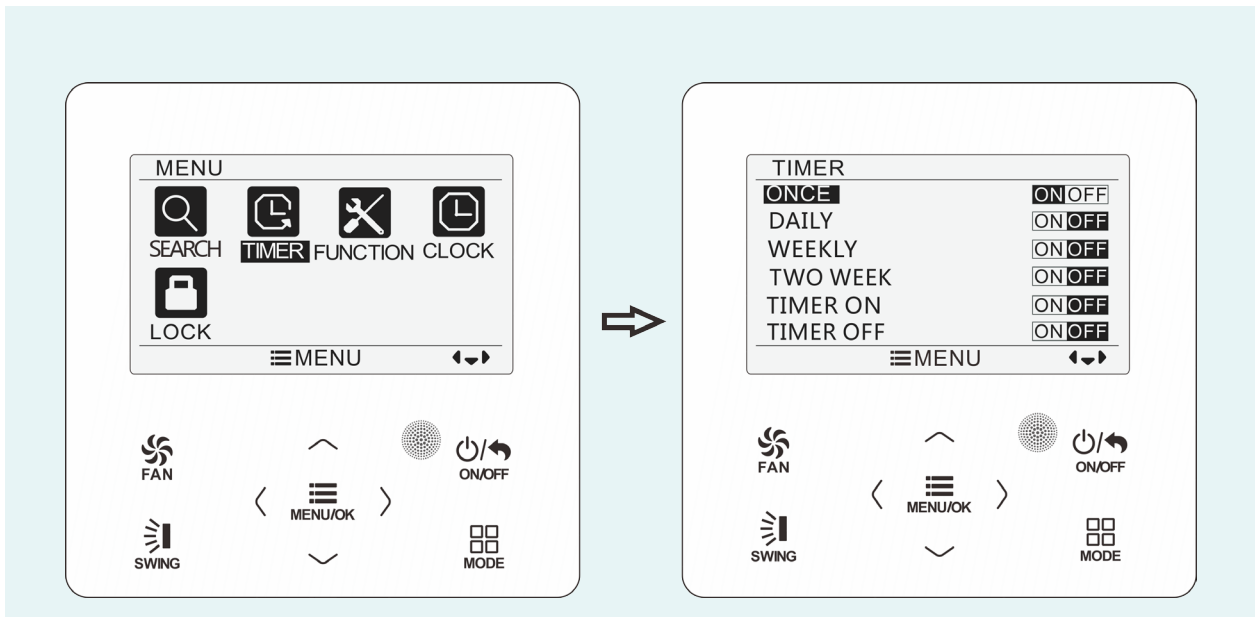
Gree Intelligent Defrosting Technology enables the unit to correctly judge the frost of its outdoor condenser using a temperature sensor. "Defrost what is frosted." Heating effect is enhanced, for a comfortable room.



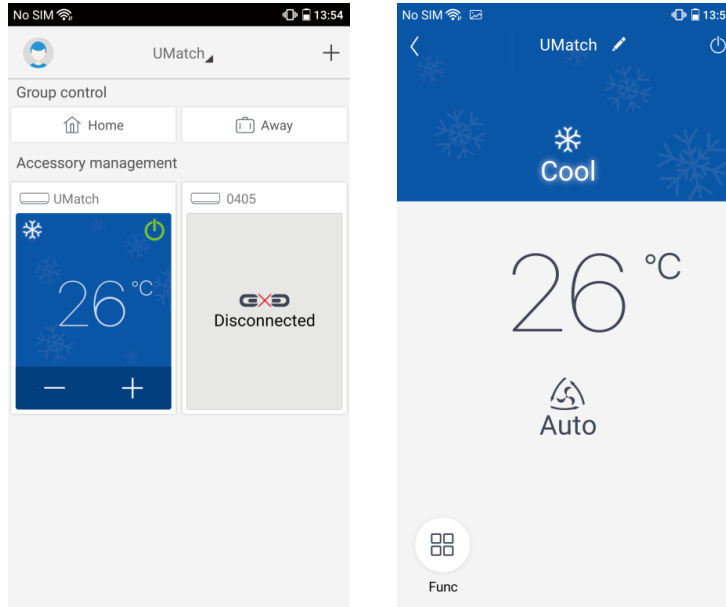
## ➔ 3.4 Smart Convenient Control

### 3.4.1 Timer Setting

The wired controller XE71-42/G(optional) can set 6 kinds of timer: one time clock timer, everyday timer, one week timer, two week timer, countdown timer on and countdown timer off. Select timer symbol after entering menu page. Press MENU button to enter timer setting page. More details please refer to the wired controller XE71-42/G manual.

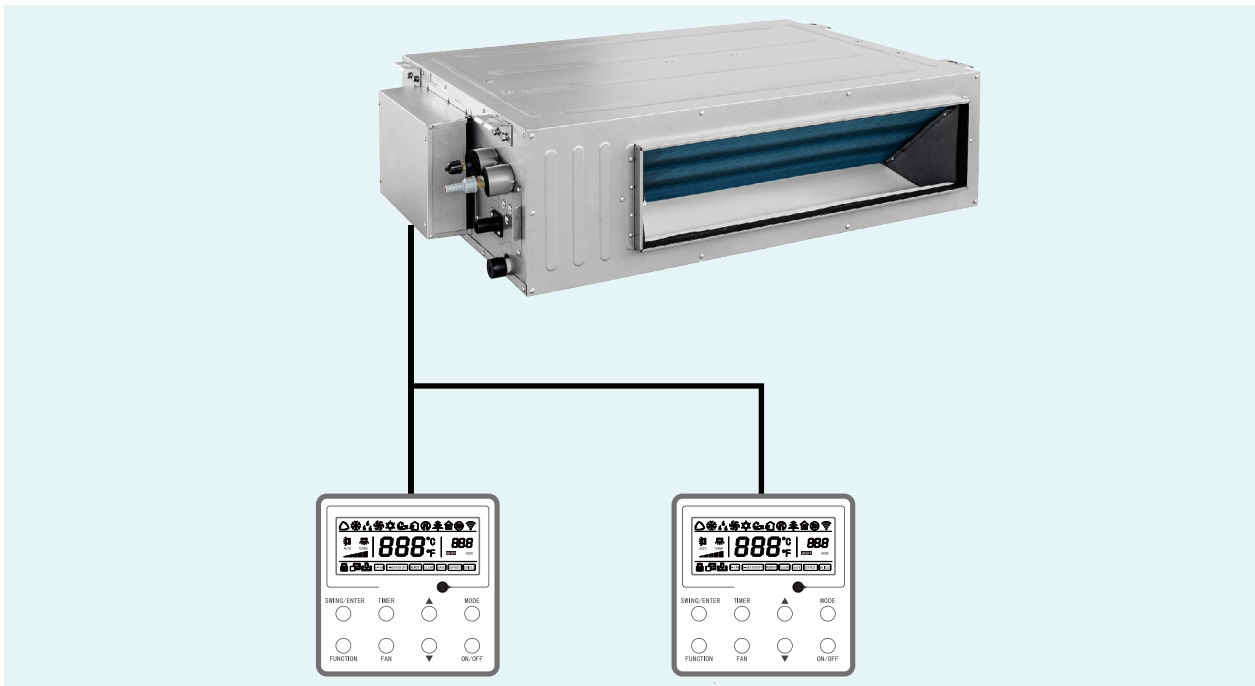


## 3.4.2 Smart APP Control(WiFi Module needed-Optional)



## 3.4.3 Double Wired Controllers (Optional)

Double wired controllers can be set, but only for XK117. They have the same functions and can be installed at the door and bedside, to provide convenient AC control. This function is available in each product of this series. Take duct type unit as an example:



### 3.4.4 Centralized Control(Optional)

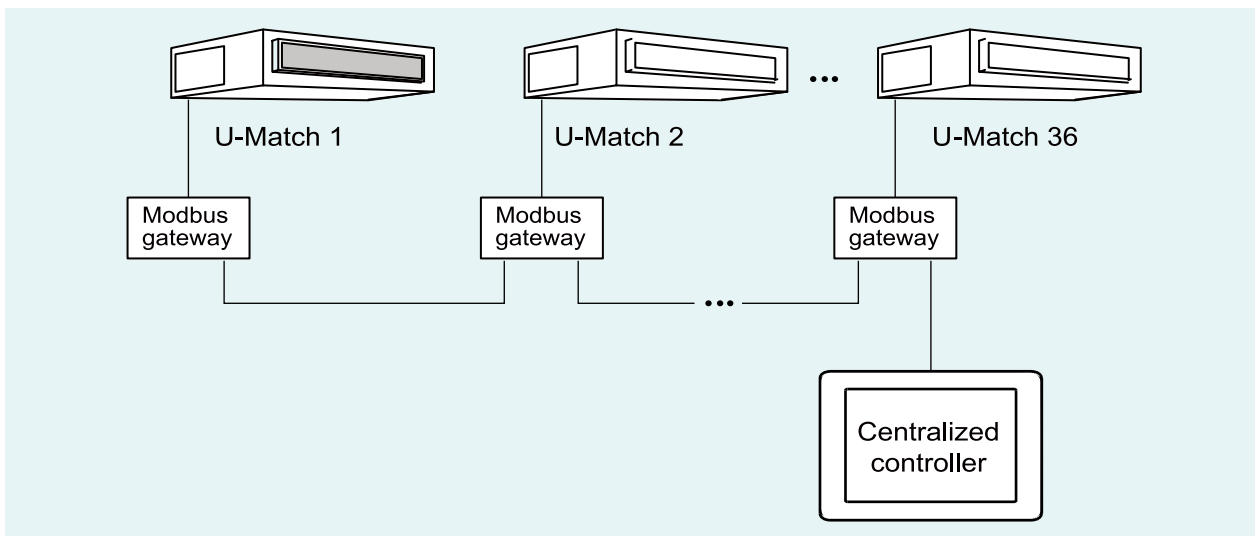
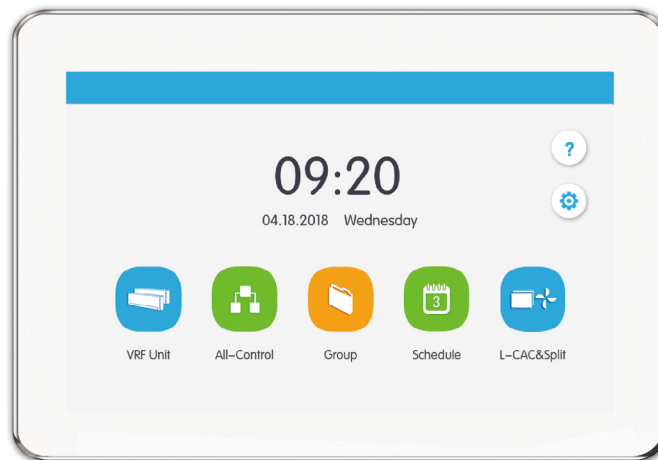
Model: CE52-24/F(C)

Dimension(H×W×D): 128.2mm×185.2mm×54mm

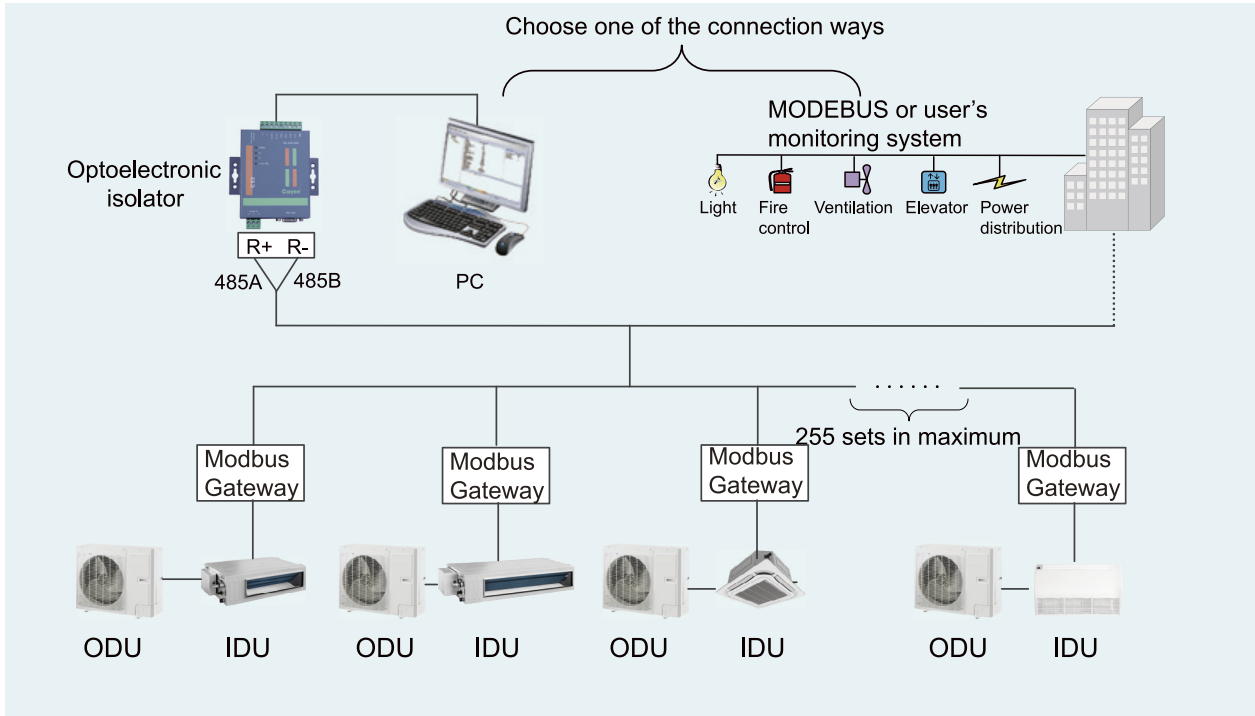
Centralized control for up to 36 indoor units.

Basic control includes On/Off, mode, Fan Speed, temperature, etc.

Modbus gateway required.



## 3.5.5 MODBUS Interface (Optional)



## 4 PRODUCT PARAMETERS

### 4.1 Cassette Type

	IDU		GUD35T/A-S	GUD50T/A-S	GUD71T/A1-S	GUD71T/A-S
	ODU		GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Rated Capacity	Cooling	kW	3.50	5.00	7.00	7.00
	Heating	kW	4.00	5.60	8.00	8.00
Input Power	Cooling	kW	1.03	1.56	2.18	2.18
	Heating	kW	1.10	1.60	2.20	2.20
EER		W/W	3.40	3.21	3.21	3.21
COP		W/W	3.64	3.50	3.64	3.64
IDU			GUD35T/A-S	GUD50T/A-S	GUD71T/A1-S	GUD71T/A-S
Power Supply			220-240V ~50/60Hz			
Heat Exchanger			Inner Groove Copper Tube-Aluminum Fin			
Sound Pressure Level Noise		dB(A)	41	44	47	47
Front Panel	Dimensions	mm	620×620	620×620	950×950	950×950
	Weight	kg	3	3	6	6

			IDU	GUD35T/A-S	GUD50T/A-S	GUD71T/A1-S	GUD71T/A-S
			ODU	GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Fan Motor	Type	—	Centrifugal Fan				
	Drive	—	Direct	Direct	Direct	Direct	
	Motor Output	W	30	35	55	55	
	Air Volume	m <sup>3</sup> /h	650	700	1250	1250	
Filter		—	PP		PP-MD10		
Connection Pipe	Liquid Pipe	inch	Φ1/4	Φ1/4	Φ3/8	Φ3/8	
	Gas Pipe	inch	Φ3/8	Φ1/2	Φ5/8	Φ5/8	
	Water Pipe	mm	Φ25×1.50	Φ25×1.50	Φ25×1.50	Φ25×1.50	
Dimensions (H×W×D)	Outline	mm	265×570×570	265×570×570	200×840×840	200×840×840	
	Package	mm	295×653×698	295×653×698	245×923×943	245×923×943	
Weight	Net Weight	kg	17	17	23	23	
	Gross Weight	kg	22	22	30	30	
ODU			GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S	
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin				
Power Supply			220-240V ~50/60Hz				
Compressor	Model		QXF-A102zE190B	QXF-B141zF030F	QXFS-D25zX090H	QXFS-D25zX090H	
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	
	Output	W	1023	1410	2420	2420	
Fan Motor	Type	—	Axial fan				
	Air Volume	m <sup>3</sup> /h	3000	3000	3600	3600	
	Output Power	W	—	—	—	—	
Refrigerant	Type		R410A				
	Weight	kg	1.00	1.25	2.00	2.00	
	Throttling Method		Electronic Expansion Valve				
Connection Pipe	Liquid Pipe	inch	Φ1/4	Φ1/4	Φ3/8	Φ3/8	
	Gas Pipe	inch	Φ3/8	Φ1/2	Φ5/8	Φ5/8	
Refrigerant Pipe	Standard Length	m	5.00	5.00	5.00	5.00	
	Max. Length	m	30	35	50	50	
	Max. Height	m	15	20	25	25	
Dimensions (H×W×D)	Outline	mm	596×818×302	596×818×302	698×892×340	698×892×340	
	Package	mm	645×948×420	645×948×420	750×1029×458	750×1029×458	
Weight	Net Weight	kg	38	41	53	53	
	Gross Weight	kg	41	44	57	57	
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse				

# U-MATCH SERIES AIR CONDITIONERS

		IDU	GUD100T/A-S	GUD125T/A-S	GUD140T/A-S	GUD160T/A-S
		ODU	GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Rated Capacity	Cooling	kW	10.10	12.02	14.00	15.00
	Heating	kW	11.00	14.00	15.00	17.00
Input Power	Cooling	kW	3.40	4.50	5.40	5.40
	Heating	kW	3.00	4.20	4.40	4.70
EER		W/W	2.97	2.67	2.59	2.78
COP		W/W	3.67	3.33	3.41	3.62
		IDU	GUD100T/A-S	GUD125T/A-S	GUD140T/A-S	GUD160T/A-S
Power Supply		220-240V ~50/60Hz				
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Sound Pressure Level Noise		dB(A)	50	50	51	54
Front Panel	Dimensions	mm	950×950	950×950	950×950	950×950
	Weight	kg	6	6	6	6
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	Direct	Direct	Direct	Direct
	Motor Output	W	100	100	110	170
	Air Volume	m <sup>3</sup> /h	1500	1500	1800	2000
Filter		—	PP-MD10			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Water Pipe	mm	Φ25×1.50	Φ25×1.50	Φ25×1.50	Φ25×1.50
Dimensions (H×W×D)	Outline	mm	240×840×840	240×840×840	290×840×840	290×840×840
	Package	mm	325×963×963	325×963×963	379×963×963	379×963×963
Weight	Net Weight	kg	31	31	33	36
	Gross Weight	kg	38	38	41	44
		ODU	GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply		220-240V ~50/60Hz				
Compressor	Model		QXFS-D25zX090H	QXFS-D32zX090D	QXFS-F428zX450E	QXFS-F428zX450E
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	2420	3750	4300	4300
Fan Motor	Type	—	Axial fan			
	Air Volume	m <sup>3</sup> /h	4000	5900	5900	5900
	Output Power	W	—	—	—	—
Refrigerant	Type		R410A			
	Weight	kg	2.45	3.40	3.70	3.80
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	7.50	7.50
	Max. Length	m	50	65	75	75
	Max. Height	m	25	30	30	30

	IDU		GUD100T/A-S	GUD125T/A-S	GUD140T/A-S	GUD160T/A-S
	ODU		GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Dimensions (H×W×D)	Outline	mm	790×920×370	820×940×460	820×940×460	820×940×460
	Package	mm	855×1083×488	973×1083×573	973×1083×573	973×1083×573
Weight	Net Weight	kg	61	84	92	96
	Gross Weight	kg	66	96	104	108
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse			

	IDU		GUD125T/A-S	GUD140T/A-S	GUD160T/A-S
	ODU		GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Rated Capacity	Cooling	kW	12.02	14.00	15.00
	Heating	kW	14.00	15.00	17.00
Input Power	Cooling	kW	4.50	5.00	5.20
	Heating	kW	4.20	4.40	4.70
EER		W/W	2.67	2.80	2.88
COP		W/W	3.33	3.41	3.62
IDU			GUD125T/A-S	GUD140T/A-S	GUD160T/A-S
Power Supply			220-240V ~50/60Hz		
Heat Exchanger			—		
Sound Pressure Level Noise			dB(A)		
			50	51	54
Front Panel	Dimensions	mm	950×950	950×950	950×950
	Weight	kg	6	6	6
Fan Motor	Type	—	Centrifugal Fan		
	Drive	—	Direct	Direct	Direct
	Motor Output	W	100	110	170
	Air Volume	m <sup>3</sup> /h	1500	1800	2000
Filter			—		
			PP-MD10		
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8
	Water Pipe	mm	Φ25×1.50	Φ25×1.50	Φ25×1.50
Dimensions (H×W×D)	Outline	mm	240×840×840	290×840×840	290×840×840
	Package	mm	325×963×963	379×963×963	379×963×963
Weight	Net Weight	kg	31	33	36
	Gross Weight	kg	38	41	44
ODU			GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Heat Exchanger			—		
Power Supply			380-415V 3N~ 50/60Hz		
Compressor	Model		QXFS-D32zX090C	QXFS-F428zX450I	QXFS-F428zX450I
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	3720	4060	4060



# U-MATCH SERIES AIR CONDITIONERS

	IDU		GUD125T/A-S	GUD140T/A-S	GUD160T/A-S
	ODU		GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Fan Motor	Type	—	Axial fan		
	Air Volume	m <sup>3</sup> /h	5900	5900	5900
	Output Power	W	—	—	—
Refrigerant	Type		R410A		
	Weight	kg	3.40	3.70	3.80
	Throttling Method		Electronic Expansion Valve		
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	7.50	7.50
	Max. Length	m	65	75	75
	Max. Height	m	30	30	30
Dimensions (H×W×D)	Outline	mm	820×940×460	820×940×460	820×940×460
	Package	mm	973×1083×573	973×1083×573	973×1083×573
Weight	Net Weight	kg	90	96	100
	Gross Weight	kg	102	108	112
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse		



## 4.2 Duct Type

	IDU		GUD35P/A-S	GUD50P/A-S	GUD71P/A1-S	GUD71P/A-S
	ODU		GUD35PS/A-S	GUD50PS/A-S	GUD71PS/A1-S	GUD71PS/A-S
	ODU		GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Rated Capacity	Cooling	kW	3.50	5.30	7.15	7.10
	Heating	kW	4.00	5.80	8.00	8.00
Input Power	Cooling	kW	1.09	1.65	2.45	2.21
	Heating	kW	1.15	1.60	2.50	2.35
EER		W/W	3.21	3.21	2.92	3.21
COP		W/W	3.48	3.63	3.20	3.40
IDU			GUD35P/A-S	GUD50P/A-S	GUD71P/A1-S	GUD71P/A-S
IDU			GUD35PS/A-S	GUD50PS/A-S	GUD71PS/A1-S	GUD71PS/A-S
Power Supply			220-240V ~50/60Hz			
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Sound Pressure Level Noise		dB(A)	40	40	43	40
Static pressure(rated/maximum)		Pa	25/50	25/50	25/50	25/75

	IDU		GUD35P/A-S	GUD50P/A-S	GUD71P/A1-S	GUD71P/A-S
			GUD35PS/A-S	GUD50PS/A-S	GUD71PS/A1-S	GUD71PS/A-S
	ODU		GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	Direct	Direct	Direct	Direct
	Motor Output	W	50	70	85	80
	Air Volume	m <sup>3</sup> /h	650	950	1050	1200
Filter			PP			
Connection Pipe	Liquid Pipe	inch	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ3/8	Φ1/2	Φ5/8	Φ5/8
	Water Pipe	mm	Φ26×2.50	Φ26×2.50	Φ26×2.50	Φ26×2.50
Dimensions (H×W×D)	Outline	mm	200×450×700	200×450×1000	200×450×1000	220×450×1300
	Package	mm	275×568×1008	275×568×1308	275×568×1308	300×578×1628
Weight	Net Weight	kg	19/20	25/26	25/26	30/31
	Gross Weight	kg	23/24	30/31	30/31	37/38
ODU			GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Heat Exchanger			Inner Groove Copper Tube-Aluminum Fin			
Power Supply			220-240V ~50/60Hz			
Compressor	Model		QXF-A102zE190B	QXF-B141zF030F	QXFS-D25zX090H	QXFS-D25zX090H
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	1023	1410	2420	2420
Fan Motor	Type	—	Axial fan			
	Air Volume	m <sup>3</sup> /h	3000	3000	3600	3600
	Output Power	W	—	—	—	—
Refrigerant	Type		R410A			
	Weight	kg	1.00	1.25	2.00	2.00
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	inch	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ3/8	Φ1/2	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	5.00	5.00
	Max. Length	m	30	35	50	50
	Max. Height	m	15	20	25	25
Dimensions (H×W×D)	Outline	mm	596×818×302	596×818×302	698×892×340	698×892×340
	Package	mm	645×948×420	645×948×420	750×1029×458	750×1029×458
Weight	Net Weight	kg	38	41	53	53
	Gross Weight	kg	41	44	57	57

# U-MATCH SERIES AIR CONDITIONERS

	IDU		GUD35P/A-S	GUD50P/A-S	GUD71P/A1-S	GUD71P/A-S
			GUD35PS/A-S	GUD50PS/A-S	GUD71PS/A1-S	GUD71PS/A-S
	ODU		GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse			

	IDU		GUD100PH/A-S	GUD125PH/A-S	GUD140PH/A-S	GUD160PH/A-S
			GUD100PHS/A-S	GUD125PHS/A-S	GUD140PHS/A-S	GUD160PHS/A-S
	ODU		GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Rated Capacity	Cooling	kW	10.10	12.02	14.00	15.60
	Heating	kW	11.00	14.00	15.00	17.00
Input Power	Cooling	kW	3.40	4.50	5.00	5.40
	Heating	kW	3.20	4.30	4.40	4.80
EER		W/W	2.97	2.67	2.80	2.89
COP		W/W	3.44	3.26	3.41	3.54
IDU			GUD100PH/A-S	GUD125PH/A-S	GUD140PH/A-S	GUD160PH/A-S
			GUD100PHS/A-S	GUD125PHS/A-S	GUD140PHS/A-S	GUD160PHS/A-S
Power Supply			220-240V ~50/60Hz			
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Sound Pressure Level Noise		dB (A)	43	44	42	50
Static pressure (rated/maximum)		Pa	37/150	50/150	50/150	50/200
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	Direct	Direct	Direct	Direct
	Motor Output	W	180	200	160	265
	Air Volume	m <sup>3</sup> /h	1800	2000	2000	2800
Filter		—	PP			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Water Pipe	mm	Φ26×2.50	Φ26×2.50	Φ26×2.50	Φ26×2.50
Dimensions (H×W×D)	Outline	mm	300×1000×700	300×1000×700	300×1400×700	300×1400×700
	Package	mm	345×810×1202	345×810×1202	350×810×1598	350×805×1675
Weight	Net Weight	kg	40/41	40/41	49/50	56/57
	Gross Weight	kg	46/47	46/47	55/56	63/64
ODU			GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply			220-240V ~50/60Hz			
Compressor	Model		QXFS-D25zX090H	QXFS-D32zX090D	QXFS-F428zX450E	QXFS-F428zX450E
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	2420	3750	4300	4300

	IDU		GUD100PH/A-S	GUD125PH/A-S	GUD140PH/A-S	GUD160PH/A-S
			GUD100PHS/A-S	GUD125PHS/A-S	GUD140PHS/A-S	GUD160PHS/A-S
	ODU		GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Fan Motor	Type	—	Axial fan			
	Air Volume	m <sup>3</sup> /h	4000	5900	5900	5900
	Output Power	W	—	—	—	—
Refrigerant	Type		R410A			
	Weight	kg	2.45	3.40	3.70	3.80
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	7.50	7.50
	Max. Length	m	50	65	75	75
	Max. Height	m	25	30	30	30
Dimensions (H×W×D)	Outline	mm	790×920×370	820×940×460	820×940×460	820×940×460
	Package	mm	855×1083×488	973×1083×573	973×1083×573	973×1083×573
Weight	Net Weight	kg	61	84	92	96
	Gross Weight	kg	66	96	104	108
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse			

	IDU		GUD125PH/A-S	GUD140PH/A-S	GUD160PH/A-S
			GUD125PHS/A-S	GUD140PHS/A-S	GUD160PHS/A-S
	ODU		GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Rated Capacity	Cooling	kW	12.02	14.00	15.60
	Heating	kW	14.00	15.00	17.00
Input Power	Cooling	kW	4.50	5.00	5.40
	Heating	kW	4.30	4.40	4.80
EER		W/W	2.67	2.80	2.89
COP		W/W	3.26	3.41	3.54
IDU			GUD125PH/A-S	GUD140PH/A-S	GUD160PH/A-S
			GUD125PHS/A-S	GUD140PHS/A-S	GUD160PHS/A-S
Power Supply			220-240V ~50/60Hz		
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin		
Sound Pressure Level Noise		dB(A)	44	42	50
Static pressure (rated/maximum)		Pa	50/150	50/150	50/200

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	IDU		GUD125PH/A-S	GUD140PH/A-S	GUD160PH/A-S	
	ODU		GUD125PHS/A-S	GUD140PHS/A-S	GUD160PHS/A-S	
				GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	Direct	Direct	Direct	
	Motor Output	W	200	160	265	
	Air Volume	m <sup>3</sup> /h	2000	2000	2800	
Filter		—	PP			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	
	Water Pipe	mm	Φ26×2.50	Φ26×2.50	Φ26×2.50	
Dimensions (H×W×D)	Outline	mm	300×1000×700	300×1400×700	300×1400×700	
	Package	mm	345×810×1202	350×810×1598	350×805×1675	
Weight	Net Weight	kg	40/41	49/50	56/57	
	Gross Weight	kg	46/47	55/56	63/64	
ODU		GUD125W/A-X		GUD140W/A-X	GUD160W/A-X	
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply		380-415V 3N~50/60Hz				
Compressor	Model		QXFS-D32zX090C	QXFS-F428zX450I	QXFS-F428zX450I	
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	
	Output	W	3720	4060	4060	
Fan Motor	Type	—	Axial fan			
	Air Volume	m <sup>3</sup> /h	5900	5900	5900	
	Output Power	W	—	—	—	
Refrigerant	Type		R410A			
	Weight	kg	3.40	3.70	3.80	
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	
Refrigerant Pipe	Standard Length	m	5.00	7.50	7.50	
	Max. Length	m	65	75	75	
	Max. Height	m	30	30	30	
Dimensions (H×W×D)	Outline	mm	820×940×460	820×940×460	820×940×460	
	Package	mm	973×1083×573	973×1083×573	973×1083×573	
Weight	Net Weight	kg	90	96	100	
	Gross Weight	kg	102	108	112	
Safety Device		High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse				

### 4.3 Floor Ceiling Type

	IDU		GUD35ZD/A-S	GUD50ZD/A-S	GUD71ZD/A1-S	GUD71ZD/A-S
	ODU		GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Rated Capacity	Cooling	kW	3.50	5.20	7.15	7.10
	Heating	kW	4.00	5.80	8.00	8.00
Input Power	Cooling	kW	1.03	1.62	2.40	2.20
	Heating	kW	1.20	1.70	2.55	2.60
EER		W/W	3.40	3.21	2.98	3.23
COP		W/W	3.30	3.41	3.14	3.08
IDU			GUD35ZD/A-S	GUD50ZD/A-S	GUD71ZD/A1-S	GUD71ZD/A-S
Power Supply			220-240V ~50/60Hz			
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Sound Pressure Level Noise		dB(A)	39	44	49	45
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	Direct	Direct	Direct	Direct
	Motor Output	W	30	55	85	80
	Air Volume	m <sup>3</sup> /h	650	850	1000	1300
Filter		—	PP			
Connection Pipe	Liquid Pipe	inch	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ3/8	Φ1/2	Φ5/8	Φ5/8
	Water Pipe	mm	Φ17×1.50	Φ17×1.50	Φ17×1.50	Φ17×1.50
Dimensions (H×W×D)	Outline	mm	235×870×665	235×870×665	235×870×665	235×1200×665
	Package	mm	300×770×1033	300×770×1033	300×770×1033	300×770×1363
Weight	Net Weight	kg	25	26	26	31
	Gross Weight	kg	30	31	31	37
ODU			GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply			220-240V ~50/60Hz			
Compressor	Model		QXF-A102zE190B	QXF-B141zF030F	QXFS-D25zX090H	QXFS-D25zX090H
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	1023	1410	2420	2420
Fan Motor	Type	—	Axial fan			
	Air Volume	m <sup>3</sup> /h	3000	3000	3600	3600
	Output Power	W	—	—	—	—
Refrigerant	Type		R410A			
	Weight	kg	1.00	1.25	2.00	2.00
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	mm	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ3/8	Φ1/2	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	5.00	5.00
	Max. Length	m	30	35	50	50
	Max. Height	m	15	20	25	25

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	IDU		GUD35ZD/A-S	GUD50ZD/A-S	GUD71ZD/A1-S	GUD71ZD/A-S
	ODU		GUD35W/A-S	GUD50W/A-S	GUD71W/A1-S	GUD71W/A-S
Dimensions (H×W×D)	Outline	mm	596×818×302	596×818×302	698×892×340	698×892×340
	Package	mm	645×948×420	645×948×420	750×1029×458	750×1029×458
Weight	Net Weight	kg	38	41	53	53
	Gross Weight	kg	41	44	57	57
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse			

	IDU		GUD100ZD/A-S	GUD125ZD/A-S	GUD140ZD/A-S	GUD160ZD/A-S
	ODU		GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Rated Capacity	Cooling	kW	10.00	12.02	14.00	15.40
	Heating	kW	11.00	14.00	15.00	17.00
Input Power	Cooling	kW	3.40	4.10	5.40	5.40
	Heating	kW	3.20	4.00	4.40	4.80
EER		W/W	2.94	2.93	2.59	2.85
COP		W/W	3.44	3.50	3.41	3.54
IDU			GUD100ZD/A-S	GUD125ZD/A-S	GUD140ZD/A-S	GUD160ZD/A-S
Power Supply			220-240V ~50/60Hz			
Heat Exchanger			—			
Sound Pressure Level Noise			dB(A)			
			49	49	52	54
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	Direct	Direct	Direct	Direct
	Motor Output	W	110	110	150	175
	Air Volume	m <sup>3</sup> /h	1600	1600	2200	2300
Filter			—			
			PP			
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Water Pipe	mm	Φ17×1.50	Φ17×1.50	Φ17×1.50	Φ17×1.50
Dimensions (H×W×D)	Outline	mm	235×1200×665	235×1200×665	235×1570×665	235×1570×665
	Package	mm	300×770×1363	300×770×1363	300×770×1729	300×770×1729
Weight	Net Weight	kg	32	33	40	42
	Gross Weight	kg	38	39	47	49
ODU			GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Heat Exchanger			—			
Power Supply			220-240V ~50/60Hz			
Compressor	Model		QXFS-D25zX090H	QXFS-D32zX090D	QXFS-F428zX450E	QXFS-F428zX450E
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	2420	3750	4300	4300

	IDU		GUD100ZD/A-S	GUD125ZD/A-S	GUD140ZD/A-S	GUD160ZD/A-S
	ODU		GUD100W/A-S	GUD125W/A-S	GUD140W/A-S	GUD160W/A-S
Fan Motor	Type	—	Axial fan			
	Air Volume	m <sup>3</sup> /h	4000	5900	5900	5900
	Output Power	W	—	—	—	—
Refrigerant	Type	—	R410A			
	Weight	kg	2.45	3.40	3.70	3.80
	Throttling Method	—	Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	mm	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	7.50	7.50
	Max. Length	m	50	65	75	75
	Max. Height	m	25	30	30	30
Dimensions (H×W×D)	Outline	mm	790×920×370	820×940×460	820×940×460	820×940×460
	Package	mm	855×1083×488	973×1083×573	973×1083×573	973×1083×573
Weight	Net Weight	kg	61	84	92	96
	Gross Weight	kg	66	96	104	108
Safety Device			High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse			

	IDU		GUD125ZD/A-S	GUD140ZD/A-S	GUD160ZD/A-S
	ODU		GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Rated Capacity	Cooling	kW	12.02	14.00	15.40
	Heating	kW	14.00	15.00	17.00
Input Power	Cooling	kW	4.10	5.20	5.40
	Heating	kW	4.00	4.40	4.80
EER	W/W		2.93	2.69	2.85
COP	W/W		3.50	3.41	3.54
IDU			GUD125ZD/A-S	GUD140ZD/A-S	GUD160ZD/A-S
Power Supply			220-240V ~50/60Hz		
Heat Exchanger			Inner Groove Copper Tube-Aluminum Fin		
Sound Pressure Level Noise		dB(A)	49	52	54
Fan Motor	Type	—	Centrifugal Fan		
	Drive	—	Direct	Direct	Direct
	Motor Output	W	110	150	175
	Air Volume	m <sup>3</sup> /h	1600	2200	2300
Filter			PP		
Connection Pipe	Liquid Pipe	inch	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8
	Water Pipe	mm	Φ17×1.50	Φ17×1.50	Φ17×1.50



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	IDU		GUD125ZD/A-S	GUD140ZD/A-S	GUD160ZD/A-S
	ODU		GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Dimensions (H×W×D)	Outline	mm	235×1200×665	235×1570×665	235×1570×665
	Package	mm	300×770×1363	300×770×1729	300×770×1729
Weight	Net Weight	kg	33	40	42
	Gross Weight	kg	39	47	49
ODU			GUD125W/A-X	GUD140W/A-X	GUD160W/A-X
Heat Exchanger	—		Inner Groove Copper Tube-Aluminum Fin		
Power Supply		380-415V 3N~ 50/60Hz			
Compressor	Model		QXFS-D32zX090C	QXFS-F428zX450I	QXFS-F428zX450I
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	3720	4060	4060
Fan Motor	Type	—	Axial fan		
	Air Volume	m <sup>3</sup> /h	5900	5900	5900
	Output Power	W	—	—	—
Refrigerant	Type		R410A		
	Weight	kg	3.40	3.70	3.80
	Throttling Method		Electronic Expansion Valve		
Connection Pipe	Liquid Pipe	mm	Φ3/8	Φ3/8	Φ3/8
	Gas Pipe	inch	Φ5/8	Φ5/8	Φ5/8
Refrigerant Pipe	Standard Length	m	5.00	7.50	7.50
	Max. Length	m	65	75	75
	Max. Height	m	30	30	30
Dimensions (H×W×D)	Outline	mm	820×940×460	820×940×460	820×940×460
	Package	mm	973×1083×573	973×1083×573	973×1083×573
Weight	Net Weight	kg	90	96	100
	Gross Weight	kg	102	108	112
Safety Device		High pressure switch Low pressure switch Overload protector Discharge high temperature sensor External overload protector Fusible plugs fuse			

1. Product design conforms to EN14511 standards.
2. Air Volume was measured under applicable standard static pressure.
3. Above cooling (heating) capacity is measured under rated working condition. Parameters may be changed due to product improvement. Please refer to the present product nameplate.

	Indoor(°C)	Outdoor(°C)
Cooling	27/19	35/24
Heating	20/15	7/6

# 5 PRODUCT OPERATION RANGE

	Cooling	Heating
Outdoor temperature DB(°C)	-15~48	-15~24
Indoor temperature DB/WB(°C) (Maximum)	32/23	27/-

# 6 CAPACITY CORRECTION

## 6.1 Table of Performance Correction

### 6.1.1 Cassette Type

GUD35T/A-S

Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
DB	WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
Turbo	20	14	2.55	2.27	0.45	2.46	2.22	0.49	2.37	2.12	0.53	2.27	2.07	0.58	2.27	2.07	0.63
	23	16	3.10	2.67	0.58	2.99	2.61	0.63	2.88	2.49	0.69	2.77	2.43	0.74	2.77	2.43	0.81
	26	18	3.51	2.91	0.70	3.38	2.85	0.75	3.26	2.71	0.82	3.13	2.65	0.88	3.13	2.65	0.96
	27	19	3.93	3.11	0.81	3.79	3.04	0.88	3.64	2.90	0.95	3.50	2.83	1.03	3.21	2.65	1.12
	30	22	4.05	3.22	0.82	3.90	3.07	0.89	3.75	2.84	0.97	3.61	2.71	1.04	3.31	2.54	1.14
	32	24	4.12	3.11	0.83	3.97	2.95	0.90	3.82	2.74	0.97	3.67	2.60	1.05	3.37	2.43	1.15
H	20	14	2.20	2.01	0.41	2.20	2.01	0.48	2.20	2.01	0.51	2.20	2.01	0.56	2.20	2.01	0.60
	23	16	2.68	2.35	0.53	2.68	2.35	0.61	2.68	2.35	0.66	2.68	2.35	0.72	2.68	2.35	0.77
	26	18	3.03	2.57	0.63	3.03	2.57	0.73	3.03	2.57	0.79	3.03	2.57	0.85	3.03	2.57	0.92
	27	19	3.40	2.75	0.73	3.40	2.75	0.86	3.40	2.75	0.92	3.40	2.75	1.00	3.26	2.68	1.08
	30	22	3.50	2.84	0.74	3.50	2.78	0.87	3.50	2.69	0.93	3.50	2.63	1.01	3.36	2.57	1.09
	32	24	3.56	2.75	0.75	3.56	2.66	0.87	3.56	2.59	0.94	3.56	2.52	1.02	3.42	2.46	1.10
M	20	14	2.09	1.90	0.39	2.09	1.90	0.45	2.09	1.90	0.49	2.09	1.90	0.53	2.09	1.90	0.57
	23	16	2.54	2.23	0.50	2.54	2.23	0.58	2.54	2.23	0.63	2.54	2.23	0.68	2.54	2.23	0.74
	26	18	2.88	2.44	0.59	2.88	2.44	0.69	2.88	2.44	0.75	2.88	2.44	0.81	2.88	2.44	0.87
	27	19	3.22	2.60	0.69	3.22	2.60	0.81	3.22	2.60	0.87	3.22	2.60	0.95	3.09	2.54	1.02
	30	22	3.32	2.70	0.70	3.32	2.63	0.82	3.32	2.56	0.88	3.32	2.50	0.96	3.18	2.43	1.04
	32	24	3.38	2.61	0.71	3.38	2.53	0.83	3.38	2.46	0.89	3.38	2.39	0.97	3.24	2.33	1.04
L	20	14	2.05	1.86	0.38	2.05	1.86	0.44	2.05	1.86	0.48	2.05	1.86	0.52	2.05	1.86	0.56
	23	16	2.49	2.18	0.49	2.49	2.18	0.57	2.49	2.18	0.61	2.49	2.18	0.67	2.49	2.18	0.72
	26	18	2.82	2.39	0.58	2.82	2.39	0.68	2.82	2.39	0.73	2.82	2.39	0.79	2.82	2.39	0.86
	27	19	3.15	2.55	0.68	3.15	2.55	0.79	3.15	2.55	0.85	3.15	2.55	0.93	3.02	2.48	1.00
	30	22	3.24	2.64	0.69	3.24	2.58	0.80	3.24	2.50	0.86	3.24	2.44	0.94	3.11	2.38	1.01
	32	24	3.31	2.55	0.69	3.31	2.47	0.81	3.31	2.41	0.87	3.31	2.34	0.94	3.17	2.28	1.02

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	2.94	0.90	2.93	0.93	2.92	0.96	2.92	1.00	2.91	1.02
	-5	-5.6	3.28	0.96	3.27	0.98	3.26	1.02	3.26	1.05	3.25	1.07
	0	-0.7	3.61	1.01	3.61	1.03	3.59	1.06	3.59	1.09	3.59	1.11
	7	6	4.02	1.06	4.01	1.08	4.00	1.10	3.85	1.06	3.63	1.00
	10	8	4.14	1.09	4.13	1.10	4.00	1.08	3.85	0.99	3.63	0.93
H	-10	-11	2.85	0.87	2.84	0.90	2.83	0.93	2.83	0.97	2.82	0.99
	-5	-5.6	3.18	0.93	3.17	0.96	3.16	0.98	3.16	1.01	3.15	1.04
	0	-0.7	3.51	0.98	3.50	1.00	3.49	1.03	3.49	1.05	3.48	1.07
	7	6	3.90	1.03	3.89	1.05	3.88	1.07	3.73	1.03	3.52	0.97
	10	8	4.02	1.05	4.01	1.07	3.88	1.05	3.73	0.96	3.52	0.90
M	-10	-11	2.70	0.83	2.70	0.85	2.69	0.88	2.69	0.92	2.68	0.94
	-5	-5.6	3.02	0.88	3.01	0.91	3.00	0.93	3.00	0.96	2.99	0.98
	0	-0.7	3.33	0.93	3.32	0.95	3.31	0.97	3.31	1.00	3.30	1.02
	7	6	3.70	0.97	3.69	0.99	3.68	1.01	3.54	0.98	3.34	0.92
	10	8	3.81	1.00	3.80	1.01	3.68	0.99	3.54	0.91	3.34	0.86
L	-10	-11	2.65	0.81	2.64	0.83	2.63	0.86	2.63	0.90	2.62	0.92
	-5	-5.6	2.95	0.86	2.94	0.89	2.93	0.91	2.93	0.94	2.92	0.96
	0	-0.7	3.25	0.91	3.24	0.93	3.24	0.95	3.24	0.98	3.23	0.99
	7	6	3.62	0.95	3.61	0.97	3.60	0.99	3.46	0.96	3.26	0.90
	10	8	3.73	0.98	3.72	0.99	3.60	0.97	3.46	0.89	3.26	0.84

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling (an addition for heating) for indoor fan motor heat.

GUD50T/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	3.64	2.97	0.69	3.51	2.91	0.74	3.38	2.77	0.81	3.25	2.70	0.87	3.25	2.70	0.95
	23	16	4.44	3.49	0.88	4.27	3.41	0.96	4.11	3.25	1.04	3.95	3.17	1.12	3.95	3.17	1.22
	26	18	5.02	3.81	1.05	4.83	3.72	1.14	4.65	3.55	1.24	4.47	3.47	1.33	4.47	3.47	1.46
	27	19	5.61	4.07	1.23	5.41	3.97	1.33	5.21	3.79	1.45	5.00	3.70	1.56	4.59	3.46	1.70
	30	22	5.78	4.21	1.25	5.57	4.02	1.35	5.36	3.72	1.46	5.15	3.55	1.58	4.72	3.32	1.72
	32	24	5.89	4.07	1.26	5.68	3.86	1.36	5.46	3.58	1.47	5.25	3.40	1.59	4.81	3.18	1.74
H	20	14	3.15	2.62	0.62	3.15	2.62	0.72	3.15	2.62	0.78	3.15	2.62	0.85	3.15	2.62	0.91
	23	16	3.83	3.08	0.80	3.83	3.08	0.93	3.83	3.08	1.00	3.83	3.08	1.09	3.83	3.08	1.17
	26	18	4.33	3.36	0.95	4.33	3.36	1.11	4.33	3.36	1.19	4.33	3.36	1.29	4.33	3.36	1.40
	27	19	4.85	3.59	1.11	4.85	3.59	1.30	4.85	3.59	1.39	4.85	3.59	1.51	4.66	3.50	1.63
	30	22	5.00	3.72	1.12	5.00	3.63	1.31	5.00	3.52	1.41	5.00	3.44	1.53	4.80	3.35	1.65
	32	24	5.09	3.59	1.13	5.09	3.48	1.32	5.09	3.39	1.42	5.09	3.29	1.54	4.89	3.21	1.67
M	20	14	2.99	2.49	0.59	2.99	2.49	0.69	2.99	2.49	0.74	2.99	2.49	0.80	2.99	2.49	0.87
	23	16	3.63	2.92	0.75	3.63	2.92	0.88	3.63	2.92	0.95	3.63	2.92	1.03	3.63	2.92	1.11
	26	18	4.11	3.19	0.90	4.11	3.19	1.05	4.11	3.19	1.13	4.11	3.19	1.23	4.11	3.19	1.32
	27	19	4.60	3.40	1.05	4.60	3.40	1.23	4.60	3.40	1.32	4.60	3.40	1.44	4.42	3.32	1.55
	30	22	4.74	3.53	1.06	4.74	3.44	1.24	4.74	3.34	1.34	4.74	3.26	1.45	4.55	3.18	1.57
	32	24	4.83	3.41	1.07	4.83	3.30	1.25	4.83	3.22	1.35	4.83	3.12	1.46	4.64	3.05	1.58
L	20	14	2.92	2.43	0.57	2.92	2.43	0.67	2.92	2.43	0.72	2.92	2.43	0.78	2.92	2.43	0.85
	23	16	3.56	2.86	0.74	3.56	2.86	0.86	3.56	2.86	0.93	3.56	2.86	1.01	3.56	2.86	1.09
	26	18	4.02	3.12	0.88	4.02	3.12	1.03	4.02	3.12	1.10	4.02	3.12	1.20	4.02	3.12	1.30
	27	19	4.50	3.33	1.03	4.50	3.33	1.20	4.50	3.33	1.29	4.50	3.33	1.40	4.32	3.25	1.52
	30	22	4.64	3.45	1.04	4.64	3.37	1.22	4.64	3.27	1.31	4.64	3.19	1.42	4.45	3.11	1.53
	32	24	4.72	3.33	1.05	4.72	3.23	1.23	4.72	3.15	1.32	4.72	3.06	1.43	4.53	2.98	1.55

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	4.12	1.31	4.10	1.35	4.09	1.40	4.09	1.45	4.07	1.49
	-5	-5.6	4.59	1.40	4.57	1.43	4.56	1.48	4.56	1.52	4.55	1.55
	0	-0.7	5.06	1.47	5.05	1.50	5.03	1.54	5.03	1.58	5.02	1.61
	7	6	5.63	1.54	5.61	1.57	5.60	1.60	5.38	1.55	5.08	1.45
	10	8	5.80	1.58	5.78	1.60	5.60	1.57	5.38	1.44	5.08	1.35
H	-10	-11	3.99	1.27	3.98	1.31	3.97	1.35	3.97	1.41	3.95	1.44
	-5	-5.6	4.45	1.35	4.44	1.39	4.42	1.43	4.42	1.47	4.41	1.51
	0	-0.7	4.91	1.42	4.90	1.45	4.88	1.49	4.88	1.53	4.87	1.56
	7	6	5.46	1.49	5.45	1.52	5.43	1.55	5.22	1.50	4.92	1.40
	10	8	5.62	1.53	5.61	1.55	5.43	1.52	5.22	1.40	4.92	1.31
M	-10	-11	3.79	1.20	3.77	1.24	3.76	1.28	3.76	1.33	3.75	1.37
	-5	-5.6	4.22	1.28	4.21	1.32	4.20	1.36	4.20	1.40	4.18	1.43
	0	-0.7	4.66	1.35	4.64	1.38	4.63	1.42	4.63	1.45	4.62	1.48
	7	6	5.18	1.42	5.17	1.44	5.15	1.47	4.95	1.42	4.67	1.33
	10	8	5.33	1.45	5.32	1.47	5.15	1.44	4.95	1.33	4.67	1.24
L	-10	-11	3.70	1.18	3.69	1.21	3.68	1.26	3.68	1.30	3.67	1.34
	-5	-5.6	4.13	1.26	4.12	1.29	4.10	1.33	4.10	1.37	4.09	1.40
	0	-0.7	4.55	1.32	4.54	1.35	4.53	1.39	4.53	1.42	4.52	1.45
	7	6	5.06	1.39	5.05	1.41	5.04	1.44	4.85	1.39	4.57	1.30
	10	8	5.22	1.42	5.20	1.44	5.04	1.41	4.85	1.30	4.57	1.22

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling (an addition for heating) for indoor fan motor heat.

GUD71T/A1-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	5.10	4.30	0.92	4.92	4.20	0.99	4.73	4.01	1.08	4.54	3.91	1.16	4.54	3.91	1.27
	23	16	6.21	5.04	1.18	5.98	4.93	1.28	5.76	4.70	1.38	5.53	4.59	1.49	5.53	4.59	1.63
	26	18	7.02	5.51	1.40	6.77	5.38	1.52	6.51	5.13	1.65	6.26	5.01	1.78	6.26	5.01	1.94
	27	19	7.86	5.88	1.64	7.57	5.75	1.78	7.29	5.48	1.93	7.00	5.35	2.08	6.42	5.00	2.27
	30	22	8.09	6.09	1.66	7.80	5.81	1.80	7.51	5.38	1.95	7.21	5.13	2.10	6.61	4.80	2.30
	32	24	8.25	5.89	1.67	7.95	5.58	1.81	7.65	5.18	1.96	7.35	4.91	2.12	6.74	4.59	2.31
H	20	14	4.41	3.79	0.83	4.41	3.79	0.97	4.41	3.79	1.04	4.41	3.79	1.13	4.41	3.79	1.22
	23	16	5.37	4.45	1.06	5.37	4.45	1.24	5.37	4.45	1.33	5.37	4.45	1.45	5.37	4.45	1.57
	26	18	6.07	4.86	1.26	6.07	4.86	1.48	6.07	4.86	1.59	6.07	4.86	1.72	6.07	4.86	1.86
	27	19	6.79	5.19	1.48	6.79	5.19	1.73	6.79	5.19	1.86	6.79	5.19	2.02	6.52	5.06	2.18
	30	22	6.99	5.38	1.50	6.99	5.25	1.75	6.99	5.09	1.88	6.99	4.98	2.04	6.71	4.85	2.21
	32	24	7.13	5.19	1.51	7.13	5.04	1.76	7.13	4.90	1.89	7.13	4.76	2.06	6.84	4.64	2.22
M	20	14	4.18	3.60	0.78	4.18	3.60	0.92	4.18	3.60	0.98	4.18	3.60	1.07	4.18	3.60	1.15
	23	16	5.09	4.22	1.01	5.09	4.22	1.18	5.09	4.22	1.26	5.09	4.22	1.37	5.09	4.22	1.48
	26	18	5.76	4.61	1.20	5.76	4.61	1.40	5.76	4.61	1.51	5.76	4.61	1.64	5.76	4.61	1.77
	27	19	6.44	4.92	1.40	6.44	4.92	1.64	6.44	4.92	1.76	6.44	4.92	1.91	6.18	4.80	2.07
	30	22	6.63	5.10	1.42	6.63	4.98	1.66	6.63	4.83	1.78	6.63	4.72	1.94	6.37	4.60	2.09
	32	24	6.76	4.93	1.43	6.76	4.78	1.67	6.76	4.65	1.79	6.76	4.52	1.95	6.49	4.40	2.11
L	20	14	4.09	3.52	0.77	4.09	3.52	0.90	4.09	3.52	0.96	4.09	3.52	1.05	4.09	3.52	1.13
	23	16	4.98	4.13	0.98	4.98	4.13	1.15	4.98	4.13	1.24	4.98	4.13	1.34	4.98	4.13	1.45
	26	18	5.63	4.51	1.17	5.63	4.51	1.37	5.63	4.51	1.47	5.63	4.51	1.60	5.63	4.51	1.73
	27	19	6.30	4.82	1.37	6.30	4.82	1.60	6.30	4.82	1.72	6.30	4.82	1.87	6.05	4.69	2.02
	30	22	6.49	4.99	1.39	6.49	4.87	1.62	6.49	4.73	1.74	6.49	4.62	1.89	6.23	4.50	2.05
	32	24	6.61	4.82	1.40	6.61	4.67	1.63	6.61	4.55	1.76	6.61	4.42	1.91	6.35	4.31	2.06

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	5.88	1.84	5.86	1.90	5.84	1.96	5.84	2.04	5.82	2.09
	-5	-5.6	6.55	1.96	6.53	2.01	6.52	2.08	6.52	2.14	6.50	2.18
	0	-0.7	7.23	2.06	7.21	2.10	7.19	2.17	7.19	2.22	7.17	2.26
	7	6	8.04	2.17	8.02	2.21	8.00	2.25	7.69	2.18	7.25	2.04
	10	8	8.28	2.22	8.26	2.25	8.00	2.21	7.69	2.03	7.25	1.90
H	-10	-11	5.70	1.79	5.68	1.84	5.67	1.91	5.67	1.98	5.65	2.03
	-5	-5.6	6.36	1.91	6.34	1.95	6.32	2.01	6.32	2.07	6.30	2.12
	0	-0.7	7.01	2.00	6.99	2.04	6.97	2.10	6.97	2.16	6.96	2.19
	7	6	7.80	2.10	7.78	2.14	7.76	2.18	7.46	2.11	7.03	1.98
	10	8	8.03	2.16	8.01	2.18	7.76	2.14	7.46	1.97	7.03	1.85
M	-10	-11	5.41	1.69	5.39	1.74	5.37	1.81	5.37	1.87	5.36	1.93
	-5	-5.6	6.03	1.81	6.01	1.85	5.99	1.91	5.99	1.97	5.98	2.01
	0	-0.7	6.65	1.90	6.63	1.94	6.61	1.99	6.61	2.04	6.60	2.08
	7	6	7.40	1.99	7.38	2.03	7.36	2.07	7.08	2.00	6.67	1.87
	10	8	7.62	2.04	7.60	2.07	7.36	2.03	7.08	1.86	6.67	1.75
L	-10	-11	5.29	1.66	5.27	1.71	5.26	1.77	5.26	1.83	5.24	1.88
	-5	-5.6	5.90	1.77	5.88	1.81	5.86	1.87	5.86	1.92	5.85	1.96
	0	-0.7	6.51	1.86	6.49	1.89	6.47	1.95	6.47	2.00	6.45	2.04
	7	6	7.24	1.95	7.22	1.98	7.20	2.03	6.92	1.96	6.53	1.83
	10	8	7.45	2.00	7.43	2.03	7.20	1.99	6.92	1.82	6.53	1.71

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling (an addition for heating) for indoor fan motor heat.

GUD71T/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	5.10	4.30	0.92	4.92	4.20	0.99	4.73	4.01	1.08	4.54	3.91	1.16	4.54	3.91	1.27
	23	16	6.21	5.04	1.18	5.98	4.93	1.28	5.76	4.70	1.38	5.53	4.59	1.49	5.53	4.59	1.63
	26	18	7.02	5.51	1.40	6.77	5.38	1.52	6.51	5.13	1.65	6.26	5.01	1.78	6.26	5.01	1.94
	27	19	7.86	5.88	1.64	7.57	5.75	1.78	7.29	5.48	1.93	7.00	5.35	2.08	6.42	5.00	2.27
	30	22	8.09	6.09	1.66	7.80	5.81	1.80	7.51	5.38	1.95	7.21	5.13	2.10	6.61	4.80	2.30
	32	24	8.25	5.89	1.67	7.95	5.58	1.81	7.65	5.18	1.96	7.35	4.91	2.12	6.74	4.59	2.31
H	20	14	4.41	3.79	0.83	4.41	3.79	0.97	4.41	3.79	1.04	4.41	3.79	1.13	4.41	3.79	1.22
	23	16	5.37	4.45	1.06	5.37	4.45	1.24	5.37	4.45	1.33	5.37	4.45	1.45	5.37	4.45	1.57
	26	18	6.07	4.86	1.26	6.07	4.86	1.48	6.07	4.86	1.59	6.07	4.86	1.72	6.07	4.86	1.86
	27	19	6.79	5.19	1.48	6.79	5.19	1.73	6.79	5.19	1.86	6.79	5.19	2.02	6.52	5.06	2.18
	30	22	6.99	5.38	1.50	6.99	5.25	1.75	6.99	5.09	1.88	6.99	4.98	2.04	6.71	4.85	2.21
	32	24	7.13	5.19	1.51	7.13	5.04	1.76	7.13	4.90	1.89	7.13	4.76	2.06	6.84	4.64	2.22
M	20	14	4.18	3.60	0.78	4.18	3.60	0.92	4.18	3.60	0.98	4.18	3.60	1.07	4.18	3.60	1.15
	23	16	5.09	4.22	1.01	5.09	4.22	1.18	5.09	4.22	1.26	5.09	4.22	1.37	5.09	4.22	1.48
	26	18	5.76	4.61	1.20	5.76	4.61	1.40	5.76	4.61	1.51	5.76	4.61	1.64	5.76	4.61	1.77
	27	19	6.44	4.92	1.40	6.44	4.92	1.64	6.44	4.92	1.76	6.44	4.92	1.91	6.18	4.80	2.07
	30	22	6.63	5.10	1.42	6.63	4.98	1.66	6.63	4.83	1.78	6.63	4.72	1.94	6.37	4.60	2.09
	32	24	6.76	4.93	1.43	6.76	4.78	1.67	6.76	4.65	1.79	6.76	4.52	1.95	6.49	4.40	2.11
L	20	14	4.09	3.52	0.77	4.09	3.52	0.90	4.09	3.52	0.96	4.09	3.52	1.05	4.09	3.52	1.13
	23	16	4.98	4.13	0.98	4.98	4.13	1.15	4.98	4.13	1.24	4.98	4.13	1.34	4.98	4.13	1.45
	26	18	5.63	4.51	1.17	5.63	4.51	1.37	5.63	4.51	1.47	5.63	4.51	1.60	5.63	4.51	1.73
	27	19	6.30	4.82	1.37	6.30	4.82	1.60	6.30	4.82	1.72	6.30	4.82	1.87	6.05	4.69	2.02
	30	22	6.49	4.99	1.39	6.49	4.87	1.62	6.49	4.73	1.74	6.49	4.62	1.89	6.23	4.50	2.05
	32	24	6.61	4.82	1.40	6.61	4.67	1.63	6.61	4.55	1.76	6.61	4.42	1.91	6.35	4.31	2.06



# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	5.88	1.80	5.86	1.85	5.84	1.92	5.84	1.99	5.82	2.05
	-5	-5.6	6.55	1.92	6.53	1.97	6.52	2.03	6.52	2.09	6.50	2.13
	0	-0.7	7.23	2.02	7.21	2.06	7.19	2.12	7.19	2.17	7.17	2.21
	7	6	8.04	2.12	8.02	2.16	8.00	2.20	7.69	2.13	7.25	1.99
	10	8	8.28	2.17	8.26	2.20	8.00	2.16	7.69	1.98	7.25	1.86
H	-10	-11	5.70	1.75	5.68	1.80	5.67	1.86	5.67	1.93	5.65	1.99
	-5	-5.6	6.36	1.86	6.34	1.91	6.32	1.97	6.32	2.03	6.30	2.07
	0	-0.7	7.01	1.96	6.99	2.00	6.97	2.05	6.97	2.11	6.96	2.14
	7	6	7.80	2.05	7.78	2.09	7.76	2.13	7.46	2.06	7.03	1.93
	10	8	8.03	2.11	8.01	2.13	7.76	2.09	7.46	1.92	7.03	1.80
M	-10	-11	5.41	1.66	5.39	1.71	5.37	1.77	5.37	1.83	5.36	1.88
	-5	-5.6	6.03	1.77	6.01	1.81	5.99	1.87	5.99	1.92	5.98	1.96
	0	-0.7	6.65	1.86	6.63	1.89	6.61	1.95	6.61	2.00	6.60	2.03
	7	6	7.40	1.95	7.38	1.98	7.36	2.02	7.08	1.96	6.67	1.83
	10	8	7.62	2.00	7.60	2.02	7.36	1.98	7.08	1.82	6.67	1.71
L	-10	-11	5.29	1.62	5.27	1.67	5.26	1.73	5.26	1.79	5.24	1.84
	-5	-5.6	5.90	1.73	5.88	1.77	5.86	1.83	5.86	1.88	5.85	1.92
	0	-0.7	6.51	1.82	6.49	1.85	6.47	1.91	6.47	1.96	6.45	1.99
	7	6	7.24	1.91	7.22	1.94	7.20	1.98	6.92	1.92	6.53	1.79
	10	8	7.45	1.96	7.43	1.98	7.20	1.94	6.92	1.78	6.53	1.67

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling (an addition for heating) for indoor fan motor heat.

GUD100T/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	7.36	5.94	1.50	7.09	5.81	1.62	6.83	5.54	1.76	6.56	5.41	1.90	6.56	5.41	2.07
	23	16	8.96	6.97	1.93	8.63	6.82	2.08	8.31	6.50	2.26	7.98	6.35	2.44	7.98	6.35	2.67
	26	18	10.13	7.62	2.29	9.76	7.45	2.48	9.40	7.10	2.69	9.03	6.93	2.91	9.03	6.93	3.17
	27	19	11.34	8.13	2.69	10.92	7.95	2.90	10.51	7.58	3.15	10.10	7.40	3.40	9.26	6.92	3.71
	30	22	11.68	8.43	2.72	11.25	8.04	2.94	10.83	7.44	3.19	10.40	7.10	3.44	9.54	6.64	3.76
	32	24	11.90	8.14	2.74	11.47	7.71	2.96	11.04	7.16	3.21	10.60	6.79	3.46	9.72	6.35	3.78
H	20	14	6.36	5.25	1.35	6.36	5.25	1.58	6.36	5.25	1.69	6.36	5.25	1.84	6.36	5.25	1.99
	23	16	7.74	6.16	1.73	7.74	6.16	2.03	7.74	6.16	2.18	7.74	6.16	2.37	7.74	6.16	2.56
	26	18	8.76	6.72	2.06	8.76	6.72	2.42	8.76	6.72	2.59	8.76	6.72	2.82	8.76	6.72	3.04
	27	19	9.80	7.18	2.42	9.80	7.18	2.83	9.80	7.18	3.03	9.80	7.18	3.30	9.41	7.00	3.56
	30	22	10.09	7.44	2.44	10.09	7.26	2.86	10.09	7.05	3.07	10.09	6.88	3.34	9.69	6.71	3.60
	32	24	10.28	7.19	2.46	10.28	6.97	2.88	10.28	6.78	3.09	10.28	6.59	3.36	9.87	6.42	3.63
M	20	14	6.03	4.98	1.28	6.03	4.98	1.50	6.03	4.98	1.61	6.03	4.98	1.75	6.03	4.98	1.89
	23	16	7.34	5.84	1.65	7.34	5.84	1.92	7.34	5.84	2.07	7.34	5.84	2.25	7.34	5.84	2.43
	26	18	8.30	6.38	1.96	8.30	6.38	2.29	8.30	6.38	2.46	8.30	6.38	2.67	8.30	6.38	2.89
	27	19	9.29	6.81	2.29	9.29	6.81	2.68	9.29	6.81	2.88	9.29	6.81	3.13	8.92	6.64	3.38
	30	22	9.57	7.05	2.32	9.57	6.88	2.71	9.57	6.68	2.91	9.57	6.53	3.17	9.19	6.36	3.42
	32	24	9.75	6.82	2.33	9.75	6.61	2.73	9.75	6.43	2.93	9.75	6.25	3.19	9.36	6.09	3.44
L	20	14	5.90	4.87	1.25	5.90	4.87	1.46	5.90	4.87	1.57	5.90	4.87	1.71	5.90	4.87	1.85
	23	16	7.18	5.71	1.61	7.18	5.71	1.88	7.18	5.71	2.02	7.18	5.71	2.20	7.18	5.71	2.37
	26	18	8.12	6.24	1.92	8.12	6.24	2.24	8.12	6.24	2.41	8.12	6.24	2.62	8.12	6.24	2.82
	27	19	9.09	6.66	2.24	9.09	6.66	2.62	9.09	6.66	2.82	9.09	6.66	3.06	8.73	6.49	3.30
	30	22	9.36	6.90	2.27	9.36	6.73	2.65	9.36	6.54	2.85	9.36	6.39	3.10	8.99	6.23	3.34
	32	24	9.54	6.67	2.28	9.54	6.46	2.67	9.54	6.29	2.87	9.54	6.11	3.12	9.16	5.96	3.37

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	8.08	2.70	8.06	2.78	8.03	2.88	8.03	2.99	8.00	3.07
	-5	-5.6	9.01	2.88	8.98	2.95	8.96	3.05	8.96	3.14	8.93	3.20
	0	-0.7	9.94	3.03	9.91	3.09	9.89	3.18	9.89	3.26	9.86	3.32
	7	6	11.05	3.18	11.03	3.23	11.00	3.30	10.58	3.19	9.97	2.99
	10	8	11.38	3.26	11.36	3.30	11.00	3.24	10.58	2.97	9.97	2.79
H	-10	-11	7.84	2.62	7.82	2.70	7.79	2.79	7.79	2.90	7.76	2.98
	-5	-5.6	8.74	2.79	8.72	2.87	8.69	2.95	8.69	3.04	8.67	3.11
	0	-0.7	9.64	2.94	9.62	2.99	9.59	3.08	9.59	3.16	9.56	3.22
	7	6	10.72	3.08	10.70	3.14	10.67	3.20	10.26	3.10	9.67	2.90
	10	8	11.04	3.16	11.02	3.20	10.67	3.14	10.26	2.88	9.67	2.71
M	-10	-11	7.44	2.48	7.41	2.56	7.39	2.65	7.39	2.75	7.36	2.83
	-5	-5.6	8.29	2.65	8.27	2.72	8.24	2.80	8.24	2.88	8.22	2.95
	0	-0.7	9.14	2.79	9.12	2.84	9.10	2.92	9.10	3.00	9.07	3.05
	7	6	10.17	2.92	10.15	2.98	10.12	3.04	9.73	2.94	9.17	2.75
	10	8	10.47	3.00	10.45	3.04	10.12	2.98	9.73	2.73	9.17	2.57
L	-10	-11	7.28	2.43	7.25	2.50	7.23	2.59	7.23	2.69	7.20	2.76
	-5	-5.6	8.11	2.59	8.09	2.66	8.06	2.74	8.06	2.82	8.04	2.88
	0	-0.7	8.95	2.73	8.92	2.78	8.90	2.86	8.90	2.93	8.87	2.98
	7	6	9.95	2.86	9.93	2.91	9.90	2.97	9.52	2.87	8.97	2.69
	10	8	10.25	2.93	10.22	2.97	9.90	2.91	9.52	2.67	8.97	2.51

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling (an addition for heating) for indoor fan motor heat.

GUD125T/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	8.75	6.99	1.98	8.43	6.83	2.15	8.11	6.51	2.33	7.79	6.36	2.51	7.79	6.36	2.74
	23	16	10.65	8.20	2.55	10.26	8.01	2.76	9.87	7.64	3.00	9.48	7.46	3.23	9.48	7.46	3.53
	26	18	12.04	8.95	3.04	11.60	8.75	3.28	11.16	8.34	3.57	10.72	8.15	3.85	10.72	8.15	4.20
	27	19	13.47	9.56	3.55	12.98	9.35	3.84	12.49	8.91	4.17	12.00	8.70	4.50	11.00	8.13	4.91
	30	22	13.88	9.91	3.60	13.37	9.45	3.89	12.87	8.75	4.22	12.36	8.34	4.55	11.33	7.80	4.97
	32	24	14.14	9.57	3.62	13.62	9.07	3.92	13.11	8.42	4.25	12.59	7.98	4.59	11.55	7.47	5.01
H	20	14	7.56	6.17	1.79	7.56	6.17	2.09	7.56	6.17	2.24	7.56	6.17	2.44	7.56	6.17	2.63
	23	16	9.20	7.24	2.30	9.20	7.24	2.69	9.20	7.24	2.88	9.20	7.24	3.14	9.20	7.24	3.39
	26	18	10.40	7.90	2.73	10.40	7.90	3.20	10.40	7.90	3.43	10.40	7.90	3.73	10.40	7.90	4.03
	27	19	11.64	8.44	3.20	11.64	8.44	3.74	11.64	8.44	4.02	11.64	8.44	4.37	11.18	8.23	4.71
	30	22	11.99	8.75	3.23	11.99	8.53	3.78	11.99	8.28	4.06	11.99	8.09	4.42	11.51	7.89	4.77
	32	24	12.22	8.45	3.26	12.22	8.19	3.81	12.22	7.97	4.09	12.22	7.75	4.45	11.73	7.55	4.80
M	20	14	7.17	5.85	1.69	7.17	5.85	1.98	7.17	5.85	2.13	7.17	5.85	2.31	7.17	5.85	2.50
	23	16	8.72	6.86	2.18	8.72	6.86	2.55	8.72	6.86	2.74	8.72	6.86	2.97	8.72	6.86	3.21
	26	18	9.87	7.50	2.59	9.87	7.50	3.03	9.87	7.50	3.26	9.87	7.50	3.54	9.87	7.50	3.82
	27	19	11.04	8.00	3.03	11.04	8.00	3.55	11.04	8.00	3.81	11.04	8.00	4.14	10.60	7.80	4.47
	30	22	11.37	8.29	3.07	11.37	8.09	3.59	11.37	7.86	3.86	11.37	7.68	4.19	10.92	7.48	4.52
	32	24	11.59	8.01	3.09	11.59	7.77	3.61	11.59	7.56	3.88	11.59	7.35	4.22	11.12	7.16	4.56
L	20	14	7.01	5.72	1.66	7.01	5.72	1.94	7.01	5.72	2.08	7.01	5.72	2.26	7.01	5.72	2.44
	23	16	8.53	6.71	2.13	8.53	6.71	2.49	8.53	6.71	2.68	8.53	6.71	2.91	8.53	6.71	3.14
	26	18	9.65	7.33	2.53	9.65	7.33	2.97	9.65	7.33	3.19	9.65	7.33	3.46	9.65	7.33	3.74
	27	19	10.80	7.83	2.97	10.80	7.83	3.47	10.80	7.83	3.73	10.80	7.83	4.05	10.37	7.63	4.37
	30	22	11.12	8.11	3.00	11.12	7.92	3.51	11.12	7.69	3.77	11.12	7.51	4.10	10.68	7.32	4.43
	32	24	11.34	7.84	3.02	11.34	7.60	3.54	11.34	7.40	3.80	11.34	7.19	4.13	10.88	7.00	4.46

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
Turbo	-10	-11	10.29	3.44	10.26	3.54	10.22	3.67	10.22	3.80	10.19	3.91
	-5	-5.6	11.47	3.67	11.44	3.76	11.40	3.88	11.40	3.99	11.37	4.07
	0	-0.7	12.65	3.85	12.62	3.93	12.58	4.04	12.58	4.15	12.55	4.22
	7	6	14.07	4.04	14.04	4.12	14.00	4.20	13.46	4.06	12.69	3.80
	10	8	14.49	4.15	14.45	4.20	14.00	4.12	13.46	3.78	12.69	3.55
H	-10	-11	9.98	3.33	9.95	3.43	9.92	3.56	9.92	3.69	9.88	3.79
	-5	-5.6	11.13	3.56	11.09	3.65	11.06	3.76	11.06	3.87	11.03	3.95
	0	-0.7	12.27	3.74	12.24	3.81	12.20	3.92	12.20	4.02	12.17	4.09
	7	6	13.65	3.92	13.61	3.99	13.58	4.07	13.06	3.94	12.31	3.69
	10	8	14.05	4.02	14.02	4.08	13.58	3.99	13.06	3.67	12.31	3.45
M	-10	-11	9.47	3.16	9.44	3.26	9.41	3.37	9.41	3.50	9.37	3.60
	-5	-5.6	10.55	3.37	10.52	3.46	10.49	3.57	10.49	3.67	10.46	3.75
	0	-0.7	11.64	3.55	11.61	3.61	11.58	3.72	11.58	3.82	11.55	3.88
	7	6	12.94	3.72	12.91	3.79	12.88	3.86	12.39	3.74	11.67	3.50
	10	8	13.33	3.82	13.30	3.87	12.88	3.79	12.39	3.48	11.67	3.27
L	-10	-11	9.26	3.09	9.23	3.19	9.20	3.30	9.20	3.42	9.17	3.52
	-5	-5.6	10.32	3.30	10.29	3.38	10.26	3.49	10.26	3.59	10.23	3.67
	0	-0.7	11.39	3.47	11.36	3.53	11.32	3.64	11.32	3.73	11.29	3.80
	7	6	12.66	3.64	12.63	3.70	12.60	3.78	12.12	3.66	11.42	3.42
	10	8	13.04	3.73	13.01	3.78	12.60	3.71	12.12	3.40	11.42	3.20

### Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD140T/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	10.20	9.24	2.43	9.83	9.03	2.62	9.46	8.61	2.85	9.09	8.41	3.07	9.09	8.41	3.35
	23	16	12.42	10.84	3.12	11.96	10.59	3.37	11.52	10.10	3.66	11.06	9.86	3.95	11.06	9.86	4.31
	26	18	14.05	11.84	3.71	13.53	11.57	4.01	13.02	11.03	4.36	12.51	10.77	4.70	12.51	10.77	5.13
	27	19	15.72	12.64	4.34	15.14	12.35	4.70	14.57	11.78	5.10	14.00	11.50	5.50	12.84	10.75	6.01
	30	22	16.19	13.10	4.40	15.60	12.49	4.75	15.01	11.56	5.16	14.42	11.03	5.57	13.22	10.31	6.08
	32	24	16.50	12.65	4.43	15.89	11.99	4.79	15.30	11.13	5.20	14.69	10.55	5.60	13.47	9.87	6.12
H	20	14	8.82	8.15	2.18	8.82	8.15	2.55	8.82	8.15	2.74	8.82	8.15	2.98	8.82	8.15	3.22
	23	16	10.73	9.57	2.81	10.73	9.57	3.28	10.73	9.57	3.53	10.73	9.57	3.83	10.73	9.57	4.14
	26	18	12.14	10.45	3.34	12.14	10.45	3.91	12.14	10.45	4.20	12.14	10.45	4.56	12.14	10.45	4.92
	27	19	13.58	11.16	3.91	13.58	11.16	4.57	13.58	11.16	4.91	13.58	11.16	5.34	13.04	10.87	5.76
	30	22	13.99	11.56	3.95	13.99	11.28	4.63	13.99	10.95	4.97	13.99	10.70	5.40	13.43	10.43	5.83
	32	24	14.25	11.17	3.98	14.25	10.82	4.66	14.25	10.54	5.00	14.25	10.24	5.44	13.68	9.98	5.87
M	20	14	8.36	7.73	2.07	8.36	7.73	2.42	8.36	7.73	2.60	8.36	7.73	2.83	8.36	7.73	3.05
	23	16	10.18	9.07	2.66	10.18	9.07	3.11	10.18	9.07	3.34	10.18	9.07	3.63	10.18	9.07	3.93
	26	18	11.51	9.91	3.17	11.51	9.91	3.71	11.51	9.91	3.98	11.51	9.91	4.32	11.51	9.91	4.67
	27	19	12.88	10.58	3.71	12.88	10.58	4.34	12.88	10.58	4.66	12.88	10.58	5.06	12.37	10.31	5.46
	30	22	13.27	10.96	3.75	13.27	10.70	4.39	13.27	10.39	4.71	13.27	10.15	5.12	12.74	9.89	5.53
	32	24	13.52	10.59	3.78	13.52	10.27	4.42	13.52	10.00	4.75	13.52	9.71	5.16	12.98	9.46	5.57
L	20	14	8.18	7.57	2.02	8.18	7.57	2.37	8.18	7.57	2.54	8.18	7.57	2.76	8.18	7.57	2.99
	23	16	9.96	8.88	2.60	9.96	8.88	3.05	9.96	8.88	3.27	9.96	8.88	3.56	9.96	8.88	3.84
	26	18	11.26	9.69	3.10	11.26	9.69	3.62	11.26	9.69	3.89	11.26	9.69	4.23	11.26	9.69	4.57
	27	19	12.60	10.35	3.62	12.60	10.35	4.24	12.60	10.35	4.56	12.60	10.35	4.95	12.10	10.09	5.35
	30	22	12.98	10.73	3.67	12.98	10.47	4.29	12.98	10.16	4.61	12.98	9.93	5.01	12.46	9.68	5.41
	32	24	13.22	10.36	3.69	13.22	10.04	4.32	13.22	9.78	4.64	13.22	9.50	5.04	12.70	9.26	5.45

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
Turbo	-10	-11	11.02	3.68	10.99	3.79	10.95	3.93	10.95	4.07	10.91	4.19
	-5	-5.6	12.29	3.93	12.25	4.03	12.22	4.15	12.22	4.28	12.18	4.37
	0	-0.7	13.55	4.13	13.52	4.21	13.48	4.33	13.48	4.44	13.45	4.52
	7	6	15.07	4.33	15.04	4.41	15.00	4.50	14.42	4.35	13.60	4.07
	10	8	15.52	4.45	15.49	4.50	15.00	4.41	14.42	4.05	13.60	3.81
H	-10	-11	10.69	3.57	10.66	3.68	10.62	3.81	10.62	3.95	10.59	4.06
	-5	-5.6	11.92	3.81	11.88	3.91	11.85	4.03	11.85	4.15	11.82	4.23
	0	-0.7	13.15	4.01	13.11	4.08	13.08	4.20	13.08	4.31	13.04	4.39
	7	6	14.62	4.20	14.59	4.28	14.55	4.37	13.99	4.22	13.19	3.95
	10	8	15.06	4.31	15.02	4.37	14.55	4.28	13.99	3.93	13.19	3.69
M	-10	-11	10.14	3.39	10.11	3.49	10.08	3.61	10.08	3.75	10.04	3.85
	-5	-5.6	11.31	3.61	11.27	3.71	11.24	3.82	11.24	3.93	11.21	4.02
	0	-0.7	12.47	3.80	12.44	3.87	12.40	3.99	12.40	4.09	12.37	4.16
	7	6	13.87	3.99	13.84	4.06	13.80	4.14	13.27	4.01	12.51	3.75
	10	8	14.28	4.09	14.25	4.14	13.80	4.06	13.27	3.73	12.51	3.50
L	-10	-11	9.92	3.31	9.89	3.41	9.86	3.54	9.86	3.67	9.82	3.77
	-5	-5.6	11.06	3.54	11.03	3.63	11.00	3.74	11.00	3.85	10.96	3.93
	0	-0.7	12.20	3.72	12.17	3.79	12.13	3.90	12.13	4.00	12.10	4.07
	7	6	13.57	3.90	13.53	3.97	13.50	4.05	12.98	3.92	12.24	3.67
	10	8	13.97	4.00	13.94	4.05	13.50	3.97	12.98	3.65	12.24	3.43

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	7.5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD160T/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	10.93	9.24	2.43	10.53	9.03	2.62	10.14	8.61	2.85	9.74	8.41	3.07	9.74	8.41	3.35
	23	16	13.31	10.84	3.12	12.82	10.59	3.37	12.34	10.10	3.66	11.85	9.86	3.95	11.85	9.86	4.31
	26	18	15.05	11.84	3.71	14.50	11.57	4.01	13.95	11.03	4.36	13.40	10.77	4.70	13.40	10.77	5.13
	27	19	16.84	12.64	4.34	16.22	12.35	4.70	15.62	11.78	5.10	15.00	11.50	5.50	13.76	10.75	6.01
	30	22	17.35	13.10	4.40	16.71	12.49	4.75	16.08	11.56	5.16	15.45	11.03	5.57	14.17	10.31	6.08
	32	24	17.68	12.65	4.43	17.03	11.99	4.79	16.39	11.13	5.20	15.74	10.55	5.60	14.44	9.87	6.12
H	20	14	9.45	8.15	2.18	9.45	8.15	2.55	9.45	8.15	2.74	9.45	8.15	2.98	9.45	8.15	3.22
	23	16	11.50	9.57	2.81	11.50	9.57	3.28	11.50	9.57	3.53	11.50	9.57	3.83	11.50	9.57	4.14
	26	18	13.00	10.45	3.34	13.00	10.45	3.91	13.00	10.45	4.20	13.00	10.45	4.56	13.00	10.45	4.92
	27	19	14.55	11.16	3.91	14.55	11.16	4.57	14.55	11.16	4.91	14.55	11.16	5.34	13.97	10.87	5.76
	30	22	14.99	11.56	3.95	14.99	11.28	4.63	14.99	10.95	4.97	14.99	10.70	5.40	14.39	10.43	5.83
	32	24	15.27	11.17	3.98	15.27	10.82	4.66	15.27	10.54	5.00	15.27	10.24	5.44	14.66	9.98	5.87
M	20	14	8.96	7.73	2.07	8.96	7.73	2.42	8.96	7.73	2.60	8.96	7.73	2.83	8.96	7.73	3.05
	23	16	10.90	9.07	2.66	10.90	9.07	3.11	10.90	9.07	3.34	10.90	9.07	3.63	10.90	9.07	3.93
	26	18	12.33	9.91	3.17	12.33	9.91	3.71	12.33	9.91	3.98	12.33	9.91	4.32	12.33	9.91	4.67
	27	19	13.80	10.58	3.71	13.80	10.58	4.34	13.80	10.58	4.66	13.80	10.58	5.06	13.25	10.31	5.46
	30	22	14.21	10.96	3.75	14.21	10.70	4.39	14.21	10.39	4.71	14.21	10.15	5.12	13.65	9.89	5.53
	32	24	14.48	10.59	3.78	14.48	10.27	4.42	14.48	10.00	4.75	14.48	9.71	5.16	13.91	9.46	5.57
L	20	14	8.76	7.57	2.02	8.76	7.57	2.37	8.76	7.57	2.54	8.76	7.57	2.76	8.76	7.57	2.99
	23	16	10.67	8.88	2.60	10.67	8.88	3.05	10.67	8.88	3.27	10.67	8.88	3.56	10.67	8.88	3.84
	26	18	12.06	9.69	3.10	12.06	9.69	3.62	12.06	9.69	3.89	12.06	9.69	4.23	12.06	9.69	4.57
	27	19	13.50	10.35	3.62	13.50	10.35	4.24	13.50	10.35	4.56	13.50	10.35	4.95	12.96	10.09	5.35
	30	22	13.91	10.73	3.67	13.91	10.47	4.29	13.91	10.16	4.61	13.91	9.93	5.01	13.35	9.68	5.41
	32	24	14.17	10.36	3.69	14.17	10.04	4.32	14.17	9.78	4.64	14.17	9.50	5.04	13.60	9.26	5.45



# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	12.49	3.85	12.45	3.96	12.41	4.10	12.41	4.26	12.37	4.37
	-5	-5.6	13.93	4.10	13.89	4.21	13.85	4.34	13.85	4.47	13.81	4.56
	0	-0.7	15.36	4.31	15.32	4.40	15.28	4.52	15.28	4.64	15.24	4.72
	7	6	17.08	4.52	17.04	4.61	17.00	4.70	16.35	4.55	15.41	4.25
	10	8	17.59	4.64	17.55	4.70	17.00	4.61	16.35	4.23	15.41	3.98
H	-10	-11	12.12	3.73	12.08	3.84	12.04	3.98	12.04	4.13	12.00	4.24
	-5	-5.6	13.51	3.98	13.47	4.08	13.43	4.21	13.43	4.33	13.39	4.42
	0	-0.7	14.90	4.18	14.86	4.26	14.82	4.39	14.82	4.50	14.78	4.58
	7	6	16.57	4.39	16.53	4.47	16.49	4.56	15.86	4.41	14.95	4.13
	10	8	17.07	4.50	17.03	4.56	16.49	4.47	15.86	4.11	14.95	3.86
M	-10	-11	11.49	3.54	11.46	3.64	11.42	3.77	11.42	3.92	11.38	4.02
	-5	-5.6	12.81	3.77	12.77	3.87	12.74	3.99	12.74	4.11	12.70	4.19
	0	-0.7	14.13	3.97	14.10	4.04	14.06	4.16	14.06	4.27	14.02	4.35
	7	6	15.72	4.16	15.68	4.24	15.64	4.32	15.04	4.18	14.18	3.91
	10	8	16.19	4.27	16.15	4.33	15.64	4.24	15.04	3.89	14.18	3.66
L	-10	-11	11.24	3.46	11.21	3.57	11.17	3.69	11.17	3.83	11.13	3.94
	-5	-5.6	12.54	3.69	12.50	3.79	12.46	3.90	12.46	4.02	12.43	4.10
	0	-0.7	13.83	3.88	13.79	3.96	13.75	4.07	13.75	4.18	13.71	4.25
	7	6	15.37	4.07	15.34	4.15	15.30	4.23	14.71	4.09	13.87	3.83
	10	8	15.83	4.18	15.80	4.23	15.30	4.15	14.71	3.81	13.87	3.58

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	7.5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

### 6.1.2 Duct Type

GUD35P/A-S, GUD35PS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	2.55	2.05	0.48	2.46	2.00	0.52	2.37	1.91	0.56	2.27	1.86	0.61	2.27	1.86	0.66
	23	16	3.10	2.40	0.62	2.99	2.35	0.67	2.88	2.24	0.73	2.77	2.19	0.78	2.77	2.19	0.85
	26	18	3.51	2.62	0.74	3.38	2.57	0.80	3.26	2.45	0.86	3.13	2.39	0.93	3.13	2.39	1.02
	27	19	3.93	2.80	0.86	3.79	2.74	0.93	3.64	2.61	1.01	3.50	2.55	1.09	3.21	2.38	1.19
	30	22	4.05	2.90	0.87	3.90	2.77	0.94	3.75	2.56	1.02	3.61	2.45	1.10	3.31	2.29	1.20
	32	24	4.12	2.81	0.88	3.97	2.66	0.95	3.82	2.47	1.03	3.67	2.34	1.11	3.37	2.19	1.21
H	20	14	2.20	1.81	0.43	2.20	1.81	0.51	2.20	1.81	0.54	2.20	1.81	0.59	2.20	1.81	0.64
	23	16	2.68	2.12	0.56	2.68	2.12	0.65	2.68	2.12	0.70	2.68	2.12	0.76	2.68	2.12	0.82
	26	18	3.03	2.32	0.66	3.03	2.32	0.77	3.03	2.32	0.83	3.03	2.32	0.90	3.03	2.32	0.98
	27	19	3.40	2.47	0.77	3.40	2.47	0.91	3.40	2.47	0.97	3.40	2.47	1.06	3.26	2.41	1.14
	30	22	3.50	2.56	0.78	3.50	2.50	0.92	3.50	2.43	0.98	3.50	2.37	1.07	3.36	2.31	1.16
	32	24	3.56	2.48	0.79	3.56	2.40	0.92	3.56	2.34	0.99	3.56	2.27	1.08	3.42	2.21	1.16
M	20	14	2.09	1.72	0.41	2.09	1.72	0.48	2.09	1.72	0.52	2.09	1.72	0.56	2.09	1.72	0.60
	23	16	2.54	2.01	0.53	2.54	2.01	0.62	2.54	2.01	0.66	2.54	2.01	0.72	2.54	2.01	0.78
	26	18	2.88	2.20	0.63	2.88	2.20	0.73	2.88	2.20	0.79	2.88	2.20	0.86	2.88	2.20	0.93
	27	19	3.22	2.35	0.73	3.22	2.35	0.86	3.22	2.35	0.92	3.22	2.35	1.00	3.09	2.29	1.08
	30	22	3.32	2.43	0.74	3.32	2.37	0.87	3.32	2.30	0.93	3.32	2.25	1.01	3.18	2.19	1.10
	32	24	3.38	2.35	0.75	3.38	2.28	0.88	3.38	2.22	0.94	3.38	2.15	1.02	3.24	2.10	1.10
L	20	14	2.05	1.68	0.40	2.05	1.68	0.47	2.05	1.68	0.50	2.05	1.68	0.55	2.05	1.68	0.59
	23	16	2.49	1.97	0.52	2.49	1.97	0.60	2.49	1.97	0.65	2.49	1.97	0.70	2.49	1.97	0.76
	26	18	2.82	2.15	0.61	2.82	2.15	0.72	2.82	2.15	0.77	2.82	2.15	0.84	2.82	2.15	0.91
	27	19	3.15	2.30	0.72	3.15	2.30	0.84	3.15	2.30	0.90	3.15	2.30	0.98	3.02	2.24	1.06
	30	22	3.24	2.38	0.73	3.24	2.32	0.85	3.24	2.25	0.91	3.24	2.20	0.99	3.11	2.15	1.07
	32	24	3.31	2.30	0.73	3.31	2.23	0.86	3.31	2.17	0.92	3.31	2.11	1.00	3.17	2.05	1.08

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	2.94	0.94	2.93	0.97	2.92	1.00	2.92	1.04	2.91	1.07
	-5	-5.6	3.28	1.00	3.27	1.03	3.26	1.06	3.26	1.09	3.25	1.12
	0	-0.7	3.61	1.06	3.61	1.08	3.59	1.11	3.59	1.14	3.59	1.16
	7	6	4.02	1.11	4.01	1.13	4.00	1.15	3.85	1.11	3.63	1.04
	10	8	4.14	1.14	4.13	1.15	4.00	1.13	3.85	1.04	3.63	0.97
H	-10	-11	2.85	0.91	2.84	0.94	2.83	0.97	2.83	1.01	2.82	1.04
	-5	-5.6	3.18	0.97	3.17	1.00	3.16	1.03	3.16	1.06	3.15	1.08
	0	-0.7	3.51	1.02	3.50	1.04	3.49	1.07	3.49	1.10	3.48	1.12
	7	6	3.90	1.07	3.89	1.09	3.88	1.12	3.73	1.08	3.52	1.01
	10	8	4.02	1.10	4.01	1.12	3.88	1.09	3.73	1.00	3.52	0.94
M	-10	-11	2.70	0.87	2.70	0.89	2.69	0.92	2.69	0.96	2.68	0.98
	-5	-5.6	3.02	0.92	3.01	0.95	3.00	0.98	3.00	1.01	2.99	1.03
	0	-0.7	3.33	0.97	3.32	0.99	3.31	1.02	3.31	1.04	3.30	1.06
	7	6	3.70	1.02	3.69	1.04	3.68	1.06	3.54	1.02	3.34	0.96
	10	8	3.81	1.05	3.80	1.06	3.68	1.04	3.54	0.95	3.34	0.89
L	-10	-11	2.65	0.85	2.64	0.87	2.63	0.90	2.63	0.94	2.62	0.96
	-5	-5.6	2.95	0.90	2.94	0.93	2.93	0.96	2.93	0.98	2.92	1.00
	0	-0.7	3.25	0.95	3.24	0.97	3.24	1.00	3.24	1.02	3.23	1.04
	7	6	3.62	1.00	3.61	1.01	3.60	1.04	3.46	1.00	3.26	0.94
	10	8	3.73	1.02	3.72	1.04	3.60	1.01	3.46	0.93	3.26	0.88

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD50P/A-S,GUD50PS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	3.86	3.21	0.73	3.72	3.14	0.79	3.58	2.99	0.85	3.44	2.92	0.92	3.44	2.92	1.01
	23	16	4.70	3.77	0.94	4.53	3.68	1.01	4.36	3.51	1.10	4.19	3.43	1.19	4.19	3.43	1.29
	26	18	5.32	4.12	1.11	5.12	4.02	1.20	4.93	3.84	1.31	4.74	3.75	1.41	4.74	3.75	1.54
	27	19	5.95	4.40	1.30	5.73	4.30	1.41	5.52	4.10	1.53	5.30	4.00	1.65	4.86	3.74	1.80
	30	22	6.13	4.55	1.32	5.90	4.34	1.43	5.68	4.02	1.55	5.46	3.84	1.67	5.01	3.59	1.82
	32	24	6.25	4.40	1.33	6.02	4.17	1.44	5.79	3.87	1.56	5.56	3.67	1.68	5.10	3.43	1.84
H	20	14	3.34	2.84	0.65	3.34	2.84	0.77	3.34	2.84	0.82	3.34	2.84	0.89	3.34	2.84	0.97
	23	16	4.06	3.33	0.84	4.06	3.33	0.98	4.06	3.33	1.06	4.06	3.33	1.15	4.06	3.33	1.24
	26	18	4.59	3.63	1.00	4.59	3.63	1.17	4.59	3.63	1.26	4.59	3.63	1.37	4.59	3.63	1.48
	27	19	5.14	3.88	1.17	5.14	3.88	1.37	5.14	3.88	1.47	5.14	3.88	1.60	4.94	3.78	1.73
	30	22	5.30	4.02	1.19	5.30	3.92	1.39	5.30	3.81	1.49	5.30	3.72	1.62	5.08	3.63	1.75
	32	24	5.40	3.88	1.19	5.40	3.77	1.40	5.40	3.67	1.50	5.40	3.56	1.63	5.18	3.47	1.76
M	20	14	3.17	2.69	0.62	3.17	2.69	0.73	3.17	2.69	0.78	3.17	2.69	0.85	3.17	2.69	0.92
	23	16	3.85	3.16	0.80	3.85	3.16	0.93	3.85	3.16	1.00	3.85	3.16	1.09	3.85	3.16	1.18
	26	18	4.36	3.45	0.95	4.36	3.45	1.11	4.36	3.45	1.19	4.36	3.45	1.30	4.36	3.45	1.40
	27	19	4.88	3.68	1.11	4.88	3.68	1.30	4.88	3.68	1.40	4.88	3.68	1.52	4.68	3.59	1.64
	30	22	5.02	3.81	1.12	5.02	3.72	1.32	5.02	3.61	1.41	5.02	3.53	1.54	4.82	3.44	1.66
	32	24	5.12	3.68	1.13	5.12	3.57	1.33	5.12	3.48	1.42	5.12	3.38	1.55	4.91	3.29	1.67
L	20	14	3.10	2.63	0.61	3.10	2.63	0.71	3.10	2.63	0.76	3.10	2.63	0.83	3.10	2.63	0.90
	23	16	3.77	3.09	0.78	3.77	3.09	0.91	3.77	3.09	0.98	3.77	3.09	1.07	3.77	3.09	1.15
	26	18	4.26	3.37	0.93	4.26	3.37	1.09	4.26	3.37	1.17	4.26	3.37	1.27	4.26	3.37	1.37
	27	19	4.77	3.60	1.09	4.77	3.60	1.27	4.77	3.60	1.37	4.77	3.60	1.49	4.58	3.51	1.60
	30	22	4.91	3.73	1.10	4.91	3.64	1.29	4.91	3.53	1.38	4.91	3.45	1.50	4.72	3.37	1.62
	32	24	5.01	3.60	1.11	5.01	3.49	1.30	5.01	3.40	1.39	5.01	3.30	1.51	4.81	3.22	1.63

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	4.26	1.31	4.25	1.35	4.24	1.40	4.24	1.45	4.22	1.49
	-5	-5.6	4.75	1.40	4.74	1.43	4.72	1.48	4.72	1.52	4.71	1.55
	0	-0.7	5.24	1.47	5.23	1.50	5.21	1.54	5.21	1.58	5.20	1.61
	7	6	5.83	1.54	5.81	1.57	5.80	1.60	5.58	1.55	5.26	1.45
	10	8	6.00	1.58	5.99	1.60	5.80	1.57	5.58	1.44	5.26	1.35
H	-10	-11	4.13	1.27	4.12	1.31	4.11	1.35	4.11	1.41	4.09	1.44
	-5	-5.6	4.61	1.35	4.60	1.39	4.58	1.43	4.58	1.47	4.57	1.51
	0	-0.7	5.08	1.42	5.07	1.45	5.06	1.49	5.06	1.53	5.04	1.56
	7	6	5.65	1.49	5.64	1.52	5.63	1.55	5.41	1.50	5.10	1.40
	10	8	5.82	1.53	5.81	1.55	5.63	1.52	5.41	1.40	5.10	1.31
M	-10	-11	3.92	1.20	3.91	1.24	3.90	1.28	3.90	1.33	3.88	1.37
	-5	-5.6	4.37	1.28	4.36	1.32	4.35	1.36	4.35	1.40	4.33	1.43
	0	-0.7	4.82	1.35	4.81	1.38	4.80	1.42	4.80	1.45	4.78	1.48
	7	6	5.36	1.42	5.35	1.44	5.34	1.47	5.13	1.42	4.84	1.33
	10	8	5.52	1.45	5.51	1.47	5.34	1.44	5.13	1.33	4.84	1.24
L	-10	-11	3.84	1.18	3.82	1.21	3.81	1.26	3.81	1.30	3.80	1.34
	-5	-5.6	4.28	1.26	4.26	1.29	4.25	1.33	4.25	1.37	4.24	1.40
	0	-0.7	4.72	1.32	4.70	1.35	4.69	1.39	4.69	1.42	4.68	1.45
	7	6	5.25	1.39	5.23	1.41	5.22	1.44	5.02	1.39	4.73	1.30
	10	8	5.40	1.42	5.39	1.44	5.22	1.41	5.02	1.30	4.73	1.22

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD71P/A1-S,GUD71PS/A1-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	5.21	4.00	1.08	5.02	3.91	1.17	4.83	3.73	1.27	4.64	3.64	1.37	4.64	3.64	1.49
	23	16	6.34	4.69	1.39	6.11	4.59	1.50	5.88	4.37	1.63	5.65	4.27	1.76	5.65	4.27	1.92
	26	18	7.17	5.13	1.65	6.91	5.01	1.79	6.65	4.78	1.94	6.39	4.66	2.09	6.39	4.66	2.29
	27	19	8.03	5.47	1.93	7.73	5.35	2.09	7.44	5.10	2.27	7.15	4.98	2.45	6.56	4.66	2.68
	30	22	8.27	5.67	1.96	7.97	5.41	2.12	7.67	5.01	2.30	7.36	4.78	2.48	6.75	4.47	2.71
	32	24	8.43	5.48	1.97	8.12	5.19	2.13	7.81	4.82	2.31	7.50	4.57	2.50	6.88	4.27	2.73
H	20	14	4.50	3.53	0.97	4.50	3.53	1.14	4.50	3.53	1.22	4.50	3.53	1.33	4.50	3.53	1.43
	23	16	5.48	4.14	1.25	5.48	4.14	1.46	5.48	4.14	1.57	5.48	4.14	1.71	5.48	4.14	1.84
	26	18	6.20	4.52	1.49	6.20	4.52	1.74	6.20	4.52	1.87	6.20	4.52	2.03	6.20	4.52	2.19
	27	19	6.94	4.83	1.74	6.94	4.83	2.04	6.94	4.83	2.19	6.94	4.83	2.38	6.66	4.71	2.57
	30	22	7.14	5.01	1.76	7.14	4.88	2.06	7.14	4.74	2.21	7.14	4.63	2.41	6.86	4.52	2.60
	32	24	7.28	4.84	1.77	7.28	4.69	2.08	7.28	4.56	2.23	7.28	4.43	2.42	6.99	4.32	2.62
M	20	14	4.27	3.35	0.92	4.27	3.35	1.08	4.27	3.35	1.16	4.27	3.35	1.26	4.27	3.35	1.36
	23	16	5.20	3.93	1.19	5.20	3.93	1.39	5.20	3.93	1.49	5.20	3.93	1.62	5.20	3.93	1.75
	26	18	5.88	4.29	1.41	5.88	4.29	1.65	5.88	4.29	1.77	5.88	4.29	1.93	5.88	4.29	2.08
	27	19	6.58	4.58	1.65	6.58	4.58	1.93	6.58	4.58	2.07	6.58	4.58	2.25	6.32	4.47	2.43
	30	22	6.78	4.75	1.67	6.78	4.63	1.95	6.78	4.50	2.10	6.78	4.39	2.28	6.50	4.28	2.46
	32	24	6.90	4.59	1.68	6.90	4.45	1.97	6.90	4.33	2.11	6.90	4.20	2.30	6.63	4.10	2.48
L	20	14	4.18	3.28	0.90	4.18	3.28	1.06	4.18	3.28	1.13	4.18	3.28	1.23	4.18	3.28	1.33
	23	16	5.08	3.84	1.16	5.08	3.84	1.36	5.08	3.84	1.46	5.08	3.84	1.58	5.08	3.84	1.71
	26	18	5.75	4.20	1.38	5.75	4.20	1.61	5.75	4.20	1.73	5.75	4.20	1.88	5.75	4.20	2.04
	27	19	6.44	4.48	1.61	6.44	4.48	1.89	6.44	4.48	2.03	6.44	4.48	2.21	6.18	4.37	2.38
	30	22	6.63	4.64	1.63	6.63	4.53	1.91	6.63	4.40	2.05	6.63	4.30	2.23	6.36	4.19	2.41
	32	24	6.75	4.49	1.65	6.75	4.35	1.93	6.75	4.23	2.07	6.75	4.11	2.25	6.48	4.01	2.43

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	5.88	2.05	5.86	2.11	5.84	2.18	5.84	2.26	5.82	2.33
	-5	-5.6	6.55	2.18	6.53	2.24	6.52	2.31	6.52	2.38	6.50	2.43
	0	-0.7	7.23	2.29	7.21	2.34	7.19	2.41	7.19	2.47	7.17	2.51
	7	6	8.04	2.41	8.02	2.45	8.00	2.50	7.69	2.42	7.25	2.26
	10	8	8.28	2.47	8.26	2.50	8.00	2.45	7.69	2.25	7.25	2.11
H	-10	-11	5.70	1.98	5.68	2.04	5.67	2.12	5.67	2.20	5.65	2.26
	-5	-5.6	6.36	2.12	6.34	2.17	6.32	2.24	6.32	2.30	6.30	2.35
	0	-0.7	7.01	2.23	6.99	2.27	6.97	2.33	6.97	2.39	6.96	2.44
	7	6	7.80	2.33	7.78	2.38	7.76	2.43	7.46	2.35	7.03	2.20
	10	8	8.03	2.40	8.01	2.43	7.76	2.38	7.46	2.18	7.03	2.05
M	-10	-11	5.41	1.88	5.39	1.94	5.37	2.01	5.37	2.08	5.36	2.14
	-5	-5.6	6.03	2.01	6.01	2.06	5.99	2.12	5.99	2.19	5.98	2.23
	0	-0.7	6.65	2.11	6.63	2.15	6.61	2.21	6.61	2.27	6.60	2.31
	7	6	7.40	2.21	7.38	2.25	7.36	2.30	7.08	2.23	6.67	2.08
	10	8	7.62	2.27	7.60	2.30	7.36	2.25	7.08	2.07	6.67	1.95
L	-10	-11	5.29	1.84	5.27	1.90	5.26	1.96	5.26	2.04	5.24	2.09
	-5	-5.6	5.90	1.96	5.88	2.01	5.86	2.08	5.86	2.14	5.85	2.18
	0	-0.7	6.51	2.06	6.49	2.10	6.47	2.17	6.47	2.22	6.45	2.26
	7	6	7.24	2.17	7.22	2.21	7.20	2.25	6.92	2.18	6.53	2.04
	10	8	7.45	2.22	7.43	2.25	7.20	2.21	6.92	2.03	6.53	1.90

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD71P/A-S,GUD71PS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	5.18	3.86	0.97	4.99	3.77	1.05	4.80	3.59	1.14	4.61	3.51	1.23	4.61	3.51	1.35
	23	16	6.30	4.52	1.25	6.07	4.42	1.36	5.84	4.21	1.47	5.61	4.12	1.59	5.61	4.12	1.73
	26	18	7.12	4.94	1.49	6.86	4.83	1.61	6.61	4.60	1.75	6.34	4.50	1.89	6.34	4.50	2.06
	27	19	7.97	5.27	1.75	7.68	5.16	1.89	7.39	4.92	2.05	7.10	4.80	2.21	6.51	4.49	2.41
	30	22	8.21	5.47	1.77	7.91	5.21	1.91	7.61	4.82	2.07	7.31	4.60	2.24	6.71	4.30	2.44
	32	24	8.37	5.28	1.78	8.06	5.00	1.92	7.76	4.64	2.09	7.45	4.41	2.25	6.83	4.12	2.46
H	20	14	4.47	3.40	0.88	4.47	3.40	1.03	4.47	3.40	1.10	4.47	3.40	1.20	4.47	3.40	1.29
	23	16	5.44	3.99	1.13	5.44	3.99	1.32	5.44	3.99	1.42	5.44	3.99	1.54	5.44	3.99	1.66
	26	18	6.15	4.36	1.34	6.15	4.36	1.57	6.15	4.36	1.69	6.15	4.36	1.83	6.15	4.36	1.98
	27	19	6.89	4.66	1.57	6.89	4.66	1.84	6.89	4.66	1.97	6.89	4.66	2.14	6.61	4.54	2.32
	30	22	7.09	4.82	1.59	7.09	4.71	1.86	7.09	4.57	2.00	7.09	4.47	2.17	6.81	4.35	2.34
	32	24	7.23	4.66	1.60	7.23	4.52	1.87	7.23	4.40	2.01	7.23	4.27	2.18	6.94	4.17	2.36
M	20	14	4.24	3.23	0.83	4.24	3.23	0.97	4.24	3.23	1.04	4.24	3.23	1.14	4.24	3.23	1.23
	23	16	5.16	3.79	1.07	5.16	3.79	1.25	5.16	3.79	1.34	5.16	3.79	1.46	5.16	3.79	1.58
	26	18	5.84	4.14	1.27	5.84	4.14	1.49	5.84	4.14	1.60	5.84	4.14	1.74	5.84	4.14	1.88
	27	19	6.53	4.42	1.49	6.53	4.42	1.74	6.53	4.42	1.87	6.53	4.42	2.03	6.27	4.30	2.20
	30	22	6.73	4.58	1.51	6.73	4.47	1.76	6.73	4.33	1.89	6.73	4.23	2.06	6.46	4.13	2.22
	32	24	6.86	4.42	1.52	6.86	4.29	1.78	6.86	4.17	1.91	6.86	4.05	2.07	6.58	3.95	2.24
L	20	14	4.15	3.16	0.81	4.15	3.16	0.95	4.15	3.16	1.02	4.15	3.16	1.11	4.15	3.16	1.20
	23	16	5.05	3.70	1.05	5.05	3.70	1.22	5.05	3.70	1.31	5.05	3.70	1.43	5.05	3.70	1.54
	26	18	5.71	4.05	1.24	5.71	4.05	1.46	5.71	4.05	1.56	5.71	4.05	1.70	5.71	4.05	1.84
	27	19	6.39	4.32	1.46	6.39	4.32	1.70	6.39	4.32	1.83	6.39	4.32	1.99	6.13	4.21	2.15
	30	22	6.58	4.48	1.47	6.58	4.37	1.72	6.58	4.24	1.85	6.58	4.14	2.01	6.32	4.04	2.17
	32	24	6.71	4.32	1.48	6.71	4.19	1.74	6.71	4.08	1.87	6.71	3.96	2.03	6.44	3.86	2.19



# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	5.73	1.92	5.71	1.98	5.70	2.05	5.70	2.13	5.68	2.19
	-5	-5.6	6.39	2.05	6.37	2.10	6.35	2.17	6.35	2.23	6.33	2.28
	0	-0.7	7.05	2.16	7.03	2.20	7.01	2.26	7.01	2.32	6.99	2.36
	7	6	7.84	2.26	7.82	2.30	7.80	2.35	7.50	2.27	7.07	2.13
	10	8	8.07	2.32	8.05	2.35	7.80	2.30	7.50	2.12	7.07	1.99
H	-10	-11	5.56	1.87	5.54	1.92	5.52	1.99	5.52	2.06	5.51	2.12
	-5	-5.6	6.20	1.99	6.18	2.04	6.16	2.10	6.16	2.17	6.14	2.21
	0	-0.7	6.84	2.09	6.82	2.13	6.80	2.19	6.80	2.25	6.78	2.29
	7	6	7.60	2.19	7.59	2.23	7.57	2.28	7.28	2.21	6.86	2.06
	10	8	7.83	2.25	7.81	2.28	7.57	2.23	7.28	2.05	6.86	1.93
M	-10	-11	5.27	1.77	5.26	1.82	5.24	1.89	5.24	1.96	5.22	2.01
	-5	-5.6	5.88	1.89	5.86	1.94	5.84	1.99	5.84	2.05	5.83	2.10
	0	-0.7	6.48	1.98	6.47	2.02	6.45	2.08	6.45	2.14	6.43	2.17
	7	6	7.21	2.08	7.19	2.12	7.18	2.16	6.90	2.09	6.50	1.96
	10	8	7.43	2.14	7.41	2.16	7.18	2.12	6.90	1.95	6.50	1.83
L	-10	-11	5.16	1.73	5.14	1.78	5.13	1.85	5.13	1.92	5.11	1.97
	-5	-5.6	5.75	1.85	5.73	1.89	5.72	1.95	5.72	2.01	5.70	2.05
	0	-0.7	6.34	1.94	6.33	1.98	6.31	2.04	6.31	2.09	6.29	2.13
	7	6	7.05	2.04	7.04	2.07	7.02	2.12	6.75	2.05	6.36	1.91
	10	8	7.27	2.09	7.25	2.12	7.02	2.07	6.75	1.90	6.36	1.79

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling(an addition for heating) for indoor fan motor heat.

GUD100PH/A-S, GUD100PHS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	7.36	6.11	1.50	7.09	5.97	1.62	6.83	5.69	1.76	6.56	5.56	1.90	6.56	5.56	2.07
	23	16	8.96	7.16	1.93	8.63	7.00	2.08	8.31	6.67	2.26	7.98	6.52	2.44	7.98	6.52	2.67
	26	18	10.13	7.82	2.29	9.76	7.65	2.48	9.40	7.29	2.69	9.03	7.12	2.91	9.03	7.12	3.17
	27	19	11.34	8.35	2.69	10.92	8.16	2.90	10.51	7.78	3.15	10.10	7.60	3.40	9.26	7.11	3.71
	30	22	11.68	8.65	2.72	11.25	8.25	2.94	10.83	7.64	3.19	10.40	7.29	3.44	9.54	6.81	3.76
	32	24	11.90	8.36	2.74	11.47	7.92	2.96	11.04	7.35	3.21	10.60	6.97	3.46	9.72	6.52	3.78
H	20	14	6.36	5.39	1.35	6.36	5.39	1.58	6.36	5.39	1.69	6.36	5.39	1.84	6.36	5.39	1.99
	23	16	7.74	6.32	1.73	7.74	6.32	2.03	7.74	6.32	2.18	7.74	6.32	2.37	7.74	6.32	2.56
	26	18	8.76	6.91	2.06	8.76	6.91	2.42	8.76	6.91	2.59	8.76	6.91	2.82	8.76	6.91	3.04
	27	19	9.80	7.37	2.42	9.80	7.37	2.83	9.80	7.37	3.03	9.80	7.37	3.30	9.41	7.19	3.56
	30	22	10.09	7.64	2.44	10.09	7.45	2.86	10.09	7.24	3.07	10.09	7.07	3.34	9.69	6.89	3.60
	32	24	10.28	7.38	2.46	10.28	7.15	2.88	10.28	6.97	3.09	10.28	6.77	3.36	9.87	6.59	3.63
M	20	14	6.03	5.11	1.28	6.03	5.11	1.50	6.03	5.11	1.61	6.03	5.11	1.75	6.03	5.11	1.89
	23	16	7.34	6.00	1.65	7.34	6.00	1.92	7.34	6.00	2.07	7.34	6.00	2.25	7.34	6.00	2.43
	26	18	8.30	6.55	1.96	8.30	6.55	2.29	8.30	6.55	2.46	8.30	6.55	2.67	8.30	6.55	2.89
	27	19	9.29	6.99	2.29	9.29	6.99	2.68	9.29	6.99	2.88	9.29	6.99	3.13	8.92	6.82	3.38
	30	22	9.57	7.25	2.32	9.57	7.07	2.71	9.57	6.86	2.91	9.57	6.71	3.17	9.19	6.54	3.42
	32	24	9.75	7.00	2.33	9.75	6.78	2.73	9.75	6.61	2.93	9.75	6.42	3.19	9.36	6.25	3.44
L	20	14	5.90	5.00	1.25	5.90	5.00	1.46	5.90	5.00	1.57	5.90	5.00	1.71	5.90	5.00	1.85
	23	16	7.18	5.87	1.61	7.18	5.87	1.88	7.18	5.87	2.02	7.18	5.87	2.20	7.18	5.87	2.37
	26	18	8.12	6.41	1.92	8.12	6.41	2.24	8.12	6.41	2.41	8.12	6.41	2.62	8.12	6.41	2.82
	27	19	9.09	6.84	2.24	9.09	6.84	2.62	9.09	6.84	2.82	9.09	6.84	3.06	8.73	6.67	3.30
	30	22	9.36	7.09	2.27	9.36	6.92	2.65	9.36	6.71	2.85	9.36	6.56	3.10	8.99	6.39	3.34
	32	24	9.54	6.85	2.28	9.54	6.64	2.67	9.54	6.46	2.87	9.54	6.28	3.12	9.16	6.12	3.37

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
Turbo	-10	-11	8.08	2.70	8.06	2.78	8.03	2.88	8.03	2.99	8.00	3.07
	-5	-5.6	9.01	2.88	8.98	2.95	8.96	3.05	8.96	3.14	8.93	3.20
	0	-0.7	9.94	3.03	9.91	3.09	9.89	3.18	9.89	3.26	9.86	3.32
	7	6	11.05	3.18	11.03	3.23	11.00	3.30	10.58	3.19	9.97	2.99
	10	8	11.38	3.26	11.36	3.30	11.00	3.24	10.58	2.97	9.97	2.79
H	-10	-11	7.84	2.62	7.82	2.70	7.79	2.79	7.79	2.90	7.76	2.98
	-5	-5.6	8.74	2.79	8.72	2.87	8.69	2.95	8.69	3.04	8.67	3.11
	0	-0.7	9.64	2.94	9.62	2.99	9.59	3.08	9.59	3.16	9.56	3.22
	7	6	10.72	3.08	10.70	3.14	10.67	3.20	10.26	3.10	9.67	2.90
	10	8	11.04	3.16	11.02	3.20	10.67	3.14	10.26	2.88	9.67	2.71
M	-10	-11	7.44	2.48	7.41	2.56	7.39	2.65	7.39	2.75	7.36	2.83
	-5	-5.6	8.29	2.65	8.27	2.72	8.24	2.80	8.24	2.88	8.22	2.95
	0	-0.7	9.14	2.79	9.12	2.84	9.10	2.92	9.10	3.00	9.07	3.05
	7	6	10.17	2.92	10.15	2.98	10.12	3.04	9.73	2.94	9.17	2.75
	10	8	10.47	3.00	10.45	3.04	10.12	2.98	9.73	2.73	9.17	2.57
L	-10	-11	7.28	2.43	7.25	2.50	7.23	2.59	7.23	2.69	7.20	2.76
	-5	-5.6	8.11	2.59	8.09	2.66	8.06	2.74	8.06	2.82	8.04	2.88
	0	-0.7	8.95	2.73	8.92	2.78	8.90	2.86	8.90	2.93	8.87	2.98
	7	6	9.95	2.86	9.93	2.91	9.90	2.97	9.52	2.87	8.97	2.69
	10	8	10.25	2.93	10.22	2.97	9.90	2.91	9.52	2.67	8.97	2.51

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD125PH/A-S, GUD125PHS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	8.75	6.91	2.00	8.43	6.75	2.16	8.11	6.44	2.35	7.79	6.29	2.54	7.79	6.29	2.77
	23	16	10.65	8.10	2.58	10.26	7.92	2.78	9.87	7.55	3.02	9.48	7.37	3.26	9.48	7.37	3.56
	26	18	12.04	8.85	3.06	11.60	8.65	3.31	11.16	8.25	3.60	10.72	8.06	3.88	10.72	8.06	4.24
	27	19	13.47	9.45	3.59	12.98	9.24	3.88	12.49	8.81	4.21	12.00	8.60	4.54	11.00	8.04	4.96
	30	22	13.88	9.79	3.63	13.37	9.34	3.92	12.87	8.64	4.26	12.36	8.25	4.59	11.33	7.71	5.02
	32	24	14.14	9.46	3.65	13.62	8.96	3.95	13.11	8.32	4.29	12.59	7.89	4.63	11.55	7.38	5.05
H	20	14	7.56	6.10	1.80	7.56	6.10	2.11	7.56	6.10	2.26	7.56	6.10	2.46	7.56	6.10	2.66
	23	16	9.20	7.15	2.32	9.20	7.15	2.71	9.20	7.15	2.91	9.20	7.15	3.16	9.20	7.15	3.42
	26	18	10.40	7.81	2.76	10.40	7.81	3.22	10.40	7.81	3.46	10.40	7.81	3.76	10.40	7.81	4.07
	27	19	11.64	8.34	3.22	11.64	8.34	3.77	11.64	8.34	4.05	11.64	8.34	4.40	11.18	8.13	4.76
	30	22	11.99	8.64	3.26	11.99	8.43	3.82	11.99	8.19	4.10	11.99	8.00	4.46	11.51	7.80	4.81
	32	24	12.22	8.35	3.29	12.22	8.09	3.85	12.22	7.88	4.13	12.22	7.66	4.49	11.73	7.46	4.85
M	20	14	7.17	5.78	1.71	7.17	5.78	2.00	7.17	5.78	2.15	7.17	5.78	2.33	7.17	5.78	2.52
	23	16	8.72	6.78	2.20	8.72	6.78	2.57	8.72	6.78	2.76	8.72	6.78	3.00	8.72	6.78	3.24
	26	18	9.87	7.41	2.61	9.87	7.41	3.06	9.87	7.41	3.29	9.87	7.41	3.57	9.87	7.41	3.86
	27	19	11.04	7.91	3.06	11.04	7.91	3.58	11.04	7.91	3.84	11.04	7.91	4.18	10.60	7.71	4.51
	30	22	11.37	8.20	3.10	11.37	8.00	3.62	11.37	7.77	3.89	11.37	7.59	4.23	10.92	7.40	4.57
	32	24	11.59	7.92	3.12	11.59	7.68	3.65	11.59	7.48	3.92	11.59	7.26	4.26	11.12	7.08	4.60
L	20	14	7.01	5.66	1.67	7.01	5.66	1.96	7.01	5.66	2.10	7.01	5.66	2.28	7.01	5.66	2.46
	23	16	8.53	6.64	2.15	8.53	6.64	2.51	8.53	6.64	2.70	8.53	6.64	2.93	8.53	6.64	3.17
	26	18	9.65	7.25	2.56	9.65	7.25	2.99	9.65	7.25	3.21	9.65	7.25	3.49	9.65	7.25	3.77
	27	19	10.80	7.74	2.99	10.80	7.74	3.50	10.80	7.74	3.76	10.80	7.74	4.09	10.37	7.54	4.41
	30	22	11.12	8.02	3.03	11.12	7.83	3.54	11.12	7.60	3.81	11.12	7.42	4.14	10.68	7.24	4.47
	32	24	11.34	7.75	3.05	11.34	7.51	3.57	11.34	7.31	3.83	11.34	7.10	4.16	10.88	6.92	4.50

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
Turbo	-10	-11	10.29	3.56	10.26	3.67	10.22	3.80	10.22	3.94	10.19	4.05
	-5	-5.6	11.47	3.80	11.44	3.89	11.40	4.01	11.40	4.13	11.37	4.22
	0	-0.7	12.65	3.99	12.62	4.07	12.58	4.19	12.58	4.30	12.55	4.37
	7	6	14.07	4.19	14.04	4.26	14.00	4.35	13.46	4.21	12.69	3.94
	10	8	14.49	4.30	14.45	4.35	14.00	4.26	13.46	3.92	12.69	3.68
H	-10	-11	9.98	3.45	9.95	3.56	9.92	3.68	9.92	3.82	9.88	3.93
	-5	-5.6	11.13	3.68	11.09	3.78	11.06	3.89	11.06	4.01	11.03	4.09
	0	-0.7	12.27	3.87	12.24	3.95	12.20	4.06	12.20	4.17	12.17	4.24
	7	6	13.65	4.06	13.61	4.14	13.58	4.22	13.06	4.08	12.31	3.82
	10	8	14.05	4.17	14.02	4.22	13.58	4.14	13.06	3.80	12.31	3.57
M	-10	-11	9.47	3.28	9.44	3.37	9.41	3.49	9.41	3.62	9.37	3.72
	-5	-5.6	10.55	3.49	10.52	3.58	10.49	3.69	10.49	3.80	10.46	3.88
	0	-0.7	11.64	3.67	11.61	3.74	11.58	3.85	11.58	3.95	11.55	4.02
	7	6	12.94	3.85	12.91	3.92	12.88	4.00	12.39	3.87	11.67	3.62
	10	8	13.33	3.95	13.30	4.00	12.88	3.92	12.39	3.60	11.67	3.38
L	-10	-11	9.26	3.20	9.23	3.30	9.20	3.42	9.20	3.54	9.17	3.64
	-5	-5.6	10.32	3.42	10.29	3.51	10.26	3.61	10.26	3.72	10.23	3.80
	0	-0.7	11.39	3.59	11.36	3.66	11.32	3.77	11.32	3.87	11.29	3.93
	7	6	12.66	3.77	12.63	3.84	12.60	3.92	12.12	3.79	11.42	3.54
	10	8	13.04	3.87	13.01	3.92	12.60	3.84	12.12	3.53	11.42	3.31

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD140PH/A-S, GUD140PHS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	10.20	7.39	2.21	9.83	7.22	2.38	9.46	6.89	2.59	9.09	6.73	2.79	9.09	6.73	3.05
	23	16	12.42	8.67	2.84	11.96	8.47	3.07	11.52	8.08	3.33	11.06	7.89	3.59	11.06	7.89	3.92
	26	18	14.05	9.47	3.37	13.53	9.26	3.65	13.02	8.82	3.96	12.51	8.62	4.27	12.51	8.62	4.67
	27	19	15.72	10.11	3.95	15.14	9.88	4.27	14.57	9.42	4.64	14.00	9.20	5.00	12.84	8.60	5.46
	30	22	16.19	10.48	4.00	15.60	9.99	4.32	15.01	9.25	4.69	14.42	8.82	5.06	13.22	8.25	5.53
	32	24	16.50	10.12	4.02	15.89	9.59	4.35	15.30	8.90	4.72	14.69	8.44	5.10	13.47	7.89	5.56
H	20	14	8.82	6.52	1.98	8.82	6.52	2.32	8.82	6.52	2.49	8.82	6.52	2.71	8.82	6.52	2.93
	23	16	10.73	7.65	2.55	10.73	7.65	2.98	10.73	7.65	3.21	10.73	7.65	3.48	10.73	7.65	3.76
	26	18	12.14	8.36	3.04	12.14	8.36	3.55	12.14	8.36	3.81	12.14	8.36	4.15	12.14	8.36	4.48
	27	19	13.58	8.92	3.55	13.58	8.92	4.16	13.58	8.92	4.46	13.58	8.92	4.85	13.04	8.70	5.24
	30	22	13.99	9.25	3.59	13.99	9.02	4.21	13.99	8.76	4.52	13.99	8.56	4.91	13.43	8.34	5.30
	32	24	14.25	8.93	3.62	14.25	8.66	4.23	14.25	8.43	4.55	14.25	8.19	4.94	13.68	7.98	5.34
M	20	14	8.36	6.19	1.88	8.36	6.19	2.20	8.36	6.19	2.36	8.36	6.19	2.57	8.36	6.19	2.77
	23	16	10.18	7.26	2.42	10.18	7.26	2.83	10.18	7.26	3.04	10.18	7.26	3.30	10.18	7.26	3.57
	26	18	11.51	7.93	2.88	11.51	7.93	3.37	11.51	7.93	3.62	11.51	7.93	3.93	11.51	7.93	4.25
	27	19	12.88	8.46	3.37	12.88	8.46	3.94	12.88	8.46	4.23	12.88	8.46	4.60	12.37	8.25	4.97
	30	22	13.27	8.77	3.41	13.27	8.56	3.99	13.27	8.31	4.28	13.27	8.12	4.66	12.74	7.91	5.03
	32	24	13.52	8.47	3.43	13.52	8.21	4.02	13.52	8.00	4.31	13.52	7.77	4.69	12.98	7.57	5.06
L	20	14	8.18	6.05	1.84	8.18	6.05	2.15	8.18	6.05	2.31	8.18	6.05	2.51	8.18	6.05	2.71
	23	16	9.96	7.10	2.37	9.96	7.10	2.77	9.96	7.10	2.97	9.96	7.10	3.23	9.96	7.10	3.49
	26	18	11.26	7.76	2.82	11.26	7.76	3.30	11.26	7.76	3.54	11.26	7.76	3.85	11.26	7.76	4.15
	27	19	12.60	8.28	3.30	12.60	8.28	3.86	12.60	8.28	4.14	12.60	8.28	4.50	12.10	8.07	4.86
	30	22	12.98	8.58	3.33	12.98	8.37	3.90	12.98	8.13	4.19	12.98	7.94	4.55	12.46	7.74	4.92
	32	24	13.22	8.29	3.36	13.22	8.03	3.93	13.22	7.82	4.22	13.22	7.60	4.59	12.70	7.41	4.95

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	11.02	3.68	10.99	3.79	10.95	3.93	10.95	4.07	10.91	4.19
	-5	-5.6	12.29	3.93	12.25	4.03	12.22	4.15	12.22	4.28	12.18	4.37
	0	-0.7	13.55	4.13	13.52	4.21	13.48	4.33	13.48	4.44	13.45	4.52
	7	6	15.07	4.33	15.04	4.41	15.00	4.50	14.42	4.35	13.60	4.07
	10	8	15.52	4.45	15.49	4.50	15.00	4.41	14.42	4.05	13.60	3.81
H	-10	-11	10.69	3.57	10.66	3.68	10.62	3.81	10.62	3.95	10.59	4.06
	-5	-5.6	11.92	3.81	11.88	3.91	11.85	4.03	11.85	4.15	11.82	4.23
	0	-0.7	13.15	4.01	13.11	4.08	13.08	4.20	13.08	4.31	13.04	4.39
	7	6	14.62	4.20	14.59	4.28	14.55	4.37	13.99	4.22	13.19	3.95
	10	8	15.06	4.31	15.02	4.37	14.55	4.28	13.99	3.93	13.19	3.69
M	-10	-11	10.14	3.39	10.11	3.49	10.08	3.61	10.08	3.75	10.04	3.85
	-5	-5.6	11.31	3.61	11.27	3.71	11.24	3.82	11.24	3.93	11.21	4.02
	0	-0.7	12.47	3.80	12.44	3.87	12.40	3.99	12.40	4.09	12.37	4.16
	7	6	13.87	3.99	13.84	4.06	13.80	4.14	13.27	4.01	12.51	3.75
	10	8	14.28	4.09	14.25	4.14	13.80	4.06	13.27	3.73	12.51	3.50
L	-10	-11	9.92	3.31	9.89	3.41	9.86	3.54	9.86	3.67	9.82	3.77
	-5	-5.6	11.06	3.54	11.03	3.63	11.00	3.74	11.00	3.85	10.96	3.93
	0	-0.7	12.20	3.72	12.17	3.79	12.13	3.90	12.13	4.00	12.10	4.07
	7	6	13.57	3.90	13.53	3.97	13.50	4.05	12.98	3.92	12.24	3.67
	10	8	13.97	4.00	13.94	4.05	13.50	3.97	12.98	3.65	12.24	3.43

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	7.5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD160PH/A-S, GUD160PHS/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	11.37	9.24	2.47	10.95	9.03	2.67	10.54	8.61	2.90	10.13	8.41	3.13	10.13	8.41	3.42
	23	16	13.84	10.84	3.18	13.33	10.59	3.43	12.83	10.10	3.73	12.33	9.86	4.02	12.33	9.86	4.39
	26	18	15.65	11.84	3.78	15.08	11.57	4.09	14.51	11.03	4.44	13.94	10.77	4.79	13.94	10.77	5.23
	27	19	17.51	12.64	4.42	16.87	12.35	4.78	16.24	11.78	5.19	15.60	11.50	5.60	14.31	10.75	6.12
	30	22	18.04	13.10	4.48	17.38	12.49	4.84	16.73	11.56	5.25	16.07	11.03	5.67	14.73	10.31	6.19
	32	24	18.38	12.65	4.51	17.71	11.99	4.87	17.04	11.13	5.29	16.37	10.55	5.71	15.01	9.87	6.23
H	20	14	9.82	8.15	2.22	9.82	8.15	2.60	9.82	8.15	2.79	9.82	8.15	3.03	9.82	8.15	3.28
	23	16	11.96	9.57	2.86	11.96	9.57	3.34	11.96	9.57	3.59	11.96	9.57	3.90	11.96	9.57	4.21
	26	18	13.52	10.45	3.40	13.52	10.45	3.98	13.52	10.45	4.27	13.52	10.45	4.64	13.52	10.45	5.01
	27	19	15.13	11.16	3.98	15.13	11.16	4.65	15.13	11.16	5.00	15.13	11.16	5.43	14.53	10.87	5.87
	30	22	15.59	11.56	4.03	15.59	11.28	4.71	15.59	10.95	5.06	15.59	10.70	5.50	14.96	10.43	5.94
	32	24	15.88	11.17	4.05	15.88	10.82	4.74	15.88	10.54	5.09	15.88	10.24	5.54	15.25	9.98	5.98
M	20	14	9.32	7.73	2.11	9.32	7.73	2.47	9.32	7.73	2.65	9.32	7.73	2.88	9.32	7.73	3.11
	23	16	11.34	9.07	2.71	11.34	9.07	3.17	11.34	9.07	3.41	11.34	9.07	3.70	11.34	9.07	4.00
	26	18	12.83	9.91	3.22	12.83	9.91	3.77	12.83	9.91	4.05	12.83	9.91	4.40	12.83	9.91	4.76
	27	19	14.35	10.58	3.77	14.35	10.58	4.41	14.35	10.58	4.74	14.35	10.58	5.15	13.78	10.31	5.56
	30	22	14.78	10.96	3.82	14.78	10.70	4.47	14.78	10.39	4.80	14.78	10.15	5.21	14.19	9.89	5.63
	32	24	15.06	10.59	3.84	15.06	10.27	4.50	15.06	10.00	4.83	15.06	9.71	5.25	14.46	9.46	5.67
L	20	14	9.12	7.57	2.06	9.12	7.57	2.41	9.12	7.57	2.59	9.12	7.57	2.81	9.12	7.57	3.04
	23	16	11.09	8.88	2.65	11.09	8.88	3.10	11.09	8.88	3.33	11.09	8.88	3.62	11.09	8.88	3.91
	26	18	12.55	9.69	3.15	12.55	9.69	3.69	12.55	9.69	3.96	12.55	9.69	4.31	12.55	9.69	4.65
	27	19	14.04	10.35	3.69	14.04	10.35	4.32	14.04	10.35	4.64	14.04	10.35	5.04	13.48	10.09	5.44
	30	22	14.46	10.73	3.74	14.46	10.47	4.37	14.46	10.16	4.69	14.46	9.93	5.10	13.88	9.68	5.51
	32	24	14.74	10.36	3.76	14.74	10.04	4.40	14.74	9.78	4.73	14.74	9.50	5.14	14.15	9.26	5.55



# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
Turbo	-10	-11	12.49	3.76	12.45	3.88	12.41	4.02	12.41	4.17	12.37	4.28
	-5	-5.6	13.93	4.02	13.89	4.12	13.85	4.24	13.85	4.37	13.81	4.46
	0	-0.7	15.36	4.22	15.32	4.30	15.28	4.43	15.28	4.54	15.24	4.62
	7	6	17.08	4.43	17.04	4.51	17.00	4.60	16.35	4.45	15.41	4.16
	10	8	17.59	4.54	17.55	4.60	17.00	4.51	16.35	4.14	15.41	3.89
H	-10	-11	12.12	3.65	12.08	3.76	12.04	3.89	12.04	4.04	12.00	4.15
	-5	-5.6	13.51	3.89	13.47	3.99	13.43	4.12	13.43	4.24	13.39	4.33
	0	-0.7	14.90	4.09	14.86	4.17	14.82	4.30	14.82	4.41	14.78	4.48
	7	6	16.57	4.30	16.53	4.37	16.49	4.46	15.86	4.32	14.95	4.04
	10	8	17.07	4.41	17.03	4.46	16.49	4.37	15.86	4.02	14.95	3.77
M	-10	-11	11.49	3.46	11.46	3.57	11.42	3.69	11.42	3.83	11.38	3.94
	-5	-5.6	12.81	3.69	12.77	3.79	12.74	3.91	12.74	4.02	12.70	4.11
	0	-0.7	14.13	3.88	14.10	3.96	14.06	4.07	14.06	4.18	14.02	4.25
	7	6	15.72	4.07	15.68	4.15	15.64	4.23	15.04	4.09	14.18	3.83
	10	8	16.19	4.18	16.15	4.23	15.64	4.15	15.04	3.81	14.18	3.58
L	-10	-11	11.24	3.39	11.21	3.49	11.17	3.61	11.17	3.75	11.13	3.85
	-5	-5.6	12.54	3.61	12.50	3.71	12.46	3.82	12.46	3.93	12.43	4.02
	0	-0.7	13.83	3.80	13.79	3.87	13.75	3.99	13.75	4.09	13.71	4.16
	7	6	15.37	3.99	15.34	4.06	15.30	4.14	14.71	4.01	13.87	3.75
	10	8	15.83	4.09	15.80	4.14	15.30	4.06	14.71	3.73	13.87	3.50

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	7.5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

### 6.1.3 Floor Ceiling Type

GUD35ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	2.55	2.25	0.48	2.46	2.20	0.52	2.37	2.10	0.56	2.27	2.05	0.61	2.27	2.05	0.66
	23	16	3.10	2.64	0.62	2.99	2.58	0.67	2.88	2.46	0.73	2.77	2.40	0.78	2.77	2.40	0.85
	26	18	3.51	2.88	0.74	3.38	2.82	0.80	3.26	2.69	0.86	3.13	2.62	0.93	3.13	2.62	1.02
	27	19	3.93	3.08	0.86	3.79	3.01	0.93	3.64	2.87	1.01	3.50	2.80	1.09	3.21	2.62	1.19
	30	22	4.05	3.19	0.87	3.90	3.04	0.94	3.75	2.81	1.02	3.61	2.69	1.10	3.31	2.51	1.20
	32	24	4.12	3.08	0.88	3.97	2.92	0.95	3.82	2.71	1.03	3.67	2.57	1.11	3.37	2.40	1.21
H	20	14	2.20	1.99	0.43	2.20	1.99	0.51	2.20	1.99	0.54	2.20	1.99	0.59	2.20	1.99	0.64
	23	16	2.68	2.33	0.56	2.68	2.33	0.65	2.68	2.33	0.70	2.68	2.33	0.76	2.68	2.33	0.82
	26	18	3.03	2.54	0.66	3.03	2.54	0.77	3.03	2.54	0.83	3.03	2.54	0.90	3.03	2.54	0.98
	27	19	3.40	2.72	0.77	3.40	2.72	0.91	3.40	2.72	0.97	3.40	2.72	1.06	3.26	2.65	1.14
	30	22	3.50	2.81	0.78	3.50	2.75	0.92	3.50	2.67	0.98	3.50	2.60	1.07	3.36	2.54	1.16
	32	24	3.56	2.72	0.79	3.56	2.64	0.92	3.56	2.57	0.99	3.56	2.49	1.08	3.42	2.43	1.16
M	20	14	2.09	1.88	0.41	2.09	1.88	0.48	2.09	1.88	0.52	2.09	1.88	0.56	2.09	1.88	0.60
	23	16	2.54	2.21	0.53	2.54	2.21	0.62	2.54	2.21	0.66	2.54	2.21	0.72	2.54	2.21	0.78
	26	18	2.88	2.41	0.63	2.88	2.41	0.73	2.88	2.41	0.79	2.88	2.41	0.86	2.88	2.41	0.93
	27	19	3.22	2.58	0.73	3.22	2.58	0.86	3.22	2.58	0.92	3.22	2.58	1.00	3.09	2.51	1.08
	30	22	3.32	2.67	0.74	3.32	2.60	0.87	3.32	2.53	0.93	3.32	2.47	1.01	3.18	2.41	1.10
	32	24	3.38	2.58	0.75	3.38	2.50	0.88	3.38	2.43	0.94	3.38	2.36	1.02	3.24	2.30	1.10
L	20	14	2.05	1.84	0.40	2.05	1.84	0.47	2.05	1.84	0.50	2.05	1.84	0.55	2.05	1.84	0.59
	23	16	2.49	2.16	0.52	2.49	2.16	0.60	2.49	2.16	0.65	2.49	2.16	0.70	2.49	2.16	0.76
	26	18	2.82	2.36	0.61	2.82	2.36	0.72	2.82	2.36	0.77	2.82	2.36	0.84	2.82	2.36	0.91
	27	19	3.15	2.52	0.72	3.15	2.52	0.84	3.15	2.52	0.90	3.15	2.52	0.98	3.02	2.46	1.06
	30	22	3.24	2.61	0.73	3.24	2.55	0.85	3.24	2.47	0.91	3.24	2.42	0.99	3.11	2.36	1.07
	32	24	3.31	2.52	0.73	3.31	2.45	0.86	3.31	2.38	0.92	3.31	2.31	1.00	3.17	2.25	1.08

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	2.94	0.94	2.93	0.97	2.92	1.00	2.92	1.04	2.91	1.07
	-5	-5.6	3.28	1.00	3.27	1.03	3.26	1.06	3.26	1.09	3.25	1.12
	0	-0.7	3.61	1.06	3.61	1.08	3.59	1.11	3.59	1.14	3.59	1.16
	7	6	4.02	1.11	4.01	1.13	4.00	1.15	3.85	1.11	3.63	1.04
	10	8	4.14	1.14	4.13	1.15	4.00	1.13	3.85	1.04	3.63	0.97
H	-10	-11	2.85	0.91	2.84	0.94	2.83	0.97	2.83	1.01	2.82	1.04
	-5	-5.6	3.18	0.97	3.17	1.00	3.16	1.03	3.16	1.06	3.15	1.08
	0	-0.7	3.51	1.02	3.50	1.04	3.49	1.07	3.49	1.10	3.48	1.12
	7	6	3.90	1.07	3.89	1.09	3.88	1.12	3.73	1.08	3.52	1.01
	10	8	4.02	1.10	4.01	1.12	3.88	1.09	3.73	1.00	3.52	0.94
M	-10	-11	2.70	0.87	2.70	0.89	2.69	0.92	2.69	0.96	2.68	0.98
	-5	-5.6	3.02	0.92	3.01	0.95	3.00	0.98	3.00	1.01	2.99	1.03
	0	-0.7	3.33	0.97	3.32	0.99	3.31	1.02	3.31	1.04	3.30	1.06
	7	6	3.70	1.02	3.69	1.04	3.68	1.06	3.54	1.02	3.34	0.96
	10	8	3.81	1.05	3.80	1.06	3.68	1.04	3.54	0.95	3.34	0.89
L	-10	-11	2.65	0.85	2.64	0.87	2.63	0.90	2.63	0.94	2.62	0.96
	-5	-5.6	2.95	0.90	2.94	0.93	2.93	0.96	2.93	0.98	2.92	1.00
	0	-0.7	3.25	0.95	3.24	0.97	3.24	1.00	3.24	1.02	3.23	1.04
	7	6	3.62	1.00	3.61	1.01	3.60	1.04	3.46	1.00	3.26	0.94
	10	8	3.73	1.02	3.72	1.04	3.60	1.01	3.46	0.93	3.26	0.88

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD50ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	3.79	3.62	0.71	3.65	3.53	0.77	3.51	3.37	0.84	3.38	3.29	0.90	3.38	3.29	0.99
	23	16	4.61	4.24	0.92	4.44	4.15	0.99	4.28	3.95	1.08	4.11	3.86	1.16	4.11	3.86	1.27
	26	18	5.22	4.63	1.09	5.03	4.53	1.18	4.84	4.32	1.28	4.65	4.22	1.38	4.65	4.22	1.51
	27	19	5.84	4.94	1.28	5.62	4.83	1.38	5.41	4.61	1.50	5.20	4.50	1.62	4.77	4.21	1.77
	30	22	6.01	5.12	1.29	5.79	4.89	1.40	5.58	4.52	1.52	5.36	4.32	1.64	4.91	4.03	1.79
	32	24	6.13	4.95	1.30	5.90	4.69	1.41	5.68	4.35	1.53	5.46	4.13	1.65	5.00	3.86	1.80
H	20	14	3.27	3.19	0.64	3.27	3.19	0.75	3.27	3.19	0.81	3.27	3.19	0.88	3.27	3.19	0.95
	23	16	3.99	3.74	0.83	3.99	3.74	0.97	3.99	3.74	1.04	3.99	3.74	1.13	3.99	3.74	1.22
	26	18	4.51	4.09	0.98	4.51	4.09	1.15	4.51	4.09	1.24	4.51	4.09	1.34	4.51	4.09	1.45
	27	19	5.04	4.37	1.15	5.04	4.37	1.35	5.04	4.37	1.45	5.04	4.37	1.57	4.84	4.25	1.70
	30	22	5.20	4.52	1.16	5.20	4.41	1.36	5.20	4.28	1.46	5.20	4.19	1.59	4.99	4.08	1.72
	32	24	5.29	4.37	1.17	5.29	4.24	1.37	5.29	4.12	1.47	5.29	4.01	1.60	5.08	3.90	1.73
M	20	14	3.11	3.03	0.61	3.11	3.03	0.71	3.11	3.03	0.77	3.11	3.03	0.83	3.11	3.03	0.90
	23	16	3.78	3.55	0.78	3.78	3.55	0.92	3.78	3.55	0.99	3.78	3.55	1.07	3.78	3.55	1.16
	26	18	4.28	3.88	0.93	4.28	3.88	1.09	4.28	3.88	1.17	4.28	3.88	1.27	4.28	3.88	1.38
	27	19	4.78	4.14	1.09	4.78	4.14	1.28	4.78	4.14	1.37	4.78	4.14	1.49	4.59	4.04	1.61
	30	22	4.93	4.29	1.10	4.93	4.19	1.29	4.93	4.06	1.39	4.93	3.97	1.51	4.73	3.87	1.63
	32	24	5.02	4.14	1.11	5.02	4.02	1.30	5.02	3.91	1.40	5.02	3.80	1.52	4.82	3.70	1.64
L	20	14	3.04	2.96	0.60	3.04	2.96	0.70	3.04	2.96	0.75	3.04	2.96	0.81	3.04	2.96	0.88
	23	16	3.70	3.47	0.77	3.70	3.47	0.90	3.70	3.47	0.96	3.70	3.47	1.05	3.70	3.47	1.13
	26	18	4.18	3.79	0.91	4.18	3.79	1.07	4.18	3.79	1.15	4.18	3.79	1.25	4.18	3.79	1.35
	27	19	4.68	4.05	1.07	4.68	4.05	1.25	4.68	4.05	1.34	4.68	4.05	1.46	4.49	3.95	1.57
	30	22	4.82	4.20	1.08	4.82	4.10	1.26	4.82	3.98	1.36	4.82	3.88	1.48	4.63	3.79	1.59
	32	24	4.91	4.05	1.09	4.91	3.93	1.27	4.91	3.83	1.37	4.91	3.72	1.49	4.72	3.62	1.60

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	4.26	1.39	4.25	1.43	4.24	1.48	4.24	1.54	4.22	1.58
	-5	-5.6	4.75	1.48	4.74	1.52	4.72	1.57	4.72	1.62	4.71	1.65
	0	-0.7	5.24	1.56	5.23	1.59	5.21	1.64	5.21	1.68	5.20	1.71
	7	6	5.83	1.64	5.81	1.67	5.80	1.70	5.58	1.64	5.26	1.54
	10	8	6.00	1.68	5.99	1.70	5.80	1.67	5.58	1.53	5.26	1.44
H	-10	-11	4.13	1.35	4.12	1.39	4.11	1.44	4.11	1.49	4.09	1.53
	-5	-5.6	4.61	1.44	4.60	1.48	4.58	1.52	4.58	1.57	4.57	1.60
	0	-0.7	5.08	1.51	5.07	1.54	5.06	1.59	5.06	1.63	5.04	1.66
	7	6	5.65	1.59	5.64	1.62	5.63	1.65	5.41	1.60	5.10	1.49
	10	8	5.82	1.63	5.81	1.65	5.63	1.62	5.41	1.49	5.10	1.39
M	-10	-11	3.92	1.28	3.91	1.32	3.90	1.37	3.90	1.42	3.88	1.46
	-5	-5.6	4.37	1.37	4.36	1.40	4.35	1.44	4.35	1.49	4.33	1.52
	0	-0.7	4.82	1.44	4.81	1.46	4.80	1.51	4.80	1.54	4.78	1.57
	7	6	5.36	1.51	5.35	1.53	5.34	1.56	5.13	1.51	4.84	1.42
	10	8	5.52	1.55	5.51	1.56	5.34	1.53	5.13	1.41	4.84	1.32
L	-10	-11	3.84	1.25	3.82	1.29	3.81	1.34	3.81	1.39	3.80	1.42
	-5	-5.6	4.28	1.34	4.26	1.37	4.25	1.41	4.25	1.45	4.24	1.48
	0	-0.7	4.72	1.40	4.70	1.43	4.69	1.47	4.69	1.51	4.68	1.54
	7	6	5.25	1.47	5.23	1.50	5.22	1.53	5.02	1.48	4.73	1.39
	10	8	5.40	1.51	5.39	1.53	5.22	1.50	5.02	1.38	4.73	1.29

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD71ZD/A1-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	5.21	4.15	1.06	5.02	4.05	1.14	4.83	3.86	1.24	4.64	3.77	1.34	4.64	3.77	1.46
	23	16	6.34	4.86	1.36	6.11	4.75	1.47	5.88	4.53	1.60	5.65	4.42	1.72	5.65	4.42	1.88
	26	18	7.17	5.31	1.62	6.91	5.19	1.75	6.65	4.95	1.90	6.39	4.83	2.05	6.39	4.83	2.24
	27	19	8.03	5.67	1.90	7.73	5.54	2.05	7.44	5.28	2.22	7.15	5.16	2.40	6.56	4.82	2.62
	30	22	8.27	5.88	1.92	7.97	5.60	2.07	7.67	5.19	2.25	7.36	4.95	2.43	6.75	4.63	2.65
	32	24	8.43	5.68	1.93	8.12	5.38	2.09	7.81	4.99	2.27	7.50	4.74	2.45	6.88	4.43	2.67
H	20	14	4.50	3.66	0.95	4.50	3.66	1.11	4.50	3.66	1.20	4.50	3.66	1.30	4.50	3.66	1.40
	23	16	5.48	4.29	1.22	5.48	4.29	1.43	5.48	4.29	1.54	5.48	4.29	1.67	5.48	4.29	1.81
	26	18	6.20	4.69	1.46	6.20	4.69	1.70	6.20	4.69	1.83	6.20	4.69	1.99	6.20	4.69	2.15
	27	19	6.94	5.01	1.70	6.94	5.01	1.99	6.94	5.01	2.14	6.94	5.01	2.33	6.66	4.88	2.51
	30	22	7.14	5.19	1.73	7.14	5.06	2.02	7.14	4.91	2.17	7.14	4.80	2.36	6.86	4.68	2.54
	32	24	7.28	5.01	1.74	7.28	4.86	2.03	7.28	4.73	2.18	7.28	4.59	2.37	6.99	4.48	2.56
M	20	14	4.27	3.47	0.90	4.27	3.47	1.06	4.27	3.47	1.13	4.27	3.47	1.23	4.27	3.47	1.33
	23	16	5.20	4.07	1.16	5.20	4.07	1.36	5.20	4.07	1.46	5.20	4.07	1.59	5.20	4.07	1.71
	26	18	5.88	4.45	1.38	5.88	4.45	1.62	5.88	4.45	1.74	5.88	4.45	1.89	5.88	4.45	2.04
	27	19	6.58	4.75	1.62	6.58	4.75	1.89	6.58	4.75	2.03	6.58	4.75	2.21	6.32	4.63	2.38
	30	22	6.78	4.92	1.64	6.78	4.80	1.91	6.78	4.66	2.06	6.78	4.55	2.23	6.50	4.44	2.41
	32	24	6.90	4.75	1.65	6.90	4.61	1.93	6.90	4.49	2.07	6.90	4.36	2.25	6.63	4.25	2.43
L	20	14	4.18	3.40	0.88	4.18	3.40	1.03	4.18	3.40	1.11	4.18	3.40	1.21	4.18	3.40	1.30
	23	16	5.08	3.98	1.14	5.08	3.98	1.33	5.08	3.98	1.43	5.08	3.98	1.55	5.08	3.98	1.68
	26	18	5.75	4.35	1.35	5.75	4.35	1.58	5.75	4.35	1.70	5.75	4.35	1.85	5.75	4.35	1.99
	27	19	6.44	4.64	1.58	6.44	4.64	1.85	6.44	4.64	1.99	6.44	4.64	2.16	6.18	4.53	2.33
	30	22	6.63	4.81	1.60	6.63	4.70	1.87	6.63	4.56	2.01	6.63	4.45	2.19	6.36	4.34	2.36
	32	24	6.75	4.65	1.61	6.75	4.51	1.89	6.75	4.39	2.03	6.75	4.26	2.20	6.48	4.15	2.38

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
Turbo	-10	-11	5.88	2.09	5.86	2.15	5.84	2.23	5.84	2.31	5.82	2.37
	-5	-5.6	6.55	2.23	6.53	2.28	6.52	2.35	6.52	2.42	6.50	2.47
	0	-0.7	7.23	2.34	7.21	2.38	7.19	2.45	7.19	2.52	7.17	2.56
	7	6	8.04	2.45	8.02	2.50	8.00	2.55	7.69	2.47	7.25	2.31
	10	8	8.28	2.52	8.26	2.55	8.00	2.50	7.69	2.30	7.25	2.16
H	-10	-11	5.70	2.02	5.68	2.09	5.67	2.16	5.67	2.24	5.65	2.30
	-5	-5.6	6.36	2.16	6.34	2.21	6.32	2.28	6.32	2.35	6.30	2.40
	0	-0.7	7.01	2.27	6.99	2.31	6.97	2.38	6.97	2.44	6.96	2.49
	7	6	7.80	2.38	7.78	2.42	7.76	2.47	7.46	2.39	7.03	2.24
	10	8	8.03	2.44	8.01	2.47	7.76	2.43	7.46	2.23	7.03	2.09
M	-10	-11	5.41	1.92	5.39	1.98	5.37	2.05	5.37	2.12	5.36	2.18
	-5	-5.6	6.03	2.05	6.01	2.10	5.99	2.16	5.99	2.23	5.98	2.28
	0	-0.7	6.65	2.15	6.63	2.19	6.61	2.26	6.61	2.32	6.60	2.36
	7	6	7.40	2.26	7.38	2.30	7.36	2.35	7.08	2.27	6.67	2.12
	10	8	7.62	2.32	7.60	2.35	7.36	2.30	7.08	2.11	6.67	1.98
L	-10	-11	5.29	1.88	5.27	1.93	5.26	2.00	5.26	2.08	5.24	2.14
	-5	-5.6	5.90	2.00	5.88	2.05	5.86	2.12	5.86	2.18	5.85	2.23
	0	-0.7	6.51	2.11	6.49	2.15	6.47	2.21	6.47	2.27	6.45	2.31
	7	6	7.24	2.21	7.22	2.25	7.20	2.30	6.92	2.22	6.53	2.08
	10	8	7.45	2.27	7.43	2.30	7.20	2.25	6.92	2.07	6.53	1.94

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling(an addition for heating) for indoor fan motor heat.

GUD71ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	5.18	4.58	0.97	4.99	4.48	1.05	4.80	4.27	1.14	4.61	4.17	1.23	4.61	4.17	1.35
	23	16	6.30	5.37	1.25	6.07	5.25	1.36	5.84	5.01	1.47	5.61	4.89	1.59	5.61	4.89	1.73
	26	18	7.12	5.87	1.49	6.86	5.74	1.61	6.61	5.47	1.75	6.34	5.34	1.89	6.34	5.34	2.06
	27	19	7.97	6.26	1.75	7.68	6.12	1.89	7.39	5.84	2.05	7.10	5.70	2.21	6.51	5.33	2.41
	30	22	8.21	6.49	1.77	7.91	6.19	1.91	7.61	5.73	2.07	7.31	5.47	2.24	6.71	5.11	2.44
	32	24	8.37	6.27	1.78	8.06	5.94	1.92	7.76	5.51	2.09	7.45	5.23	2.25	6.83	4.89	2.46
H	20	14	4.47	4.04	0.88	4.47	4.04	1.03	4.47	4.04	1.10	4.47	4.04	1.20	4.47	4.04	1.29
	23	16	5.44	4.74	1.13	5.44	4.74	1.32	5.44	4.74	1.42	5.44	4.74	1.54	5.44	4.74	1.66
	26	18	6.15	5.18	1.34	6.15	5.18	1.57	6.15	5.18	1.69	6.15	5.18	1.83	6.15	5.18	1.98
	27	19	6.89	5.53	1.57	6.89	5.53	1.84	6.89	5.53	1.97	6.89	5.53	2.14	6.61	5.39	2.32
	30	22	7.09	5.73	1.59	7.09	5.59	1.86	7.09	5.43	2.00	7.09	5.30	2.17	6.81	5.17	2.34
	32	24	7.23	5.53	1.60	7.23	5.37	1.87	7.23	5.22	2.01	7.23	5.07	2.18	6.94	4.95	2.36
M	20	14	4.24	3.83	0.83	4.24	3.83	0.97	4.24	3.83	1.04	4.24	3.83	1.14	4.24	3.83	1.23
	23	16	5.16	4.50	1.07	5.16	4.50	1.25	5.16	4.50	1.34	5.16	4.50	1.46	5.16	4.50	1.58
	26	18	5.84	4.91	1.27	5.84	4.91	1.49	5.84	4.91	1.60	5.84	4.91	1.74	5.84	4.91	1.88
	27	19	6.53	5.24	1.49	6.53	5.24	1.74	6.53	5.24	1.87	6.53	5.24	2.03	6.27	5.11	2.20
	30	22	6.73	5.43	1.51	6.73	5.30	1.76	6.73	5.15	1.89	6.73	5.03	2.06	6.46	4.90	2.22
	32	24	6.86	5.25	1.52	6.86	5.09	1.78	6.86	4.95	1.91	6.86	4.81	2.07	6.58	4.69	2.24
L	20	14	4.15	3.75	0.81	4.15	3.75	0.95	4.15	3.75	1.02	4.15	3.75	1.11	4.15	3.75	1.20
	23	16	5.05	4.40	1.05	5.05	4.40	1.22	5.05	4.40	1.31	5.05	4.40	1.43	5.05	4.40	1.54
	26	18	5.71	4.81	1.24	5.71	4.81	1.46	5.71	4.81	1.56	5.71	4.81	1.70	5.71	4.81	1.84
	27	19	6.39	5.13	1.46	6.39	5.13	1.70	6.39	5.13	1.83	6.39	5.13	1.99	6.13	5.00	2.15
	30	22	6.58	5.32	1.47	6.58	5.19	1.72	6.58	5.04	1.85	6.58	4.92	2.01	6.32	4.80	2.17
	32	24	6.71	5.14	1.48	6.71	4.98	1.74	6.71	4.85	1.87	6.71	4.71	2.03	6.44	4.59	2.19



# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	4.26	2.13	4.25	2.19	4.24	2.27	4.24	2.35	4.22	2.42
	-5	-5.6	4.75	2.27	4.74	2.33	4.72	2.40	4.72	2.47	4.71	2.52
	0	-0.7	5.24	2.39	5.23	2.43	5.21	2.50	5.21	2.57	5.20	2.61
	7	6	5.83	2.50	5.81	2.55	5.80	2.60	5.58	2.52	5.26	2.35
	10	8	6.00	2.57	5.99	2.60	5.80	2.55	5.58	2.34	5.26	2.20
H	-10	-11	4.13	2.06	4.12	2.13	4.11	2.20	4.11	2.28	4.09	2.35
	-5	-5.6	4.61	2.20	4.60	2.26	4.58	2.33	4.58	2.40	4.57	2.45
	0	-0.7	5.08	2.31	5.07	2.36	5.06	2.43	5.06	2.49	5.04	2.53
	7	6	5.65	2.43	5.64	2.47	5.63	2.52	5.41	2.44	5.10	2.28
	10	8	5.82	2.49	5.81	2.52	5.63	2.47	5.41	2.27	5.10	2.13
M	-10	-11	3.92	1.96	3.91	2.02	3.90	2.09	3.90	2.17	3.88	2.23
	-5	-5.6	4.37	2.09	4.36	2.14	4.35	2.21	4.35	2.27	4.33	2.32
	0	-0.7	4.82	2.20	4.81	2.24	4.80	2.30	4.80	2.36	4.78	2.40
	7	6	5.36	2.30	5.35	2.34	5.34	2.39	5.13	2.31	4.84	2.17
	10	8	5.52	2.36	5.51	2.39	5.34	2.35	5.13	2.15	4.84	2.02
L	-10	-11	3.84	1.92	3.82	1.97	3.81	2.04	3.81	2.12	3.80	2.18
	-5	-5.6	4.28	2.04	4.26	2.10	4.25	2.16	4.25	2.22	4.24	2.27
	0	-0.7	4.72	2.15	4.70	2.19	4.69	2.25	4.69	2.31	4.68	2.35
	7	6	5.25	2.25	5.23	2.29	5.22	2.34	5.02	2.26	4.73	2.12
	10	8	5.40	2.31	5.39	2.34	5.22	2.29	5.02	2.11	4.73	1.98

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD100ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	7.29	5.78	1.50	7.02	5.65	1.62	6.76	5.39	1.76	6.49	5.26	1.90	6.49	5.26	2.07
	23	16	8.87	6.78	1.93	8.55	6.63	2.08	8.23	6.32	2.26	7.90	6.17	2.44	7.90	6.17	2.67
	26	18	10.03	7.41	2.29	9.67	7.24	2.48	9.30	6.91	2.69	8.94	6.74	2.91	8.94	6.74	3.17
	27	19	11.23	7.91	2.69	10.82	7.73	2.90	10.41	7.37	3.15	10.00	7.20	3.40	9.17	6.73	3.71
	30	22	11.56	8.20	2.72	11.14	7.82	2.94	10.72	7.24	3.19	10.30	6.90	3.44	9.45	6.46	3.76
	32	24	11.78	7.92	2.74	11.35	7.50	2.96	10.93	6.97	3.21	10.50	6.61	3.46	9.62	6.18	3.78
H	20	14	6.30	5.11	1.35	6.30	5.11	1.58	6.30	5.11	1.69	6.30	5.11	1.84	6.30	5.11	1.99
	23	16	7.66	5.99	1.73	7.66	5.99	2.03	7.66	5.99	2.18	7.66	5.99	2.37	7.66	5.99	2.56
	26	18	8.67	6.54	2.06	8.67	6.54	2.42	8.67	6.54	2.59	8.67	6.54	2.82	8.67	6.54	3.04
	27	19	9.70	6.98	2.42	9.70	6.98	2.83	9.70	6.98	3.03	9.70	6.98	3.30	9.31	6.81	3.56
	30	22	9.99	7.24	2.44	9.99	7.06	2.86	9.99	6.86	3.07	9.99	6.70	3.34	9.59	6.53	3.60
	32	24	10.18	6.99	2.46	10.18	6.78	2.88	10.18	6.60	3.09	10.18	6.41	3.36	9.77	6.25	3.63
M	20	14	5.97	4.84	1.28	5.97	4.84	1.50	5.97	4.84	1.61	5.97	4.84	1.75	5.97	4.84	1.89
	23	16	7.27	5.68	1.65	7.27	5.68	1.92	7.27	5.68	2.07	7.27	5.68	2.25	7.27	5.68	2.43
	26	18	8.22	6.20	1.96	8.22	6.20	2.29	8.22	6.20	2.46	8.22	6.20	2.67	8.22	6.20	2.89
	27	19	9.20	6.62	2.29	9.20	6.62	2.68	9.20	6.62	2.88	9.20	6.62	3.13	8.83	6.46	3.38
	30	22	9.48	6.86	2.32	9.48	6.70	2.71	9.48	6.50	2.91	9.48	6.35	3.17	9.10	6.19	3.42
	32	24	9.66	6.63	2.33	9.66	6.43	2.73	9.66	6.26	2.93	9.66	6.08	3.19	9.27	5.93	3.44
L	20	14	5.84	4.74	1.25	5.84	4.74	1.46	5.84	4.74	1.57	5.84	4.74	1.71	5.84	4.74	1.85
	23	16	7.11	5.56	1.61	7.11	5.56	1.88	7.11	5.56	2.02	7.11	5.56	2.20	7.11	5.56	2.37
	26	18	8.04	6.07	1.92	8.04	6.07	2.24	8.04	6.07	2.41	8.04	6.07	2.62	8.04	6.07	2.82
	27	19	9.00	6.48	2.24	9.00	6.48	2.62	9.00	6.48	2.82	9.00	6.48	3.06	8.64	6.32	3.30
	30	22	9.27	6.72	2.27	9.27	6.55	2.65	9.27	6.36	2.85	9.27	6.21	3.10	8.90	6.06	3.34
	32	24	9.45	6.49	2.28	9.45	6.29	2.67	9.45	6.12	2.87	9.45	5.95	3.12	9.07	5.80	3.37

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	8.08	2.70	8.06	2.78	8.03	2.88	8.03	2.99	8.00	3.07
	-5	-5.6	9.01	2.88	8.98	2.95	8.96	3.05	8.96	3.14	8.93	3.20
	0	-0.7	9.94	3.03	9.91	3.09	9.89	3.18	9.89	3.26	9.86	3.32
	7	6	11.05	3.18	11.03	3.23	11.00	3.30	10.58	3.19	9.97	2.99
	10	8	11.38	3.26	11.36	3.30	11.00	3.24	10.58	2.97	9.97	2.79
H	-10	-11	7.84	2.62	7.82	2.70	7.79	2.79	7.79	2.90	7.76	2.98
	-5	-5.6	8.74	2.79	8.72	2.87	8.69	2.95	8.69	3.04	8.67	3.11
	0	-0.7	9.64	2.94	9.62	2.99	9.59	3.08	9.59	3.16	9.56	3.22
	7	6	10.72	3.08	10.70	3.14	10.67	3.20	10.26	3.10	9.67	2.90
	10	8	11.04	3.16	11.02	3.20	10.67	3.14	10.26	2.88	9.67	2.71
M	-10	-11	7.44	2.48	7.41	2.56	7.39	2.65	7.39	2.75	7.36	2.83
	-5	-5.6	8.29	2.65	8.27	2.72	8.24	2.80	8.24	2.88	8.22	2.95
	0	-0.7	9.14	2.79	9.12	2.84	9.10	2.92	9.10	3.00	9.07	3.05
	7	6	10.17	2.92	10.15	2.98	10.12	3.04	9.73	2.94	9.17	2.75
	10	8	10.47	3.00	10.45	3.04	10.12	2.98	9.73	2.73	9.17	2.57
L	-10	-11	7.28	2.43	7.25	2.50	7.23	2.59	7.23	2.69	7.20	2.76
	-5	-5.6	8.11	2.59	8.09	2.66	8.06	2.74	8.06	2.82	8.04	2.88
	0	-0.7	8.95	2.73	8.92	2.78	8.90	2.86	8.90	2.93	8.87	2.98
	7	6	9.95	2.86	9.93	2.91	9.90	2.97	9.52	2.87	8.97	2.69
	10	8	10.25	2.93	10.22	2.97	9.90	2.91	9.52	2.67	8.97	2.51

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD125ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	8.75	6.67	1.96	8.43	6.52	2.12	8.11	6.21	2.30	7.79	6.07	2.49	7.79	6.07	2.71
	23	16	10.65	7.82	2.52	10.26	7.65	2.73	9.87	7.29	2.96	9.48	7.12	3.20	9.48	7.12	3.49
	26	18	12.04	8.54	3.00	11.60	8.35	3.25	11.16	7.96	3.53	10.72	7.77	3.80	10.72	7.77	4.15
	27	19	13.47	9.12	3.51	12.98	8.92	3.80	12.49	8.50	4.13	12.00	8.30	4.45	11.00	7.76	4.86
	30	22	13.88	9.45	3.56	13.37	9.01	3.84	12.87	8.34	4.17	12.36	7.96	4.50	11.33	7.44	4.92
	32	24	14.14	9.13	3.58	13.62	8.65	3.87	13.11	8.03	4.20	12.59	7.62	4.53	11.55	7.12	4.95
H	20	14	7.56	5.89	1.77	7.56	5.89	2.07	7.56	5.89	2.22	7.56	5.89	2.41	7.56	5.89	2.60
	23	16	9.20	6.90	2.27	9.20	6.90	2.66	9.20	6.90	2.85	9.20	6.90	3.10	9.20	6.90	3.35
	26	18	10.40	7.54	2.70	10.40	7.54	3.16	10.40	7.54	3.39	10.40	7.54	3.69	10.40	7.54	3.98
	27	19	11.64	8.05	3.16	11.64	8.05	3.70	11.64	8.05	3.97	11.64	8.05	4.32	11.18	7.85	4.66
	30	22	11.99	8.34	3.20	11.99	8.14	3.74	11.99	7.90	4.02	11.99	7.72	4.37	11.51	7.53	4.72
	32	24	12.22	8.06	3.22	12.22	7.81	3.77	12.22	7.61	4.05	12.22	7.39	4.40	11.73	7.20	4.75
M	20	14	7.17	5.58	1.67	7.17	5.58	1.96	7.17	5.58	2.10	7.17	5.58	2.29	7.17	5.58	2.47
	23	16	8.72	6.55	2.15	8.72	6.55	2.52	8.72	6.55	2.71	8.72	6.55	2.94	8.72	6.55	3.18
	26	18	9.87	7.15	2.56	9.87	7.15	3.00	9.87	7.15	3.22	9.87	7.15	3.50	9.87	7.15	3.78
	27	19	11.04	7.64	3.00	11.04	7.64	3.51	11.04	7.64	3.77	11.04	7.64	4.09	10.60	7.44	4.42
	30	22	11.37	7.91	3.03	11.37	7.72	3.55	11.37	7.50	3.81	11.37	7.32	4.14	10.92	7.14	4.47
	32	24	11.59	7.64	3.06	11.59	7.41	3.57	11.59	7.21	3.84	11.59	7.01	4.17	11.12	6.83	4.51
L	20	14	7.01	5.46	1.64	7.01	5.46	1.92	7.01	5.46	2.06	7.01	5.46	2.24	7.01	5.46	2.42
	23	16	8.53	6.41	2.11	8.53	6.41	2.46	8.53	6.41	2.65	8.53	6.41	2.88	8.53	6.41	3.11
	26	18	9.65	7.00	2.51	9.65	7.00	2.93	9.65	7.00	3.15	9.65	7.00	3.42	9.65	7.00	3.70
	27	19	10.80	7.47	2.93	10.80	7.47	3.43	10.80	7.47	3.69	10.80	7.47	4.01	10.37	7.28	4.33
	30	22	11.12	7.74	2.97	11.12	7.55	3.47	11.12	7.33	3.73	11.12	7.16	4.05	10.68	6.98	4.38
	32	24	11.34	7.48	2.99	11.34	7.25	3.50	11.34	7.06	3.76	11.34	6.86	4.08	10.88	6.68	4.41

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
Turbo	-10	-11	10.29	3.31	10.26	3.41	10.22	3.54	10.22	3.67	10.19	3.77
	-5	-5.6	11.47	3.54	11.44	3.63	11.40	3.74	11.40	3.85	11.37	3.93
	0	-0.7	12.65	3.72	12.62	3.79	12.58	3.90	12.58	4.00	12.55	4.07
	7	6	14.07	3.90	14.04	3.97	14.00	4.05	13.46	3.92	12.69	3.67
	10	8	14.49	4.00	14.45	4.05	14.00	3.97	13.46	3.65	12.69	3.43
H	-10	-11	9.98	3.22	9.95	3.31	9.92	3.43	9.92	3.56	9.88	3.66
	-5	-5.6	11.13	3.43	11.09	3.52	11.06	3.62	11.06	3.73	11.03	3.81
	0	-0.7	12.27	3.61	12.24	3.67	12.20	3.78	12.20	3.88	12.17	3.95
	7	6	13.65	3.78	13.61	3.85	13.58	3.93	13.06	3.80	12.31	3.56
	10	8	14.05	3.88	14.02	3.93	13.58	3.85	13.06	3.54	12.31	3.32
M	-10	-11	9.47	3.05	9.44	3.14	9.41	3.25	9.41	3.37	9.37	3.47
	-5	-5.6	10.55	3.25	10.52	3.34	10.49	3.44	10.49	3.54	10.46	3.61
	0	-0.7	11.64	3.42	11.61	3.48	11.58	3.59	11.58	3.68	11.55	3.74
	7	6	12.94	3.59	12.91	3.65	12.88	3.73	12.39	3.61	11.67	3.37
	10	8	13.33	3.68	13.30	3.73	12.88	3.65	12.39	3.36	11.67	3.15
L	-10	-11	9.26	2.98	9.23	3.07	9.20	3.18	9.20	3.30	9.17	3.39
	-5	-5.6	10.32	3.18	10.29	3.26	10.26	3.36	10.26	3.46	10.23	3.54
	0	-0.7	11.39	3.35	11.36	3.41	11.32	3.51	11.32	3.60	11.29	3.66
	7	6	12.66	3.51	12.63	3.57	12.60	3.65	12.12	3.53	11.42	3.30
	10	8	13.04	3.60	13.01	3.65	12.60	3.57	12.12	3.28	11.42	3.08

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD140ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	10.20	9.24	2.47	9.83	9.03	2.67	9.46	8.61	2.90	9.09	8.41	3.13	9.09	8.41	3.42
	23	16	12.42	10.84	3.18	11.96	10.59	3.43	11.52	10.10	3.73	11.06	9.86	4.02	11.06	9.86	4.39
	26	18	14.05	11.84	3.78	13.53	11.57	4.09	13.02	11.03	4.44	12.51	10.77	4.79	12.51	10.77	5.23
	27	19	15.72	12.64	4.42	15.14	12.35	4.78	14.57	11.78	5.19	14.00	11.50	5.60	12.84	10.75	6.12
	30	22	16.19	13.10	4.48	15.60	12.49	4.84	15.01	11.56	5.25	14.42	11.03	5.67	13.22	10.31	6.19
	32	24	16.50	12.65	4.51	15.89	11.99	4.87	15.30	11.13	5.29	14.69	10.55	5.71	13.47	9.87	6.23
H	20	14	8.82	8.15	2.22	8.82	8.15	2.60	8.82	8.15	2.79	8.82	8.15	3.03	8.82	8.15	3.28
	23	16	10.73	9.57	2.86	10.73	9.57	3.34	10.73	9.57	3.59	10.73	9.57	3.90	10.73	9.57	4.21
	26	18	12.14	10.45	3.40	12.14	10.45	3.98	12.14	10.45	4.27	12.14	10.45	4.64	12.14	10.45	5.01
	27	19	13.58	11.16	3.98	13.58	11.16	4.65	13.58	11.16	5.00	13.58	11.16	5.43	13.04	10.87	5.87
	30	22	13.99	11.56	4.03	13.99	11.28	4.71	13.99	10.95	5.06	13.99	10.70	5.50	13.43	10.43	5.94
	32	24	14.25	11.17	4.05	14.25	10.82	4.74	14.25	10.54	5.09	14.25	10.24	5.54	13.68	9.98	5.98
M	20	14	8.36	7.73	2.11	8.36	7.73	2.47	8.36	7.73	2.65	8.36	7.73	2.88	8.36	7.73	3.11
	23	16	10.18	9.07	2.71	10.18	9.07	3.17	10.18	9.07	3.41	10.18	9.07	3.70	10.18	9.07	4.00
	26	18	11.51	9.91	3.22	11.51	9.91	3.77	11.51	9.91	4.05	11.51	9.91	4.40	11.51	9.91	4.76
	27	19	12.88	10.58	3.77	12.88	10.58	4.41	12.88	10.58	4.74	12.88	10.58	5.15	12.37	10.31	5.56
	30	22	13.27	10.96	3.82	13.27	10.70	4.47	13.27	10.39	4.80	13.27	10.15	5.21	12.74	9.89	5.63
	32	24	13.52	10.59	3.84	13.52	10.27	4.50	13.52	10.00	4.83	13.52	9.71	5.25	12.98	9.46	5.67
L	20	14	8.18	7.57	2.06	8.18	7.57	2.41	8.18	7.57	2.59	8.18	7.57	2.81	8.18	7.57	3.04
	23	16	9.96	8.88	2.65	9.96	8.88	3.10	9.96	8.88	3.33	9.96	8.88	3.62	9.96	8.88	3.91
	26	18	11.26	9.69	3.15	11.26	9.69	3.69	11.26	9.69	3.96	11.26	9.69	4.31	11.26	9.69	4.65
	27	19	12.60	10.35	3.69	12.60	10.35	4.32	12.60	10.35	4.64	12.60	10.35	5.04	12.10	10.09	5.44
	30	22	12.98	10.73	3.74	12.98	10.47	4.37	12.98	10.16	4.69	12.98	9.93	5.10	12.46	9.68	5.51
	32	24	13.22	10.36	3.76	13.22	10.04	4.40	13.22	9.78	4.73	13.22	9.50	5.14	12.70	9.26	5.55

# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	11.02	3.85	10.99	3.96	10.95	4.10	10.95	4.26	10.91	4.37
	-5	-5.6	12.29	4.10	12.25	4.21	12.22	4.34	12.22	4.47	12.18	4.56
	0	-0.7	13.55	4.31	13.52	4.40	13.48	4.52	13.48	4.64	13.45	4.72
	7	6	15.07	4.52	15.04	4.61	15.00	4.70	14.42	4.55	13.60	4.25
	10	8	15.52	4.64	15.49	4.70	15.00	4.61	14.42	4.23	13.60	3.98
H	-10	-11	10.69	3.73	10.66	3.84	10.62	3.98	10.62	4.13	10.59	4.24
	-5	-5.6	11.92	3.98	11.88	4.08	11.85	4.21	11.85	4.33	11.82	4.42
	0	-0.7	13.15	4.18	13.11	4.26	13.08	4.39	13.08	4.50	13.04	4.58
	7	6	14.62	4.39	14.59	4.47	14.55	4.56	13.99	4.41	13.19	4.13
	10	8	15.06	4.50	15.02	4.56	14.55	4.47	13.99	4.11	13.19	3.86
M	-10	-11	10.14	3.54	10.11	3.64	10.08	3.77	10.08	3.92	10.04	4.02
	-5	-5.6	11.31	3.77	11.27	3.87	11.24	3.99	11.24	4.11	11.21	4.19
	0	-0.7	12.47	3.97	12.44	4.04	12.40	4.16	12.40	4.27	12.37	4.35
	7	6	13.87	4.16	13.84	4.24	13.80	4.32	13.27	4.18	12.51	3.91
	10	8	14.28	4.27	14.25	4.33	13.80	4.24	13.27	3.89	12.51	3.66
L	-10	-11	9.92	3.46	9.89	3.57	9.86	3.69	9.86	3.83	9.82	3.94
	-5	-5.6	11.06	3.69	11.03	3.79	11.00	3.90	11.00	4.02	10.96	4.10
	0	-0.7	12.20	3.88	12.17	3.96	12.13	4.07	12.13	4.18	12.10	4.25
	7	6	13.57	4.07	13.53	4.15	13.50	4.23	12.98	4.09	12.24	3.83
	10	8	13.97	4.18	13.94	4.23	13.50	4.15	12.98	3.81	12.24	3.58

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	7.5m
Outdoor		

2. Capacities are net , including a deduction for cooling( an addition for heating) for indoor fan motor heat.

GUD160ZD/A-S  
Cooling

Fan speed	Indoor air temperature °C		Outdoor dry bulb temperature °C														
			20			25			30			35			40		
	DB	WB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Turbo	20	14	11.37	10.04	2.43	10.95	9.82	2.62	10.54	9.36	2.85	10.13	9.14	3.07	10.13	9.14	3.35
	23	16	13.84	11.78	3.12	13.33	11.51	3.37	12.83	10.98	3.66	12.33	10.72	3.95	12.33	10.72	4.31
	26	18	15.65	12.87	3.71	15.08	12.58	4.01	14.51	11.99	4.36	13.94	11.71	4.70	13.94	11.71	5.13
	27	19	17.51	13.74	4.34	16.87	13.43	4.70	16.24	12.80	5.10	15.60	12.50	5.50	14.31	11.69	6.01
	30	22	18.04	14.23	4.40	17.38	13.58	4.75	16.73	12.57	5.16	16.07	11.99	5.57	14.73	11.21	6.08
	32	24	18.38	13.75	4.43	17.71	13.03	4.79	17.04	12.09	5.20	16.37	11.47	5.60	15.01	10.73	6.12
H	20	14	9.82	8.86	2.18	9.82	8.86	2.55	9.82	8.86	2.74	9.82	8.86	2.98	9.82	8.86	3.22
	23	16	11.96	10.40	2.81	11.96	10.40	3.28	11.96	10.40	3.53	11.96	10.40	3.83	11.96	10.40	4.14
	26	18	13.52	11.36	3.34	13.52	11.36	3.91	13.52	11.36	4.20	13.52	11.36	4.56	13.52	11.36	4.92
	27	19	15.13	12.13	3.91	15.13	12.13	4.57	15.13	12.13	4.91	15.13	12.13	5.34	14.53	11.82	5.76
	30	22	15.59	12.56	3.95	15.59	12.26	4.63	15.59	11.90	4.97	15.59	11.63	5.40	14.96	11.33	5.83
	32	24	15.88	12.14	3.98	15.88	11.77	4.66	15.88	11.46	5.00	15.88	11.13	5.44	15.25	10.85	5.87
M	20	14	9.32	8.41	2.07	9.32	8.41	2.42	9.32	8.41	2.60	9.32	8.41	2.83	9.32	8.41	3.05
	23	16	11.34	9.86	2.66	11.34	9.86	3.11	11.34	9.86	3.34	11.34	9.86	3.63	11.34	9.86	3.93
	26	18	12.83	10.77	3.17	12.83	10.77	3.71	12.83	10.77	3.98	12.83	10.77	4.32	12.83	10.77	4.67
	27	19	14.35	11.50	3.71	14.35	11.50	4.34	14.35	11.50	4.66	14.35	11.50	5.06	13.78	11.21	5.46
	30	22	14.78	11.92	3.75	14.78	11.63	4.39	14.78	11.29	4.71	14.78	11.03	5.12	14.19	10.75	5.53
	32	24	15.06	11.51	3.78	15.06	11.16	4.42	15.06	10.87	4.75	15.06	10.55	5.16	14.46	10.29	5.57
L	20	14	9.12	8.22	2.02	9.12	8.22	2.37	9.12	8.22	2.54	9.12	8.22	2.76	9.12	8.22	2.99
	23	16	11.09	9.65	2.60	11.09	9.65	3.05	11.09	9.65	3.27	11.09	9.65	3.56	11.09	9.65	3.84
	26	18	12.55	10.54	3.10	12.55	10.54	3.62	12.55	10.54	3.89	12.55	10.54	4.23	12.55	10.54	4.57
	27	19	14.04	11.25	3.62	14.04	11.25	4.24	14.04	11.25	4.56	14.04	11.25	4.95	13.48	10.97	5.35
	30	22	14.46	11.66	3.67	14.46	11.38	4.29	14.46	11.04	4.61	14.46	10.79	5.01	13.88	10.52	5.41
	32	24	14.74	11.26	3.69	14.74	10.92	4.32	14.74	10.63	4.64	14.74	10.32	5.04	14.15	10.06	5.45



# U-MATCH SERIES AIR CONDITIONERS

## Heating

Fan speed	Outdoor air temperature °C		Indoor dry bulb temperature °C									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Turbo	-10	-11	12.49	3.93	12.45	4.05	12.41	4.19	12.41	4.35	12.37	4.47
	-5	-5.6	13.93	4.19	13.89	4.30	13.85	4.43	13.85	4.56	13.81	4.66
	0	-0.7	15.36	4.41	15.32	4.49	15.28	4.62	15.28	4.74	15.24	4.82
	7	6	17.08	4.62	17.04	4.70	17.00	4.80	16.35	4.64	15.41	4.35
	10	8	17.59	4.74	17.55	4.80	17.00	4.71	16.35	4.32	15.41	4.06
H	-10	-11	12.12	3.81	12.08	3.92	12.04	4.06	12.04	4.22	12.00	4.33
	-5	-5.6	13.51	4.06	13.47	4.17	13.43	4.30	13.43	4.42	13.39	4.52
	0	-0.7	14.90	4.27	14.86	4.35	14.82	4.48	14.82	4.60	14.78	4.68
	7	6	16.57	4.48	16.53	4.56	16.49	4.66	15.86	4.51	14.95	4.21
	10	8	17.07	4.60	17.03	4.66	16.49	4.56	15.86	4.19	14.95	3.94
M	-10	-11	11.49	3.61	11.46	3.72	11.42	3.85	11.42	4.00	11.38	4.11
	-5	-5.6	12.81	3.85	12.77	3.95	12.74	4.07	12.74	4.20	12.70	4.28
	0	-0.7	14.13	4.05	14.10	4.13	14.06	4.25	14.06	4.36	14.02	4.44
	7	6	15.72	4.25	15.68	4.33	15.64	4.42	15.04	4.27	14.18	4.00
	10	8	16.19	4.36	16.15	4.42	15.64	4.33	15.04	3.98	14.18	3.73
L	-10	-11	11.24	3.54	11.21	3.64	11.17	3.77	11.17	3.91	11.13	4.02
	-5	-5.6	12.54	3.77	12.50	3.87	12.46	3.99	12.46	4.10	12.43	4.19
	0	-0.7	13.83	3.96	13.79	4.04	13.75	4.16	13.75	4.27	13.71	4.34
	7	6	15.37	4.16	15.34	4.23	15.30	4.32	14.71	4.18	13.87	3.91
	10	8	15.83	4.27	15.80	4.32	15.30	4.24	14.71	3.89	13.87	3.65

Note:

DB: Dry bulb temp.

WB: Wet bulb temp.

TC: Total cooling(heating) capacity.

SHC: Sensible capacity

PI: Power input.

1. The above data are based on the following conditions.

Hz,Volts		Equivalent Piping Length
Indoor	220-240V ~50/60Hz	7.5m
Outdoor		

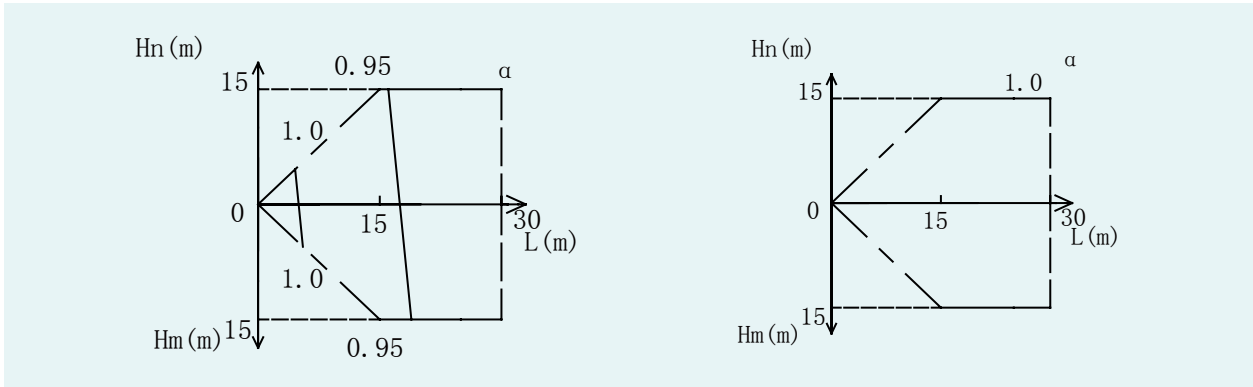
2. Capacities are net , including a deduction for cooling(an addition for heating) for indoor fan motor heat.

## ➔ 6.2 Pipe Length Drop Capacity Correction

GUD35T/A-S; GUD35P/A-S; GUD35PS/A-S; GUD35ZD/A-S

Cooling

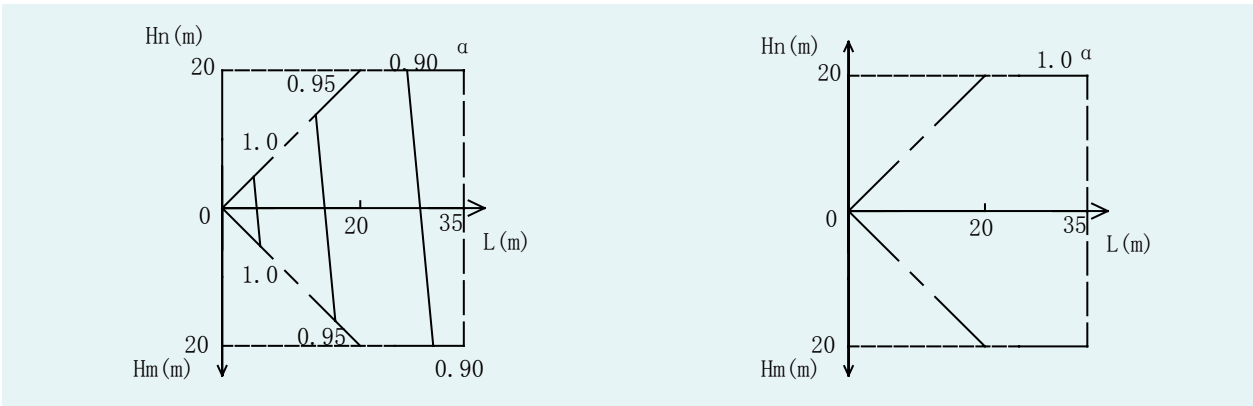
Heating



GUD50T/A-S; GUD50P/A-S; GUD50PS/A-S; GUD50ZD/A-S

Cooling

Heating



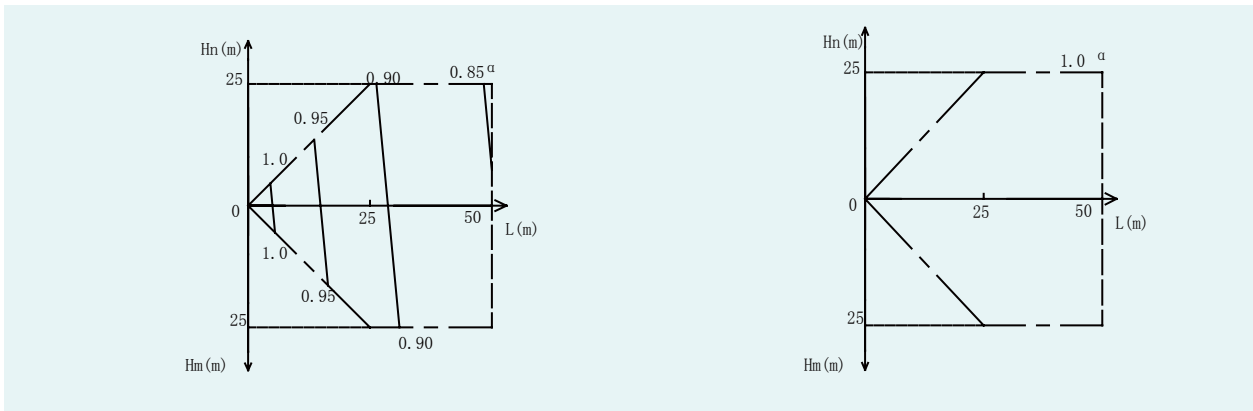
GUD71T/A1-S; GUD71P/A1-S; GUD71PS/A1-S; GUD71ZD/A1-S

GUD71T/A-S; GUD71P/A-S; GUD71PS/A-S; GUD71ZD/A-S

GUD100T/A-S; GUD100PH/A-S; GUD100PHS/A-S; GUD100ZD/A-S

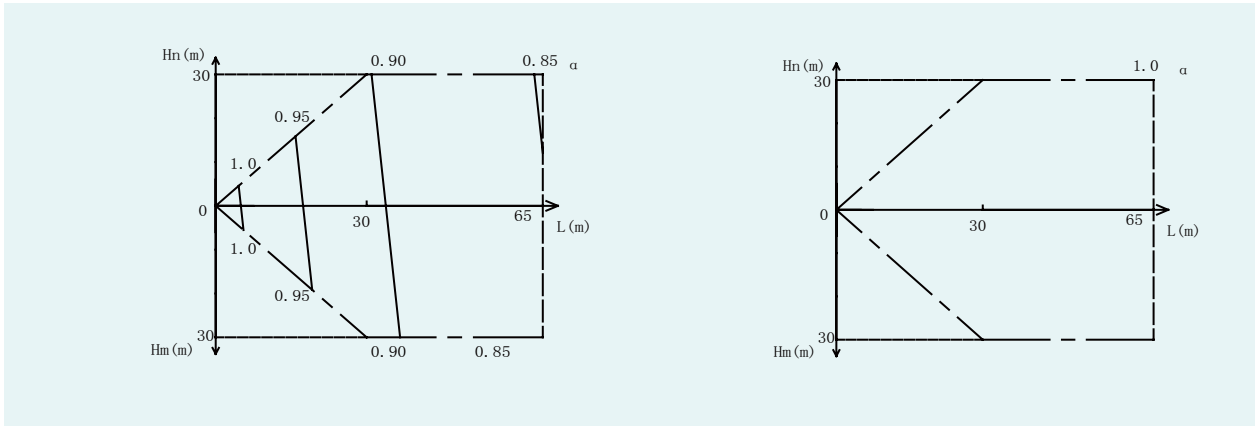
Cooling

Heating

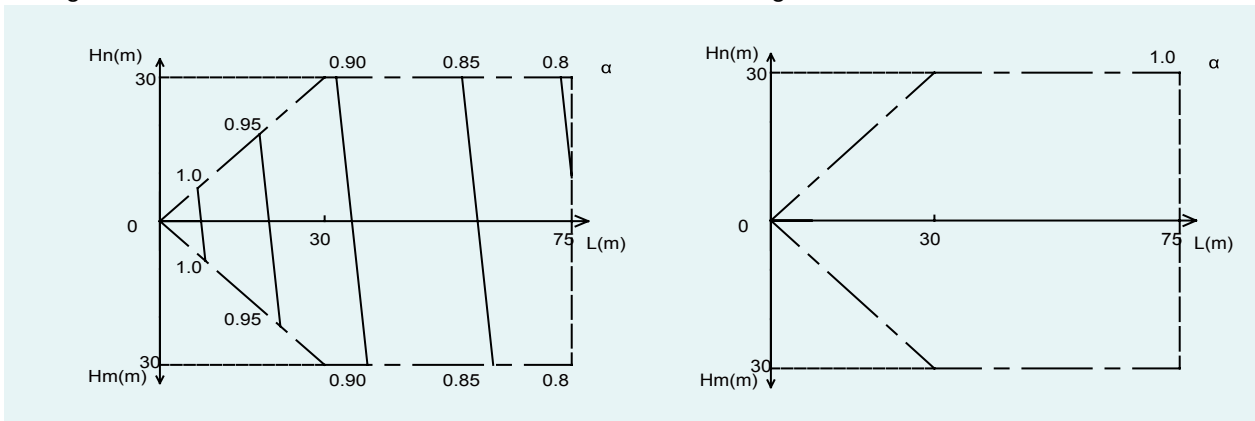


# U-MATCH SERIES AIR CONDITIONERS

GUD125T/A-S; GUD125PH/A-S; GUD125PHS/A-S; GUD125ZD/A-S  
Cooling Heating



GUD140T/A-S; GUD140PH/A-S; GUD140PHS/A-S; GUD140ZD/A-S  
GUD160T/A-S; GUD160PH/A-S; GUD160PHS/A-S; GUD160ZD/A-S  
Cooling Heating



## Notes:

1. Above figures indicate the capacity change rate of a standard indoor unit system under maximum load in standard conditions.
2. Under partial load, the capacity change rate indicated above will have a very small deviation.
3. Capacity calculation method for cooling/heating  
Cooling/heating capacity = the corresponding capacity in the table of cooling/heating performance  $\times$  correction rate

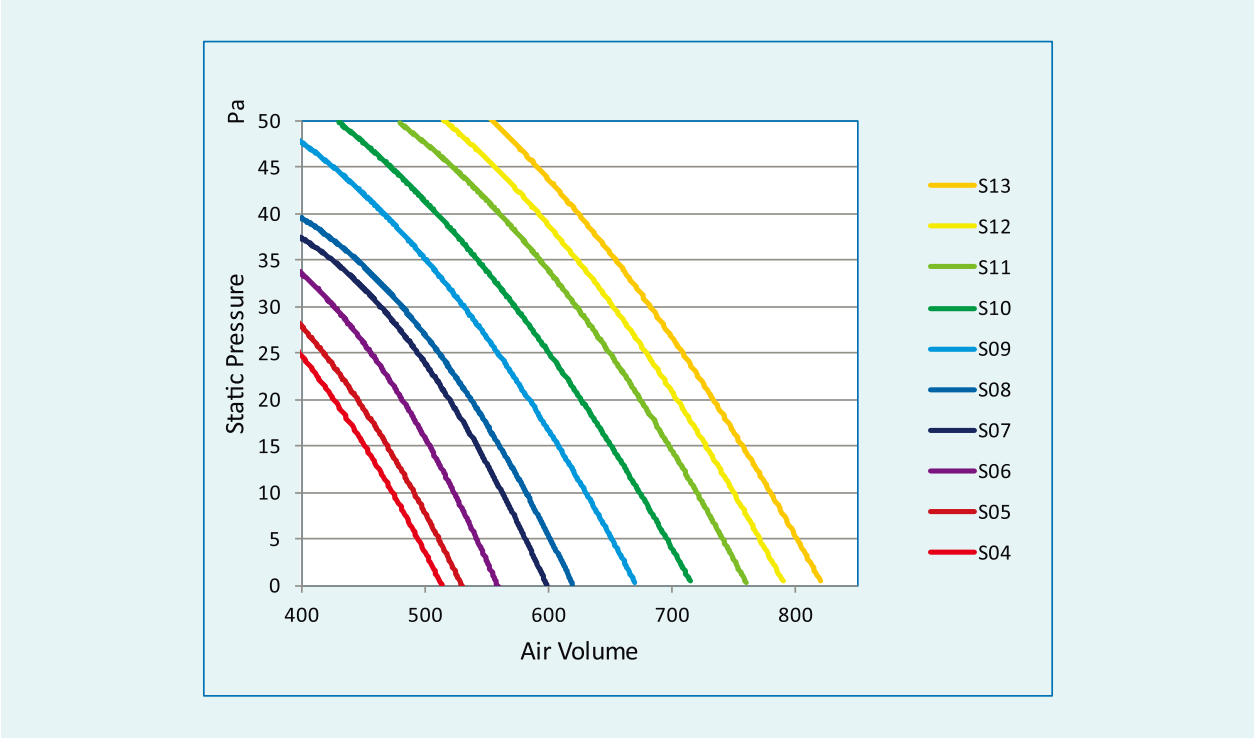
## Pipeline dimensions

L: Length of connection pipe  
Hn: ODU is lower than IDU  
Hm: ODU is higher than IDU  
 $\alpha$ : Capacity correction factor

Model	Gas pipe (inch)	Liquid pipe (inch)
GUD35W/A-S	1/4	3/8
GUD50W/A-S		1/2
GUD71W/A1-S	5/8	3/8
GUD71W/A-S		
GUD100W/A-S		
GUD125W/A-S		
GUD125W/A-X		
GUD140W/A-S		
GUD140W/A-X		
GUD160W/A-S		
GUD160W/A-X		

# 7 AIR VOLUME STATIC PRESSURE CURVE

GUD35P/A-S, GUD35PS/A-S



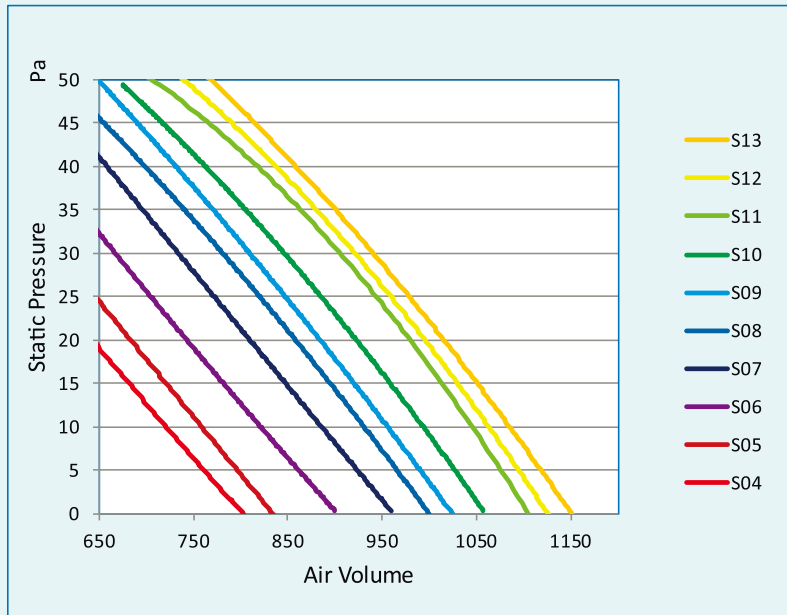
Note:

1. The external static pressure (ESP) can be changed in 5 levels by the remote controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P03	S09	S08	S07	S06	S05	S04	S03	S02	S01
P04	S10	S09	S08	S07	S06	S05	S04	S03	S02
P05	S11	S10	S09	S08	S07	S06	S05	S04	S03
P06	S12	S11	S10	S09	S08	S07	S06	S05	S04
P07	S13	S12	S11	S10	S09	S08	S07	S06	S05

# U-MATCH SERIES AIR CONDITIONERS

GUD50P/A-S, GUD50PS/A-S

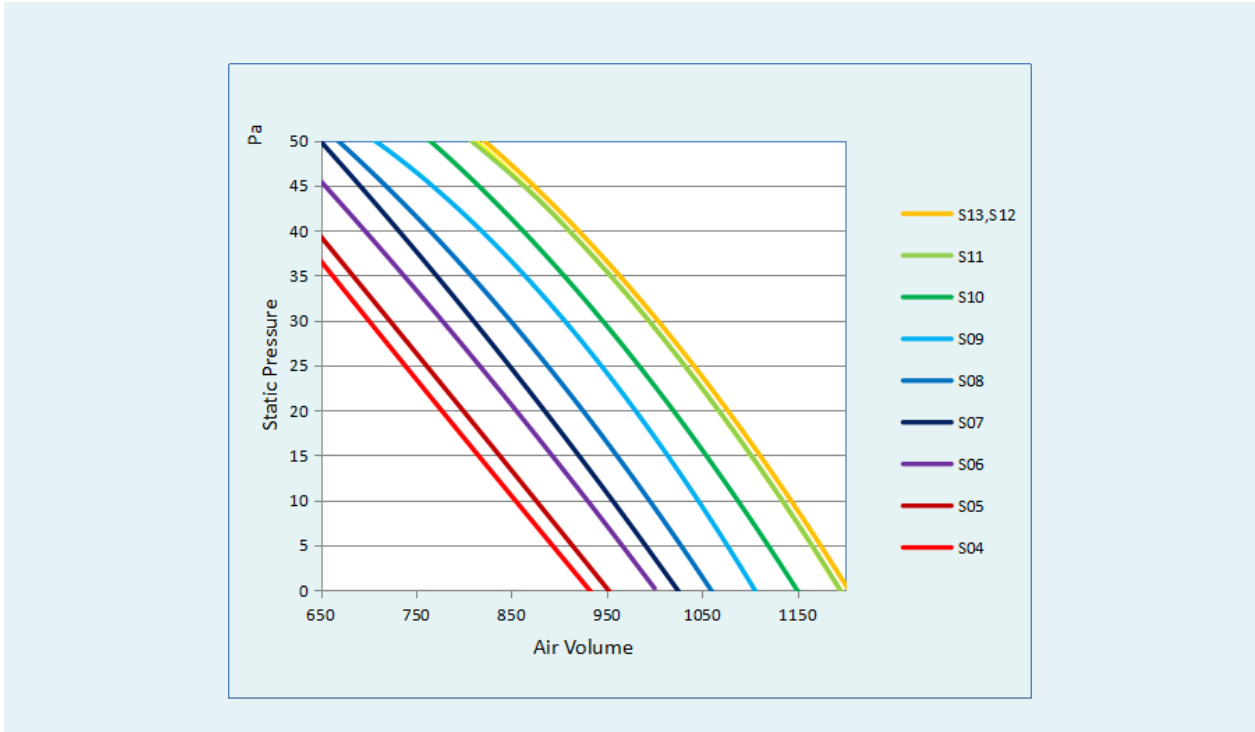


Note:

1. The external static pressure (ESP) can be changed in 5 levels by the remote controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P03	S09	S08	S07	S06	S05	S04	S03	S02	S01
P04	S10	S09	S08	S07	S06	S05	S04	S03	S02
P05	S11	S10	S09	S08	S07	S06	S05	S04	S03
P06	S12	S11	S10	S09	S08	S07	S06	S05	S04
P07	S13	S12	S11	S10	S09	S08	S07	S06	S05

GUD71P/A1-S, GUD71PS/A1-S



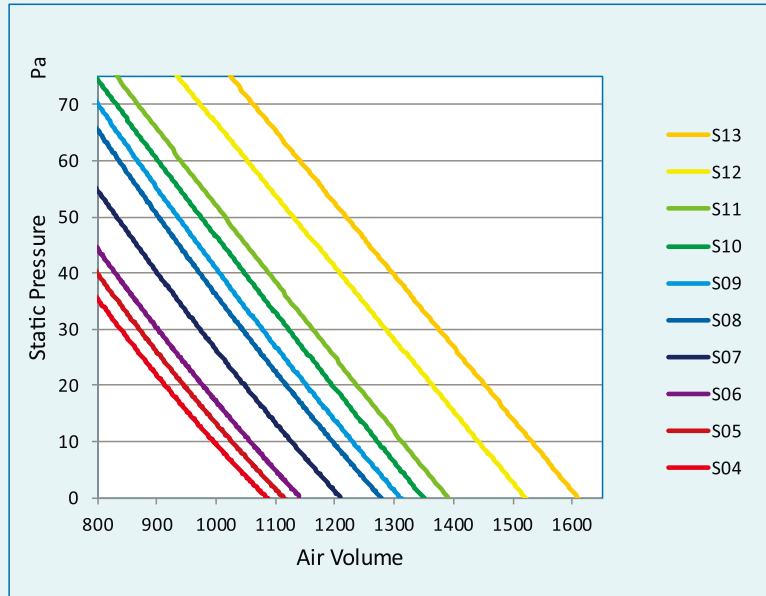
Note:

1. The external static pressure (ESP) can be changed in 5 levels by the remote controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P03	S09	S08	S07	S06	S05	S04	S03	S02	S01
P04	S10	S09	S08	S07	S06	S05	S04	S03	S02
P05	S11	S10	S09	S08	S07	S06	S05	S04	S03
P06	S12	S11	S10	S09	S08	S07	S06	S05	S04
P07	S13	S12	S11	S10	S09	S08	S07	S06	S05

# U-MATCH SERIES AIR CONDITIONERS

GUD71P/A-S, GUD71PS/A-S

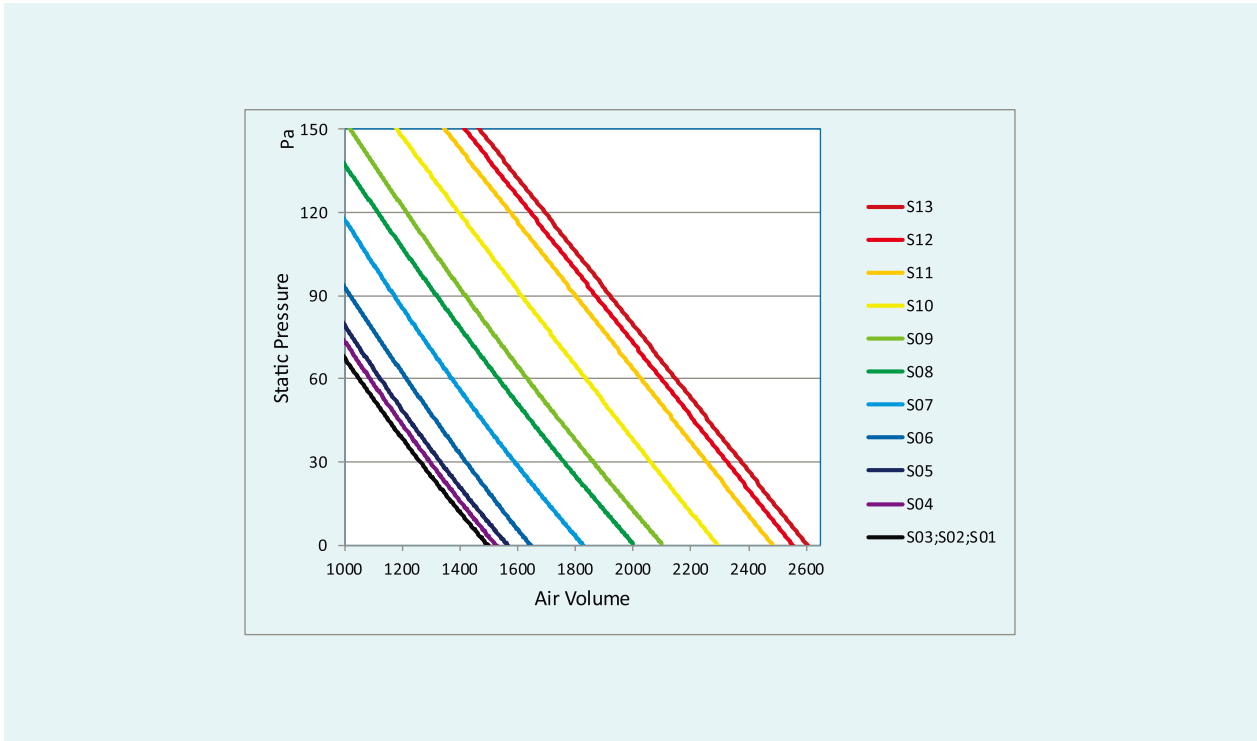


Note:

1. The external static pressure (ESP) can be changed in 5 levels by the remote controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P03	S09	S08	S07	S06	S05	S04	S03	S02	S01
P04	S10	S09	S08	S07	S06	S05	S04	S03	S02
P05	S11	S10	S09	S08	S07	S06	S05	S04	S03
P06	S12	S11	S10	S09	S08	S07	S06	S05	S04
P07	S13	S12	S11	S10	S09	S08	S07	S06	S05

GUD100PH/A-S , GUD100PHS/A-S



Note:

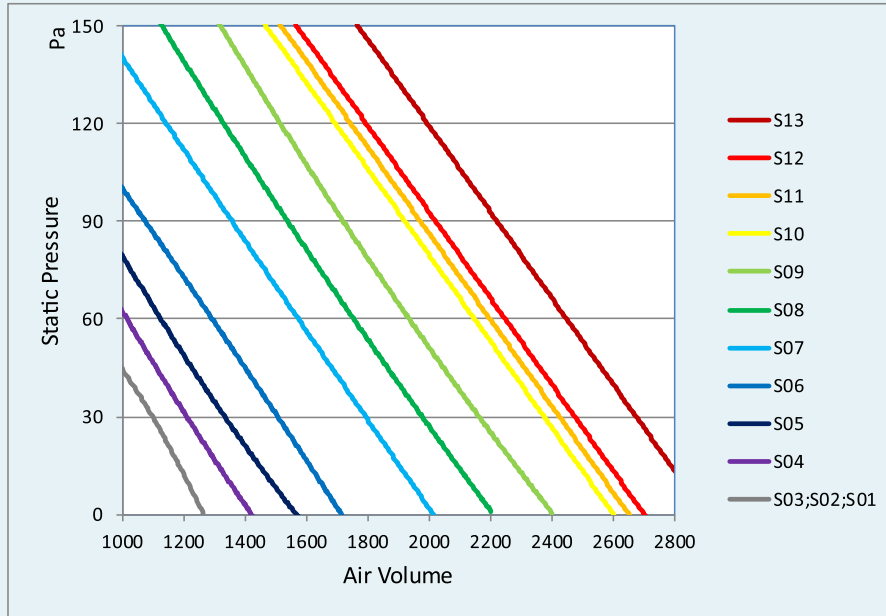
1. The external static pressure (ESP) can be changed in 9 levels by the controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P1	S05	S03	S02	S02	S01	S01	S01	S01	S01
P2	S06	S04	S03	S03	S02	S02	S02	S02	S02
P3	S07	S05	S04	S04	S03	S03	S03	S03	S03
P4	S08	S06	S05	S05	S04	S04	S04	S04	S04
P5	S09	S07	S06	S06	S05	S05	S05	S05	S05
P6	S10	S08	S07	S07	S06	S06	S06	S06	S06
P7	S11	S09	S08	S08	S07	S07	S07	S07	S07
P8	S12	S10	S09	S09	S08	S08	S08	S08	S08
P9	S13	S11	S10	S10	S09	S09	S09	S09	S09



# U-MATCH SERIES AIR CONDITIONERS

GUD125PH/A-S, GUD125PHS/A-S

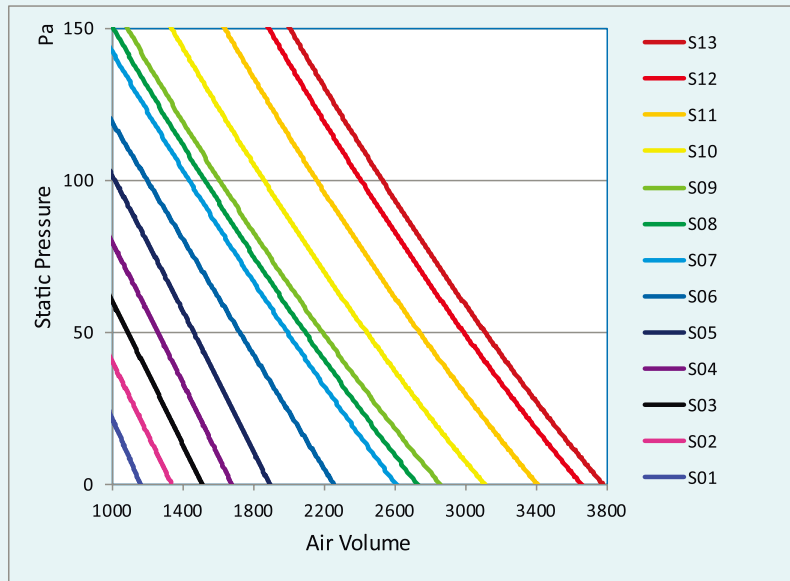


Note:

1. The external static pressure (ESP) can be changed in 9 levels by the controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P1	S05	S03	S02	S02	S01	S01	S01	S01	S01
P2	S06	S04	S03	S03	S02	S02	S02	S02	S02
P3	S07	S05	S04	S04	S03	S03	S03	S03	S03
P4	S08	S06	S05	S05	S04	S04	S04	S04	S04
P5	S09	S07	S06	S06	S05	S05	S05	S05	S05
P6	S10	S08	S07	S07	S06	S06	S06	S06	S06
P7	S11	S09	S08	S08	S07	S07	S07	S07	S07
P8	S12	S10	S09	S09	S08	S08	S08	S08	S08
P9	S13	S11	S10	S10	S09	S09	S09	S09	S09

GUD140PH/A-S, GUD140PHS/A-S



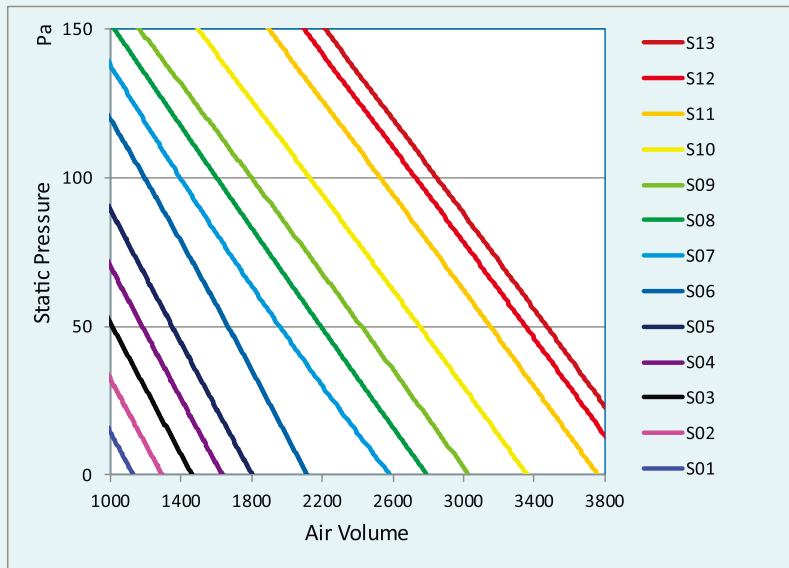
Note:

1. The external static pressure (ESP) can be changed in 9 levels by the controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P1	S05	S03	S02	S02	S01	S01	S01	S01	S01
P2	S06	S04	S03	S03	S02	S02	S02	S02	S02
P3	S07	S05	S04	S04	S03	S03	S03	S03	S03
P4	S08	S06	S05	S05	S04	S04	S04	S04	S04
P5	S09	S07	S06	S06	S05	S05	S05	S05	S05
P6	S10	S08	S07	S07	S06	S06	S06	S06	S06
P7	S11	S09	S08	S08	S07	S07	S07	S07	S07
P8	S12	S10	S09	S09	S08	S08	S08	S08	S08
P9	S13	S11	S10	S10	S09	S09	S09	S09	S09

# U-MATCH SERIES AIR CONDITIONERS

GUD160PH/A-S, GUD160PHS/A-S



Note:

1. The external static pressure (ESP) can be changed in 9 levels by the controller.
2. The remote controller can be used to change turbo, H, M and L.
3. ESP: external static pressure.

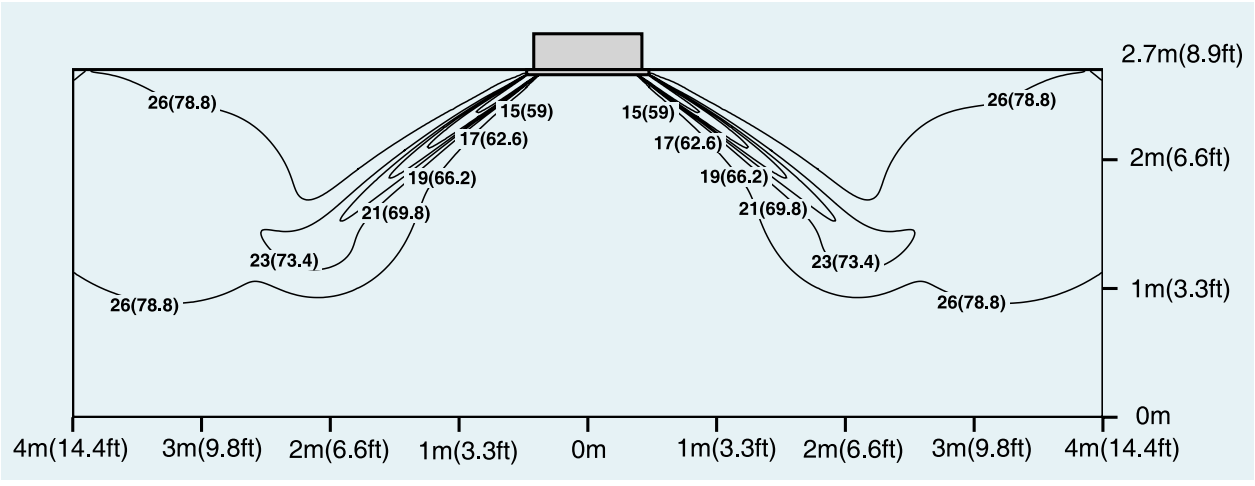
Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P1	S05	S03	S02	S02	S01	S01	S01	S01	S01
P2	S06	S04	S03	S03	S02	S02	S02	S02	S02
P3	S07	S05	S04	S04	S03	S03	S03	S03	S03
P4	S08	S06	S05	S05	S04	S04	S04	S04	S04
P5	S09	S07	S06	S06	S05	S05	S05	S05	S05
P6	S10	S08	S07	S07	S06	S06	S06	S06	S06
P7	S11	S09	S08	S08	S07	S07	S07	S07	S07
P8	S12	S10	S09	S09	S08	S08	S08	S08	S08
P9	S13	S11	S10	S10	S09	S09	S09	S09	S09

# 8 AIRFLOW CHART

## 8.1 Cassette Type

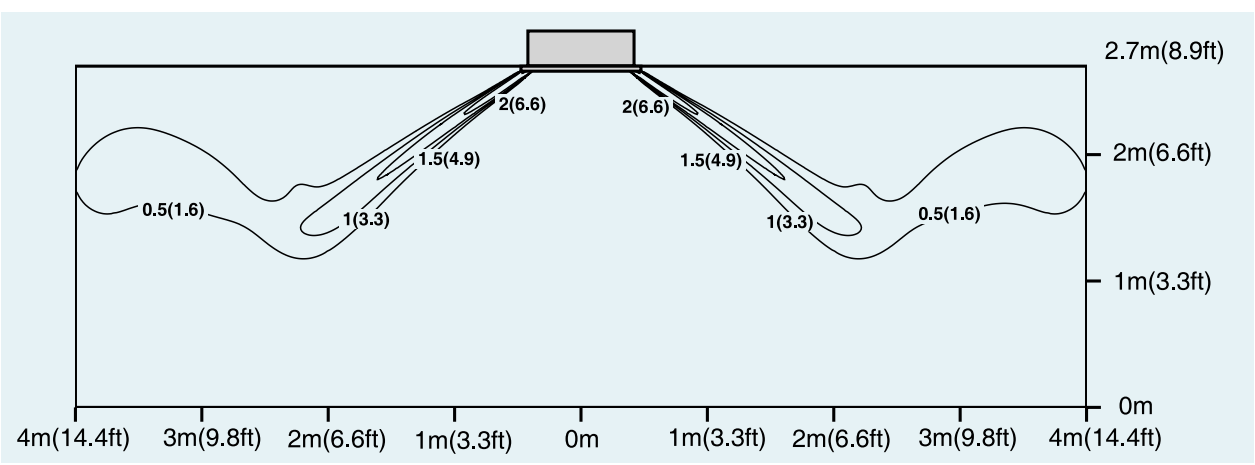
GUD35T/A-S; GUD50T/A-S  
Cooling temperature

Unit: °C (°F)



Cooling velocity

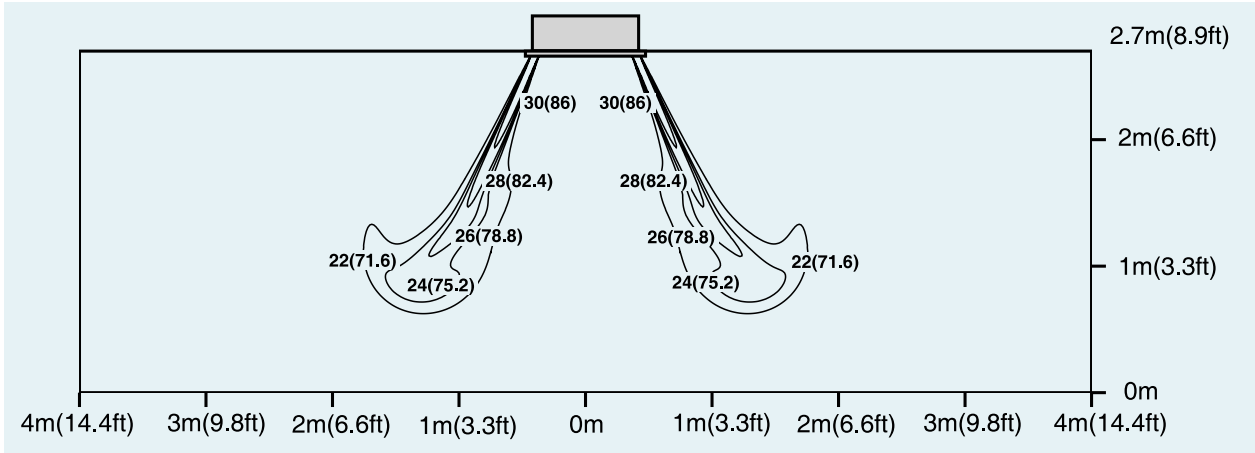
Unit: m/s (ft/s)



# U-MATCH SERIES AIR CONDITIONERS

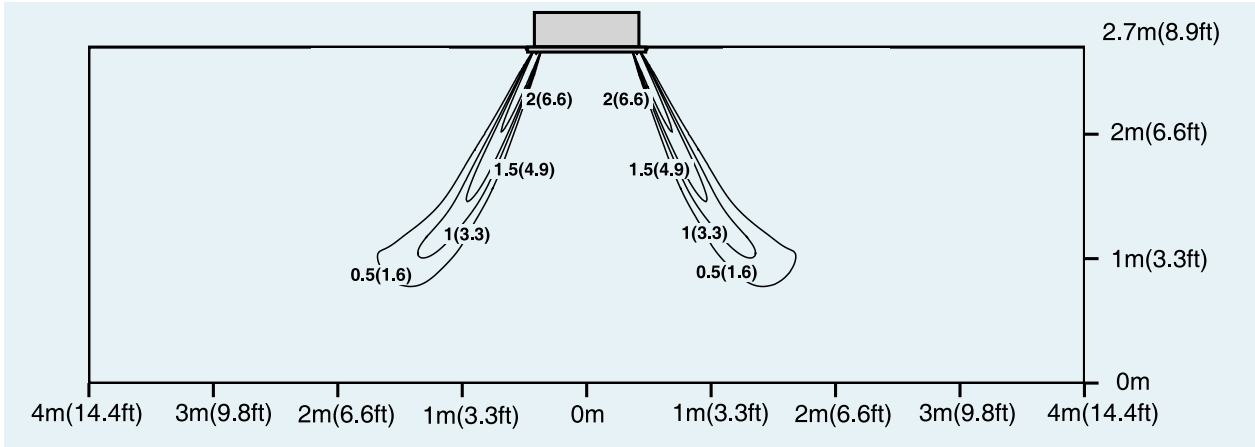
Heating temperature

Unit: °C (°F)



Heating velocity

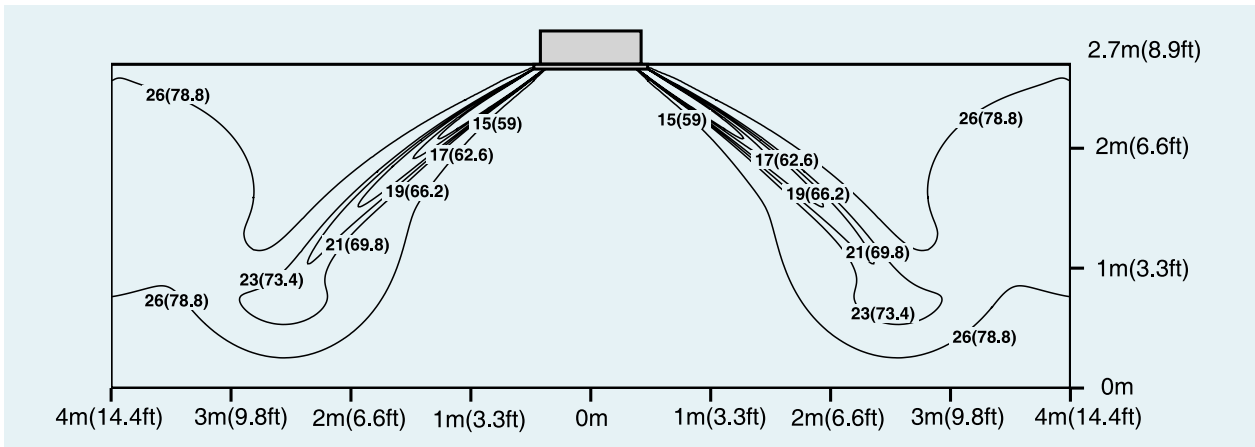
Unit: m/s (ft/s)



GUD71T/A1-S;GUD71T/A-S

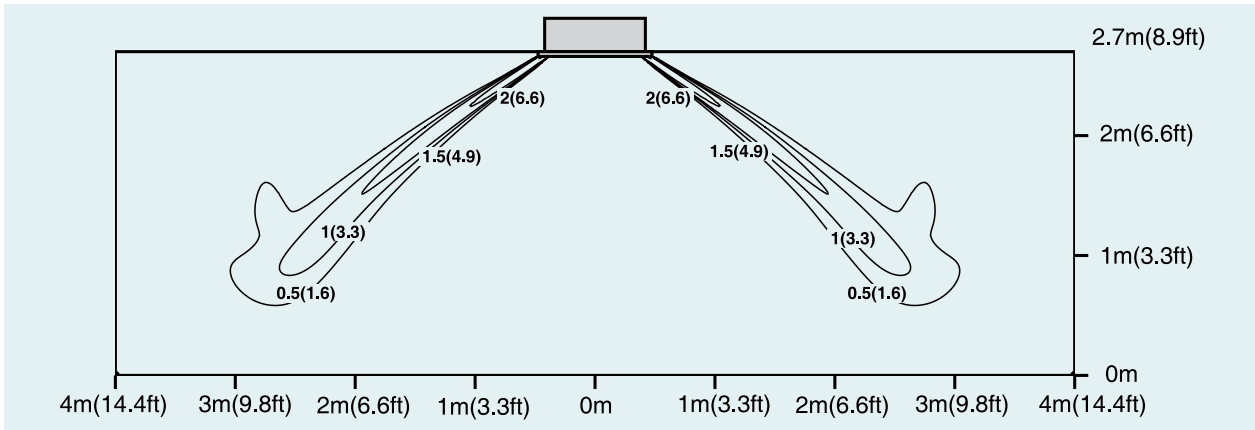
Cooling temperature

Unit: °C (°F)



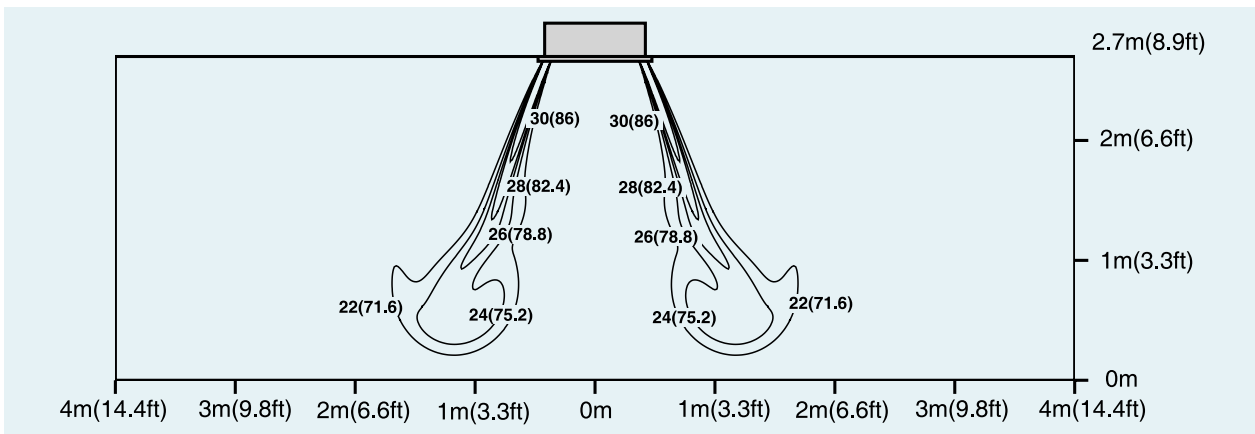
Cooling velocity

Unit: m/s (ft/s)



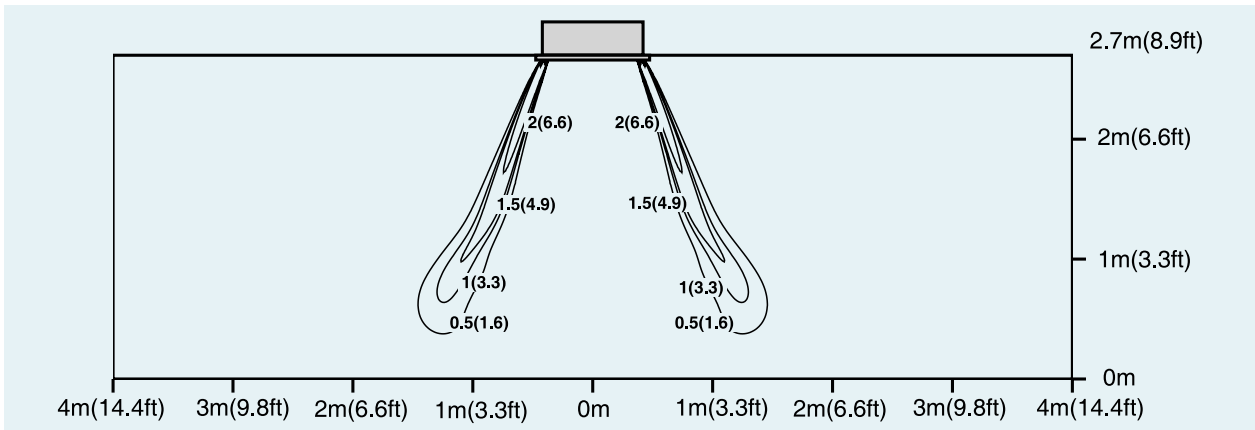
Heating temperature

Unit: °C (°F)



Heating velocity

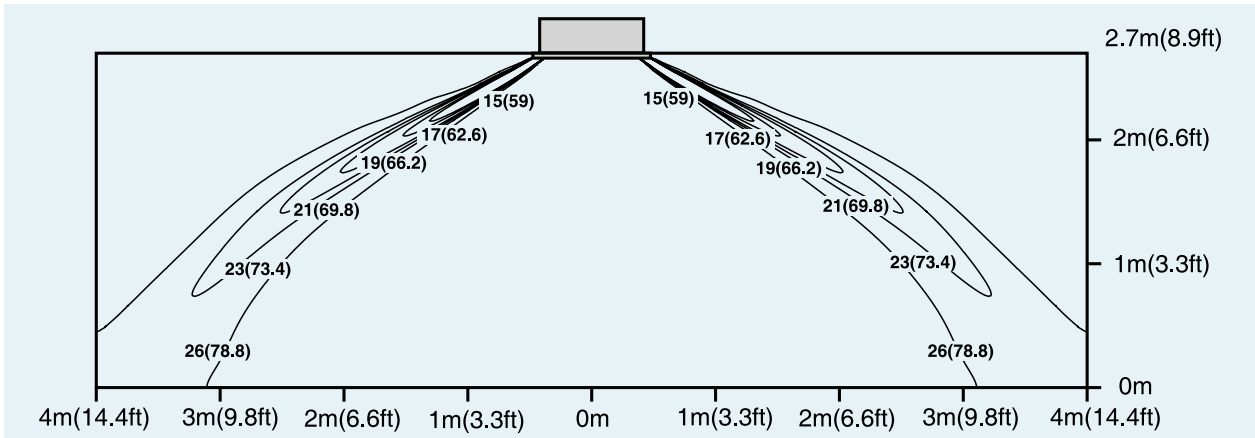
Unit: m/s (ft/s)



# U-MATCH SERIES AIR CONDITIONERS

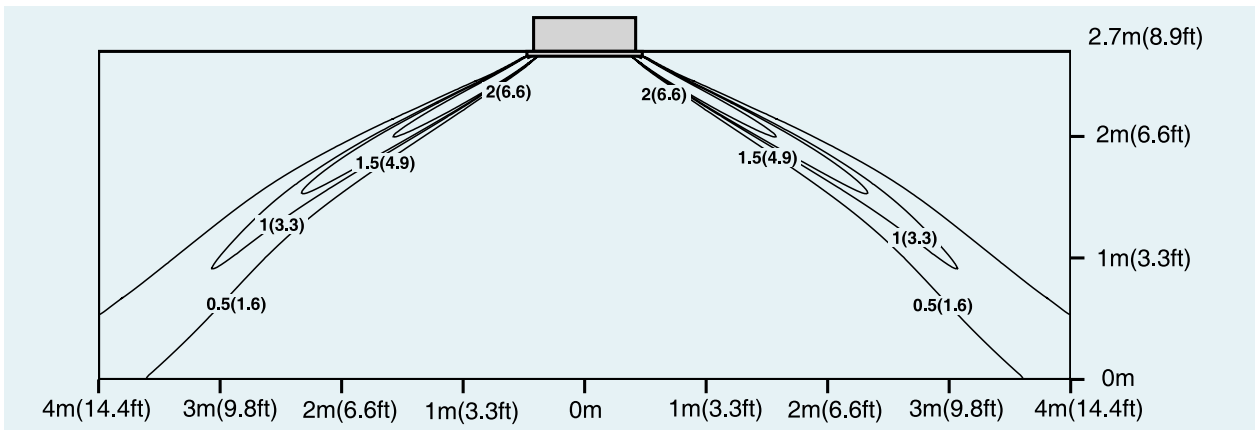
GUD100T/A-S;GUD125T/A-S  
Cooling temperature

Unit: °C (°F)



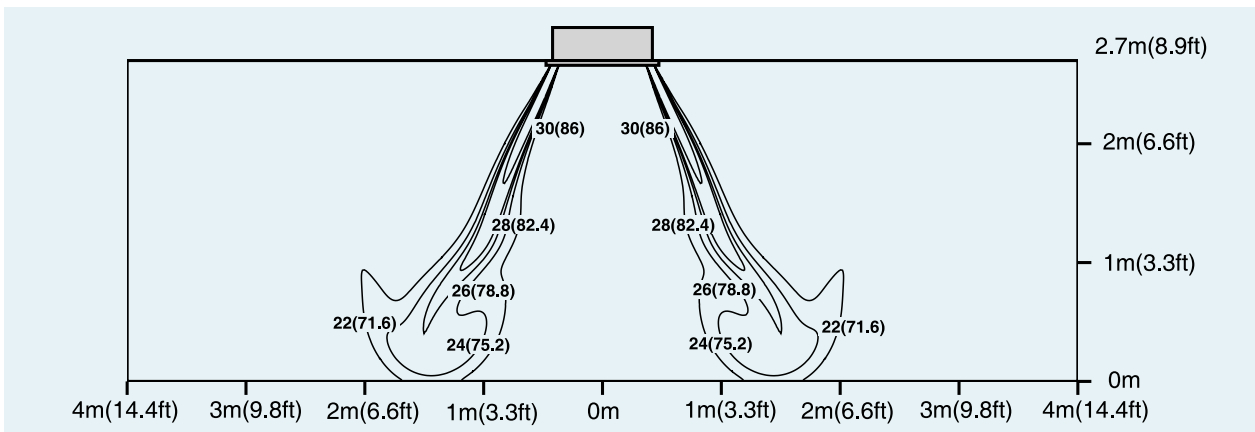
Cooling velocity

Unit: m/s (ft/s)



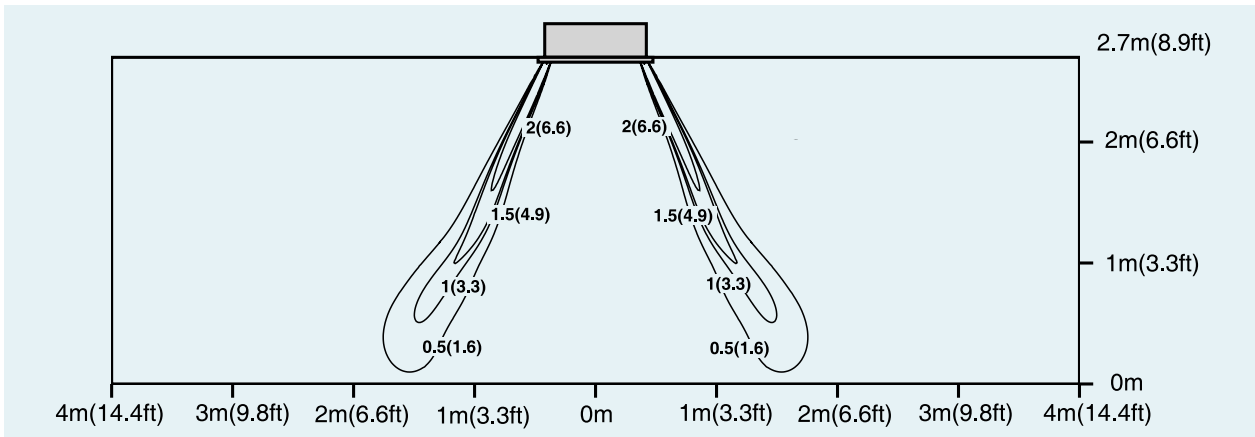
Heating temperature

Unit: °C (°F)



Heating velocity

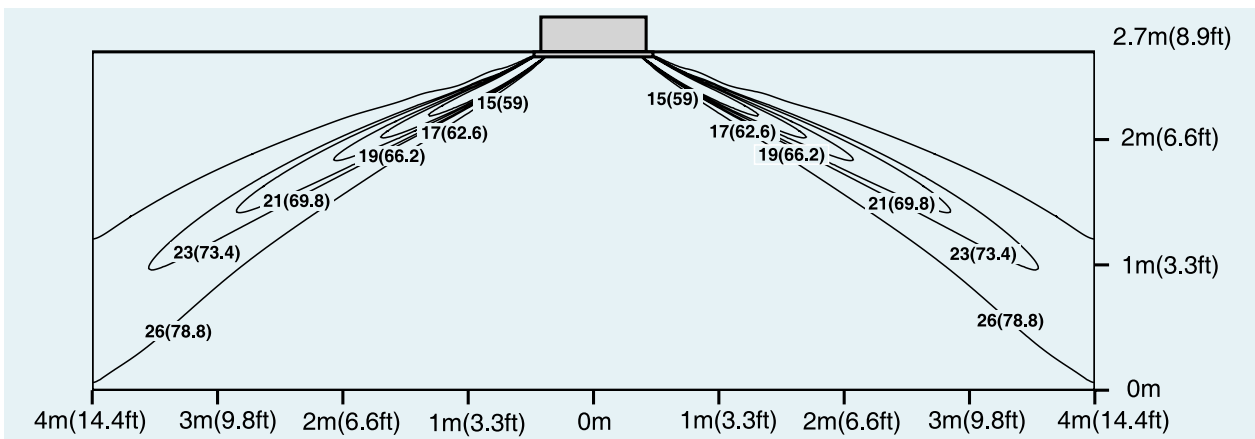
Unit: m/s (ft/s)



GUD140T/A-S

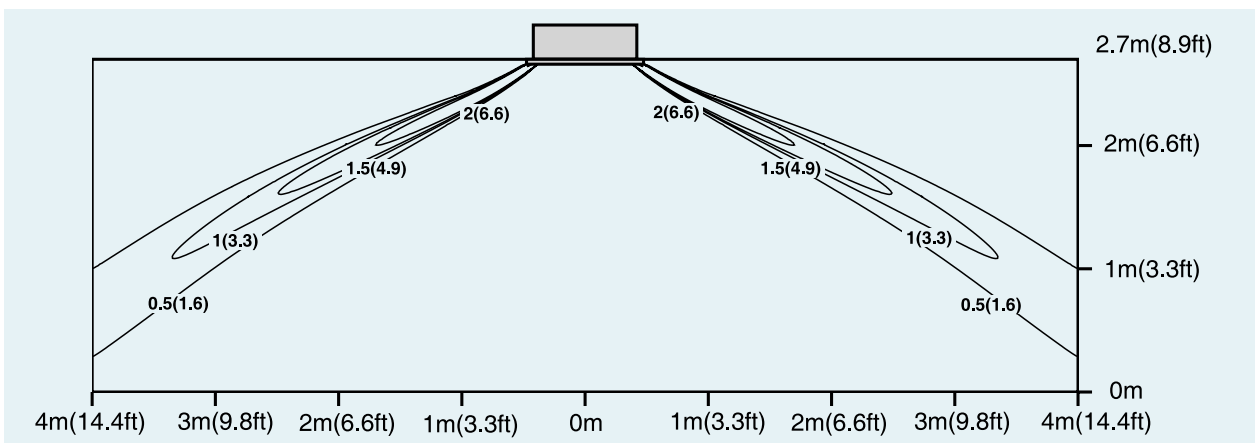
Cooling temperature

Unit: °C (°F)



Cooling velocity

Unit: m/s (ft/s)

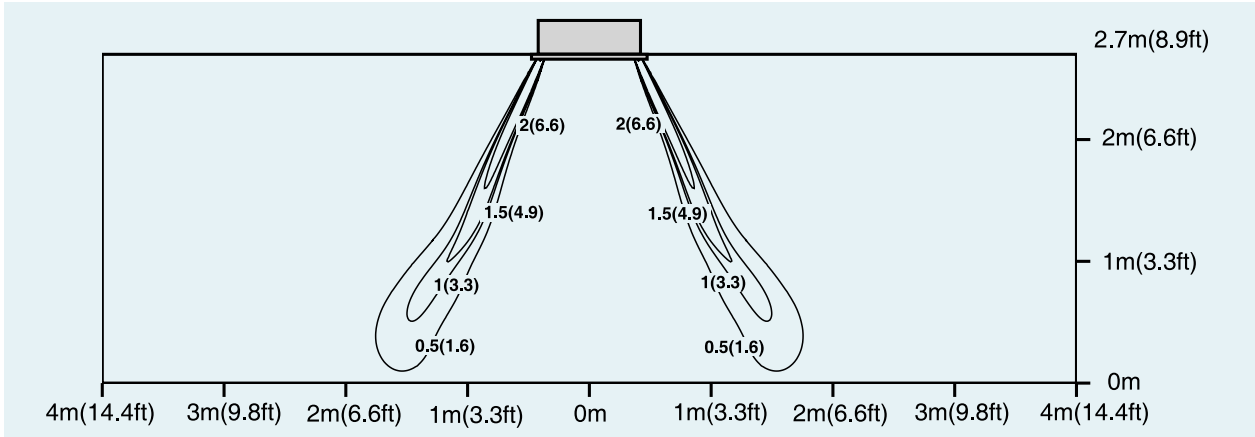




# U-MATCH SERIES AIR CONDITIONERS

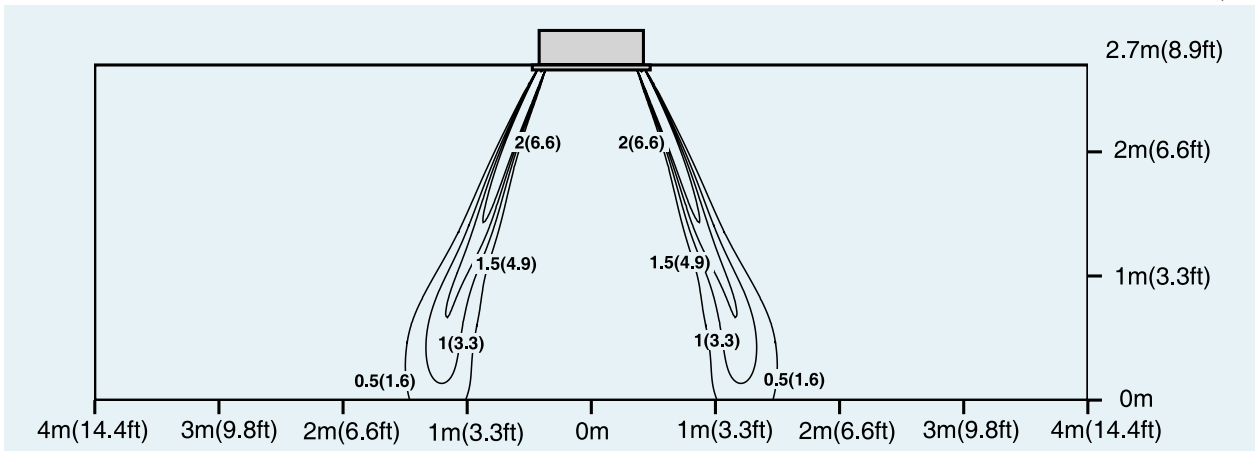
Heating temperature

Unit: °C (°F)



Heating velocity

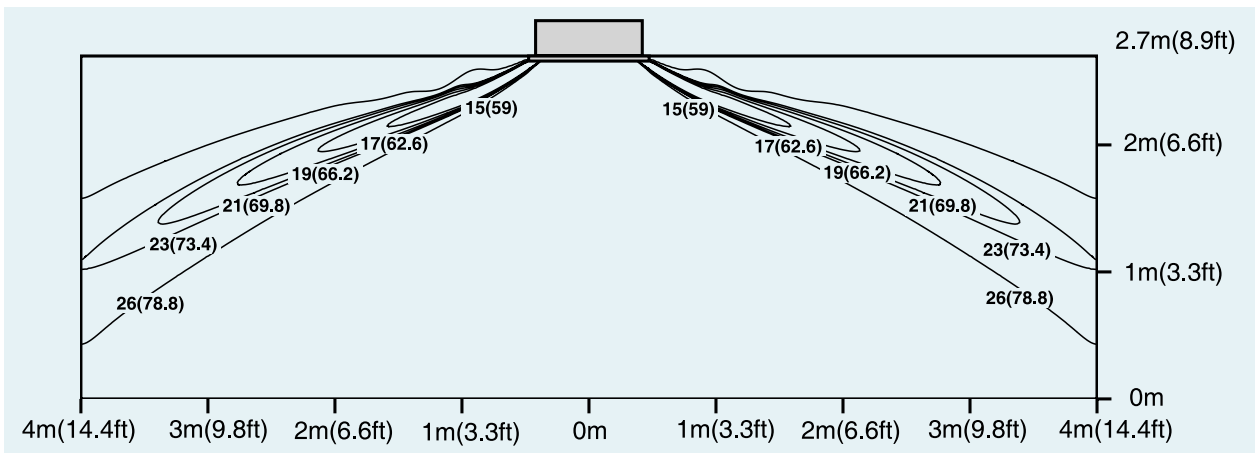
Unit: m/s (ft/s)



GUD160T/A-S

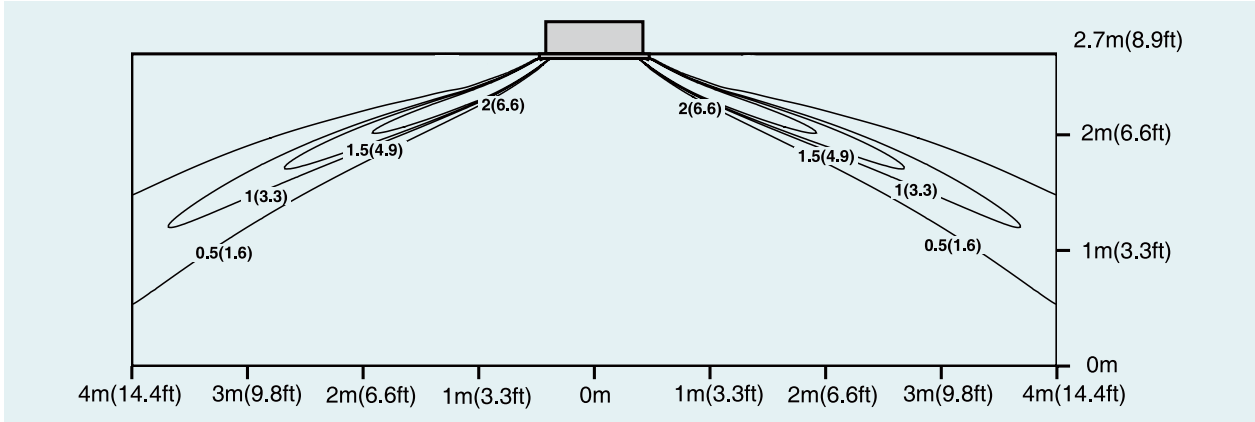
Cooling temperature

Unit: °C (°F)



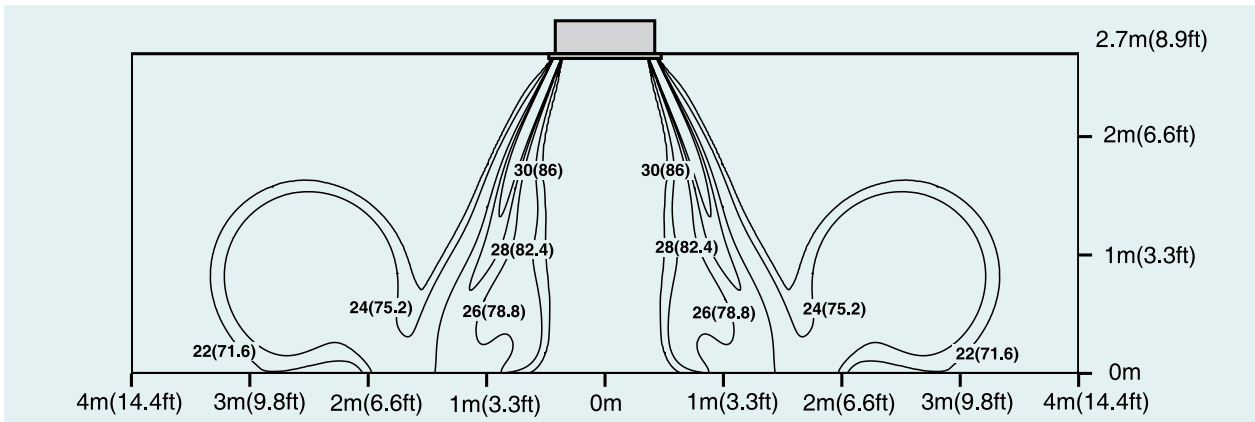
Cooling velocity

Unit: m/s (ft/s)



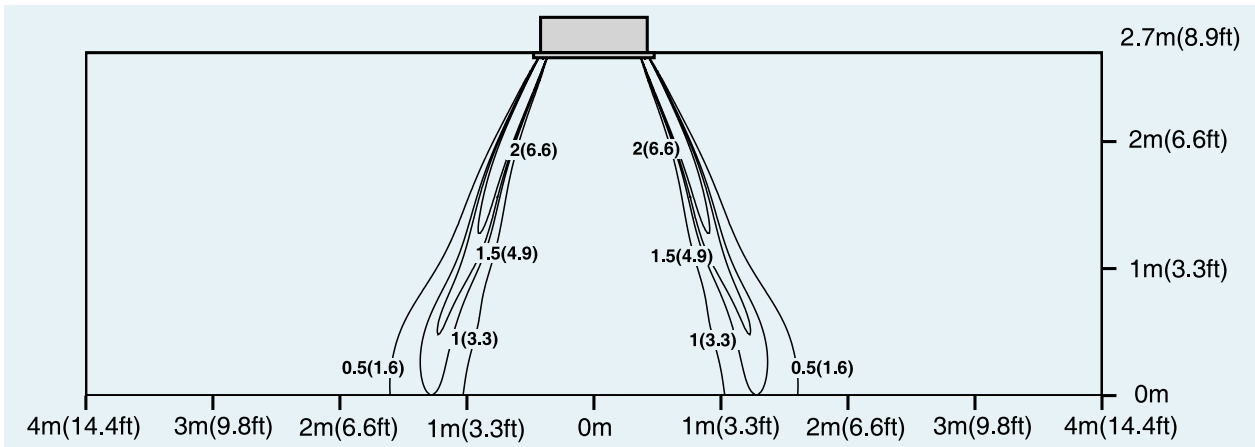
Heating temperature

Unit: °C (°F)



Heating velocity

Unit: m/s (ft/s)



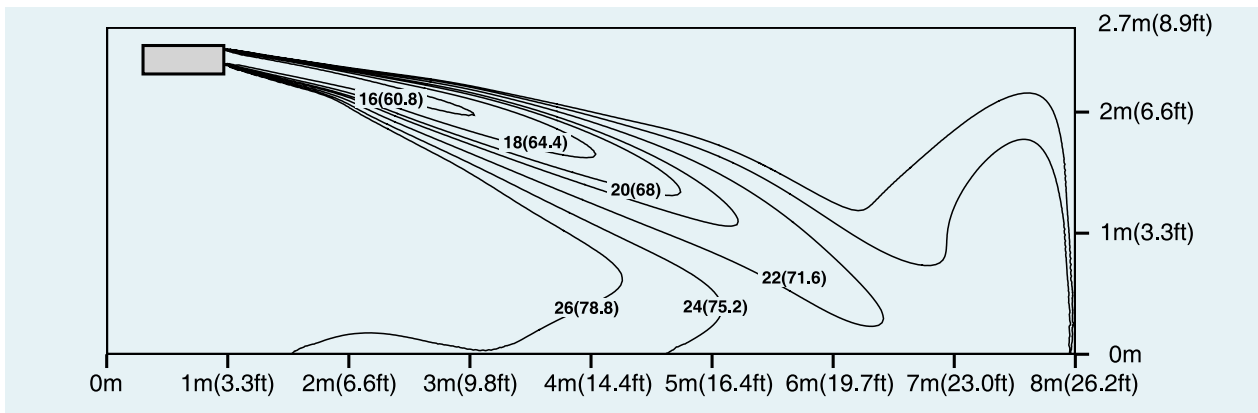


## 8.2 Floor Ceiling Type

GUD35ZD/A-S

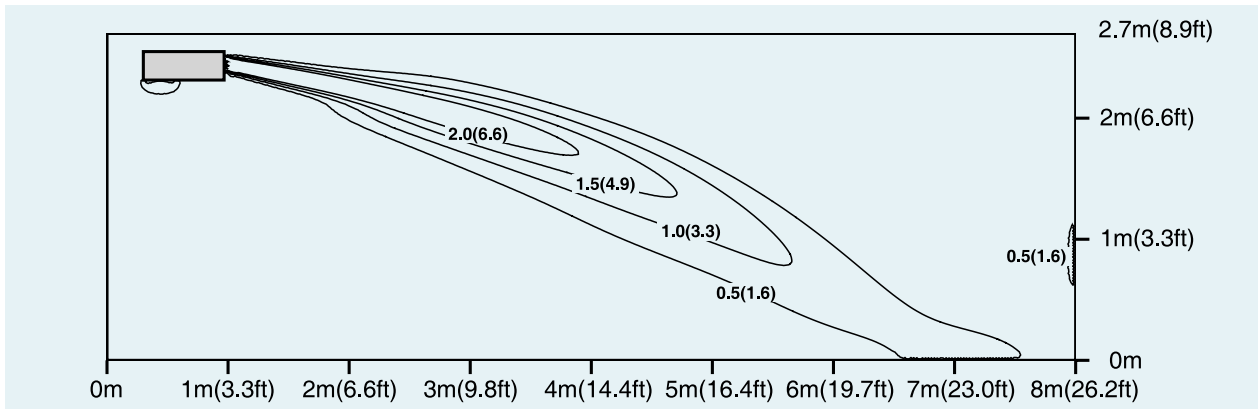
Cooling temperature

Unit: °C (°F)



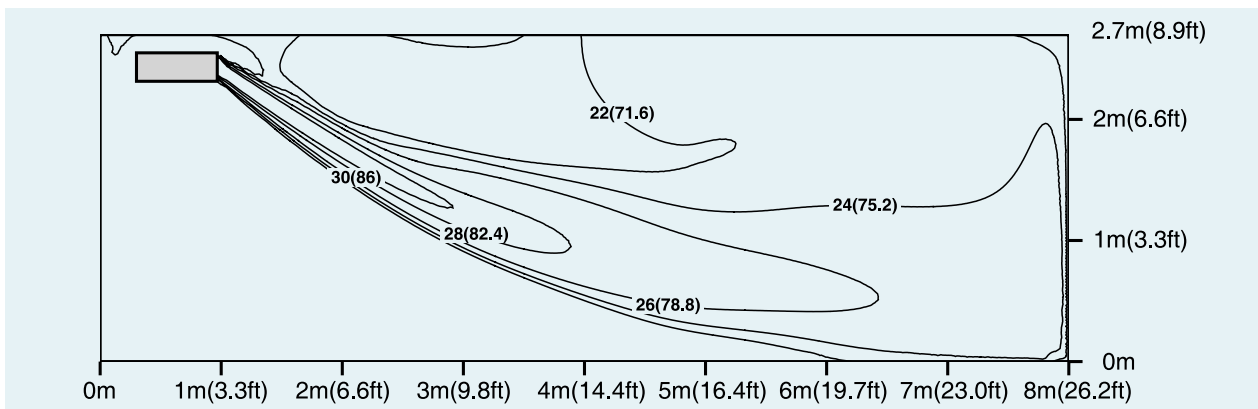
Cooling velocity

Unit: m/s (ft/s)



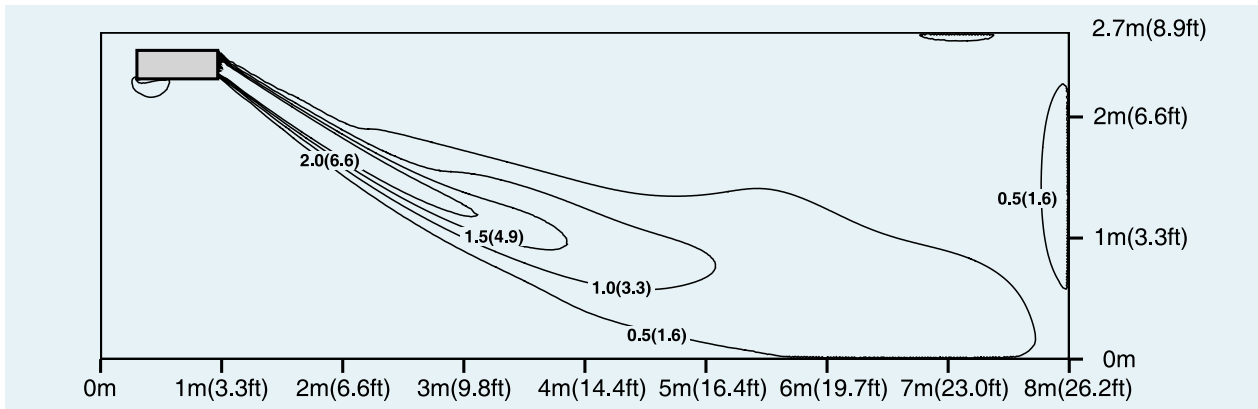
Heating temperature

Unit: °C (°F)



Heating velocity

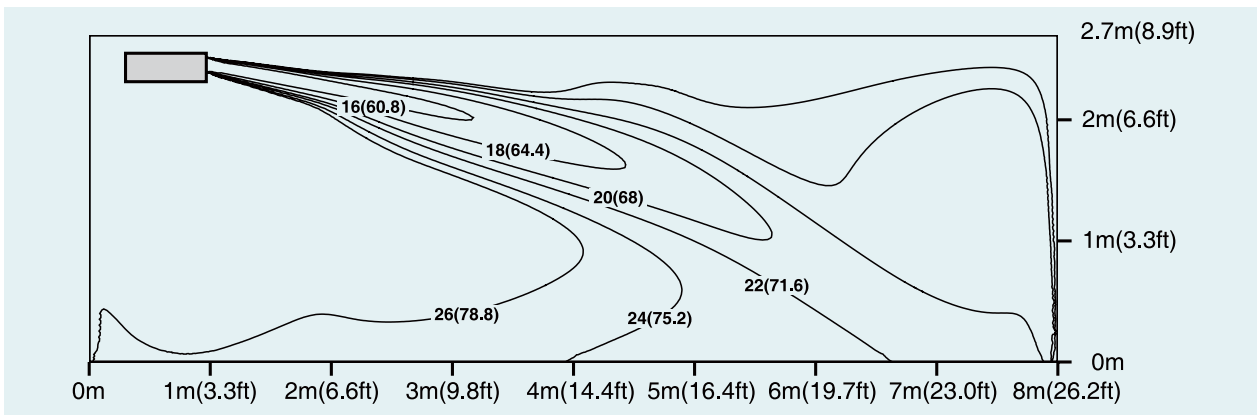
Unit: m/s (ft/s)



GUD50ZD/A-S

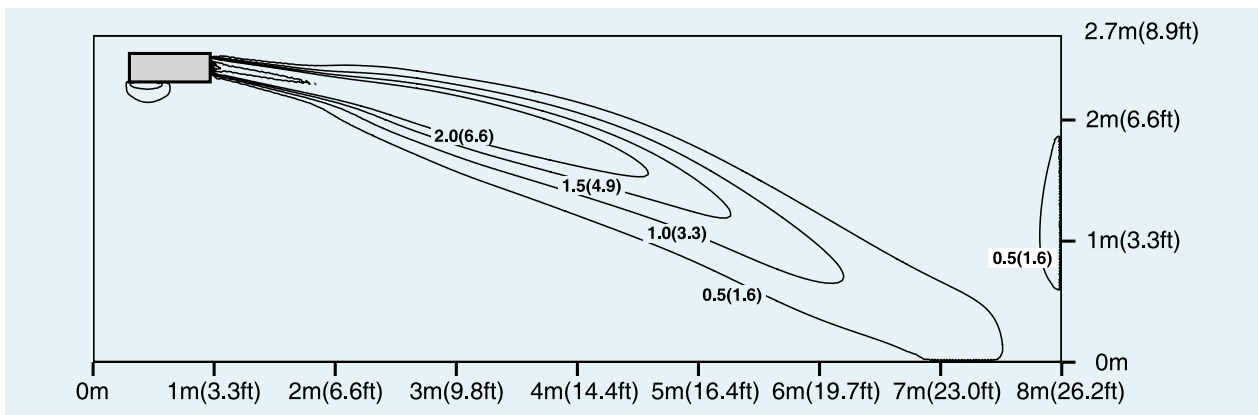
Cooling temperature

Unit: °C (°F)



Cooling velocity

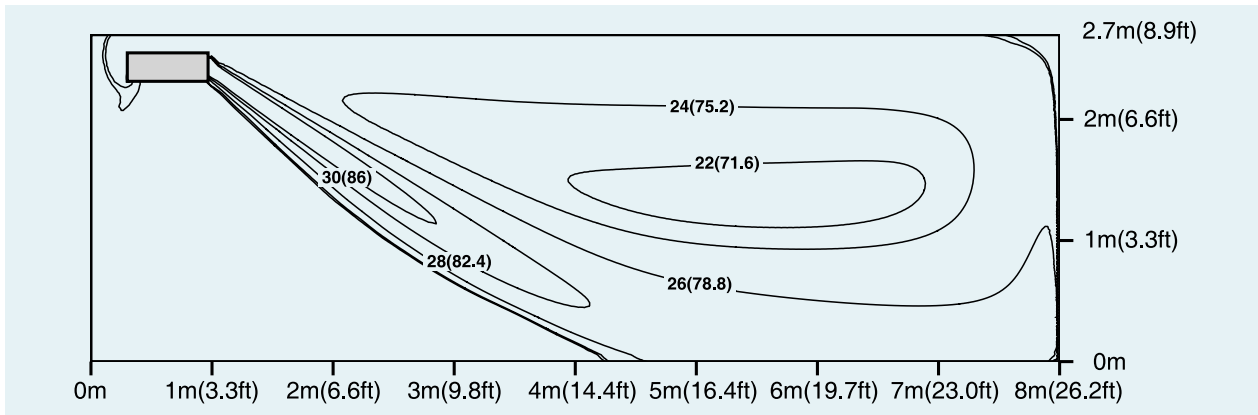
Unit: m/s (ft/s)



# U-MATCH SERIES AIR CONDITIONERS

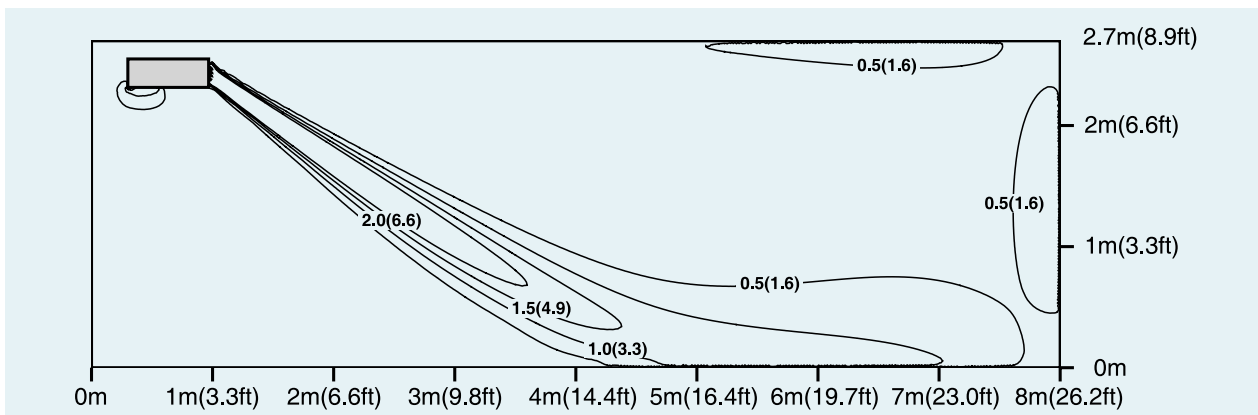
Heating temperature

Unit: °C (°F)



Heating velocity

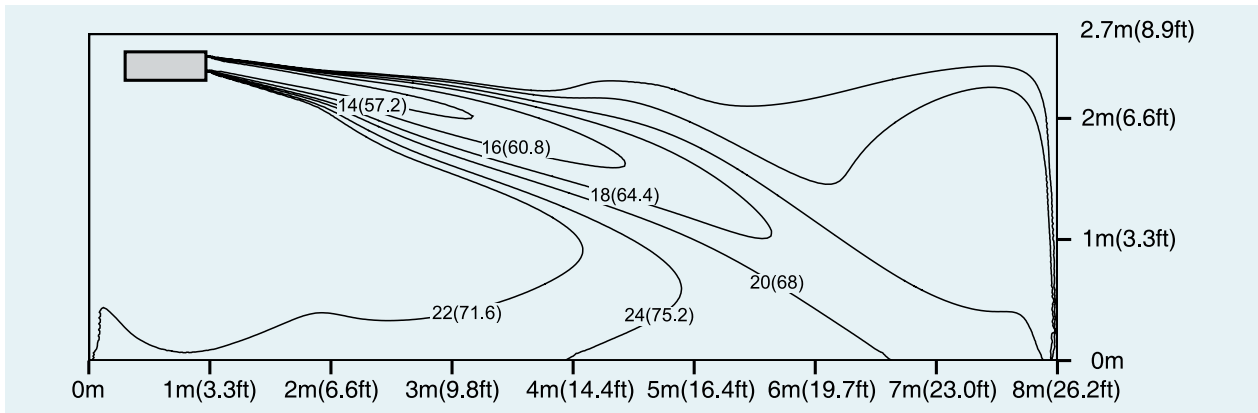
Unit: m/s (ft/s)



## GUD71ZD/A1-S

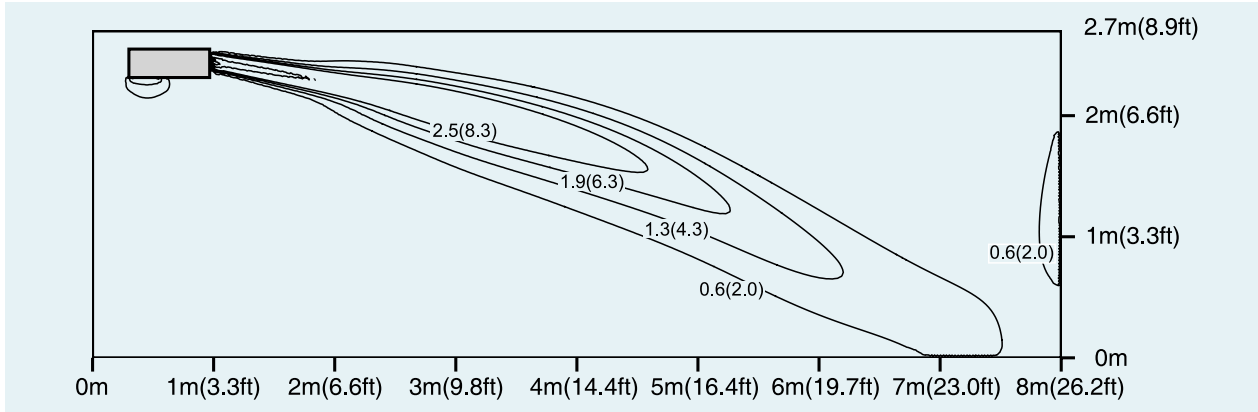
Cooling temperature

Unit: °C (°F)



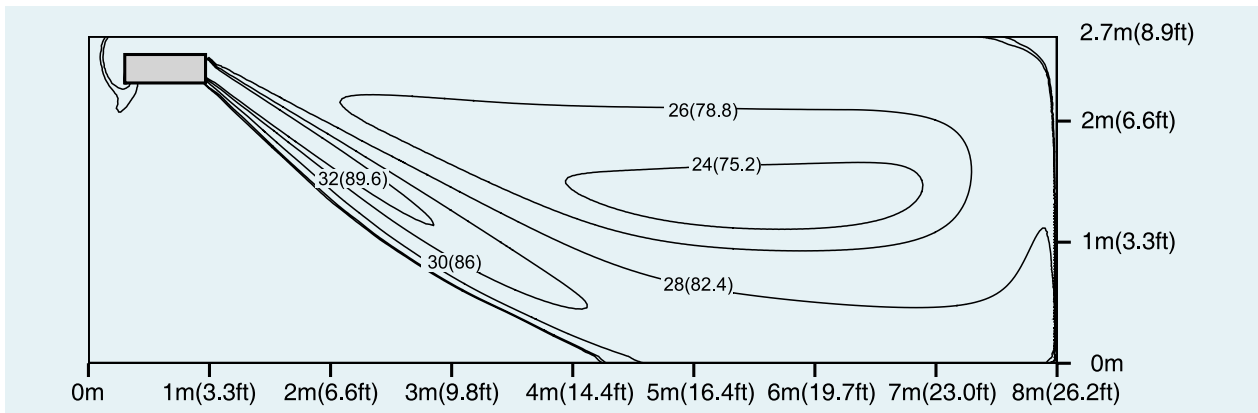
Cooling velocity

Unit: m/s (ft/s)



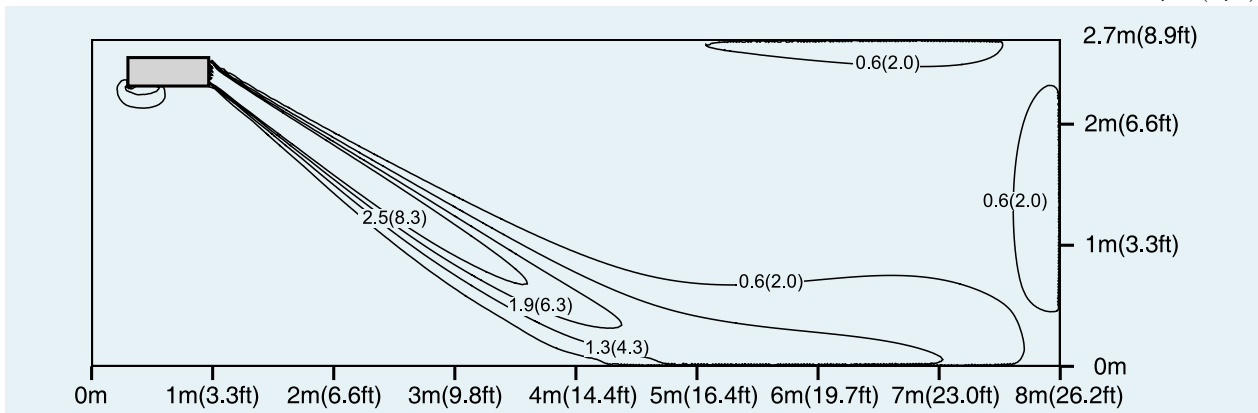
Heating temperature

Unit: °C (°F)



Heating velocity

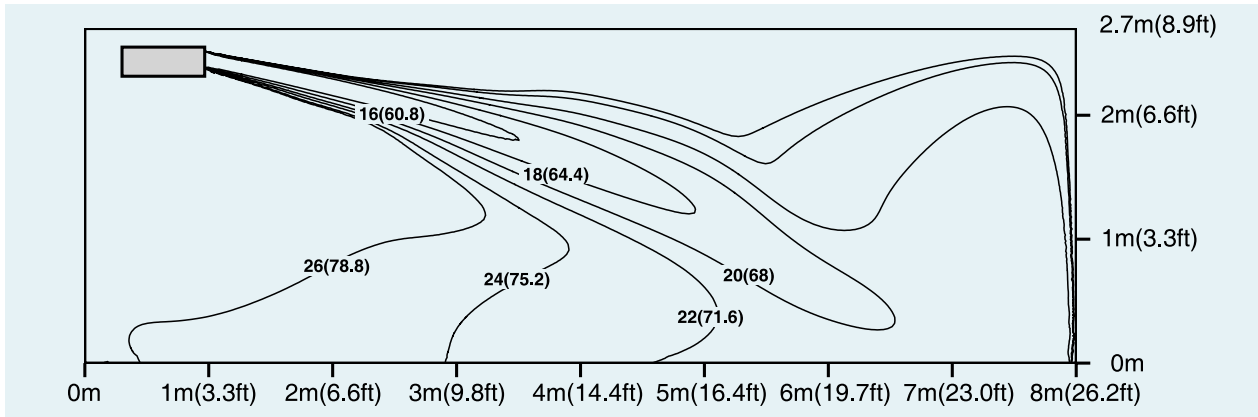
Unit: m/s (ft/s)



# U-MATCH SERIES AIR CONDITIONERS

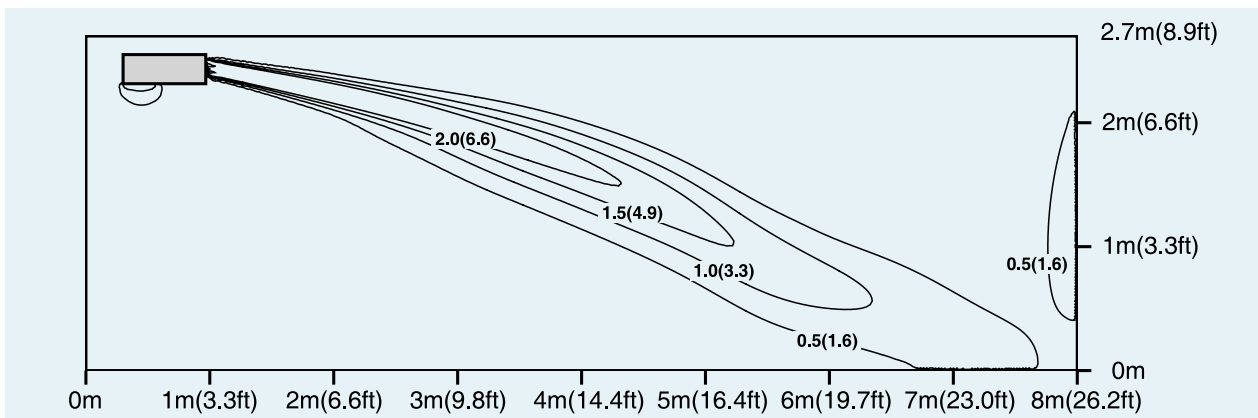
GUD71ZD/A-S;  
Cooling temperature

Unit: °C (°F)



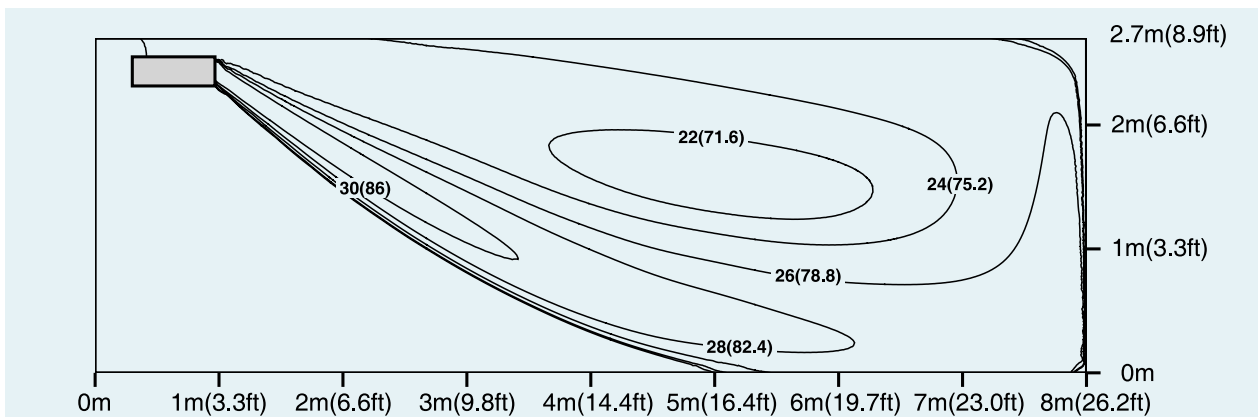
Cooling velocity

Unit: m/s (ft/s)



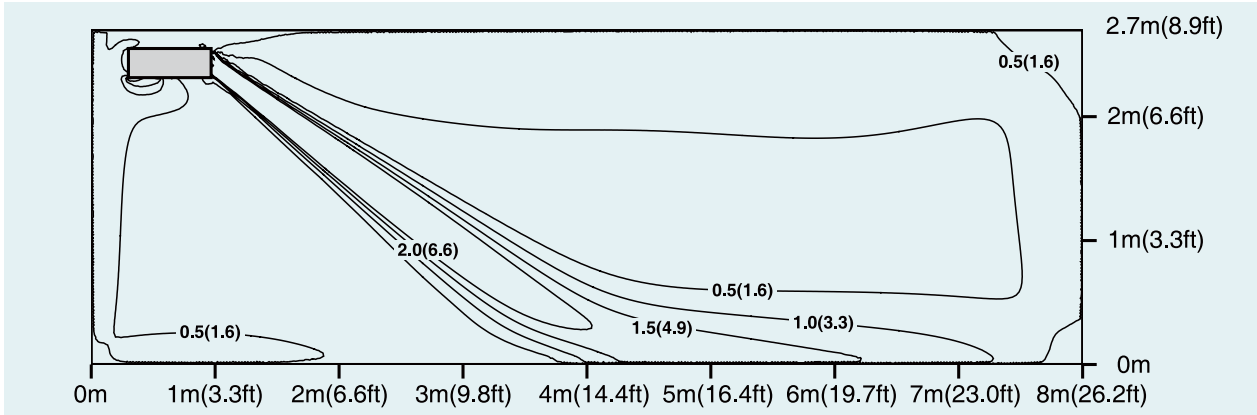
Heating temperature

Unit: °C (°F)



Heating velocity

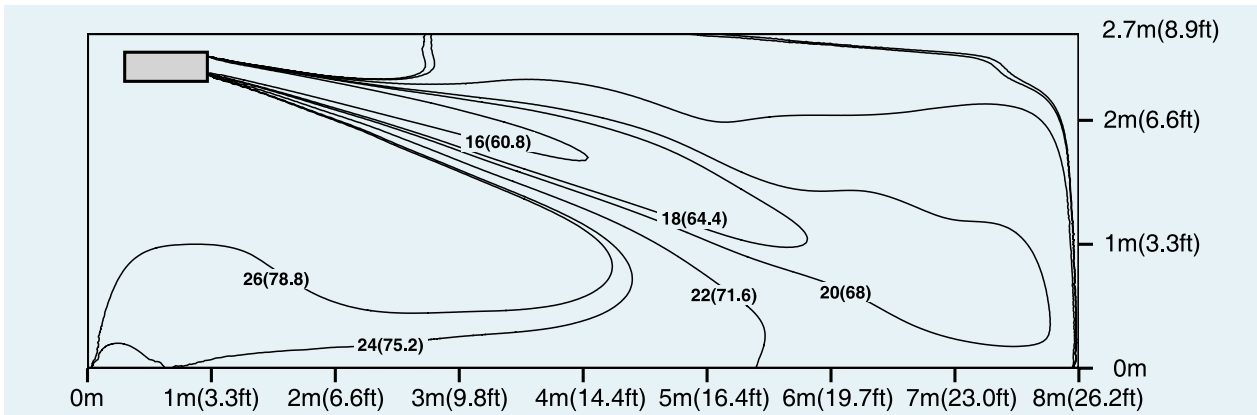
Unit: m/s (ft/s)



GUD100ZD/A-S;GUD125ZD/A-S

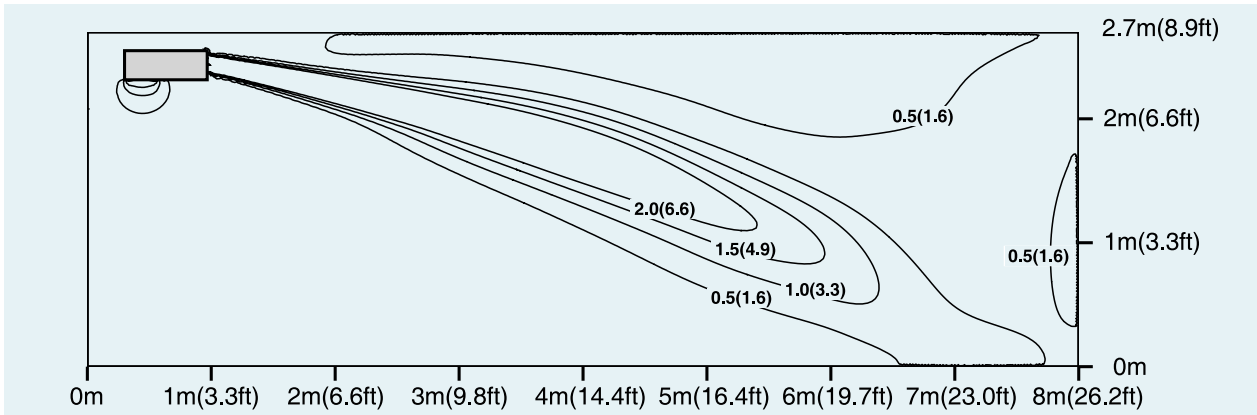
Cooling temperature

Unit: °C (°F)



Cooling velocity

Unit: m/s (ft/s)

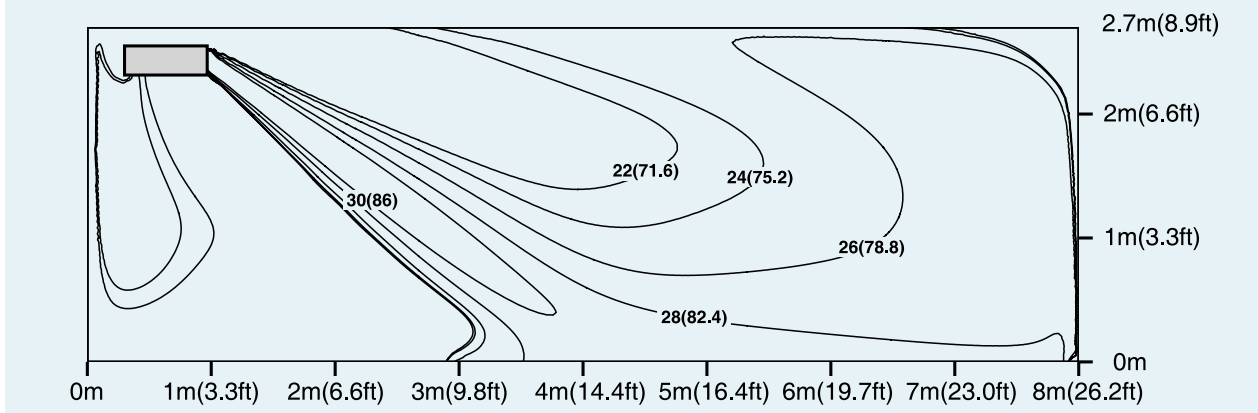




# U-MATCH SERIES AIR CONDITIONERS

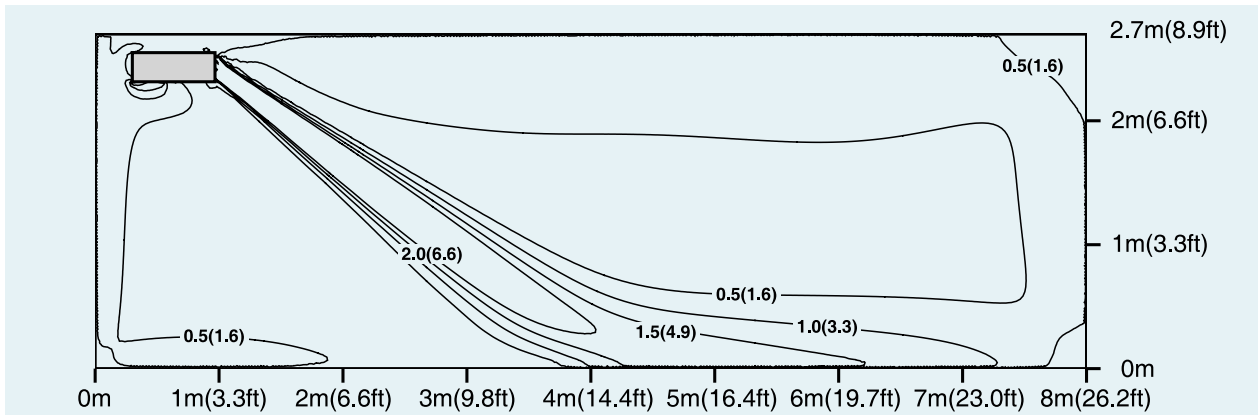
Heating temperature

Unit: °C (°F)



Heating velocity

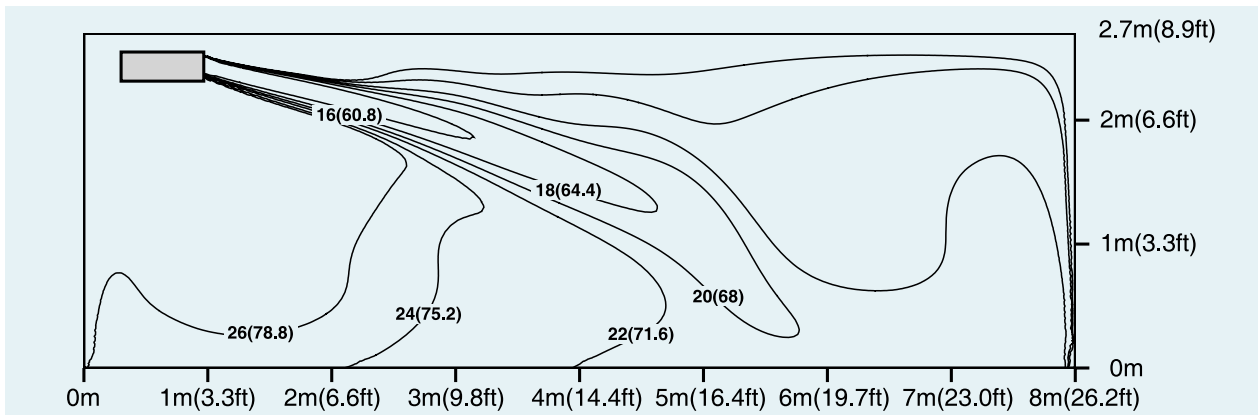
Unit: m/s (ft/s)



GUD140ZD/A-S;

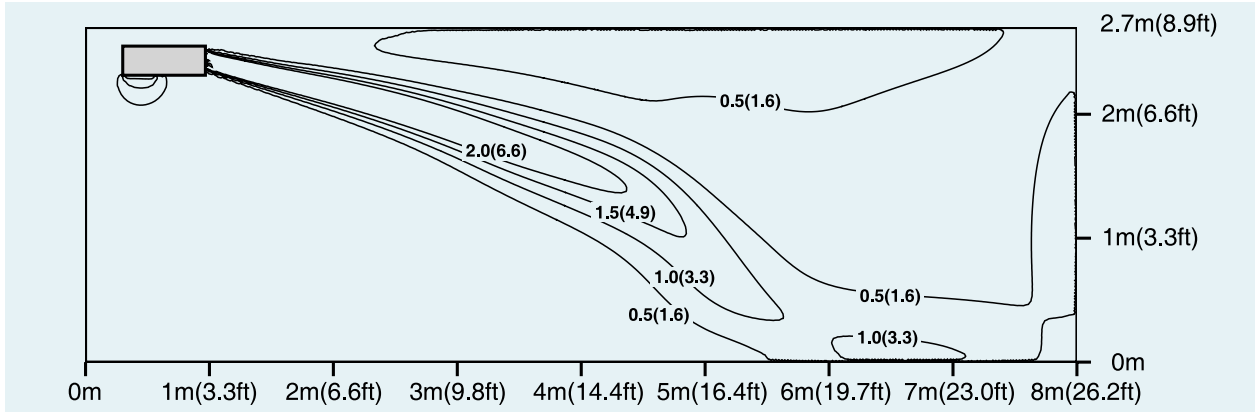
Cooling temperature

Unit: °C (°F)



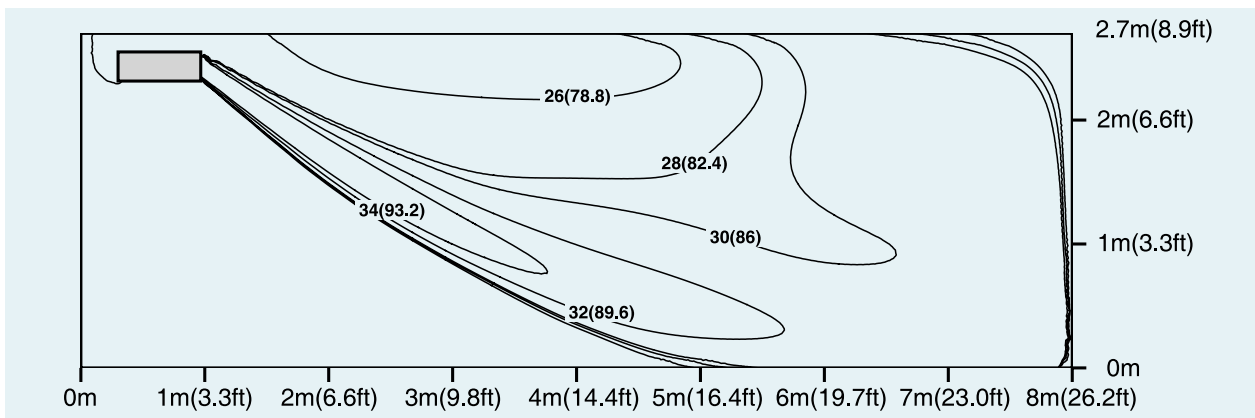
Cooling velocity

Unit: m/s (ft/s)



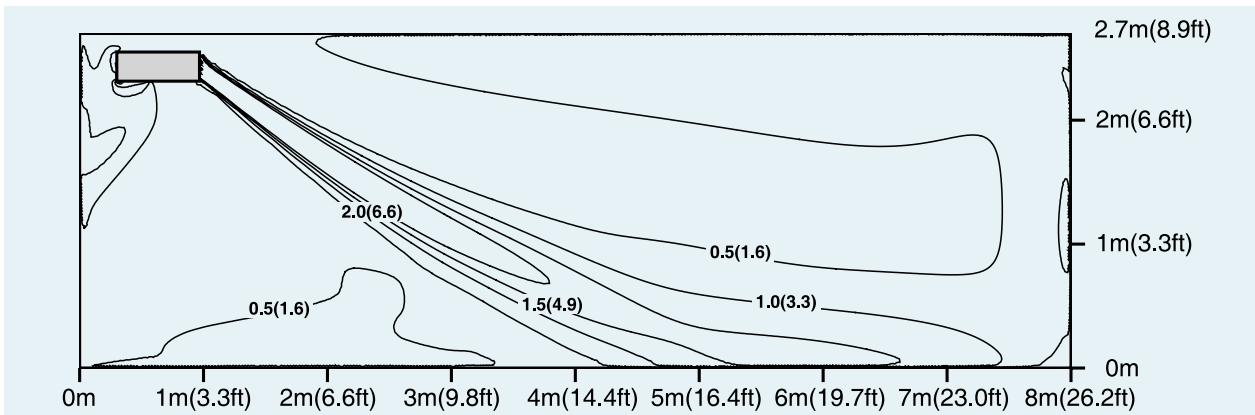
Heating temperature

Unit: °C (°F)



Heating velocity

Unit: m/s (ft/s)

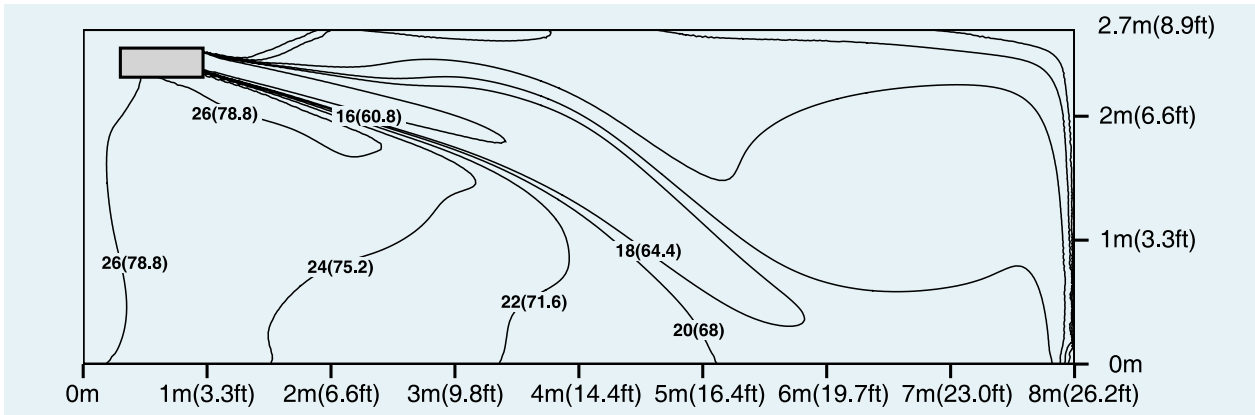


# U-MATCH SERIES AIR CONDITIONERS

GUD160ZD/A-S

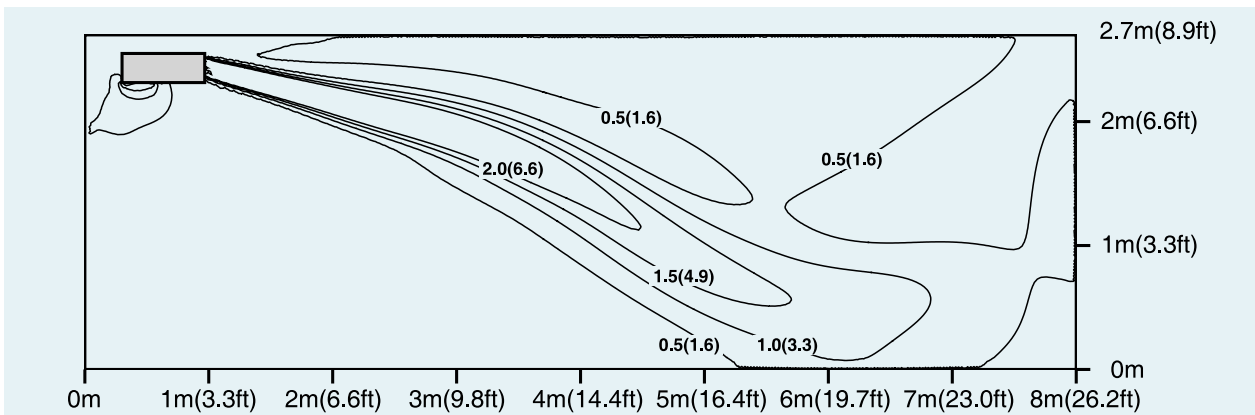
Cooling temperature

Unit: °C (°F)



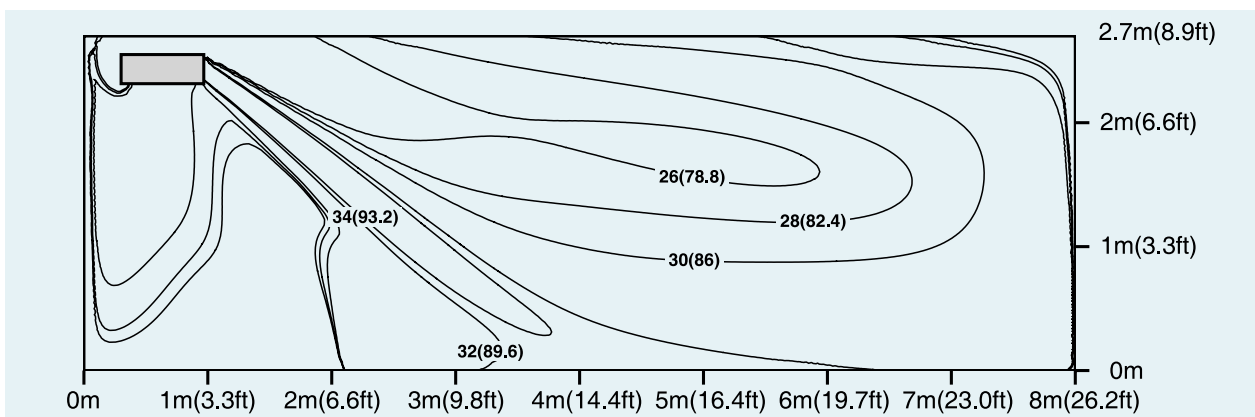
Cooling velocity

Unit: m/s (ft/s)



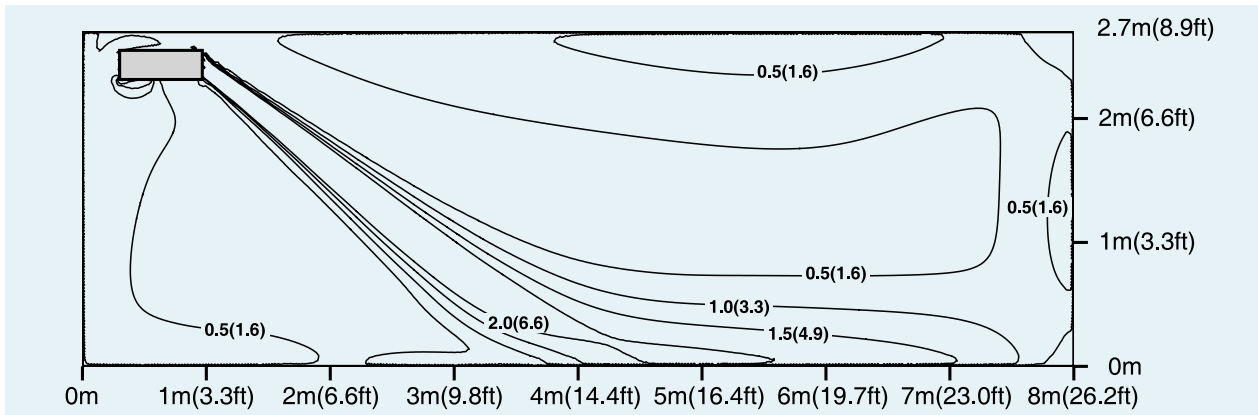
Heating temperature

Unit: °C (°F)



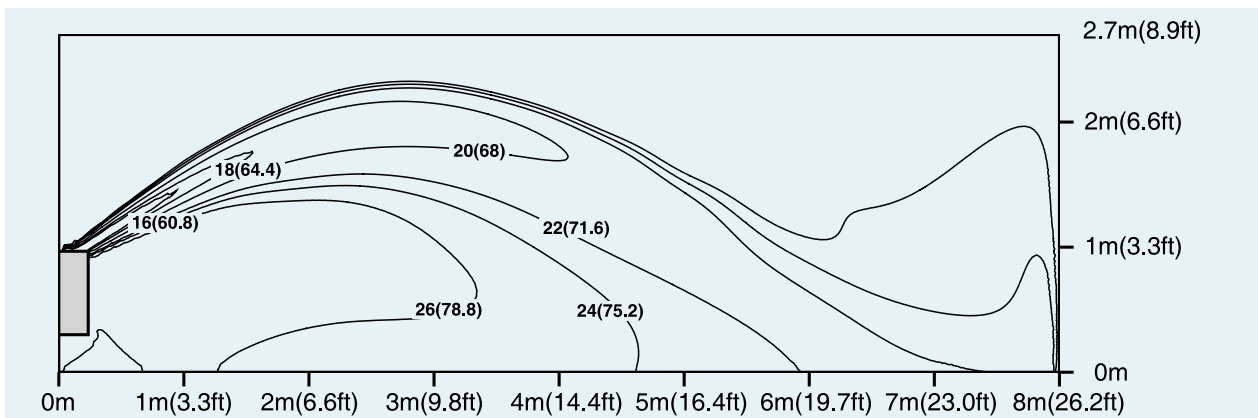
Heating velocity

Unit: m/s (ft/s)



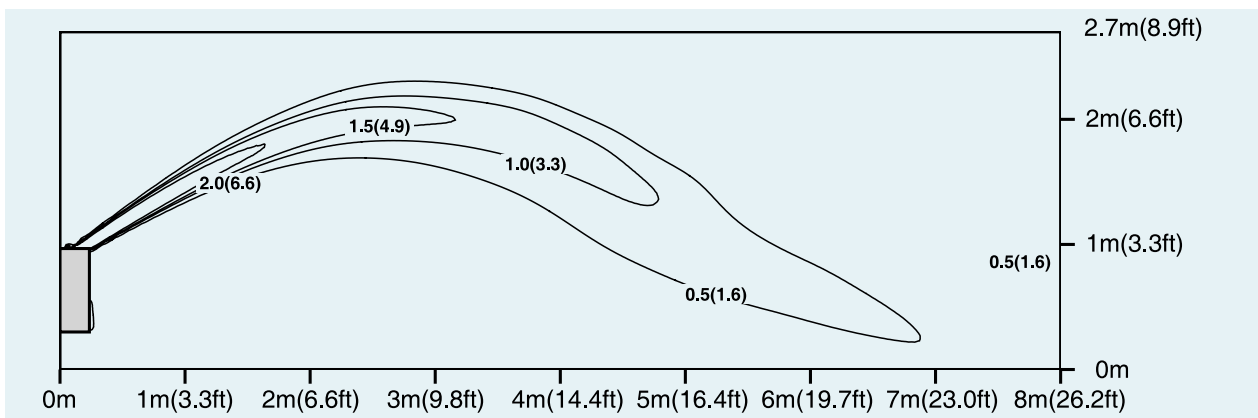
GUD35ZD/A-S  
Cooling temperature

Unit: °C (°F)



Cooling velocity

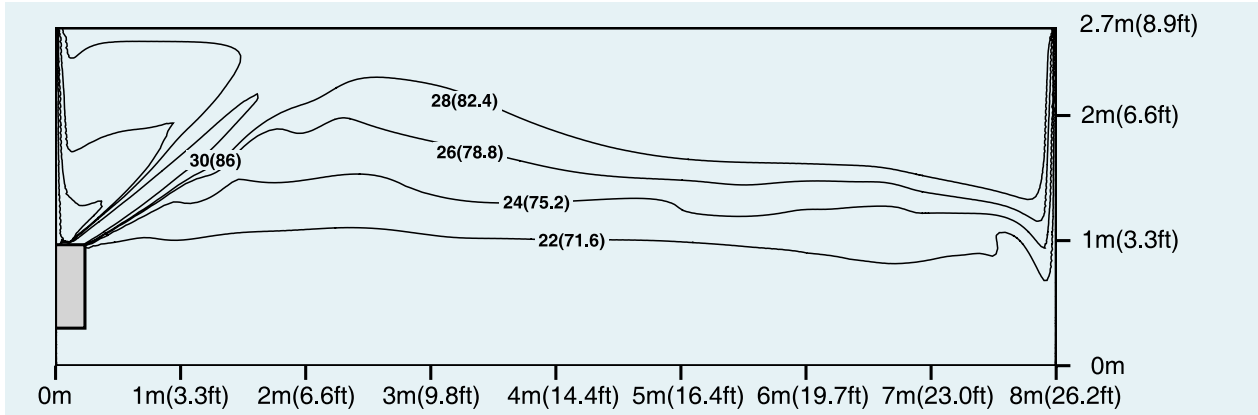
Unit: m/s (ft/s)



# U-MATCH SERIES AIR CONDITIONERS

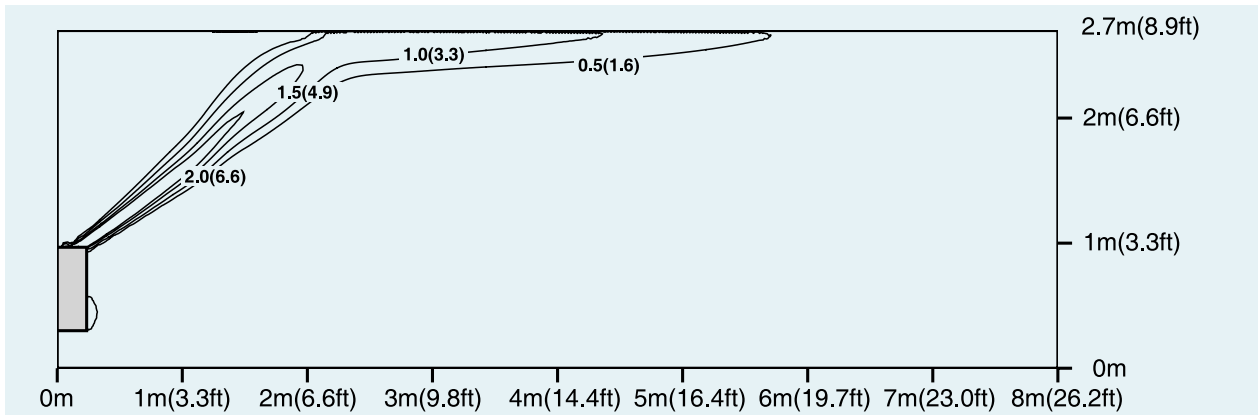
Heating temperature

Unit: °C (°F)



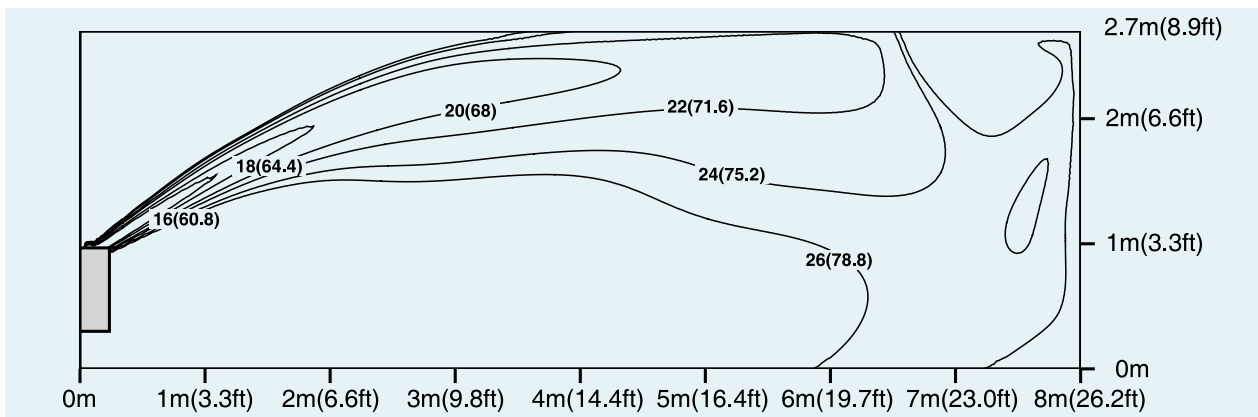
Heating velocity

Unit: m/s (ft/s)



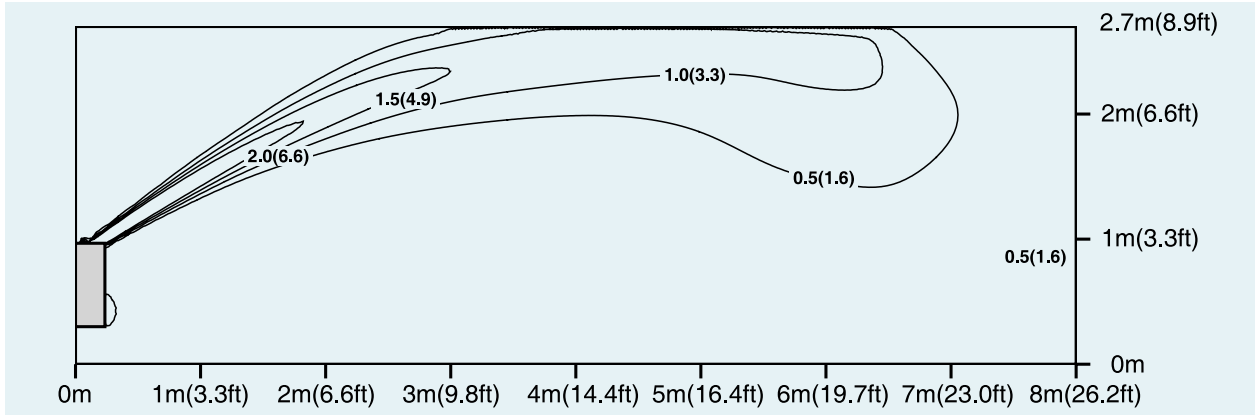
GUD50ZD/A-S  
Cooling temperature

Unit: °C (°F)



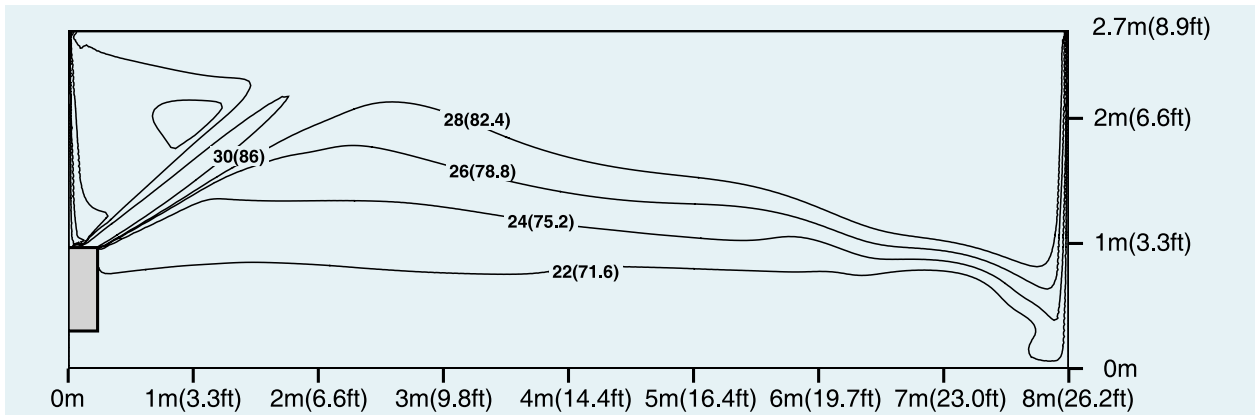
Cooling velocity

Unit: m/s (ft/s)



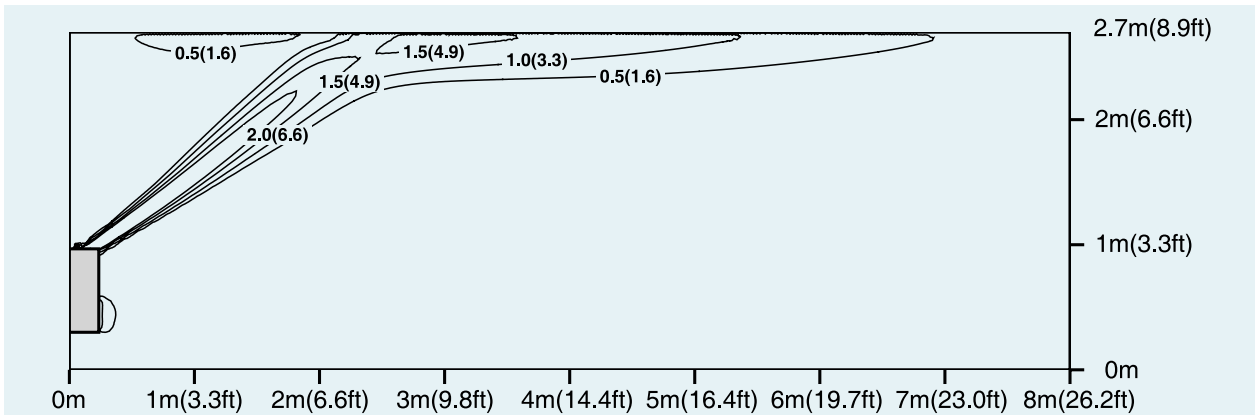
Heating temperature

Unit: °C (°F)



Heating velocity

Unit: m/s (ft/s)

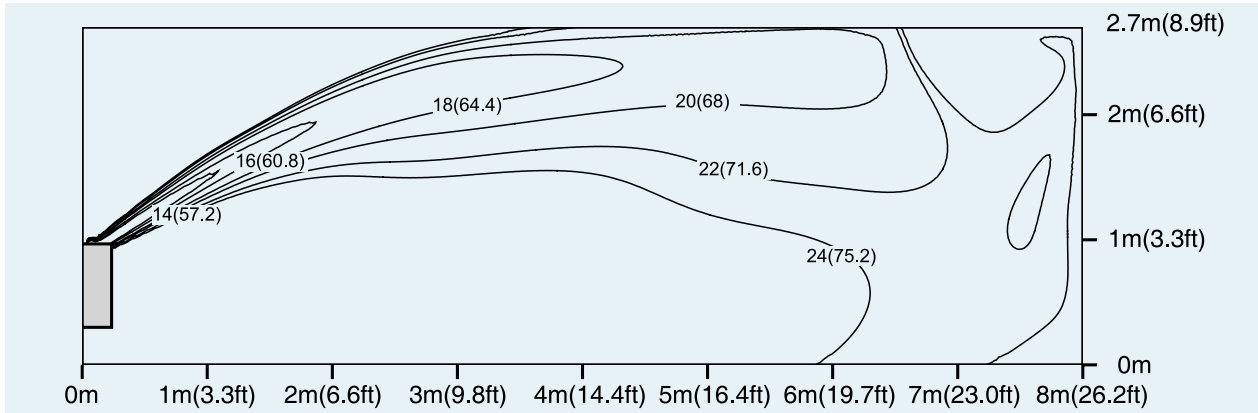


# U-MATCH SERIES AIR CONDITIONERS

GUD71ZD/A1-S

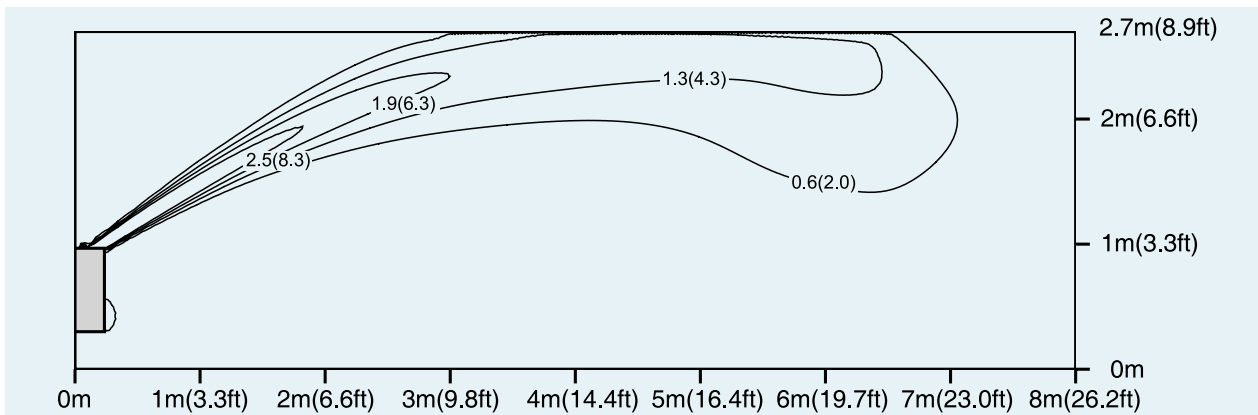
Cooling temperature

Unit: °C (°F)



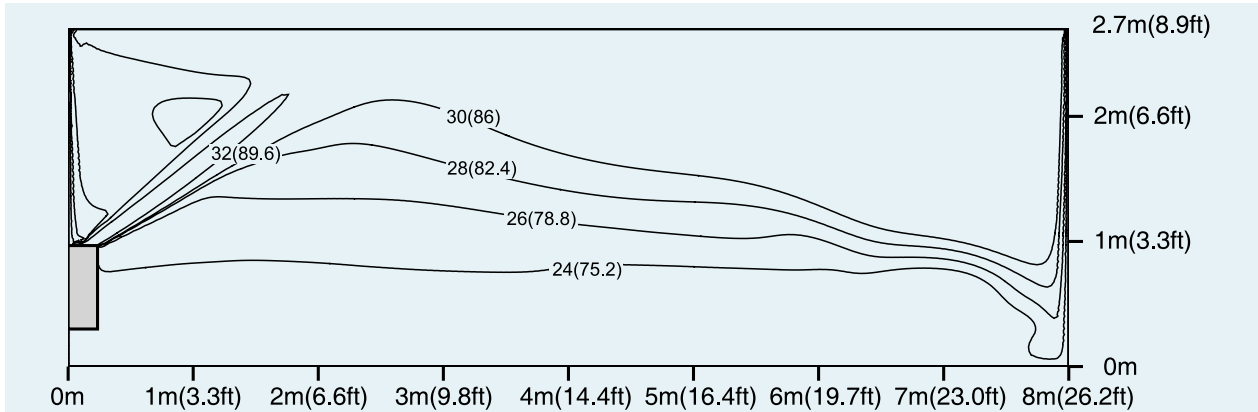
Cooling velocity

Unit: m/s (ft/s)



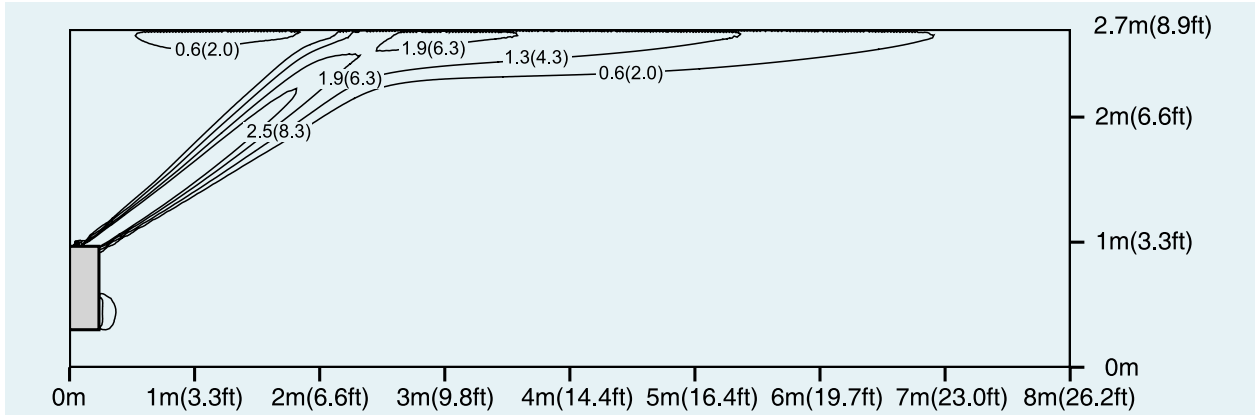
Heating temperature

Unit: °C (°F)



Heating velocity

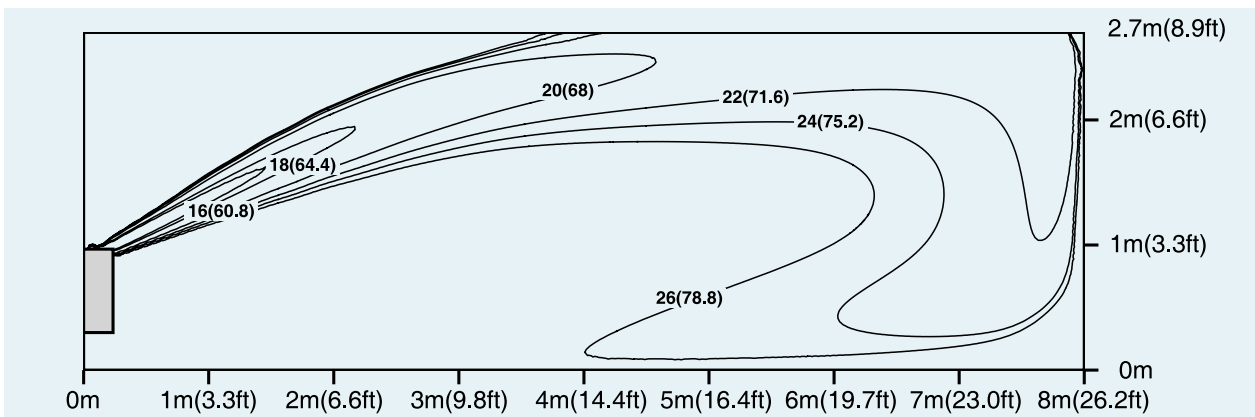
Unit: m/s (ft/s)



GUD71ZD/A-S

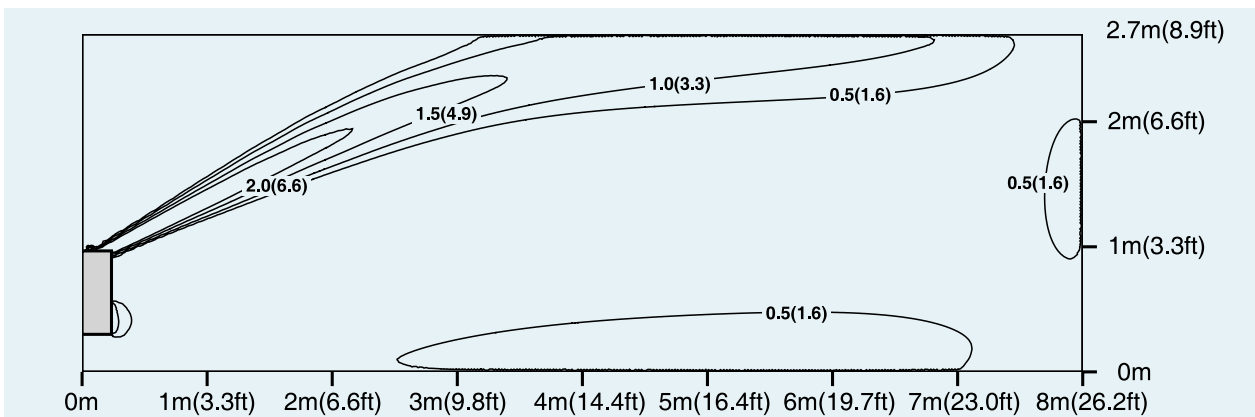
Cooling temperature

Unit: °C (°F)



Cooling velocity

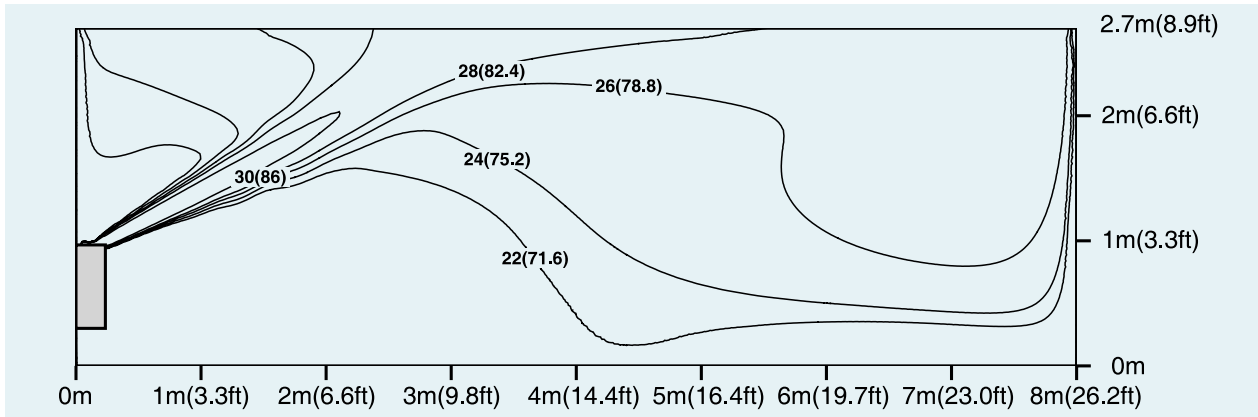
Unit: m/s (ft/s)





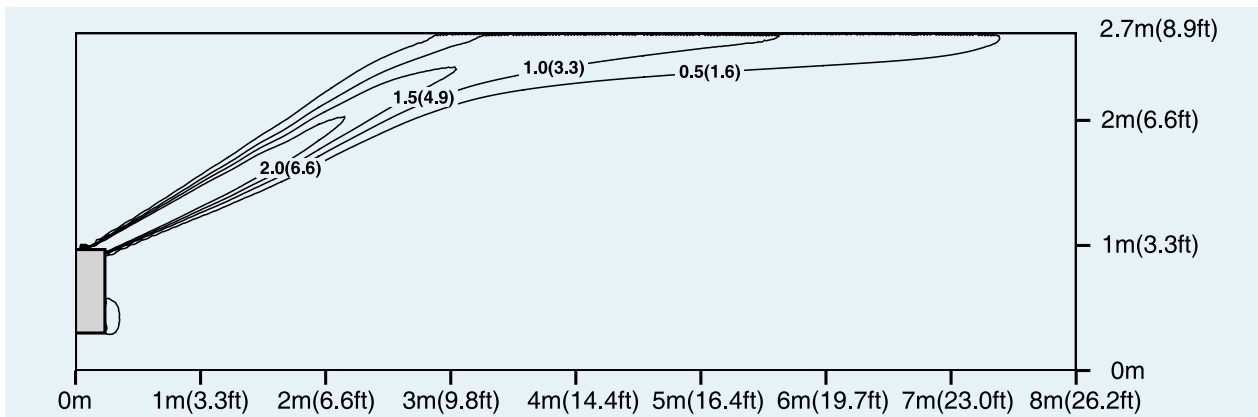
Heating temperature

Unit: °C (°F)



Heating velocity

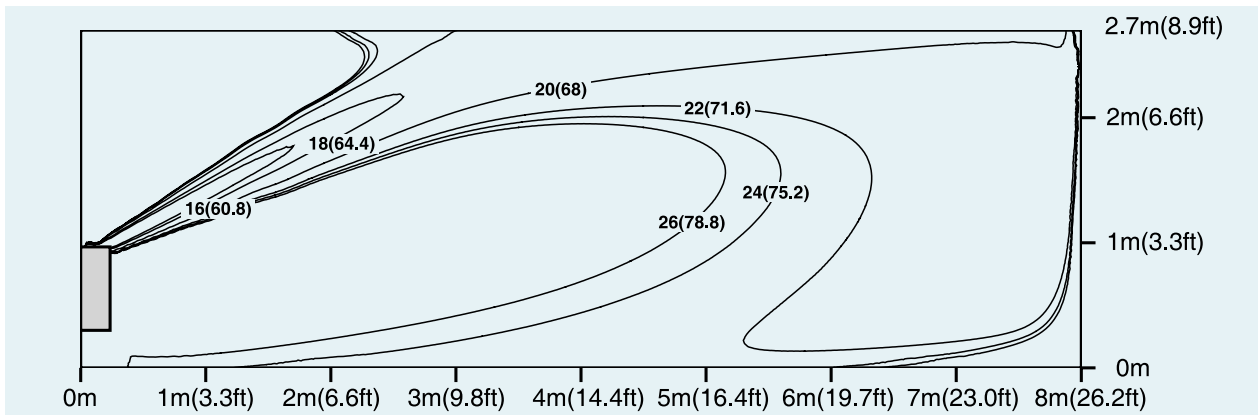
Unit: m/s (ft/s)



GUD100ZD/A-S;GUD125ZD/A-S

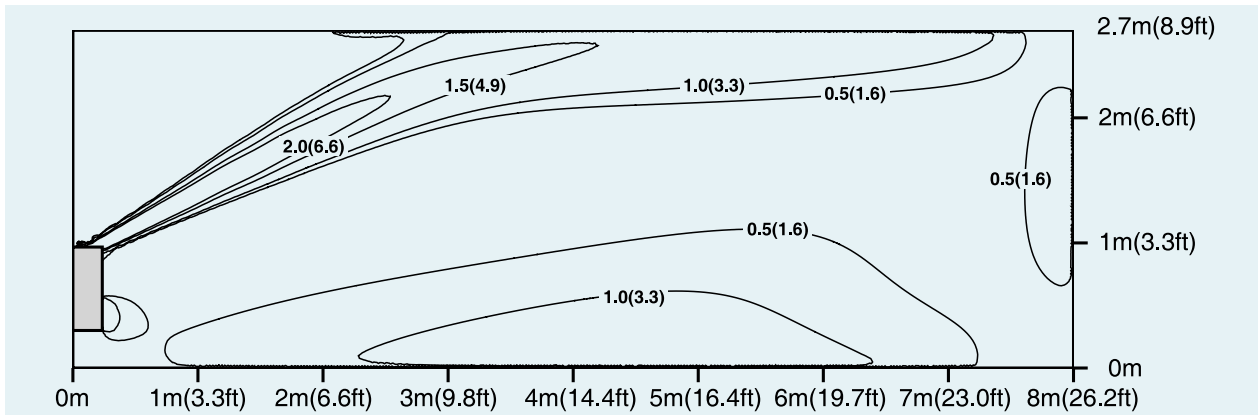
Cooling temperature

Unit: °C (°F)



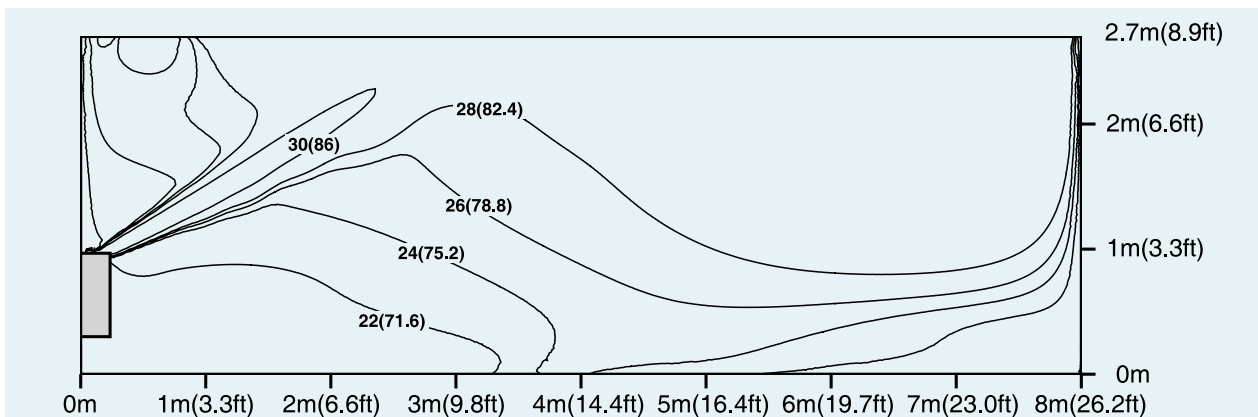
Cooling velocity

Unit: m/s (ft/s)



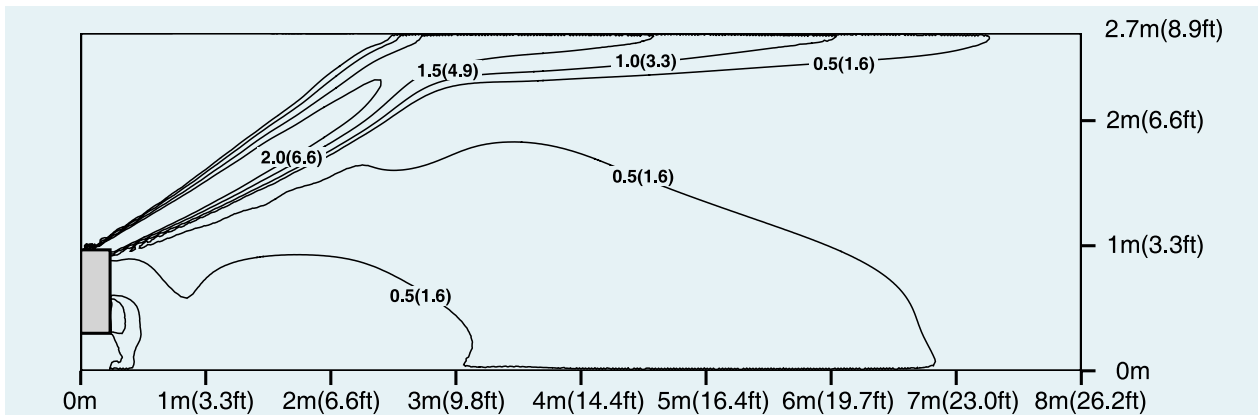
Heating temperature

Unit: °C (°F)



Heating velocity

Unit: m/s (ft/s)

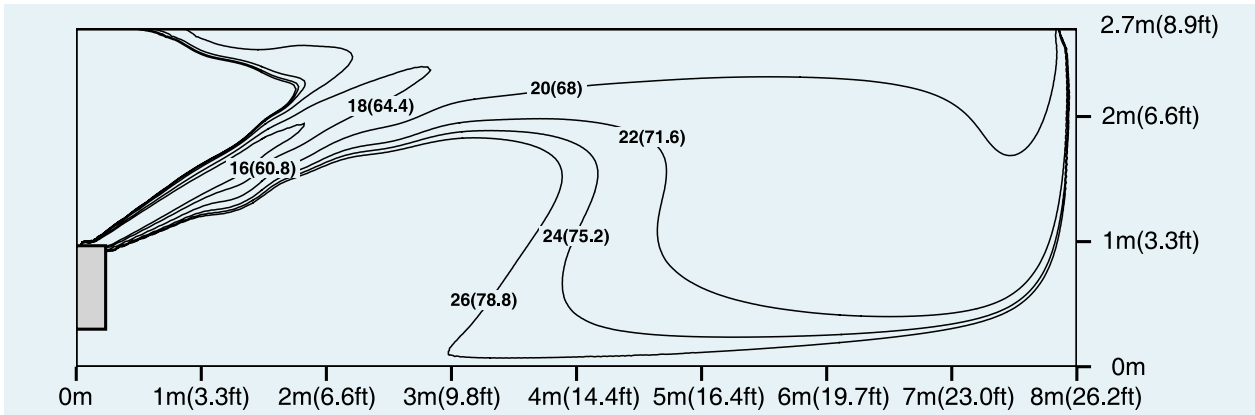


# U-MATCH SERIES AIR CONDITIONERS

GUD140ZD/A-S

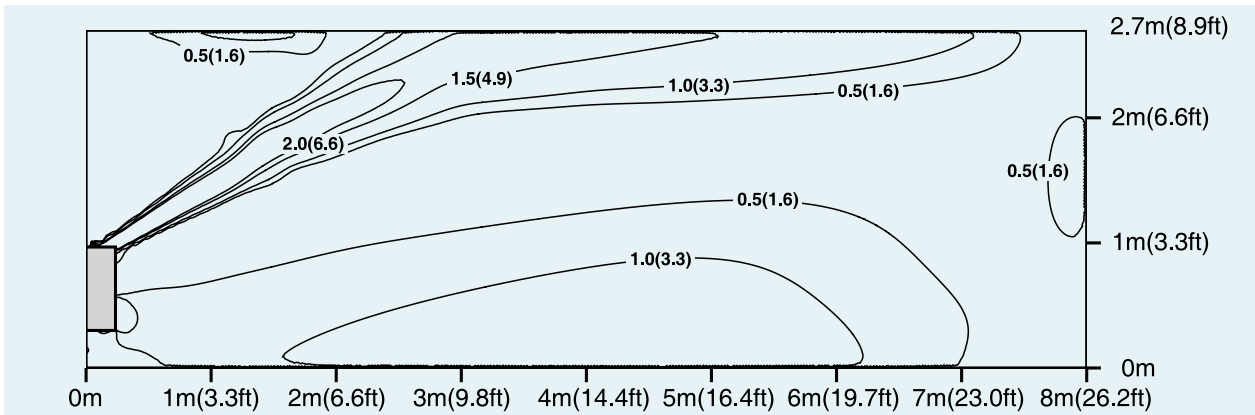
Cooling temperature

Unit: °C (°F)



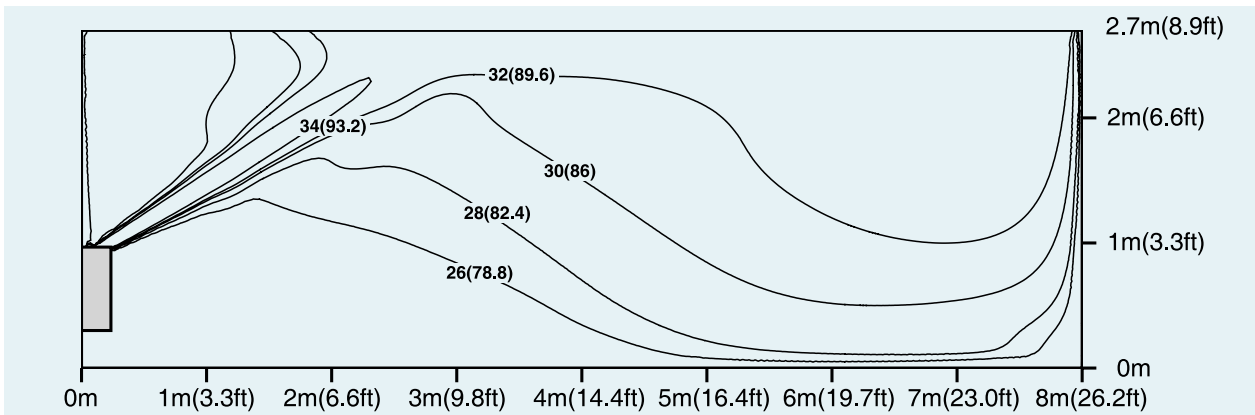
Cooling velocity

Unit: m/s (ft/s)



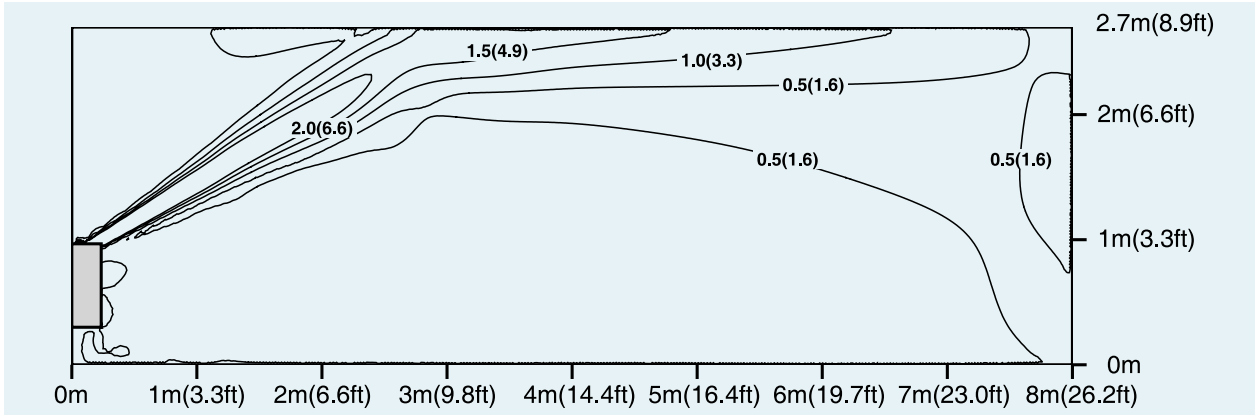
Heating temperature

Unit: °C (°F)



Heating velocity

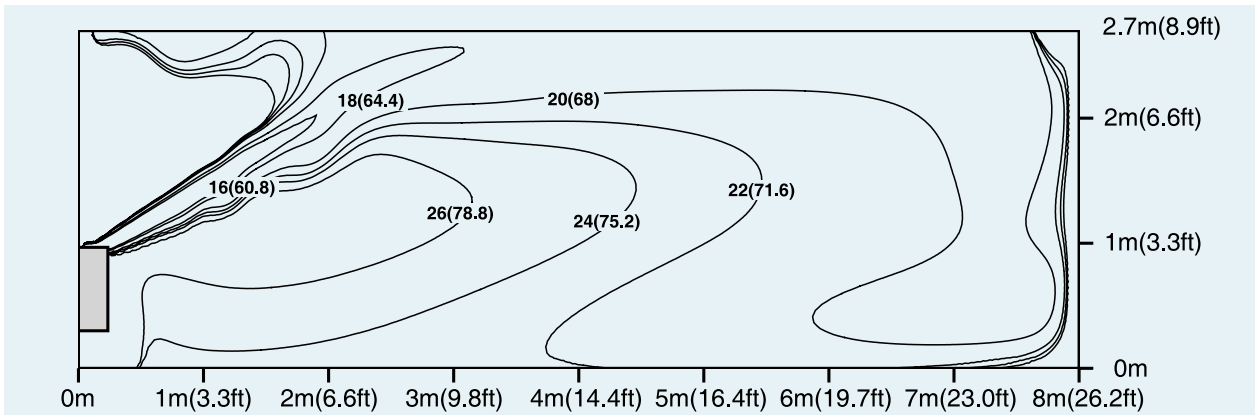
Unit: m/s (ft/s)



GUD160ZD/A-S

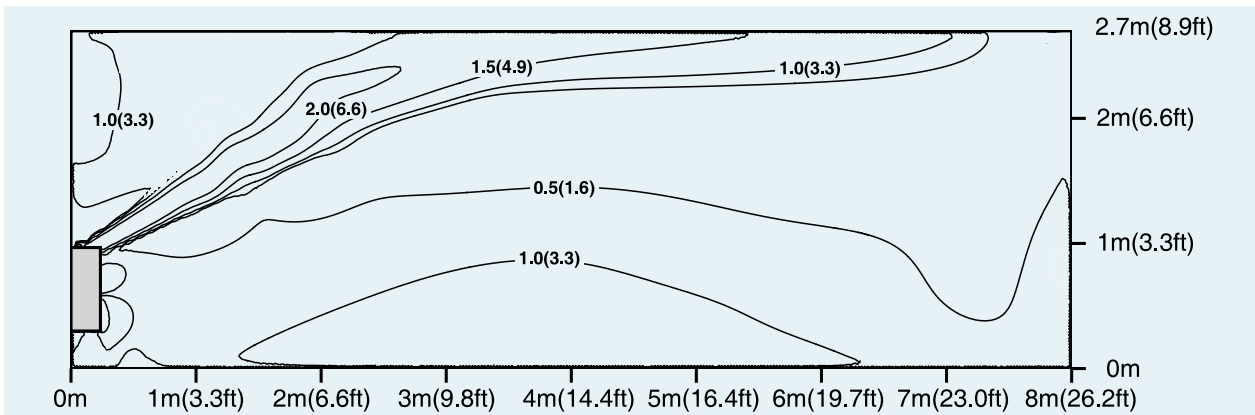
Cooling temperature

Unit: °C (°F)



Cooling velocity

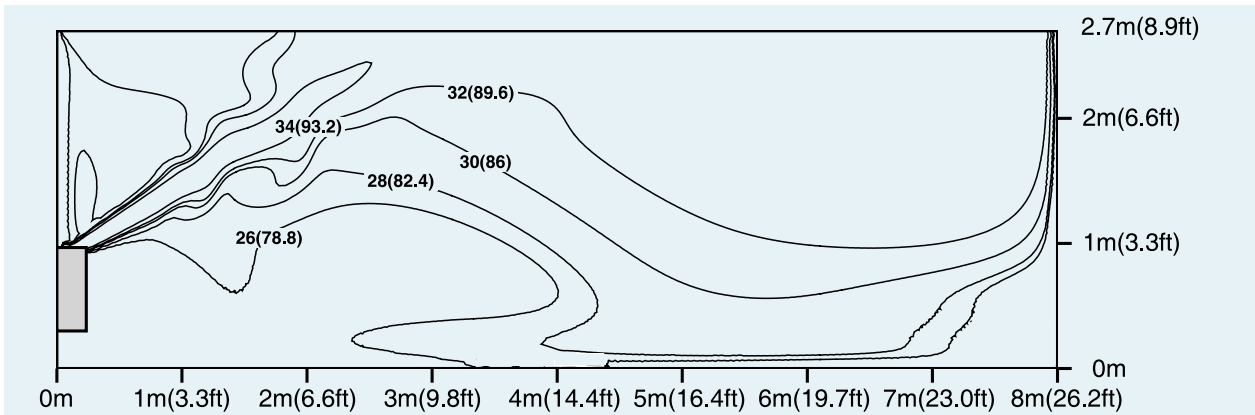
Unit: m/s (ft/s)



# U-MATCH SERIES AIR CONDITIONERS

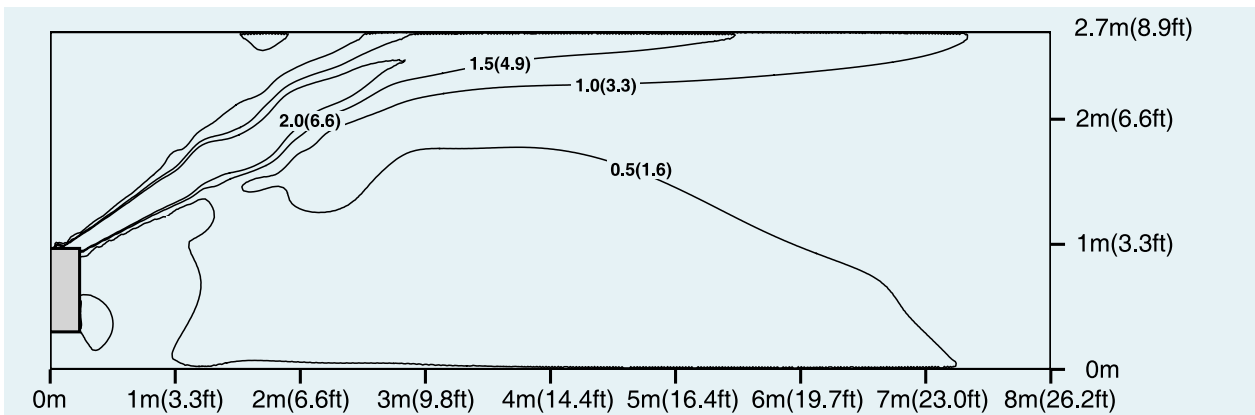
Heating temperature

Unit: °C (°F)



Heating velocity

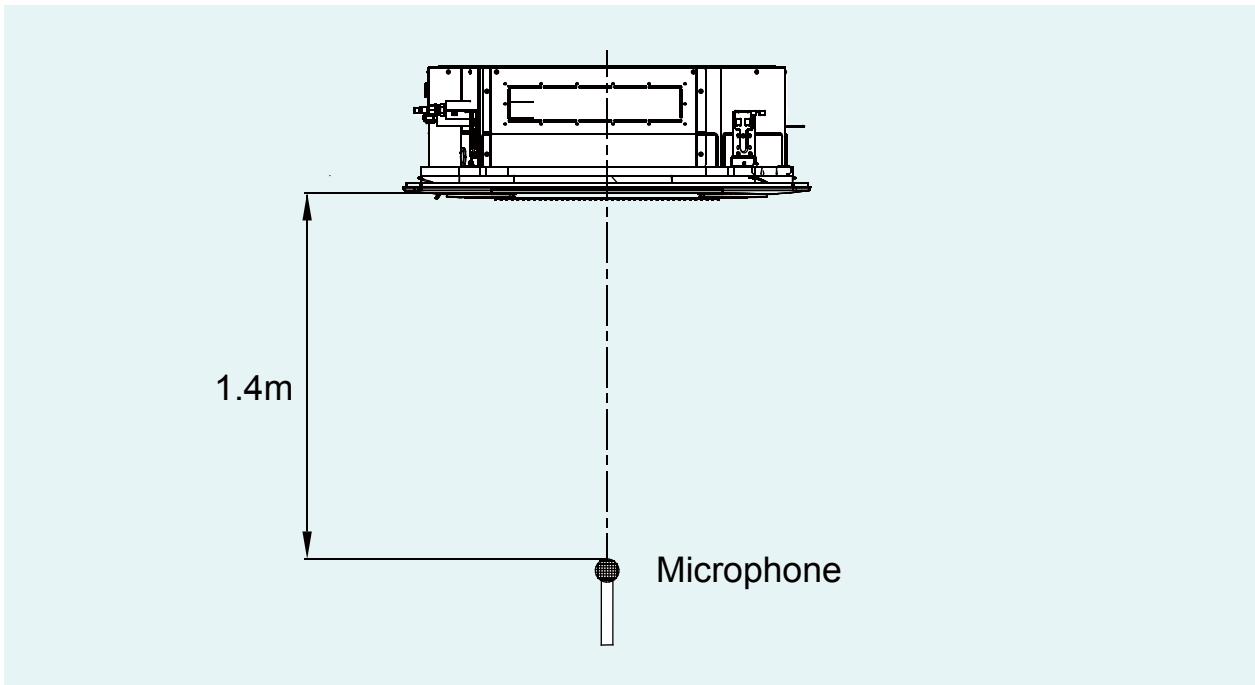
Unit: m/s (ft/s)



# 9 NOISE CURVE

## ➔ 9.1 Noise Test Diagram

### 9.1.1 Cassette Type

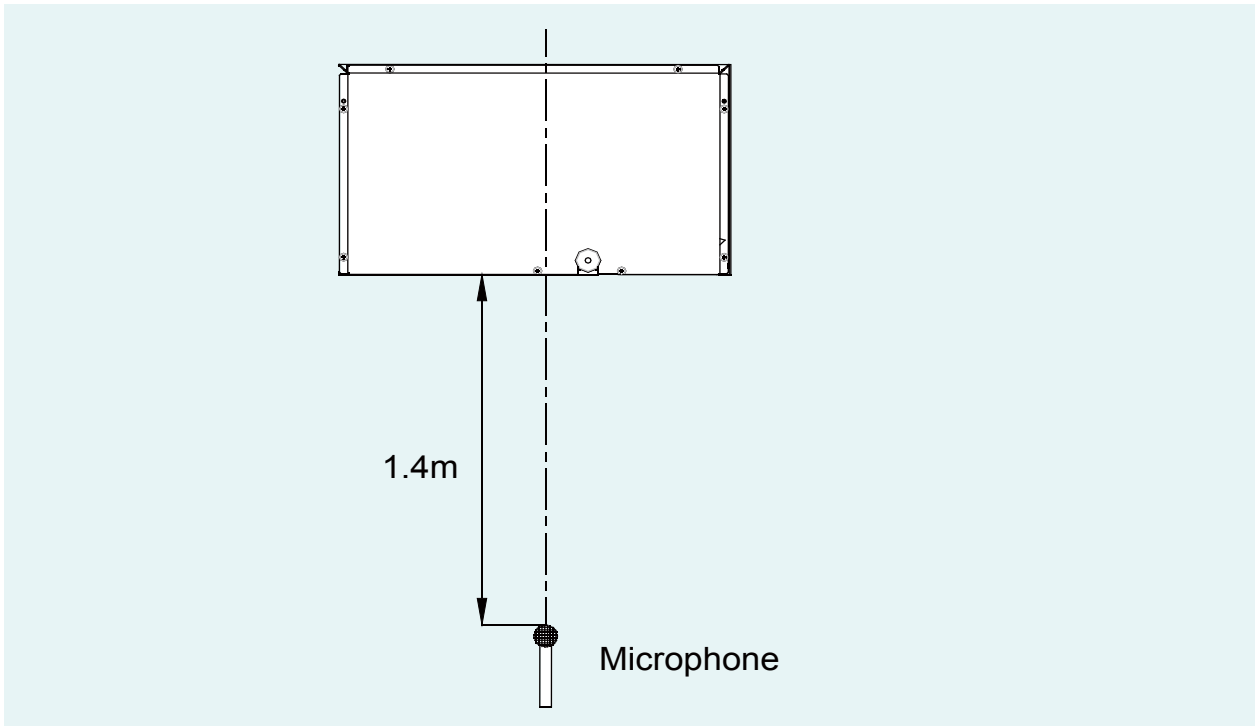


Model	220-240V ~50Hz			
	Turbo dB(A)	H dB(A)	M dB(A)	L dB(A)
GUD35T/A-S	41	37	35	31
GUD50T/A-S	44	39	35	31
GUD71T/A1-S	47	45	41	39
GUD71T/A-S	47	45	41	39
GUD100T/A-S	50	48	46	42
GUD125T/A-S	50	48	46	42
GUD140T/A-S	51	49	46	42
GUD160T/A-S	54	52	50	48

Notes:

1. Above data was measured under standard conditions. Power specification: 220-240V ~50Hz.
2. Above data was measured in a semi-anechoic room.
3. Decibels will be varied with the change of external factors, for instance, the room structure. Please refer to the actual measurement.

## 9.1.2 Duct Type

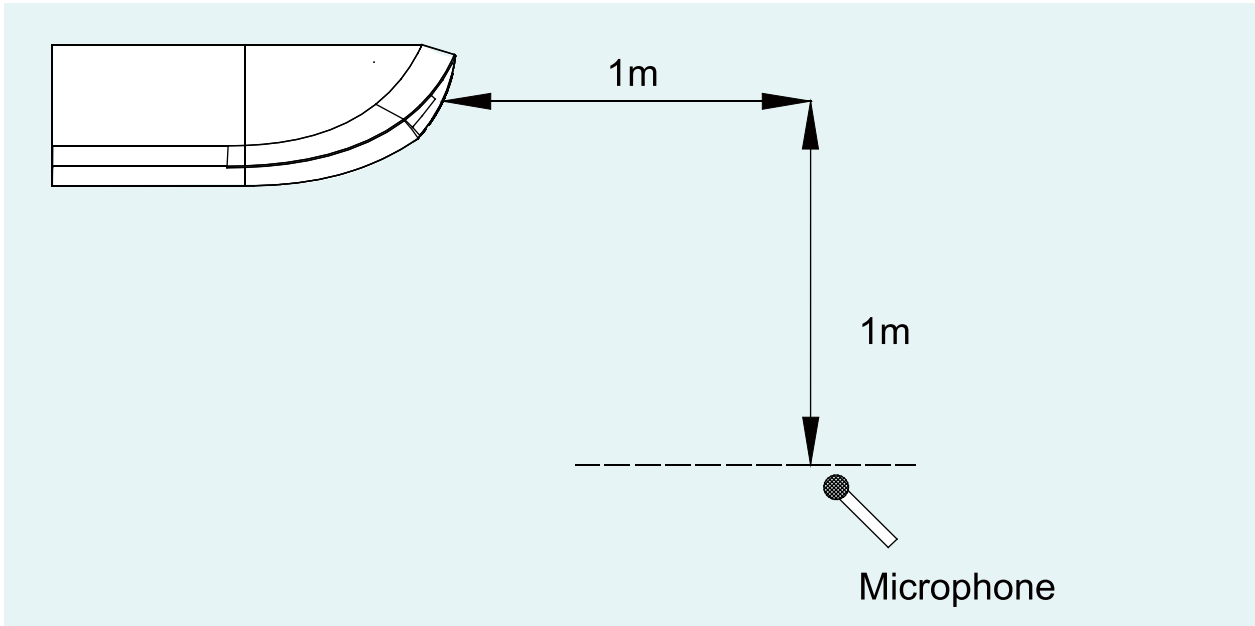


Model	220-240V ~50Hz			
	Turbo dB(A)	H dB(A)	M dB(A)	L dB(A)
GUD35P/A-S GUD35PS/A-S	40	37	35	34
GUD50P/A-S GUD50PS/A-S	40	39	37	35
GUD71P/A1-S GUD71PS/A1-S	43	42	40	38
GUD71P/A-S GUD71PS/A-S	40	38	37	36
GUD100PH/A-S GUD100PHS/A-S	43	41	39	37
GUD125PH/A-S GUD125PHS/A-S	44	42	39	37
GUD140PH/A-S GUD140PHS/A-S	42	40	39	37
GUD160PH/A-S GUD160PHS/A-S	50	45	44	42

### Notes:

1. Above data was measured under standard conditions. Power specification: 220-240V ~50Hz.
2. Above data was measured in a semi-anechoic room.
3. Decibels will be varied with the change of external factors, for instance, the room structure. Please refer to the actual measurement.

### 9.1.3 Floor Ceiling Type



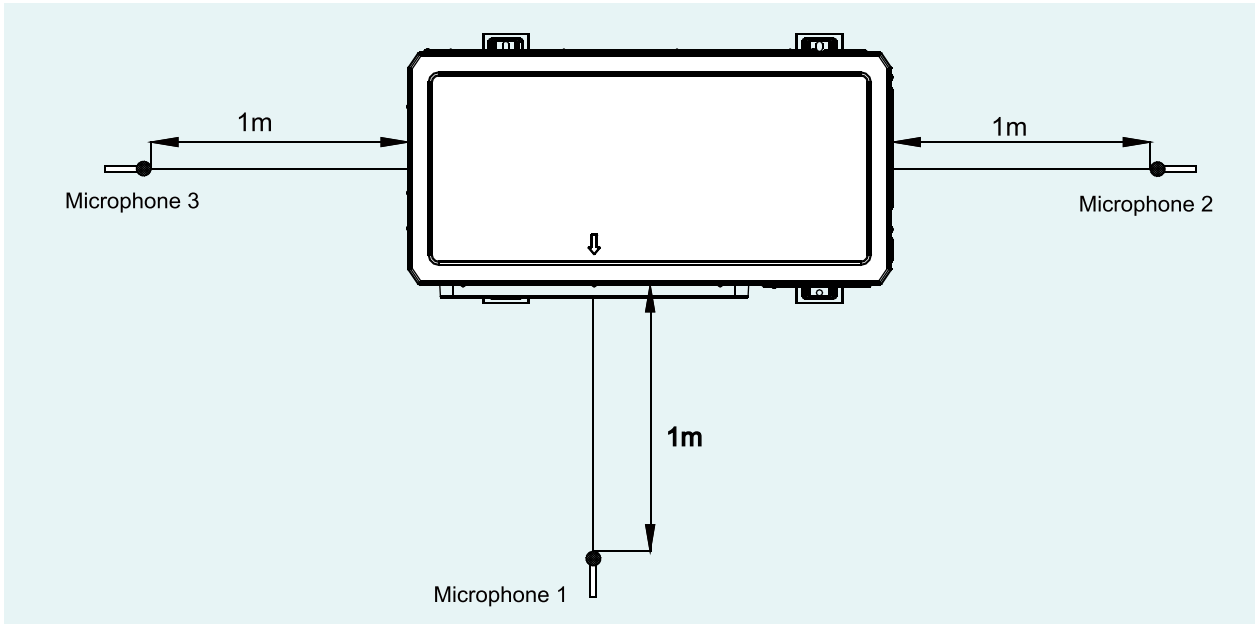
Model	220-240V ~50Hz			
	Turbo dB(A)	H dB(A)	M dB(A)	L dB(A)
GUD35ZD/A-S	39	36	32	28
GUD50ZD/A-S	44	42	39	36
GUD71ZD/A1-S	49	48	45	43
GUD71ZD/A-S	45	44	41	38
GUD100ZD/A-S	49	47	45	43
GUD125ZD/A-S	49	47	45	43
GUD140ZD/A-S	52	50	48	44
GUD160ZD/A-S	54	53	49	45

Notes:

1. Above data was measured under standard conditions. Power specification: 220-240V ~50Hz.
2. Above data was measured in a semi-anechoic room.
3. Decibels will be varied with the change of external factors, for instance, the room structure. Please refer to the actual measurement.



## 9.1.4 Outdoor Unit



Model	Cooling dB(A)	Heating dB(A)	Power supply (V,Ph,Hz)
GUD35W/A-S	51	51	220-240V ~50Hz
GUD50W/A-S	55	55	
GUD71W/A1-S	55	55	
GUD71W/A-S	56	56	
GUD100W/A-S	55	55	
GUD125W/A-S	58	58	
GUD140W/A-S	59	59	
GUD160W/A-S	60	60	
GUD125W/A-X	58	58	380-415V 3N~50Hz
GUD140W/A-X	59	59	
GUD160W/A-X	60	60	

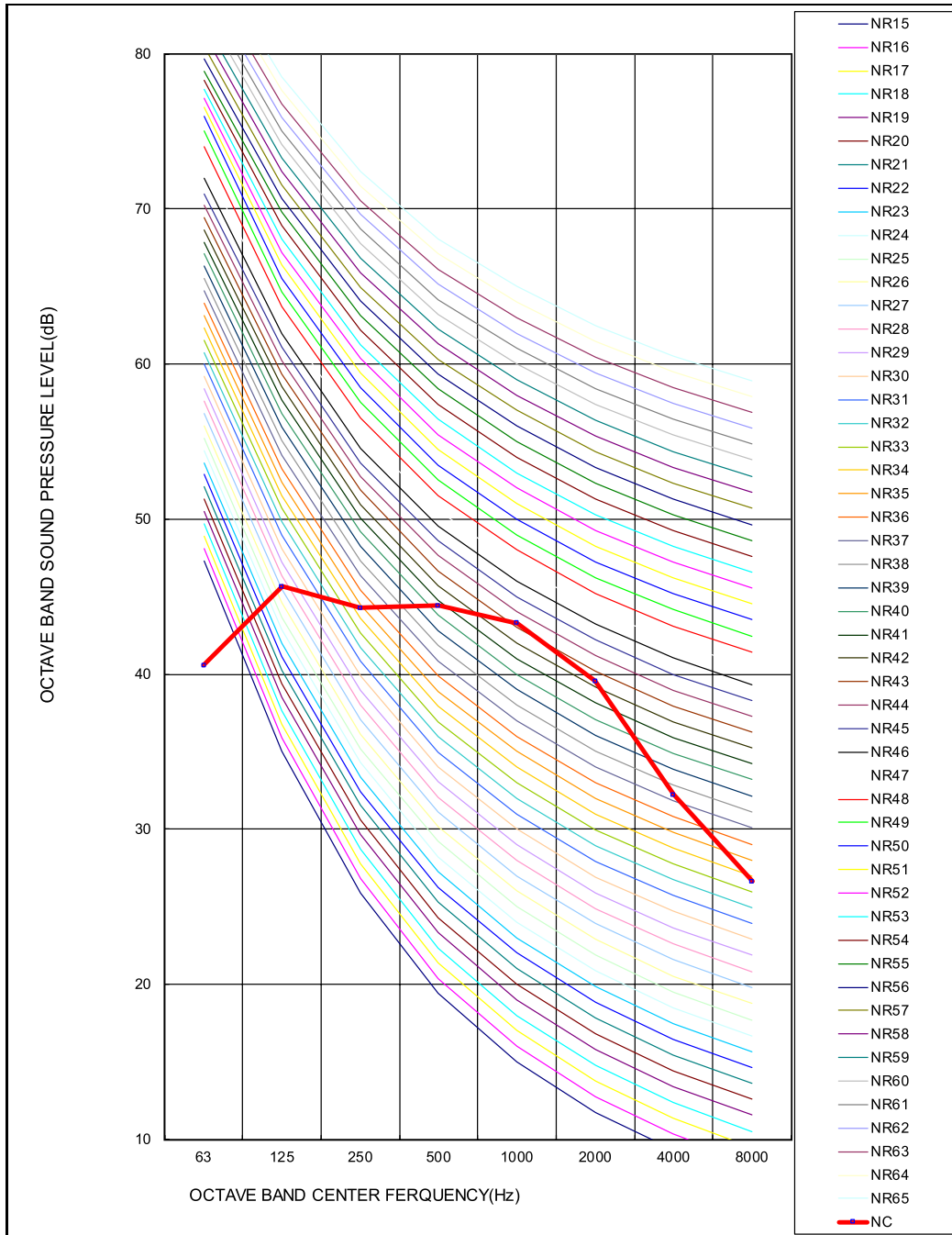
**Notes:**

- Above data was measured under standard conditions. Power specification: 220-240V ~50Hz, 380-415V 3N~50Hz
- Above data was the average of three points data.
- Above data was measured in a semi-anechoic room.
- Decibels will be varied with the change of external factors, for instance, the room structure. Please refer to the actual measurement.
- h: the height of the Microphone  
 H: the height of the units  
 $h=(H+1)/2$

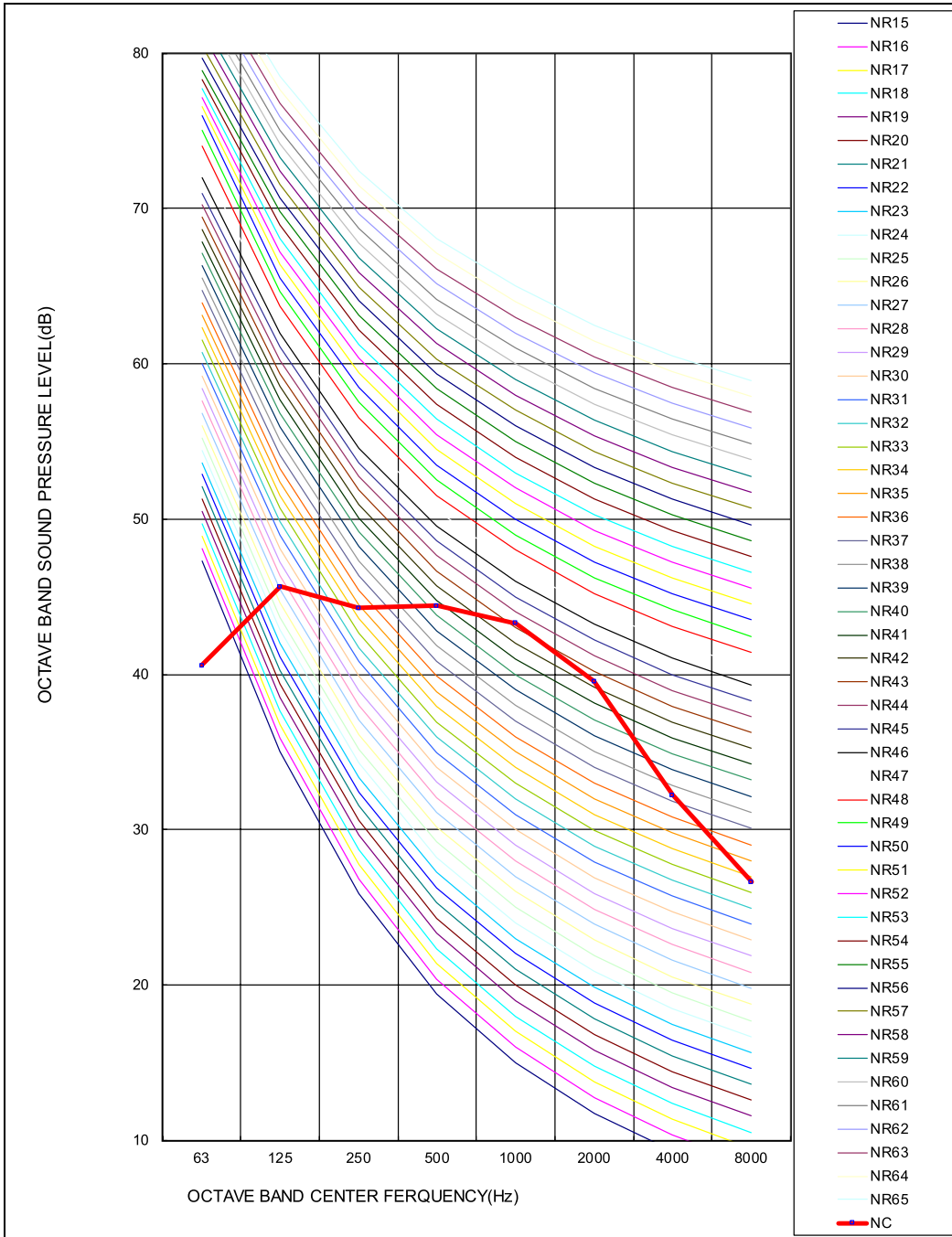
## ➔ 9.2 Noise Curve

### 9.2.1 Indoor Unit

GUD35T/A-S  
Cooling

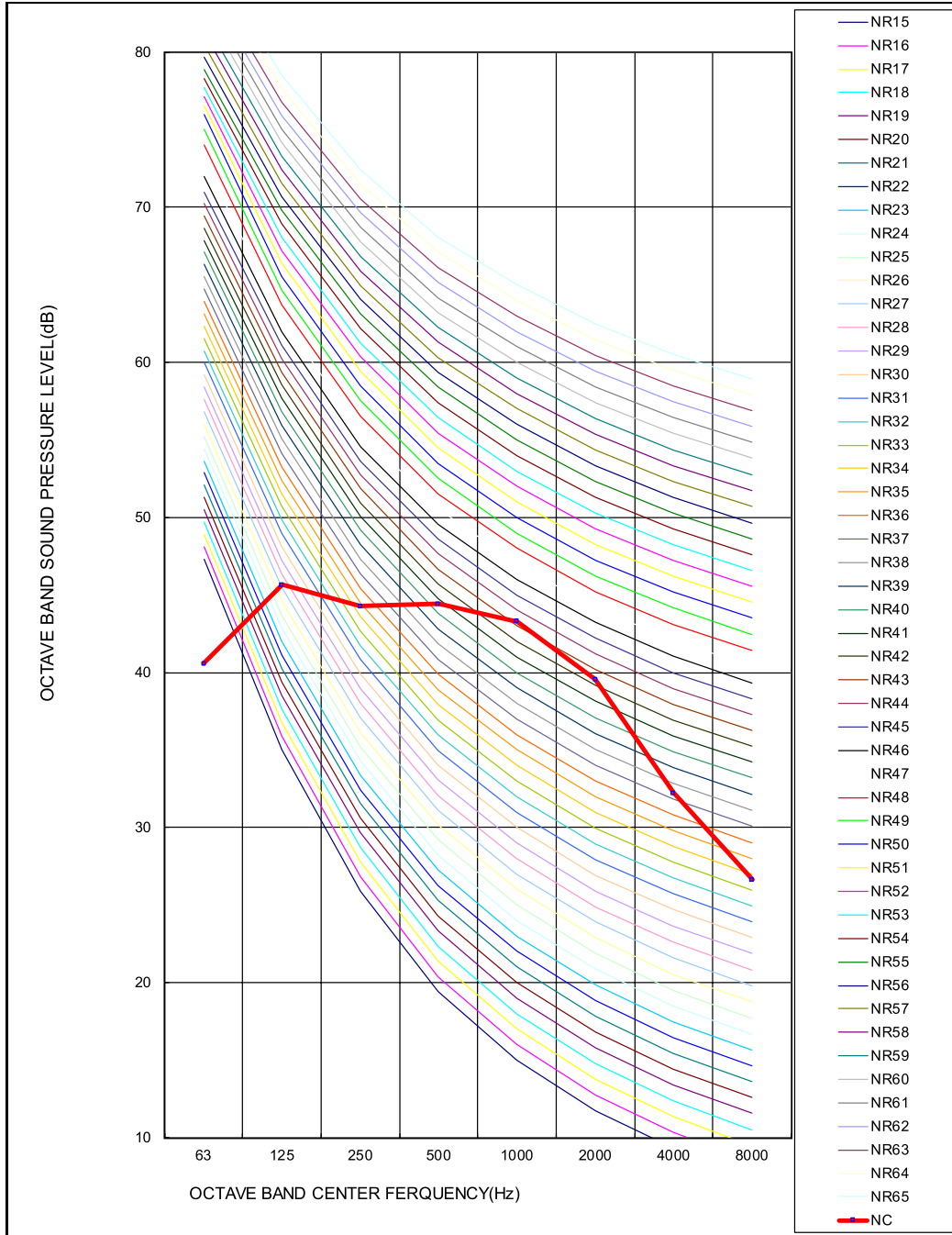


## Heating

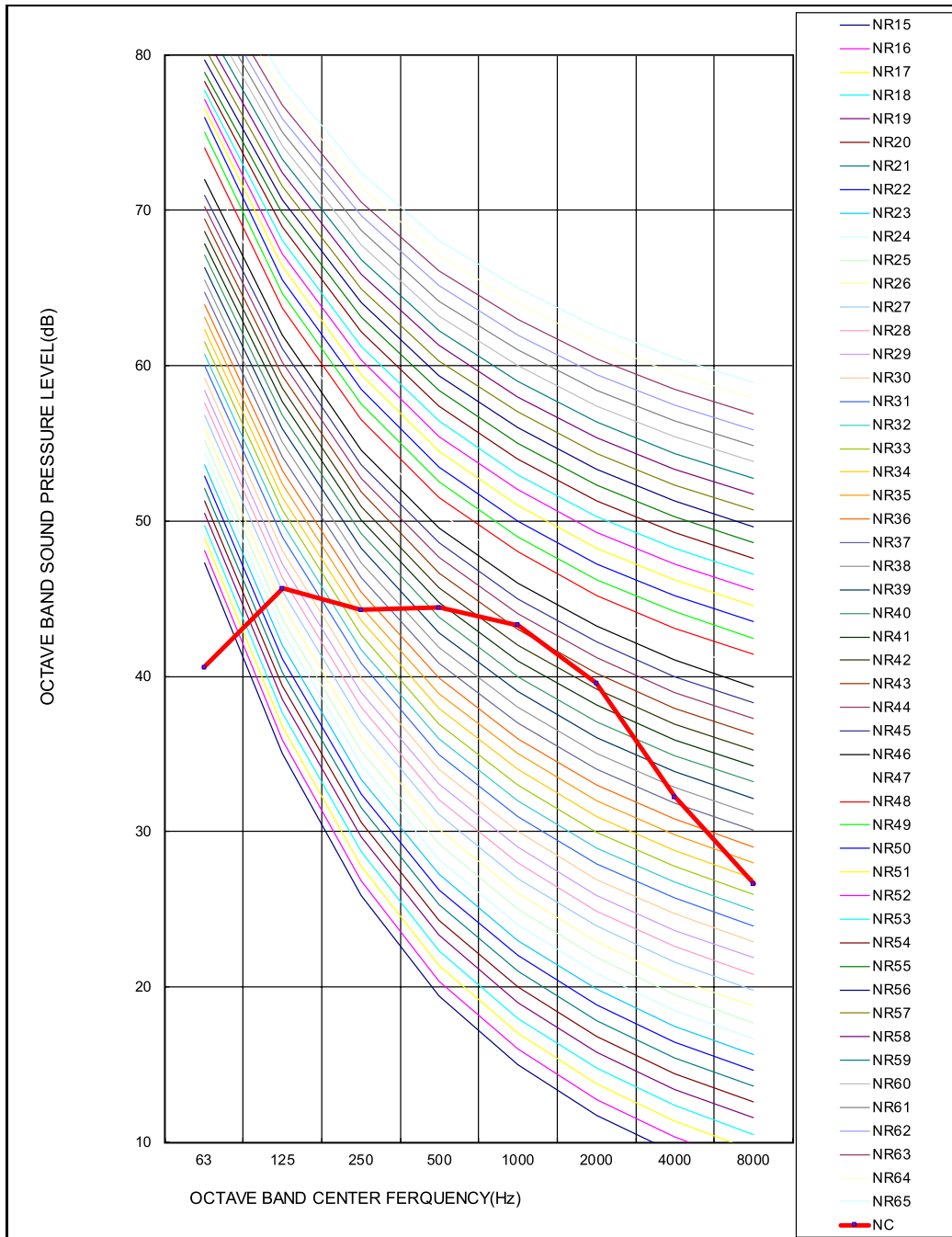


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD50T/A-S  
Cooling

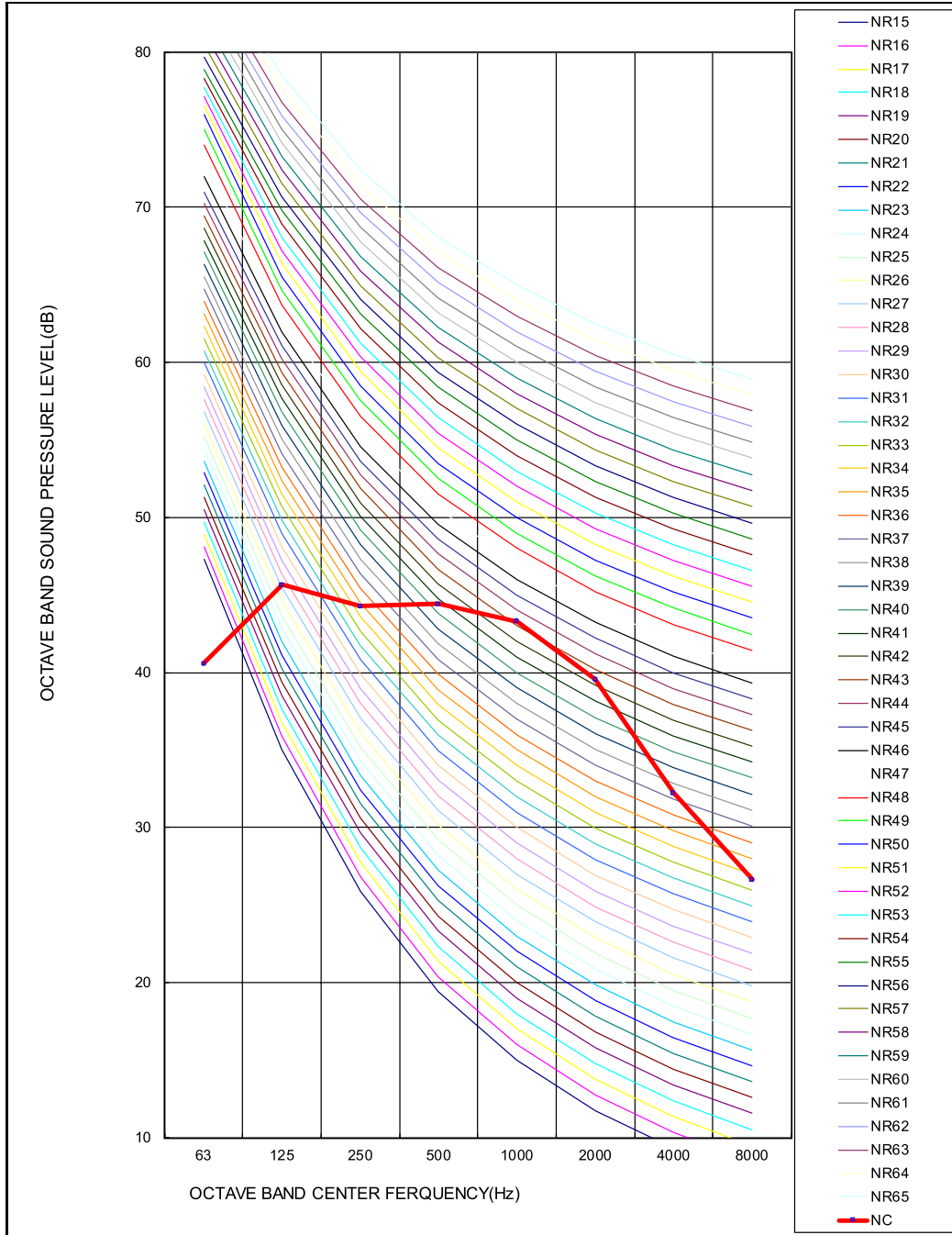


## Heating



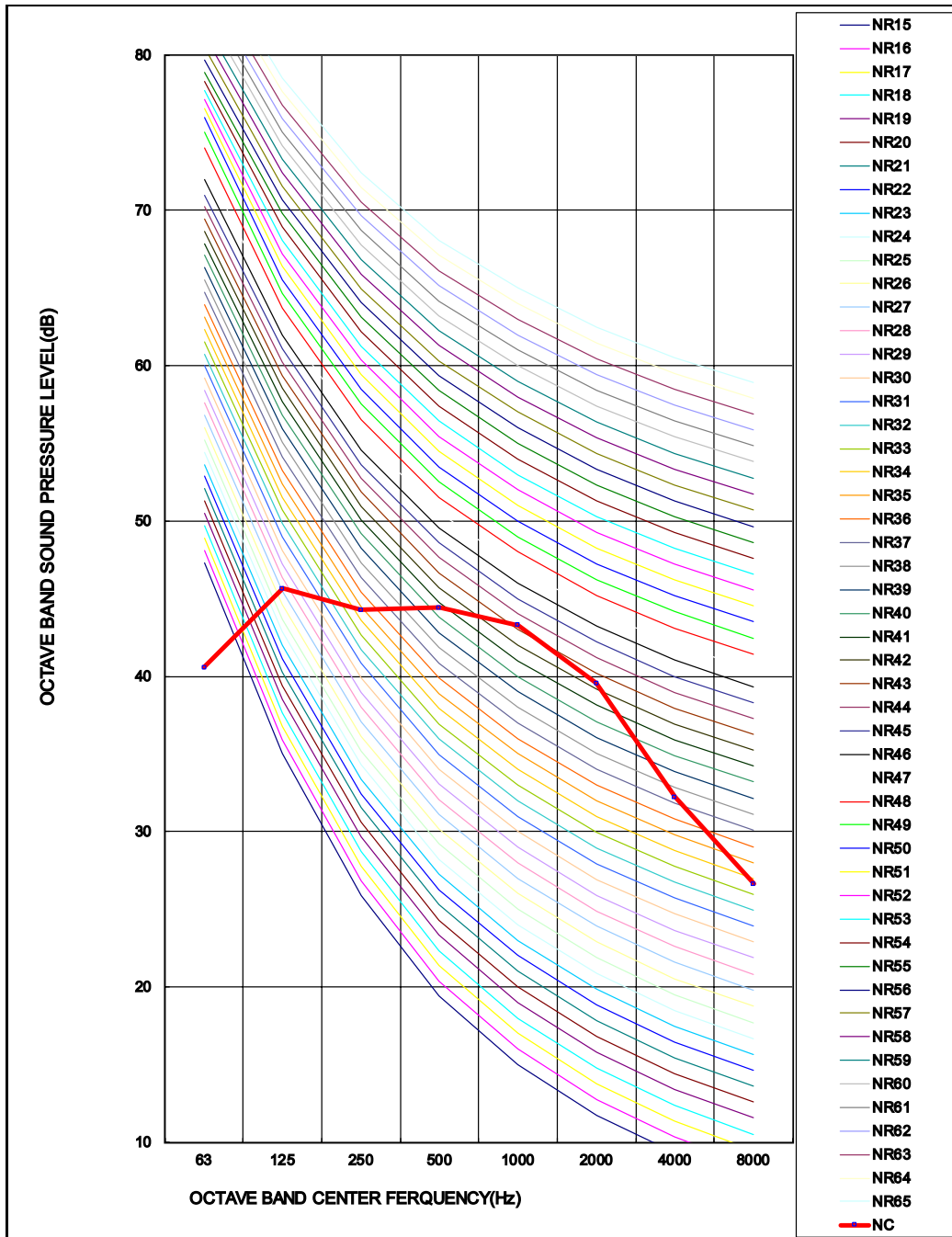
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71T/A1-S;GUD71T/A-S  
Cooling



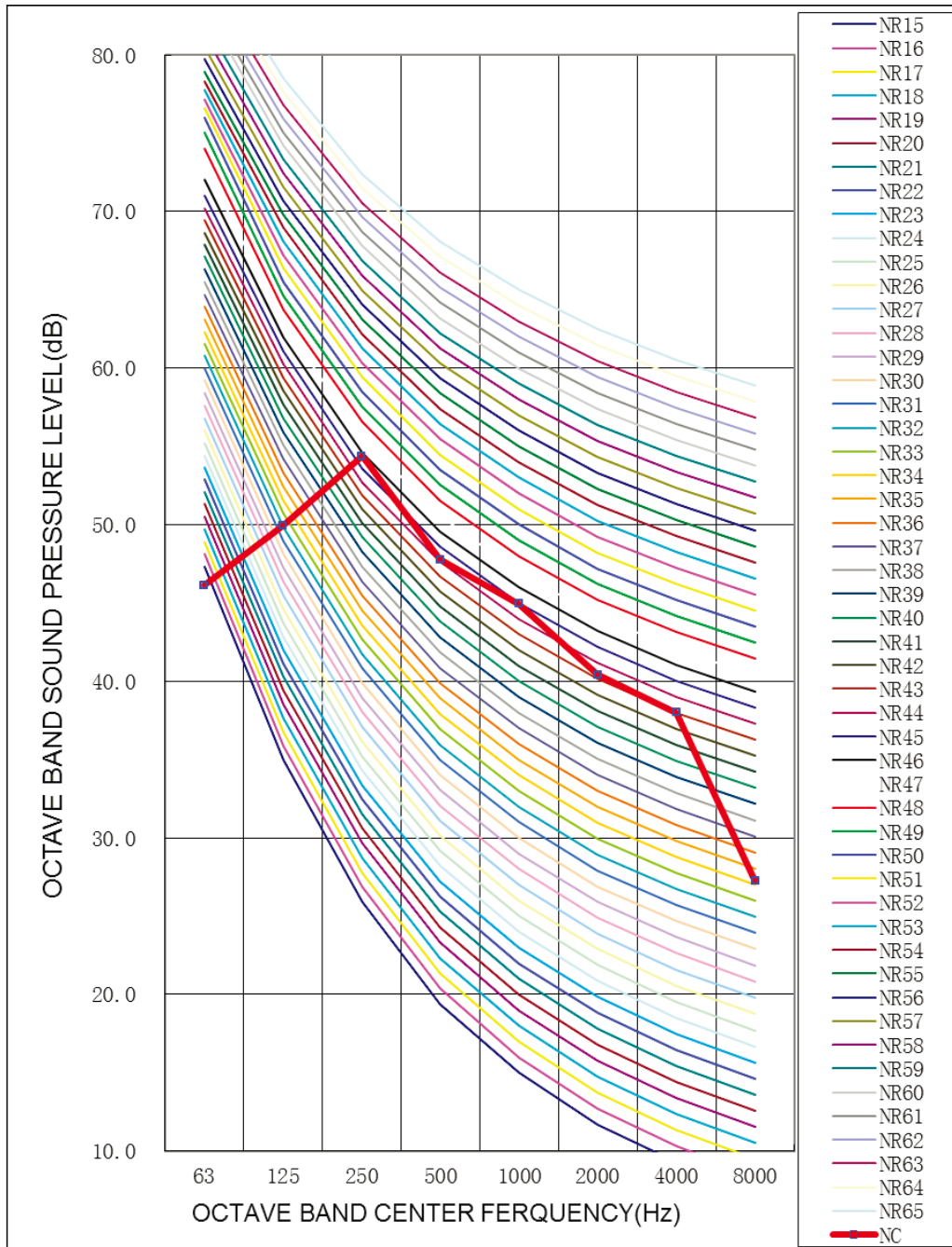
# U-MATCH SERIES AIR CONDITIONERS

Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

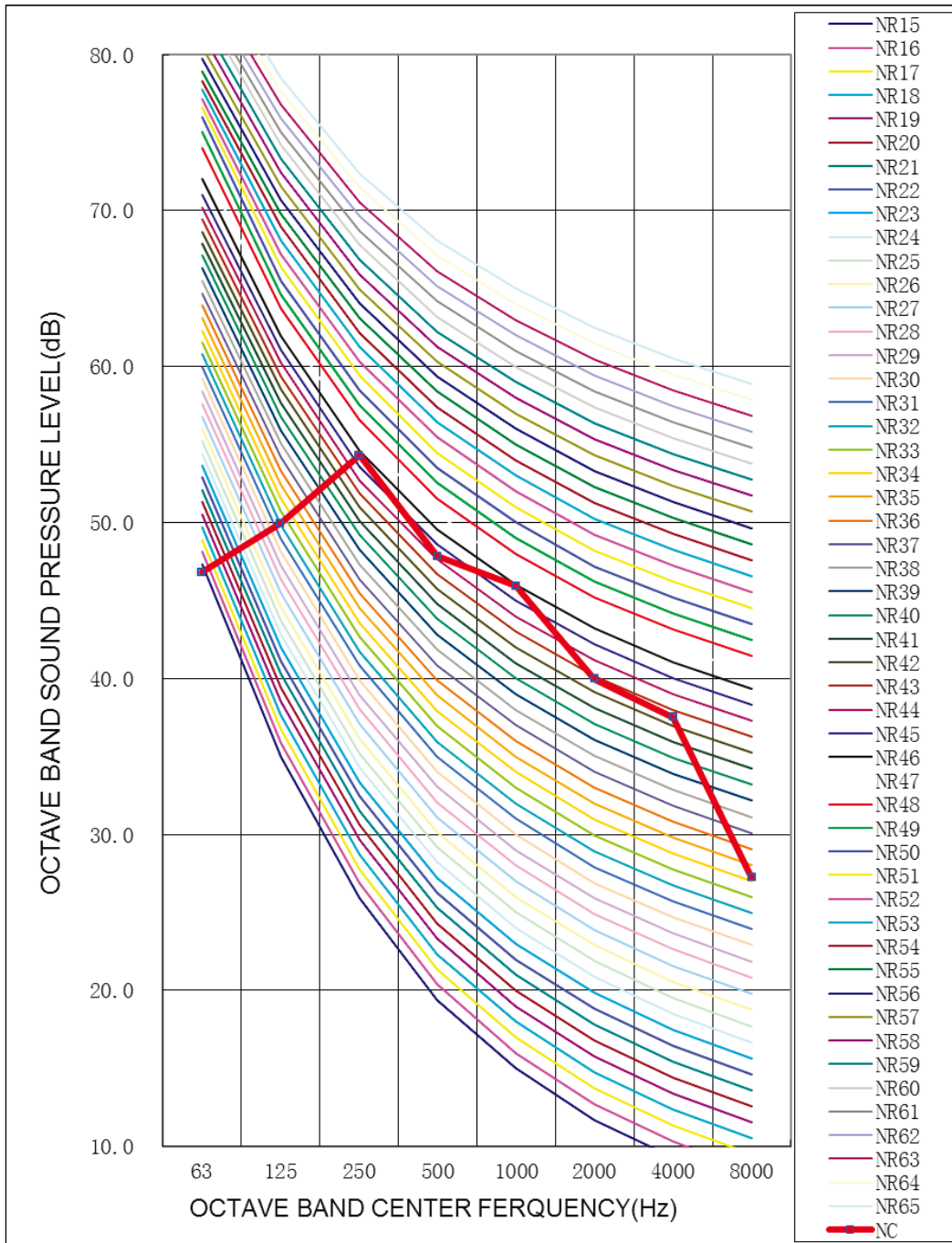
GUD100T/A-S  
Cooling





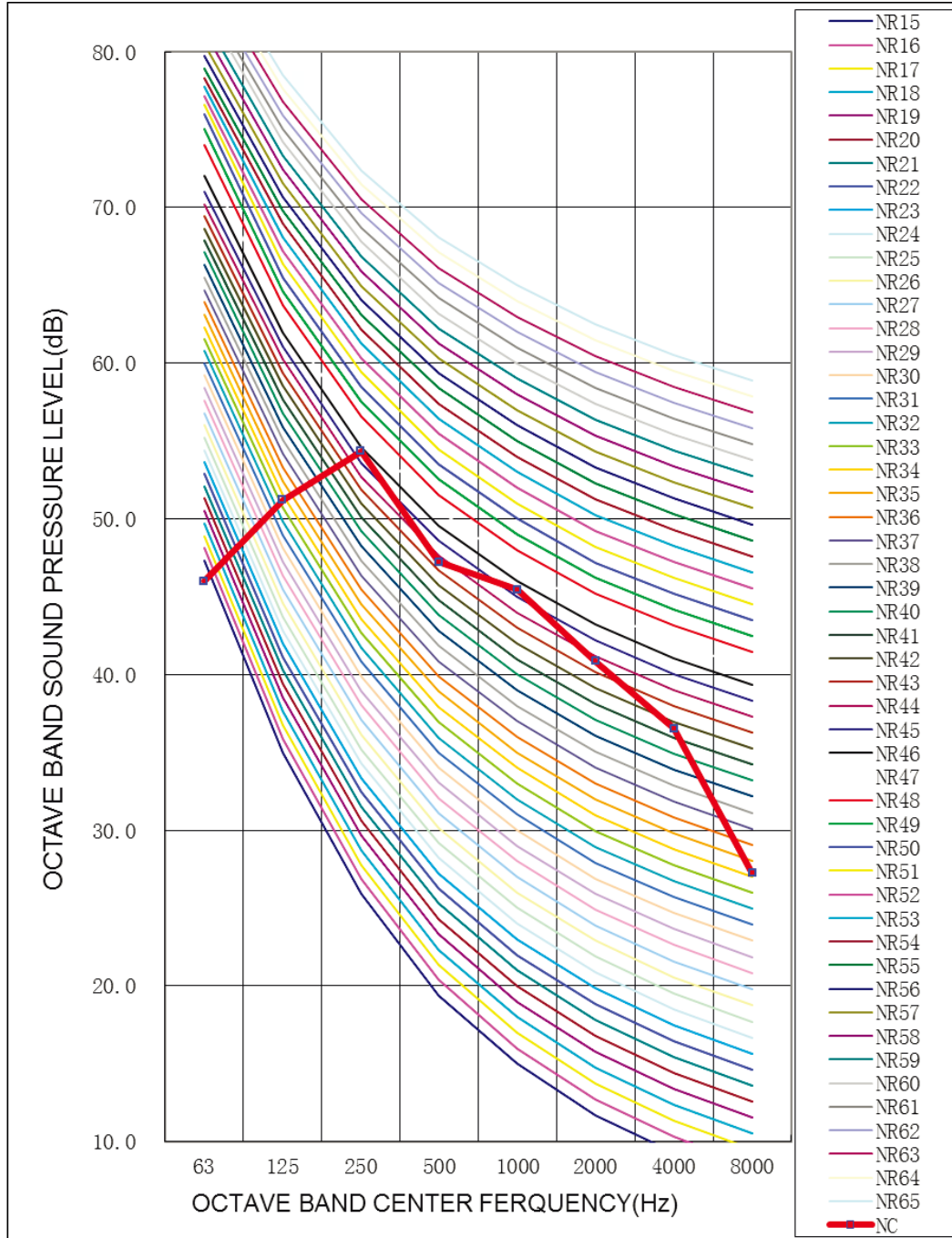
# U-MATCH SERIES AIR CONDITIONERS

Heating



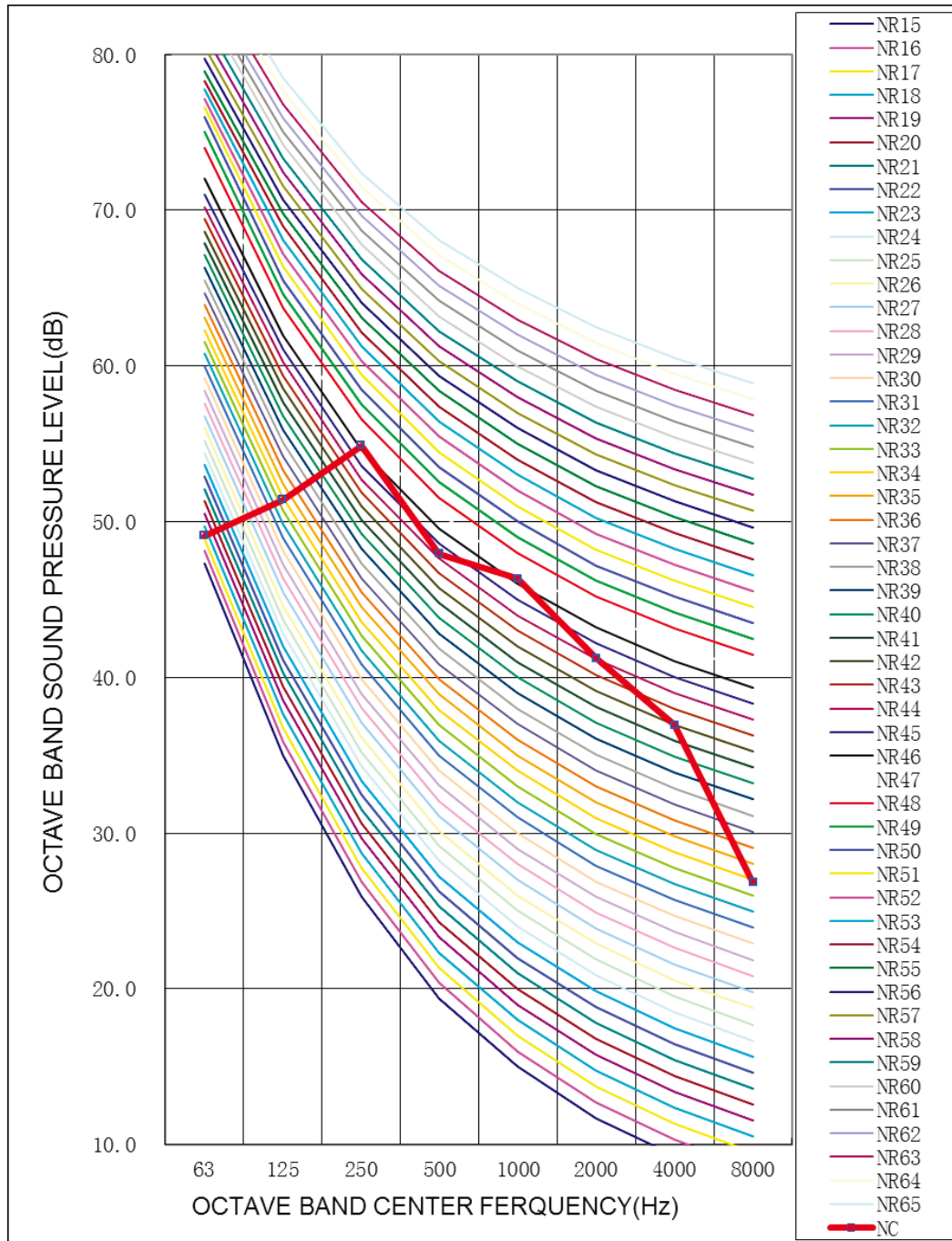
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD125T/A-S  
Cooling



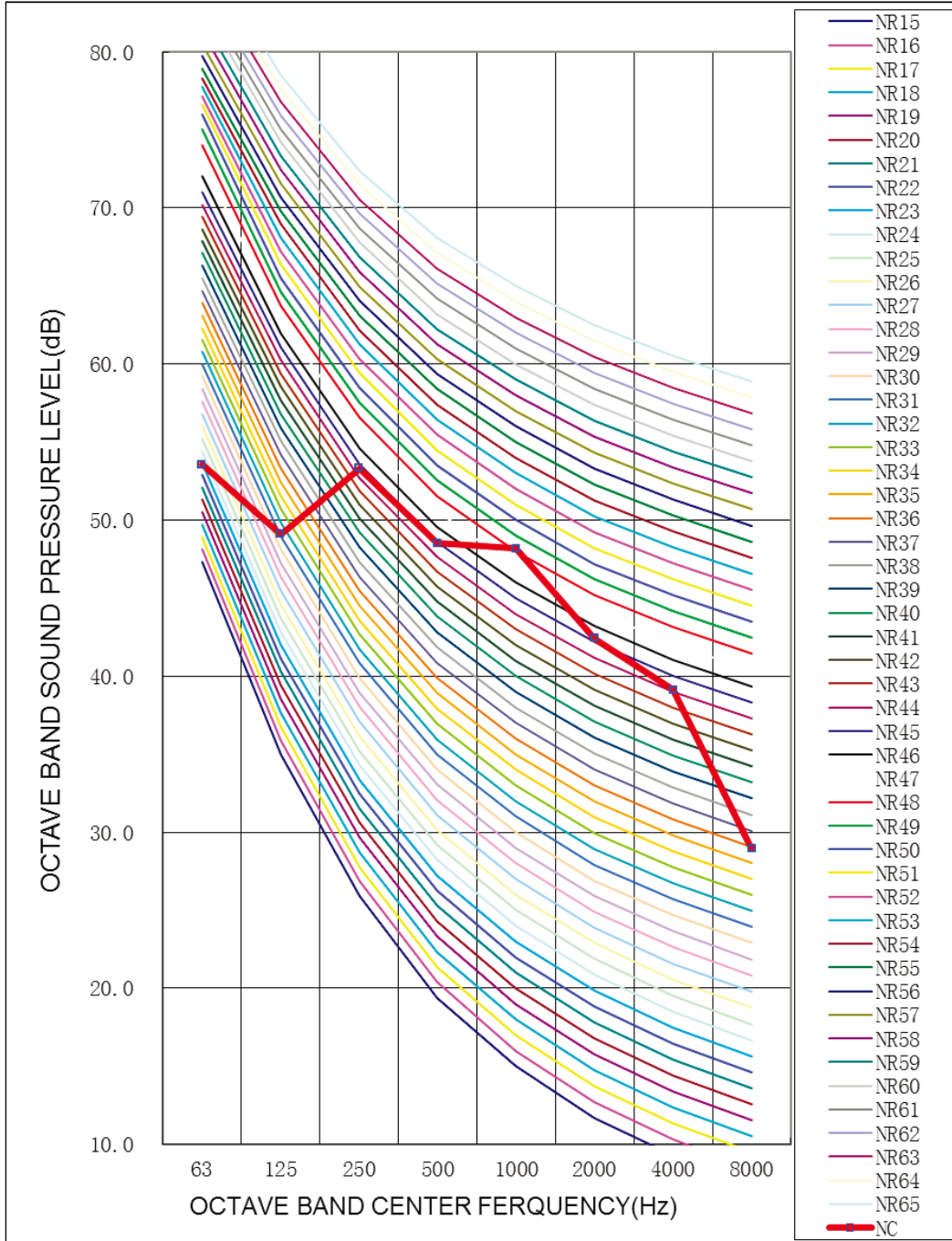
# U-MATCH SERIES AIR CONDITIONERS

Heating



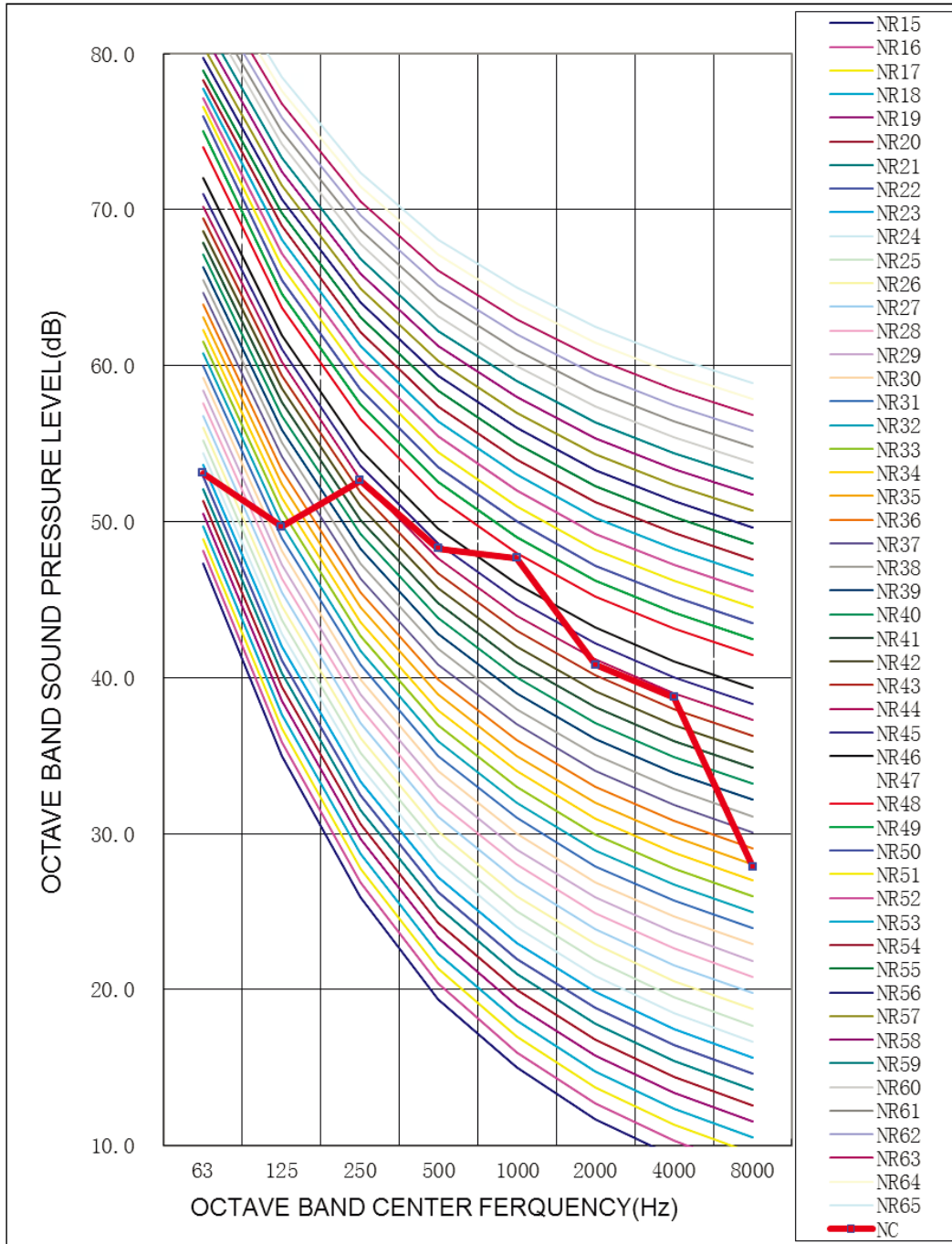
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD140T/A-S  
 Cooling



# U-MATCH SERIES AIR CONDITIONERS

Heating

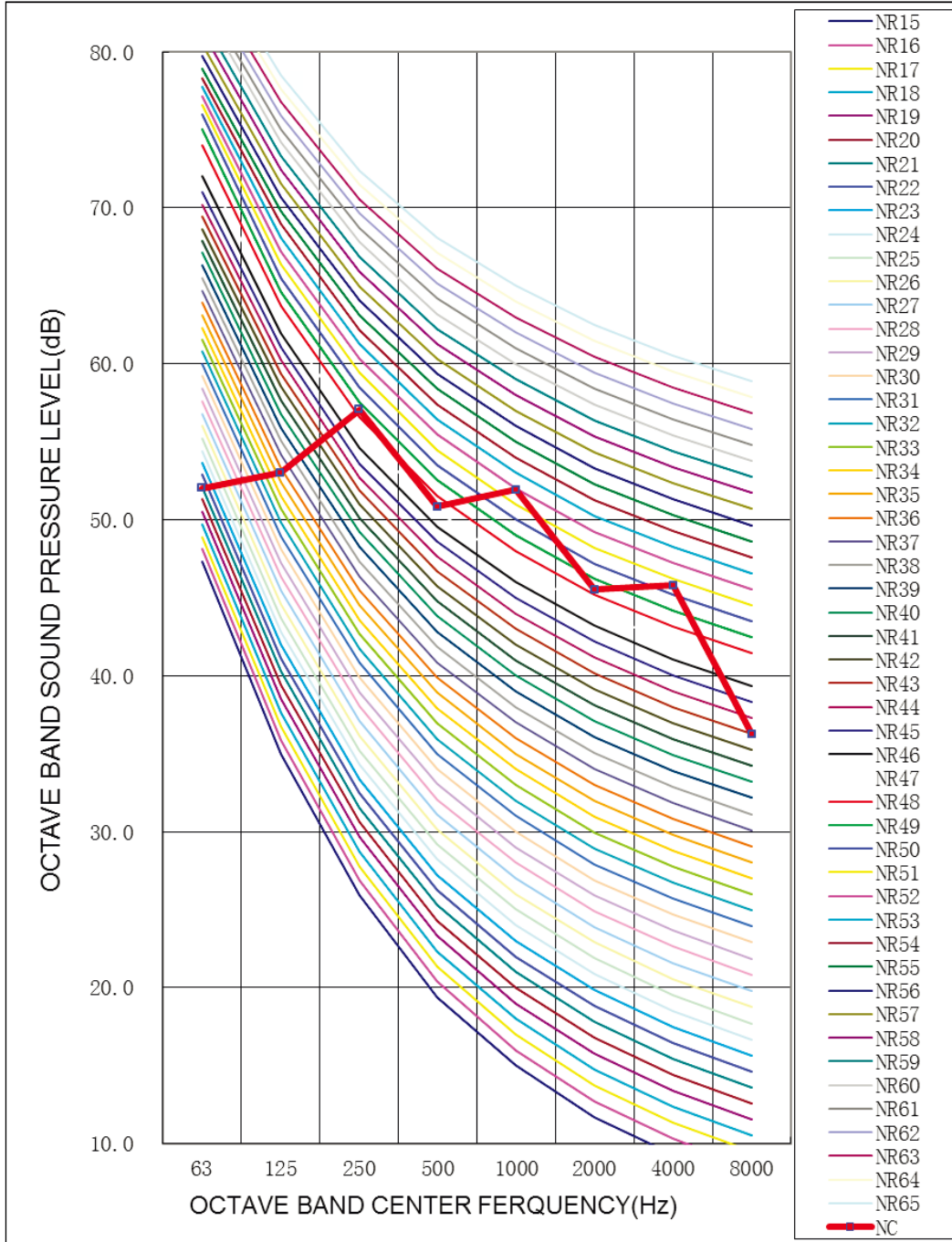


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).



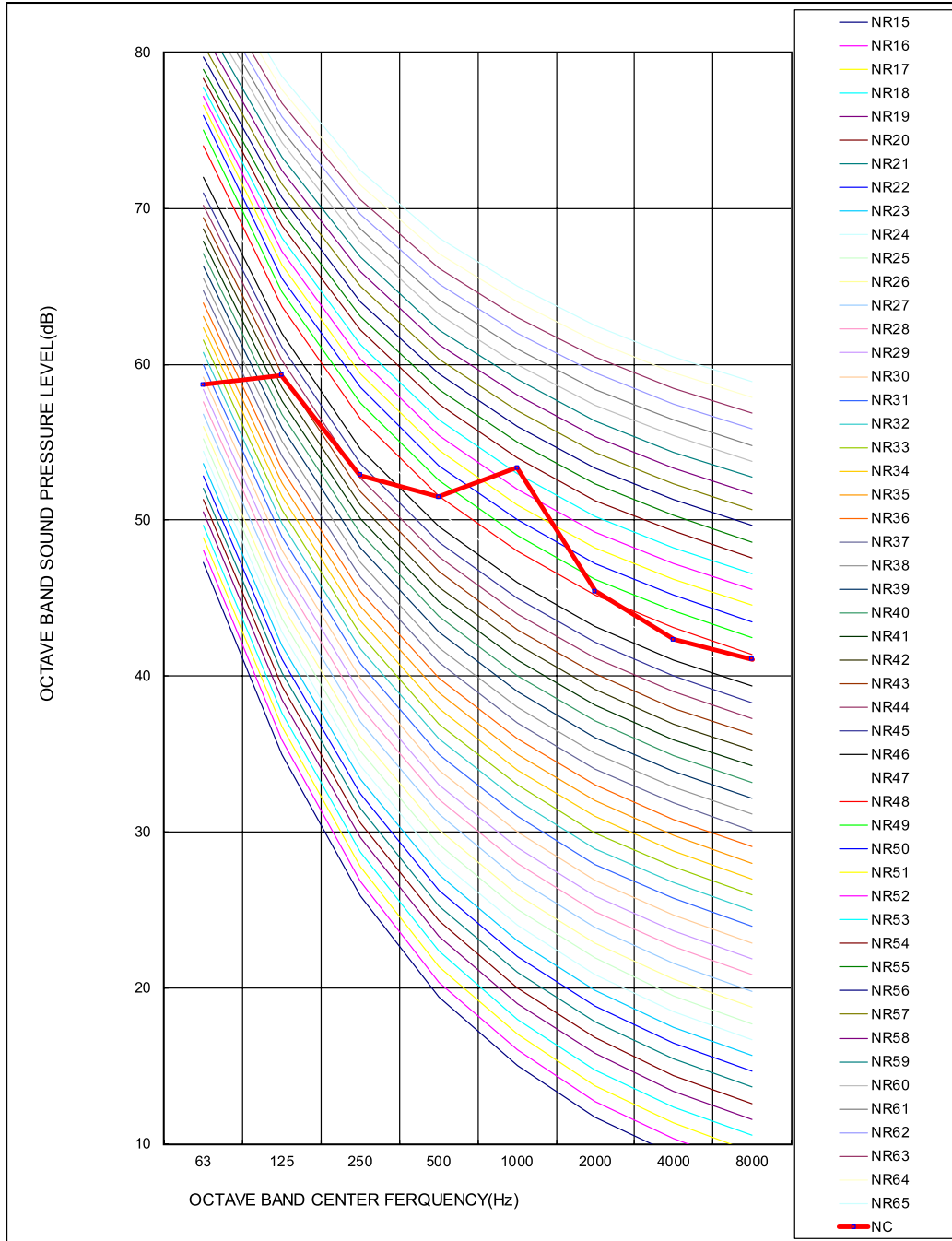
# U-MATCH SERIES AIR CONDITIONERS

Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

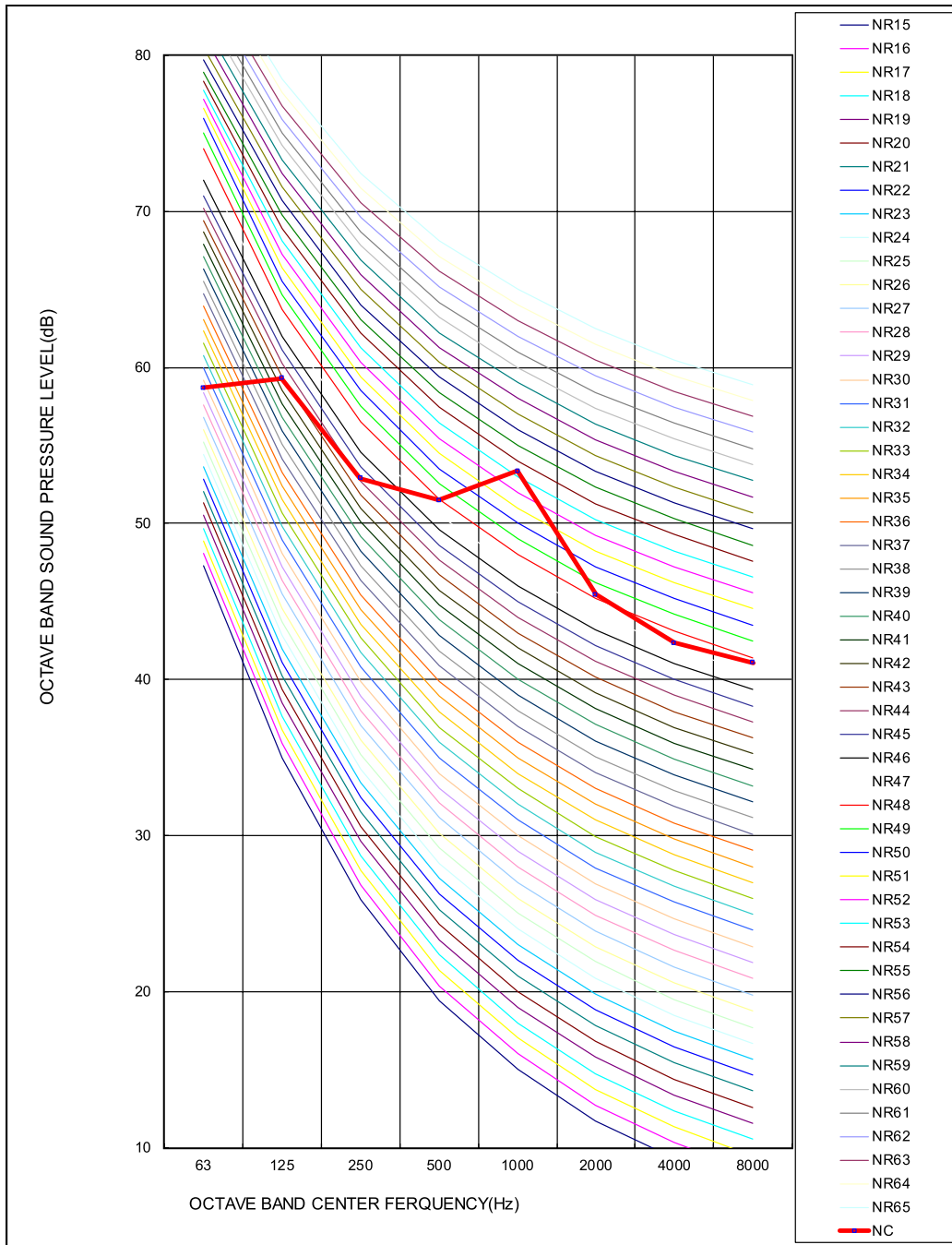
GUD35P/A-S, GUD35PS/A-S  
Cooling





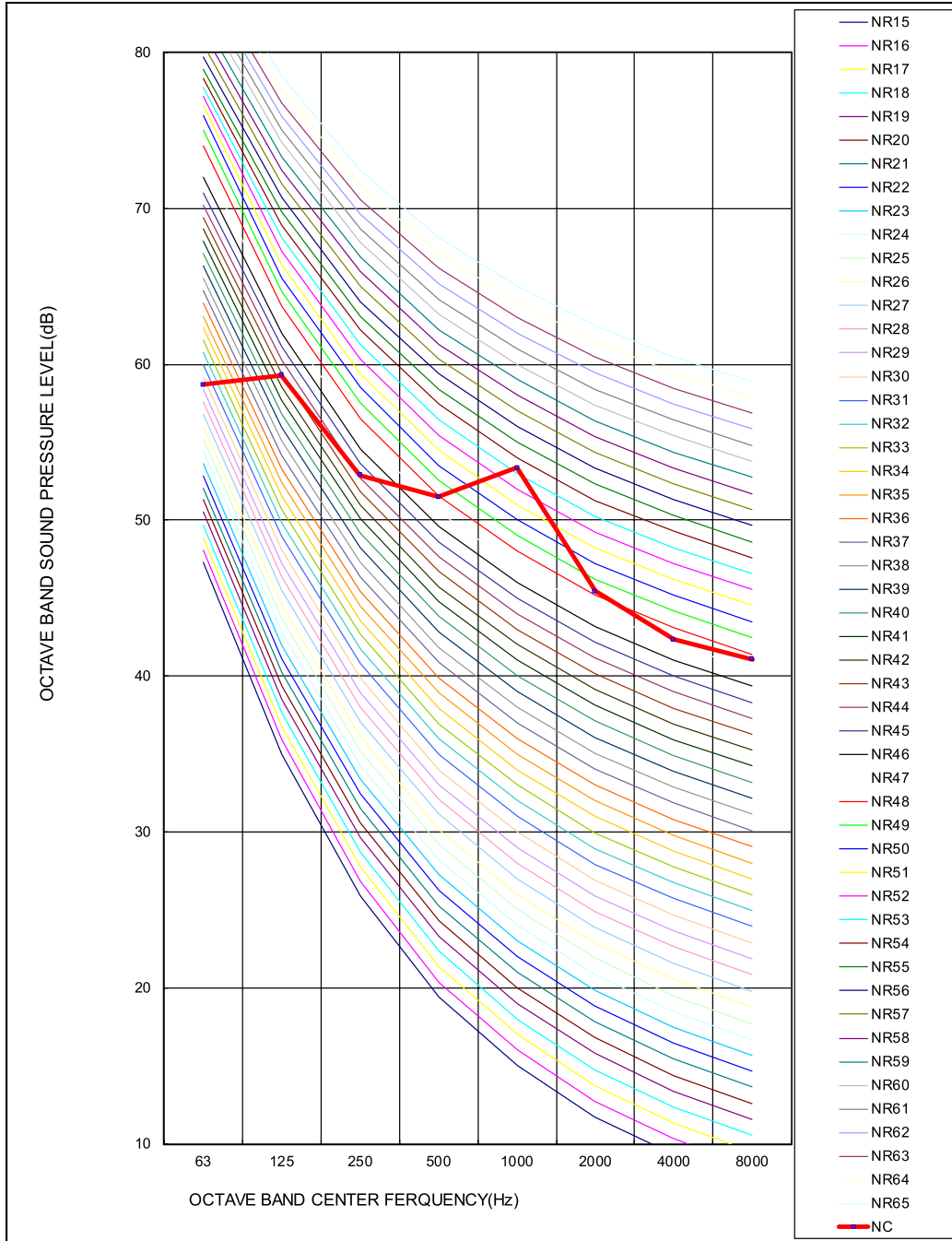
# U-MATCH SERIES AIR CONDITIONERS

Heating



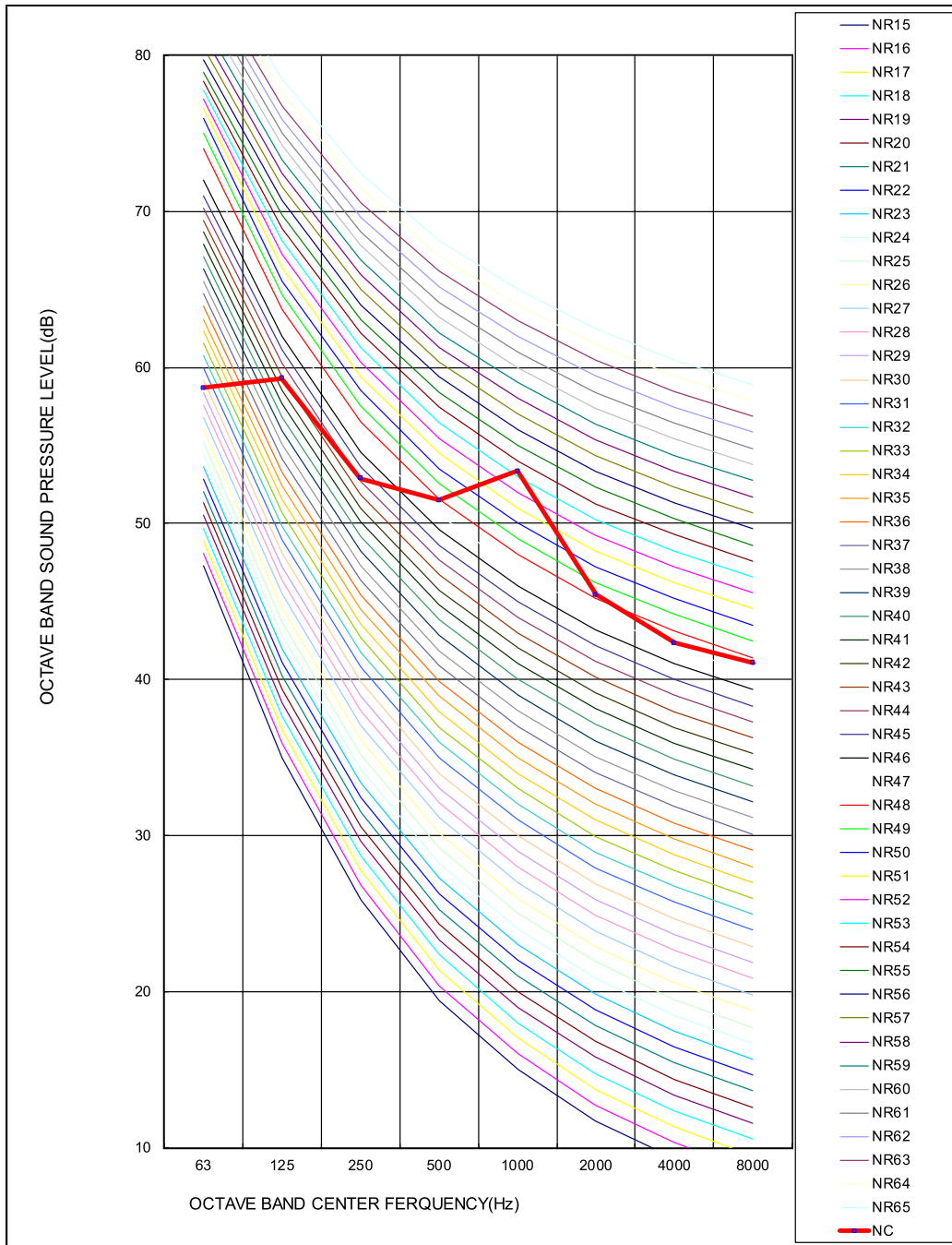
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD50P/A-S, GUD50PS/A-S  
Cooling



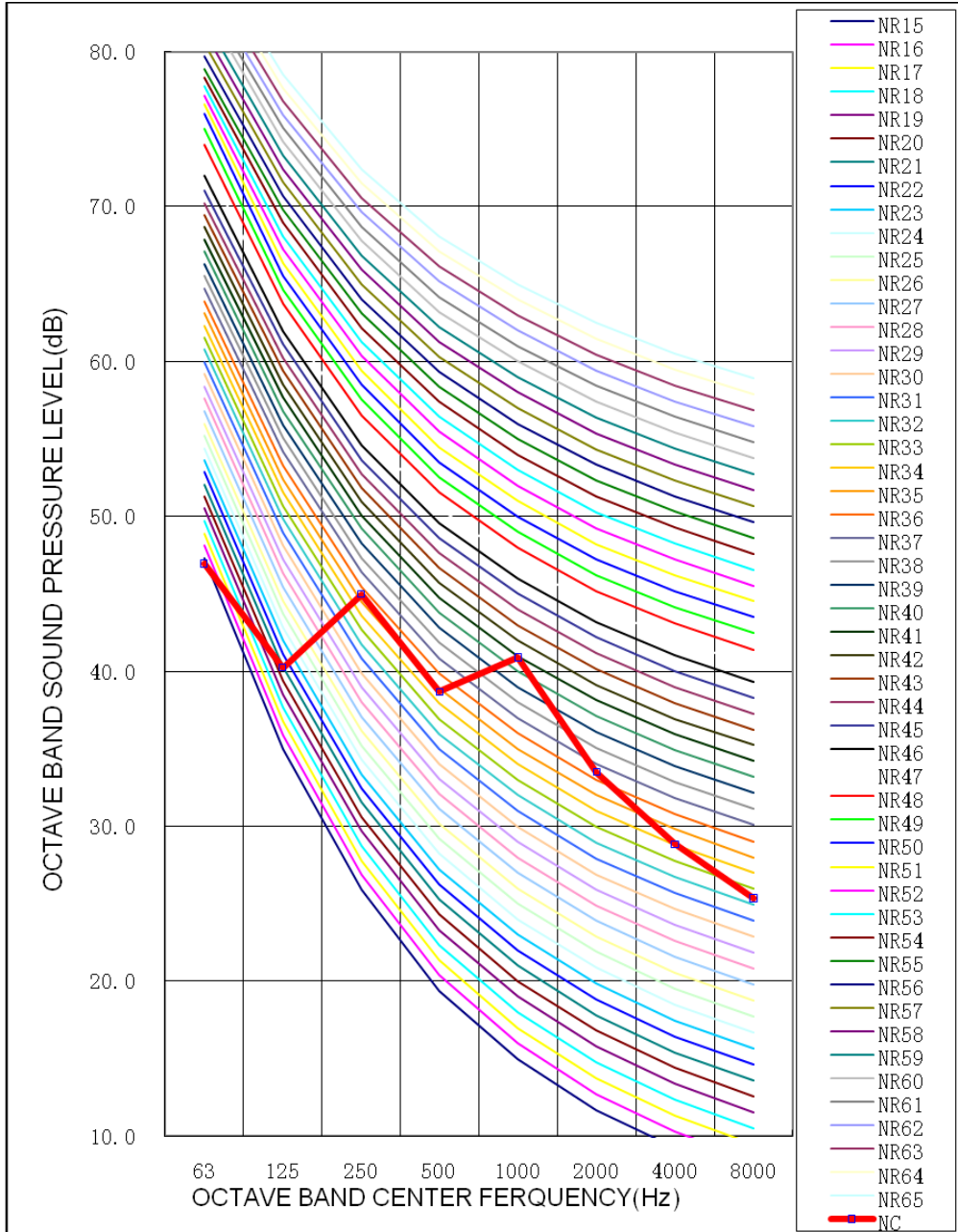
# U-MATCH SERIES AIR CONDITIONERS

Heating

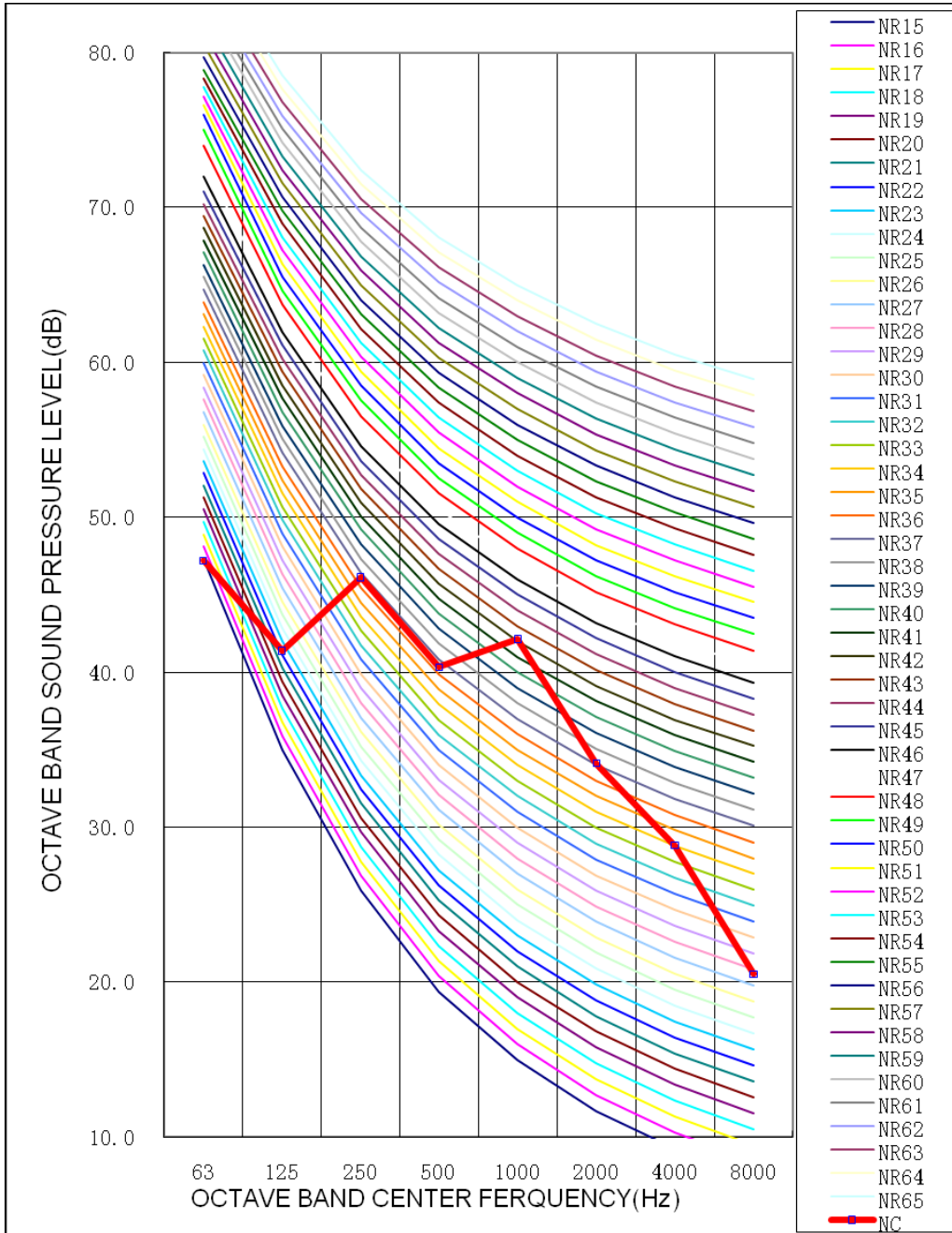


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71P/A1-S, GUD71PS/A1-S  
Cooling

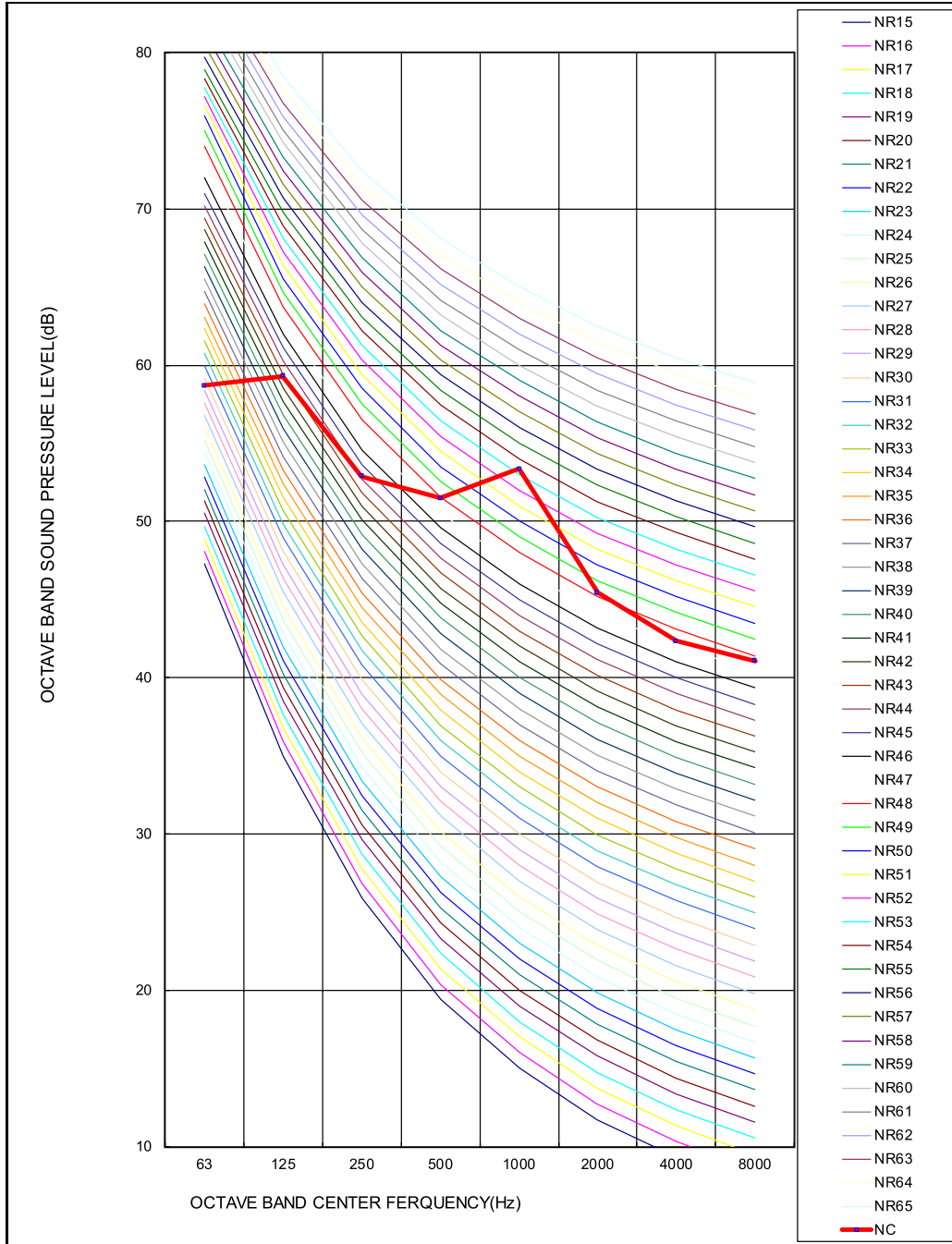


## Heating

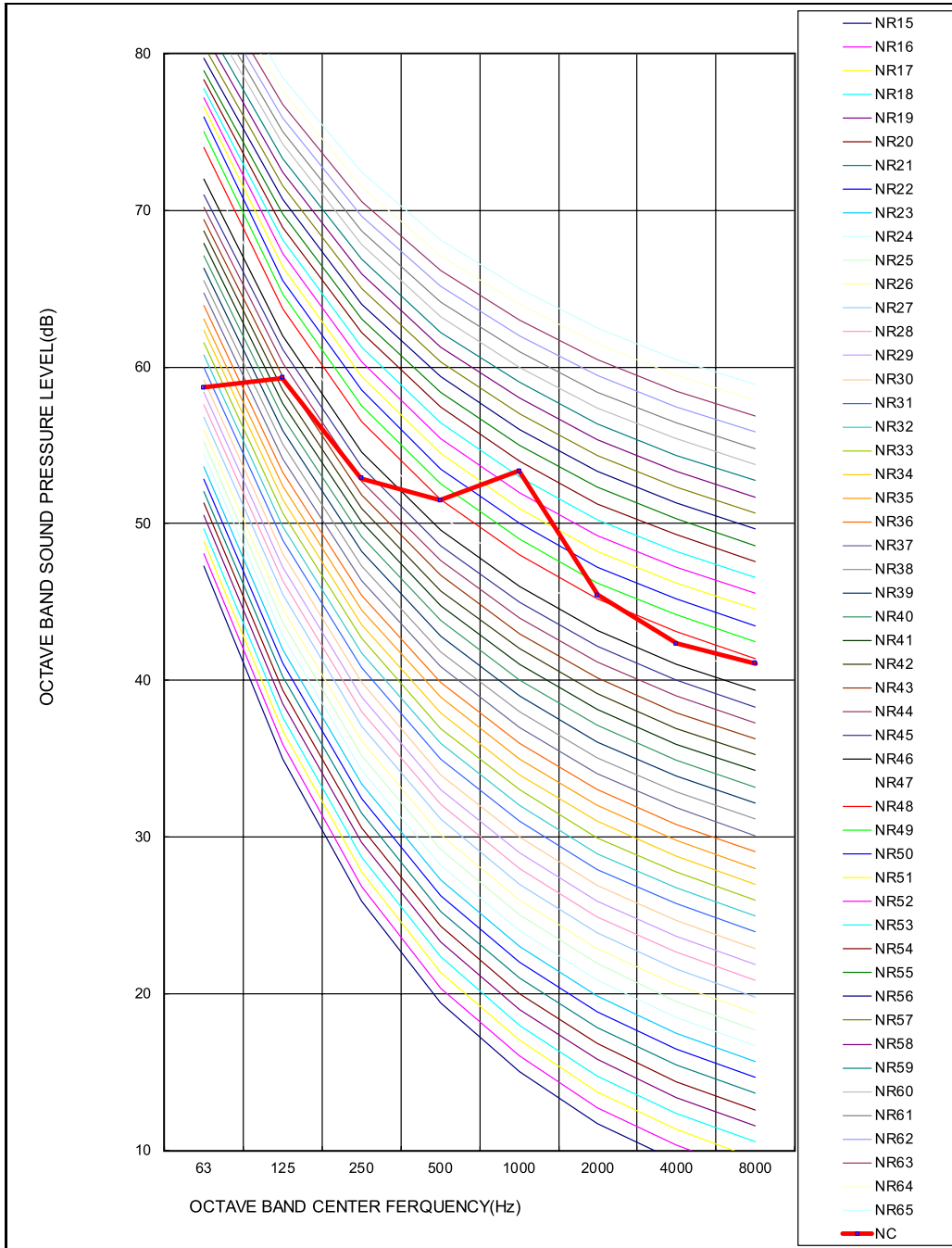


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71P/A-S, GUD71PS/A-S  
Cooling

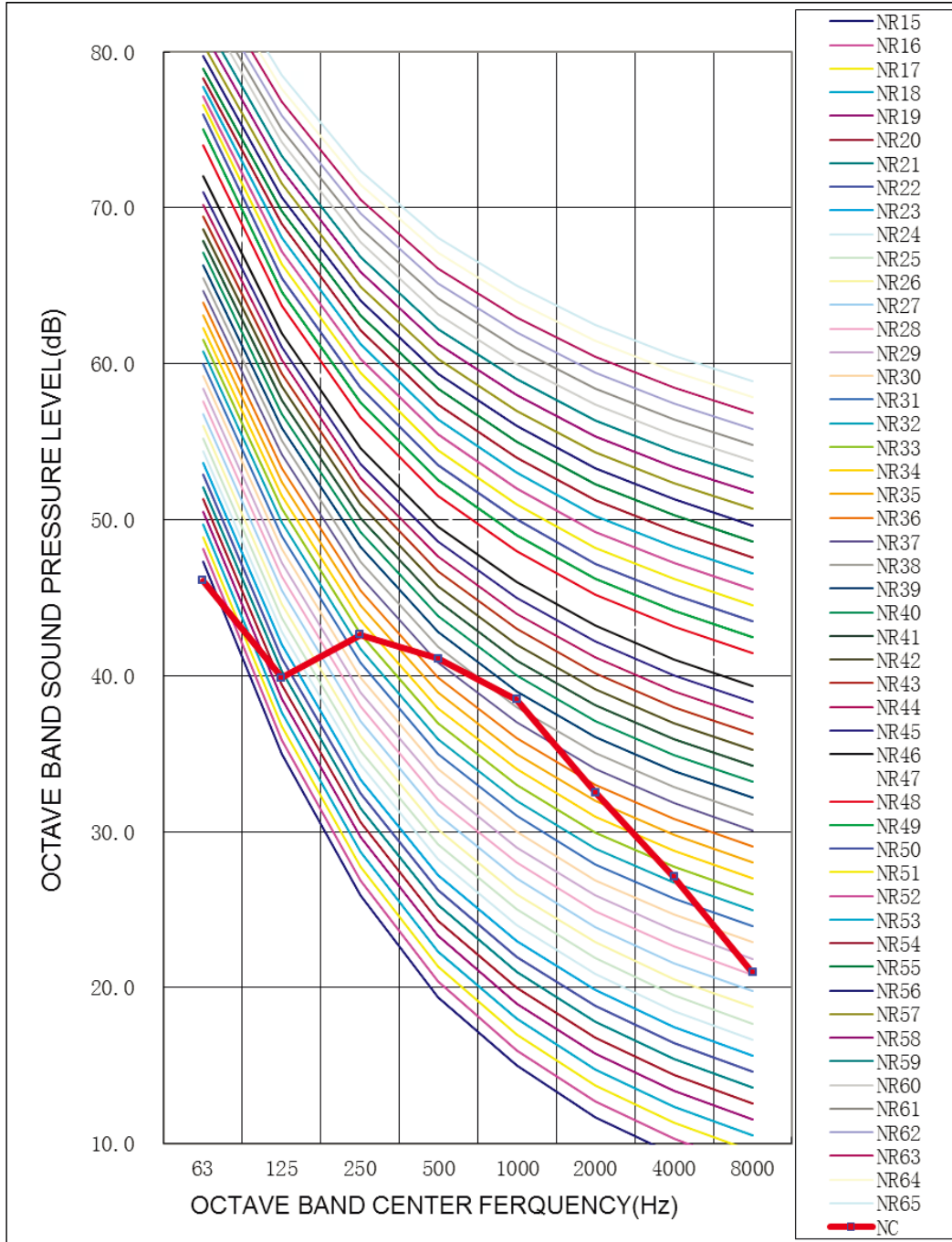


## Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

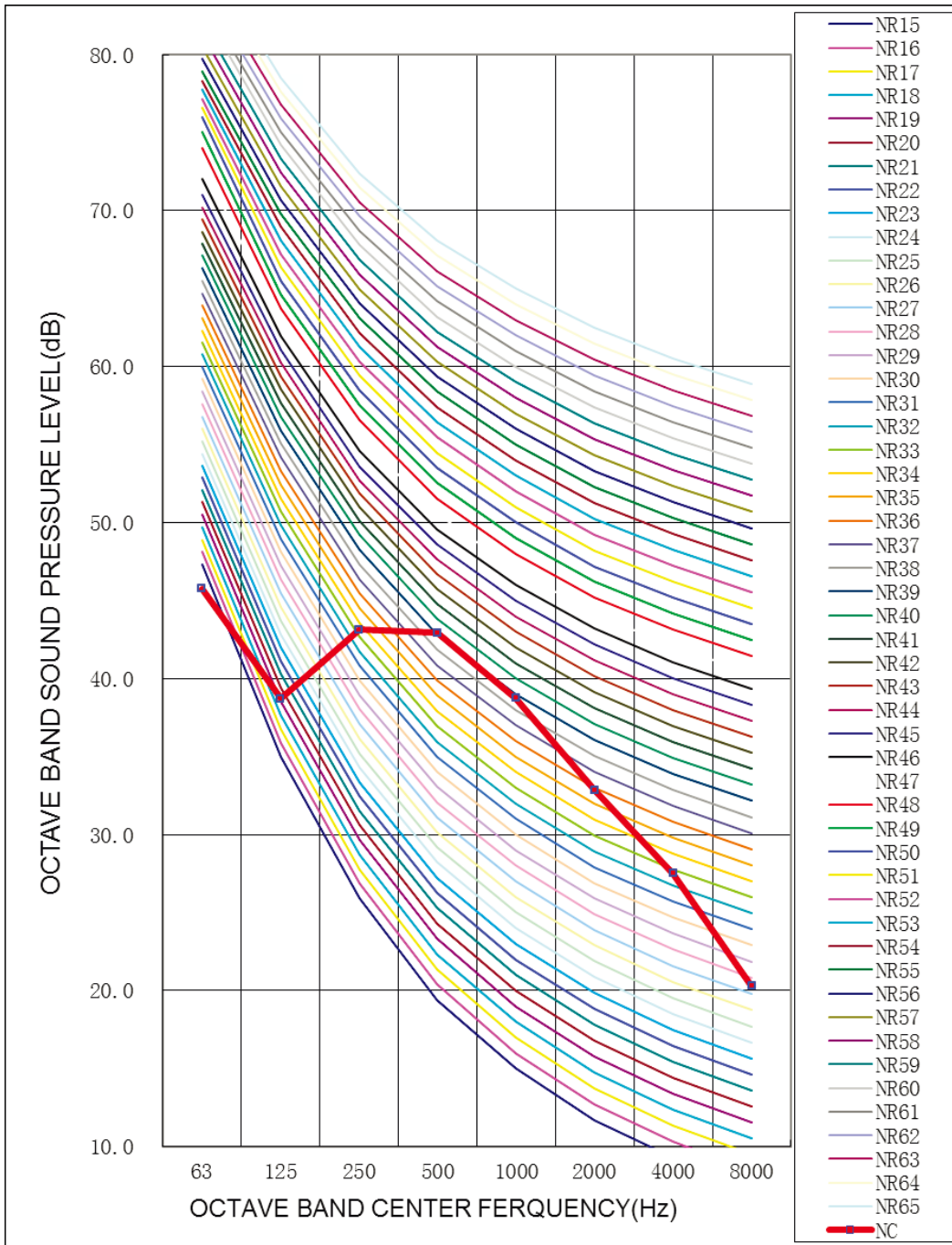
GUD100PH/A-S, GUD100PHS/A-S  
 Cooling





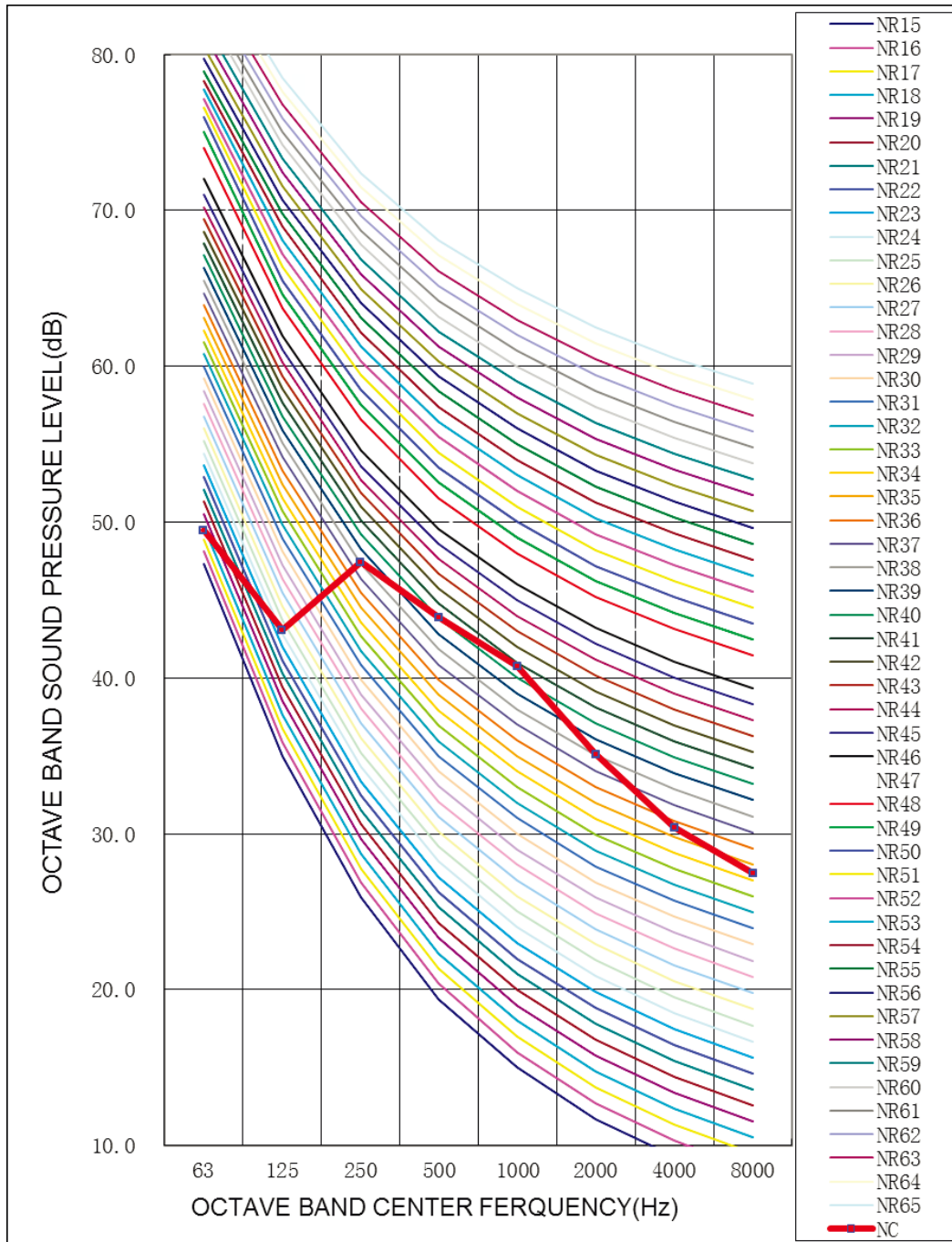
# U-MATCH SERIES AIR CONDITIONERS

Heating



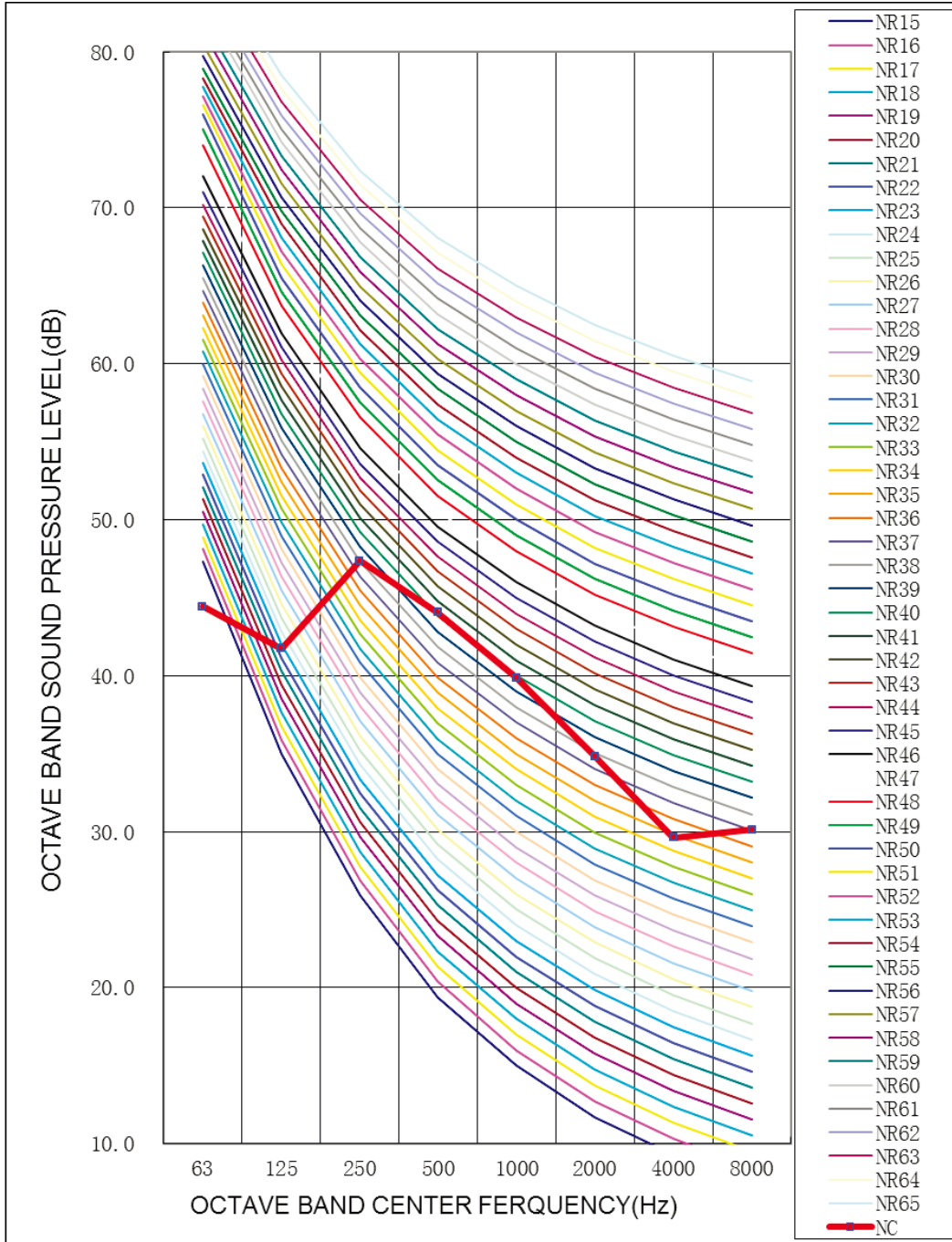
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD125PH/A-S, GUD125PHS/A-S  
Cooling



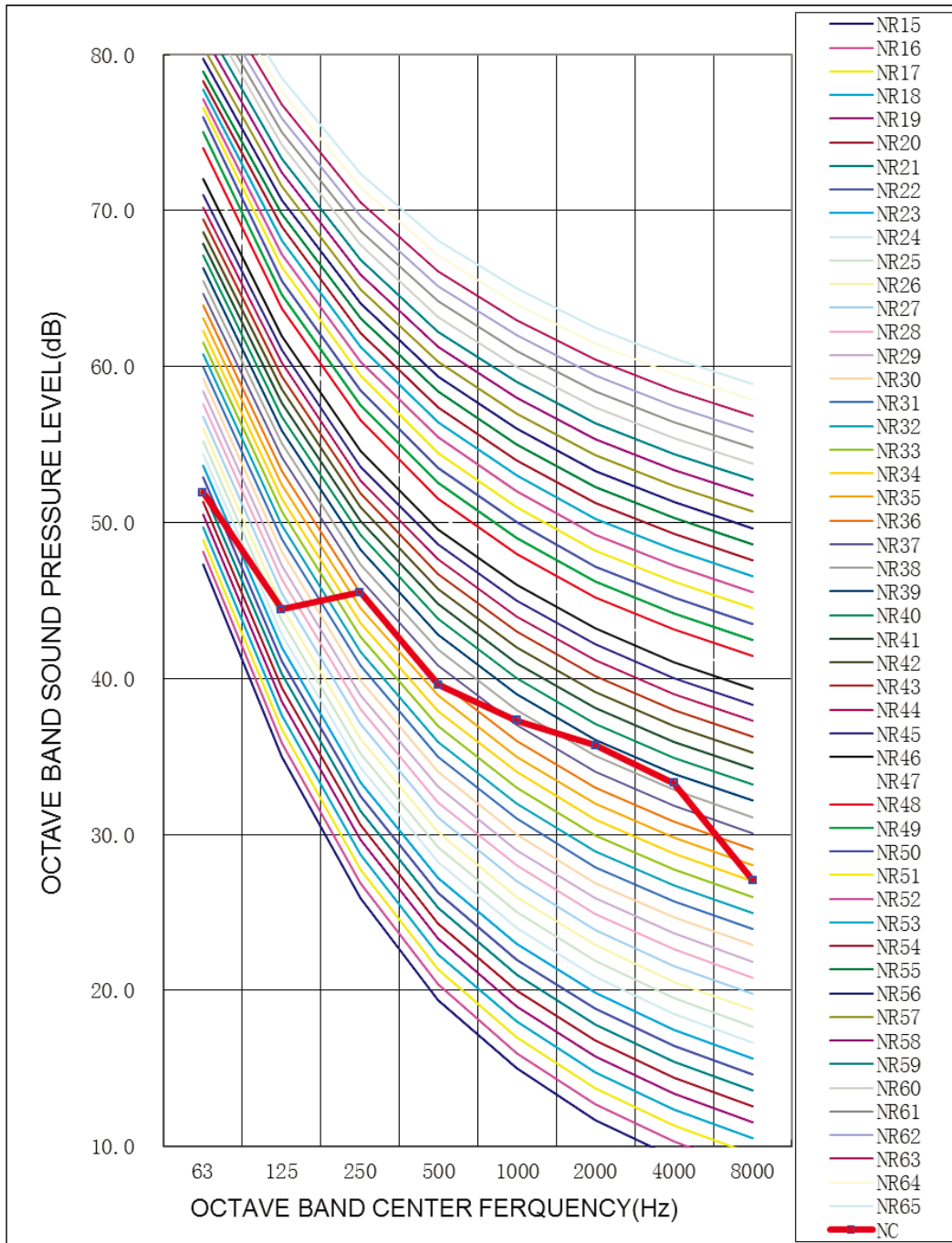
# U-MATCH SERIES AIR CONDITIONERS

Heating



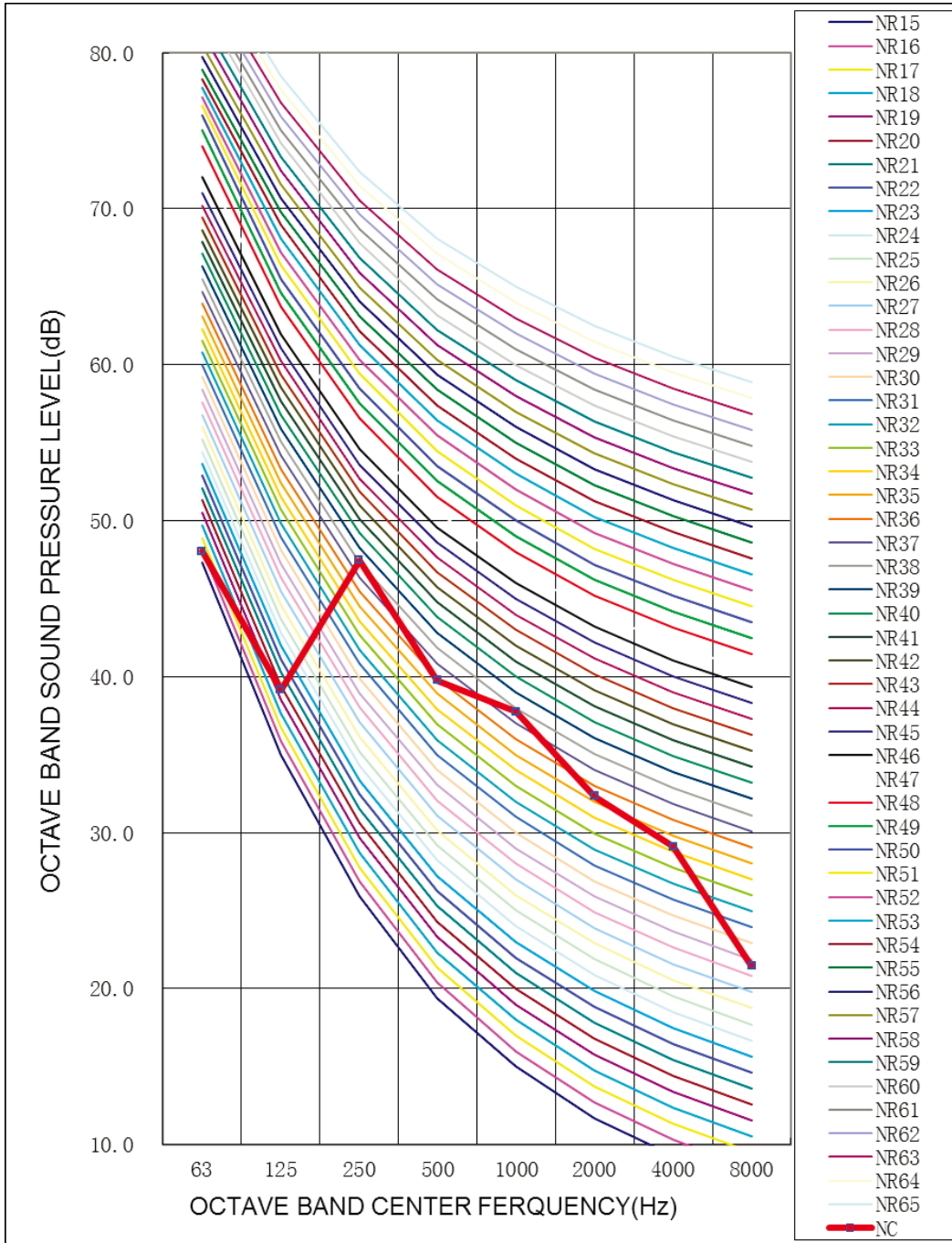
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD140PH/A-S, GUD140PHS/A-S  
Cooling



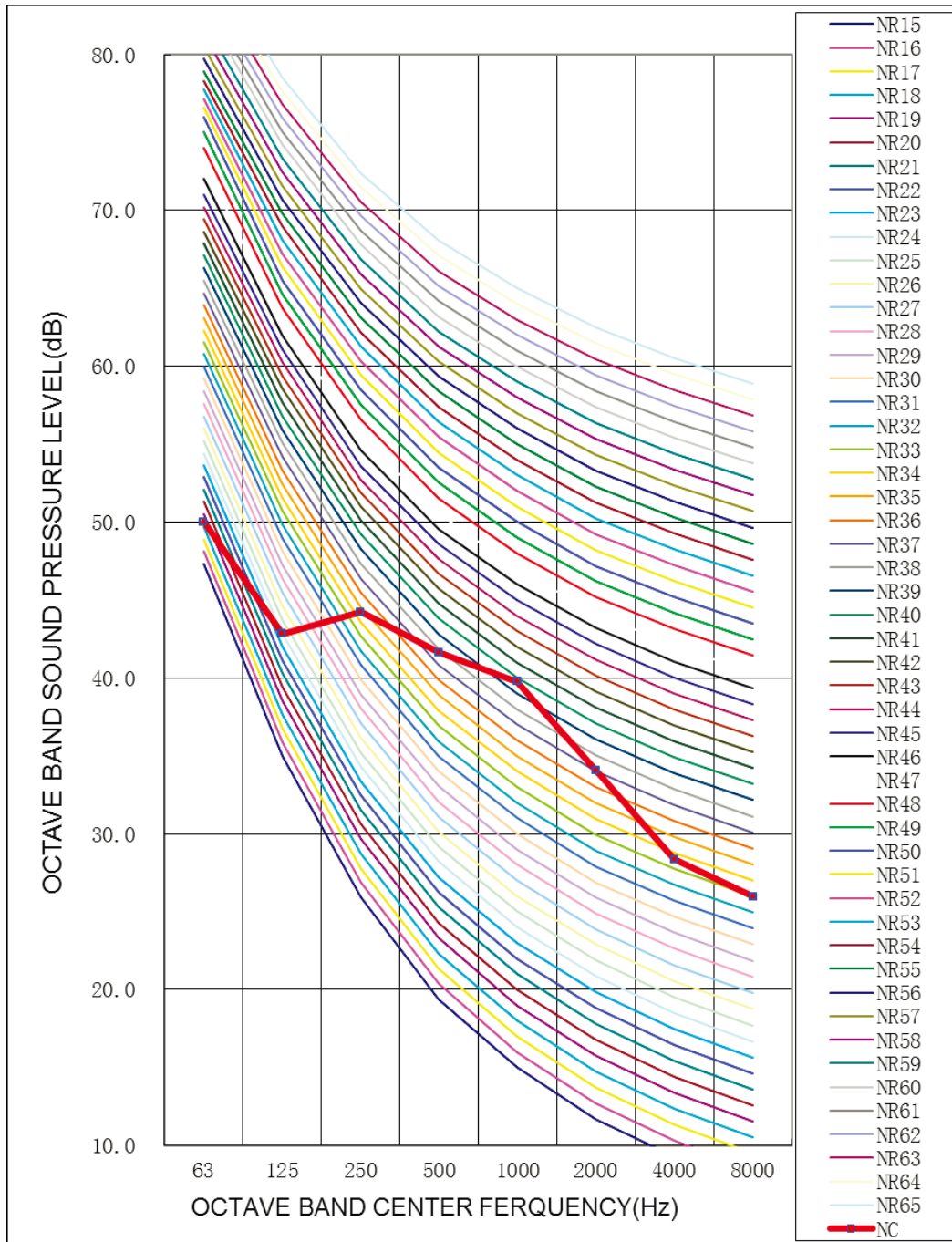
# U-MATCH SERIES AIR CONDITIONERS

Heating



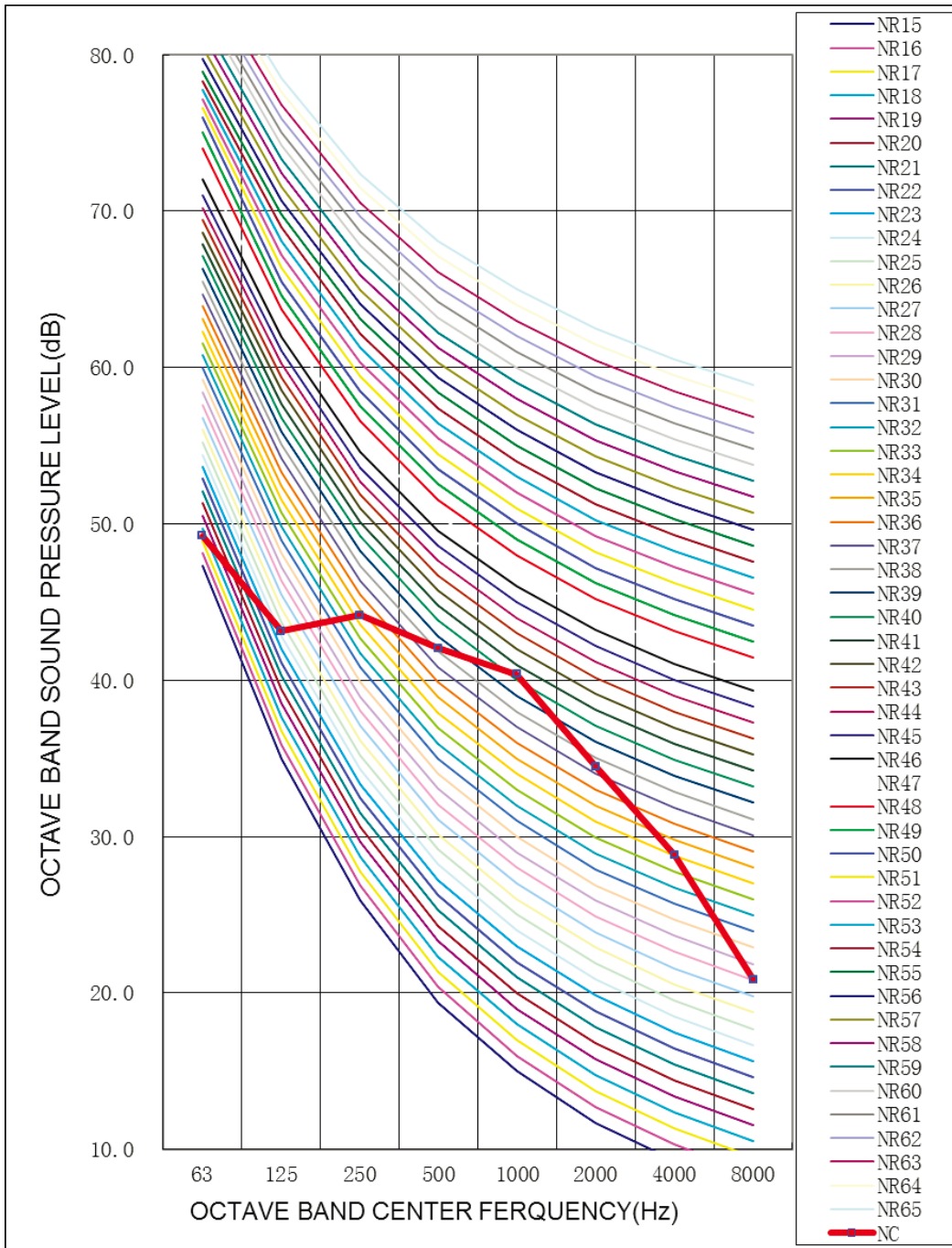
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD160PH/A-S, GUD160PHS/A-S  
Cooling



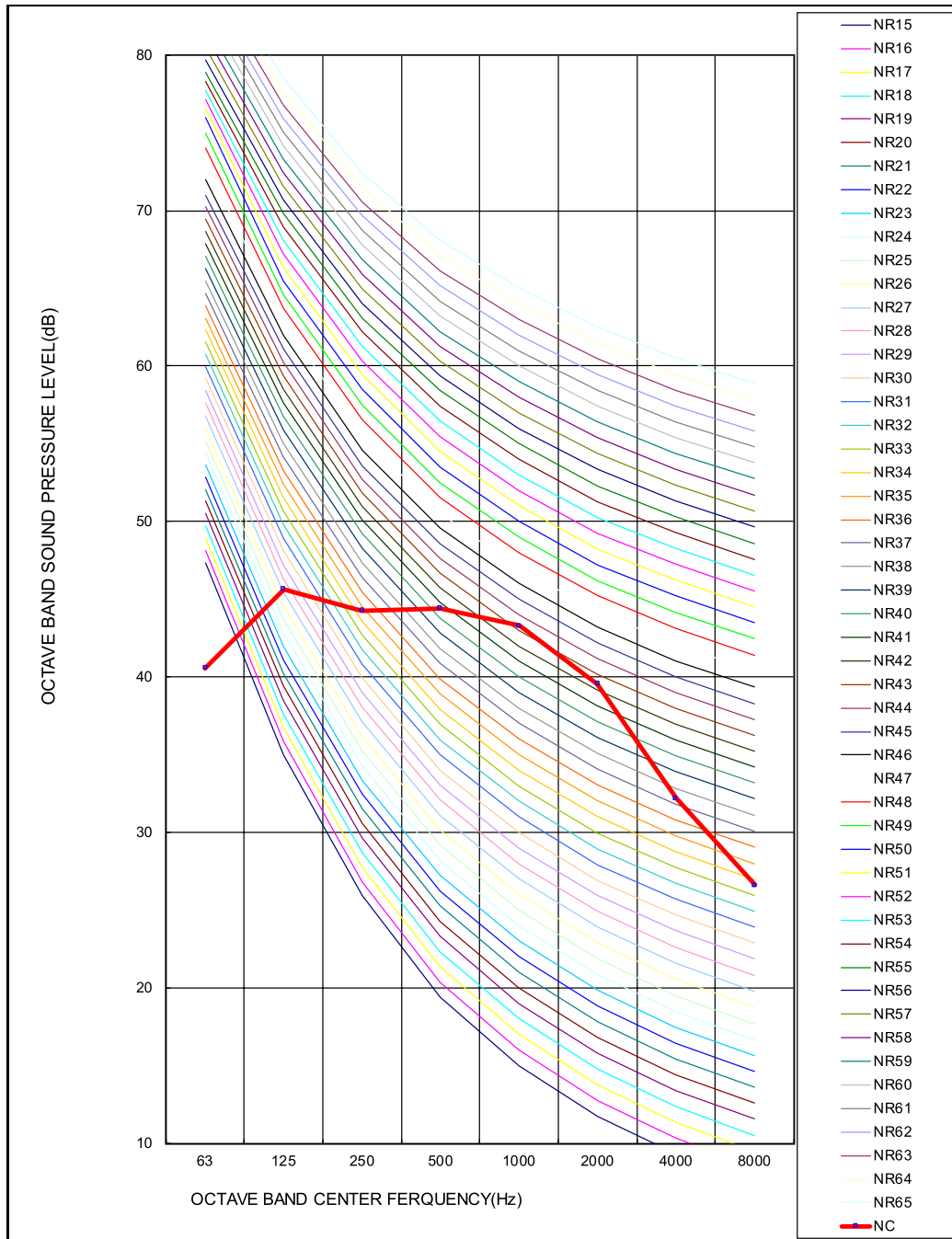
# U-MATCH SERIES AIR CONDITIONERS

Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

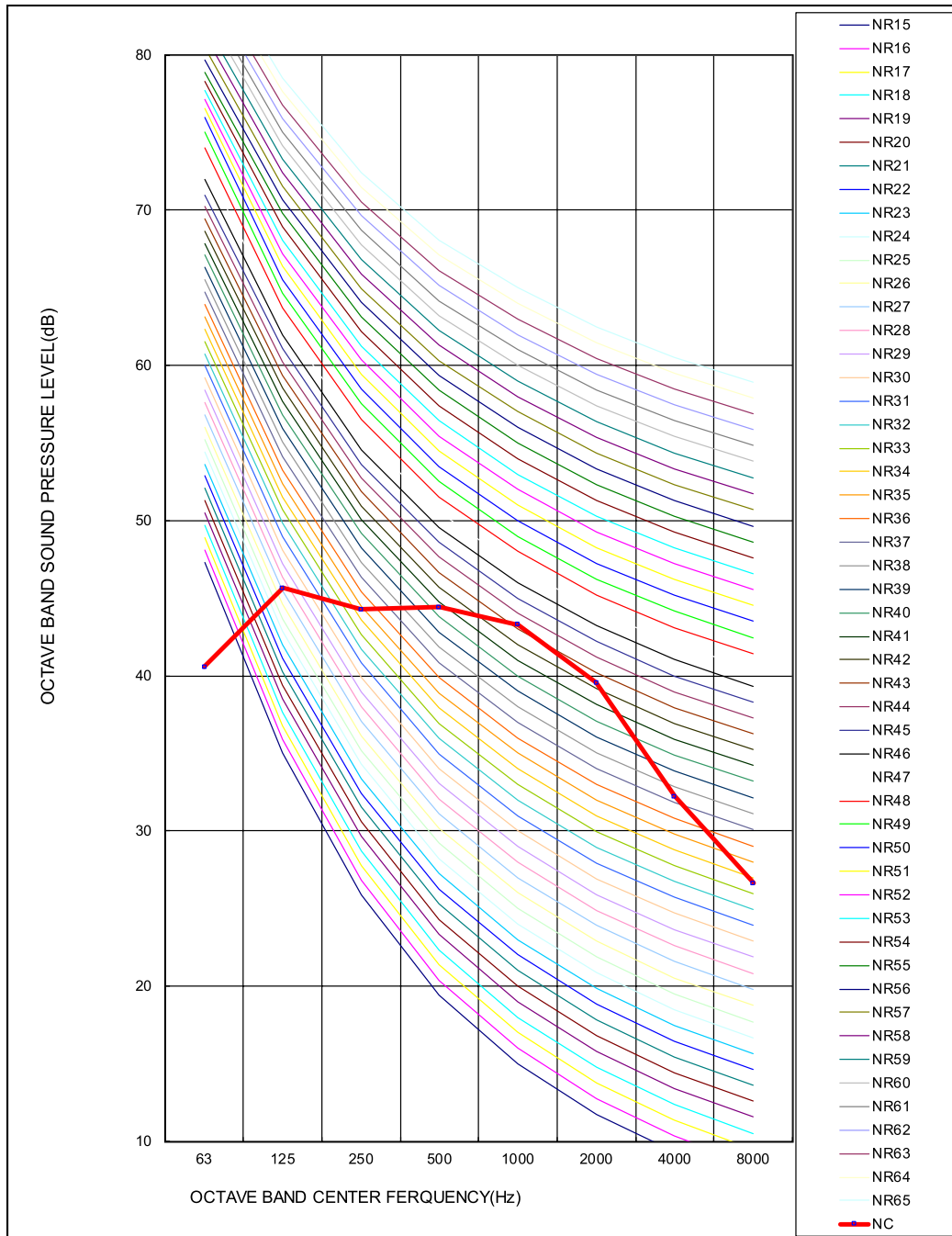
GUD35ZD/A-S  
Cooling





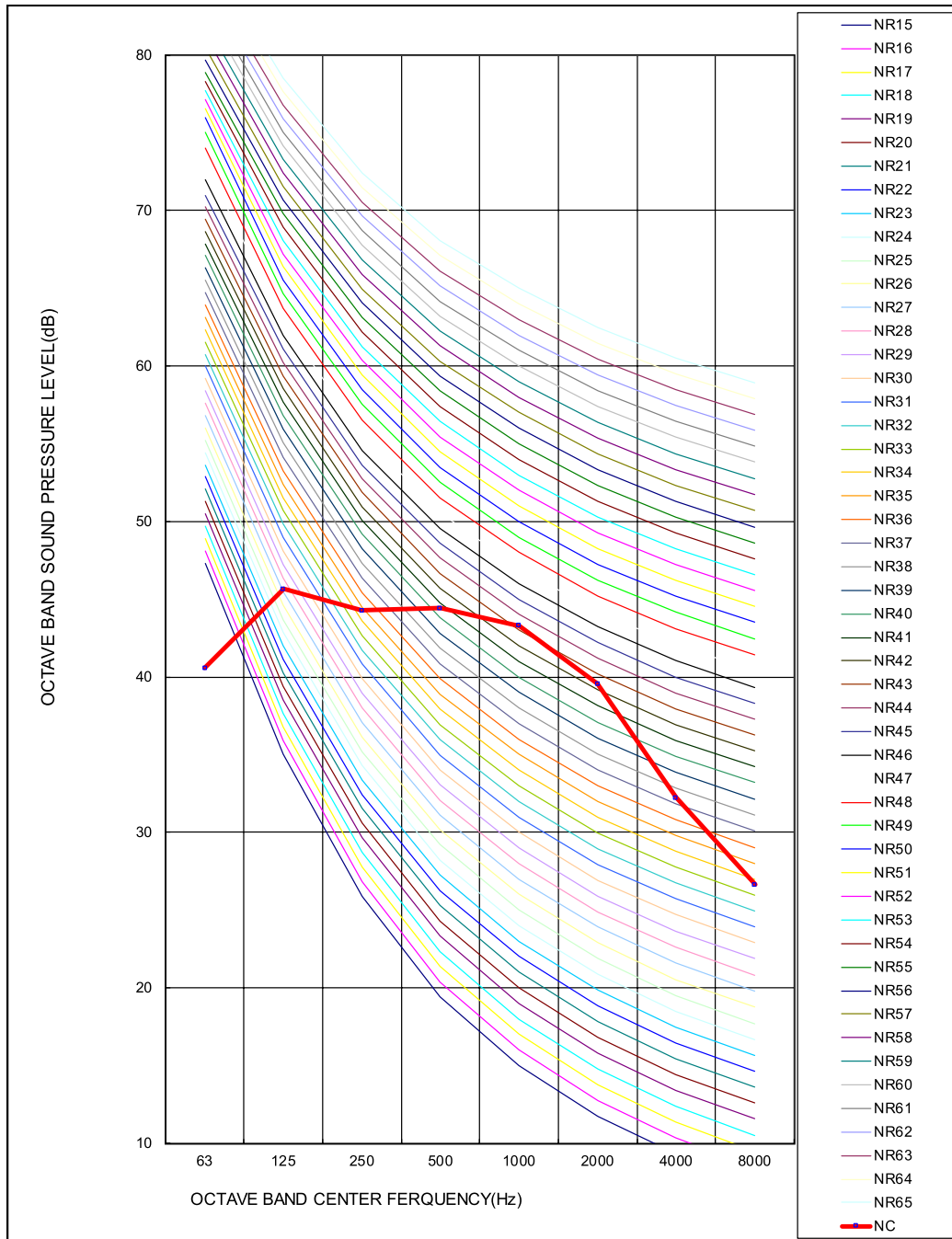
# U-MATCH SERIES AIR CONDITIONERS

## Heating



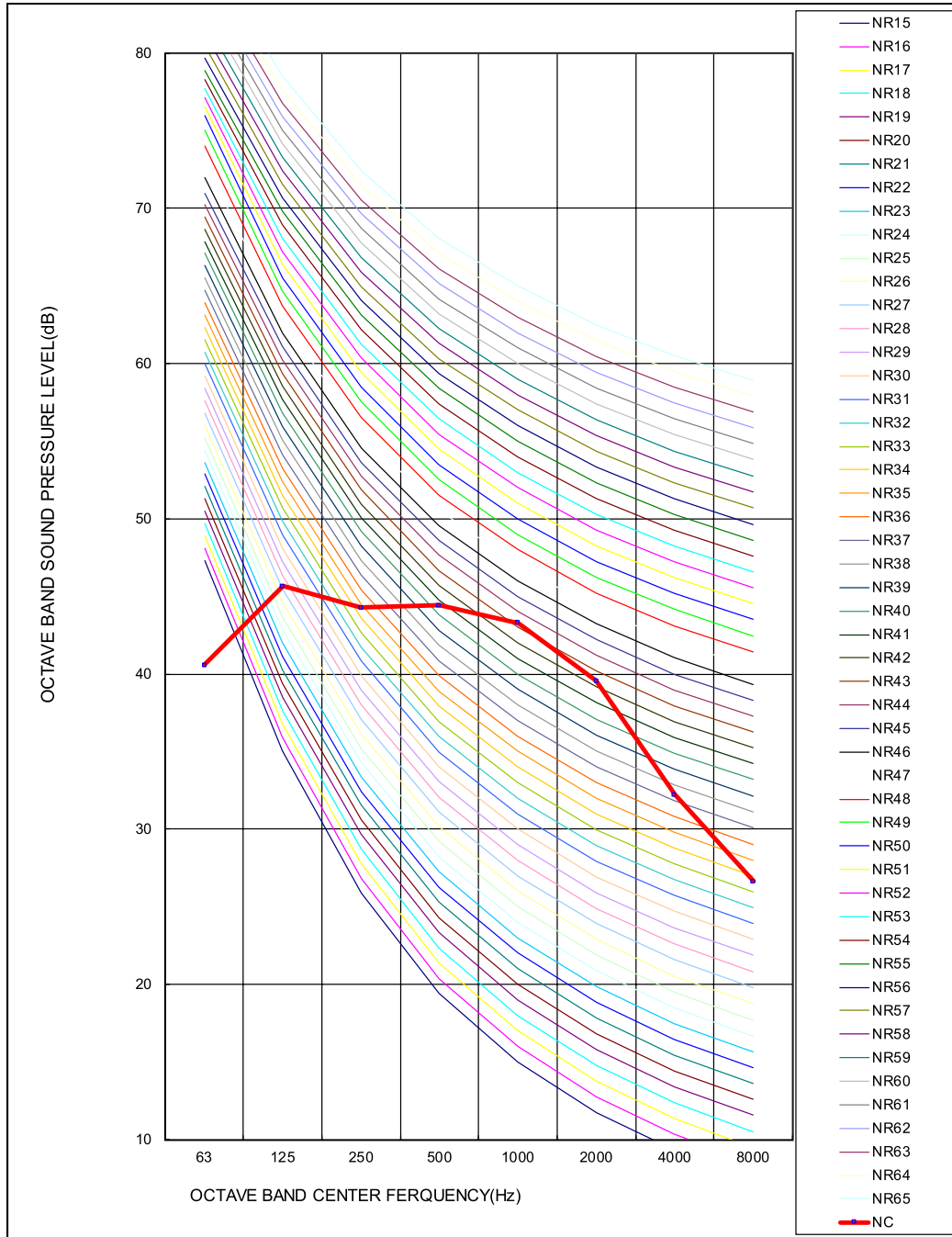
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD50ZD/A-S  
Cooling



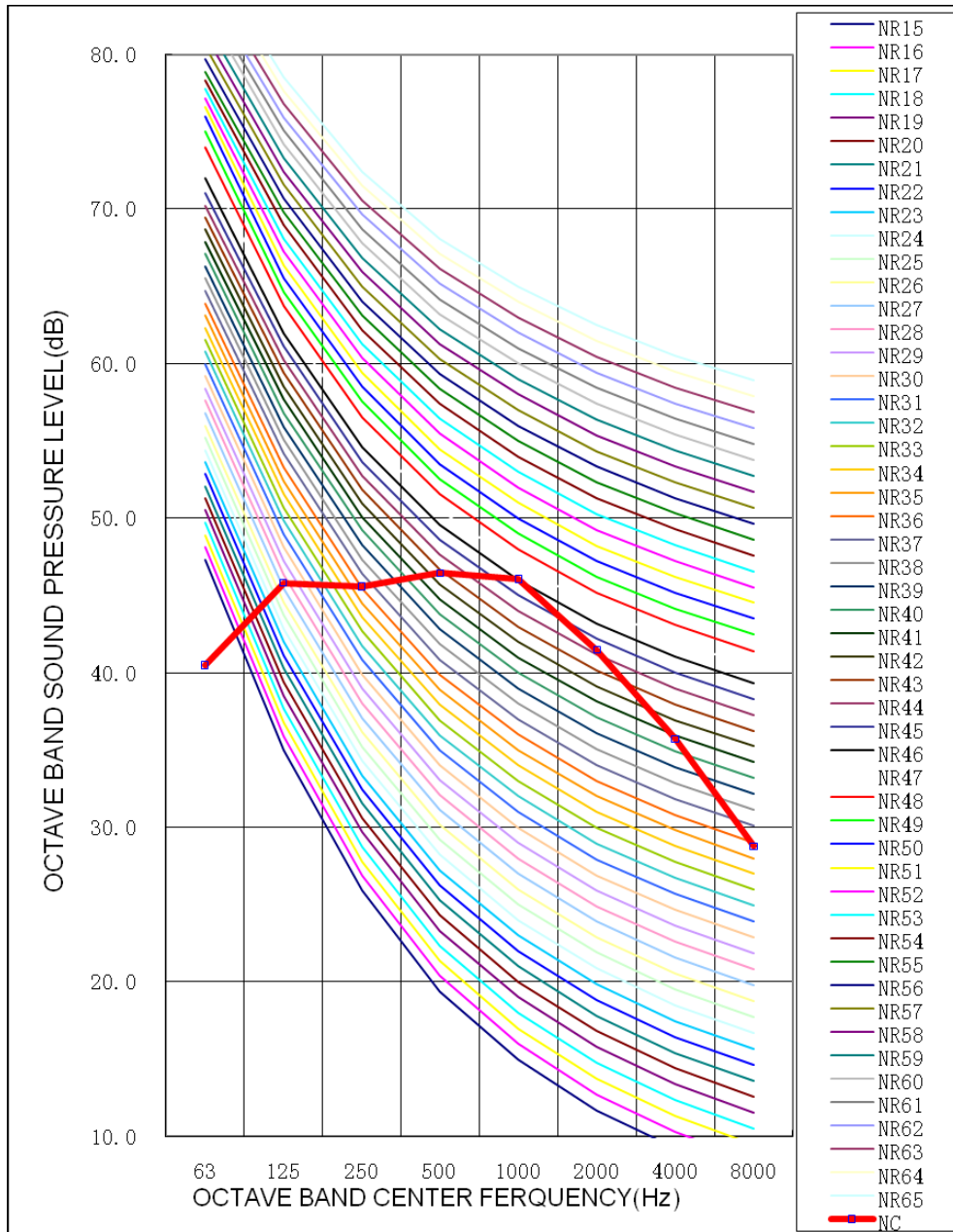
# U-MATCH SERIES AIR CONDITIONERS

## Heating

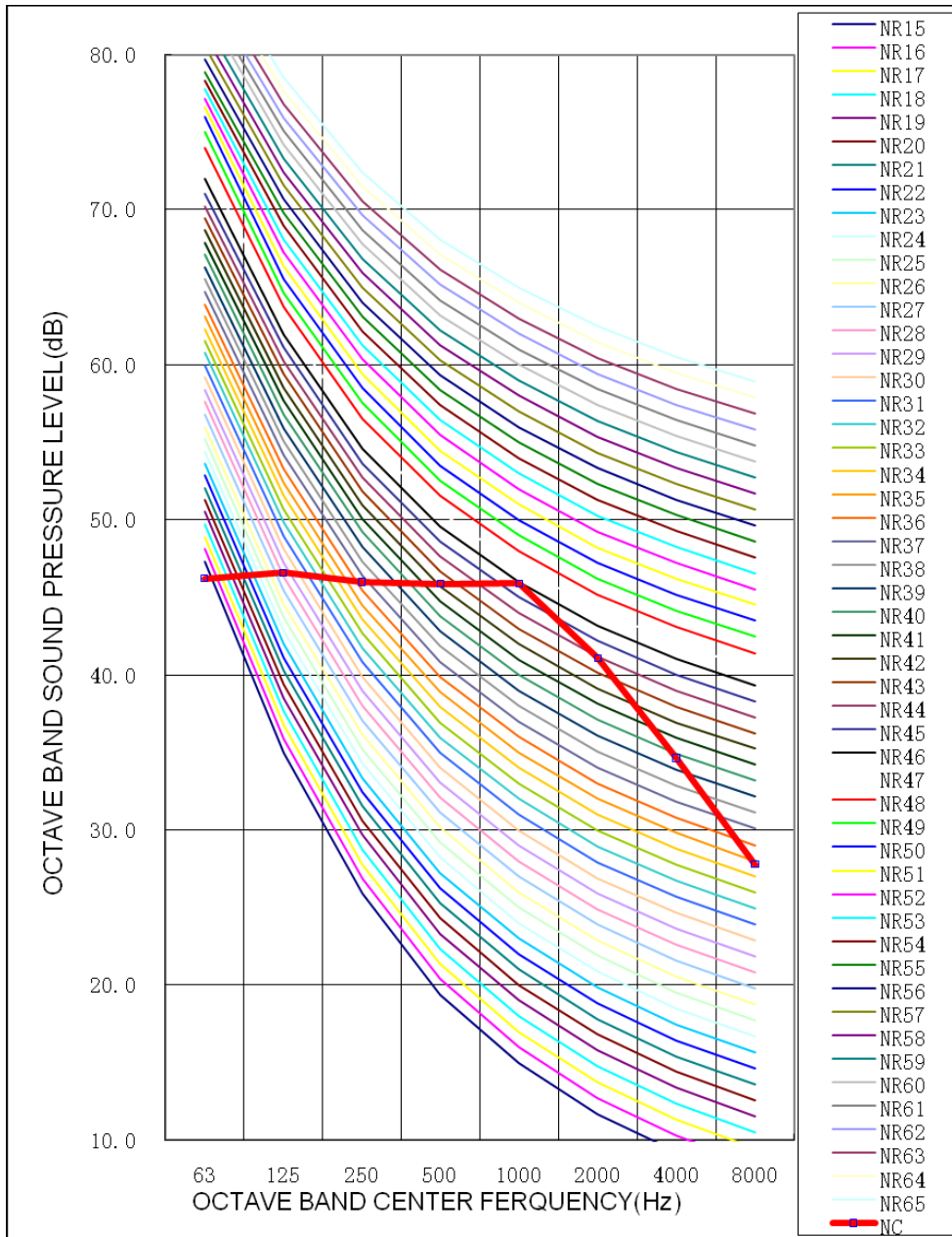


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71ZD/A1-S  
Cooling

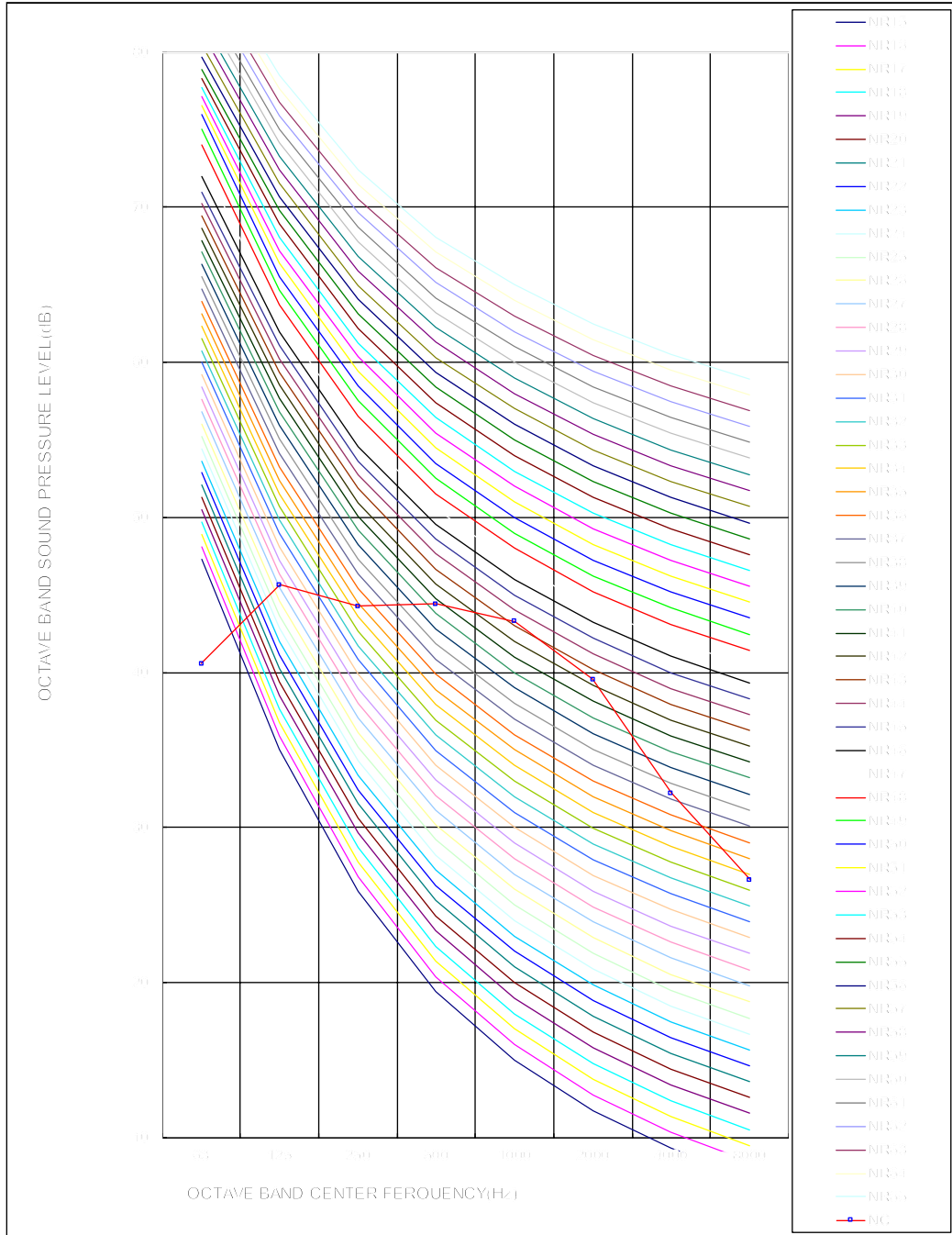


## Heating

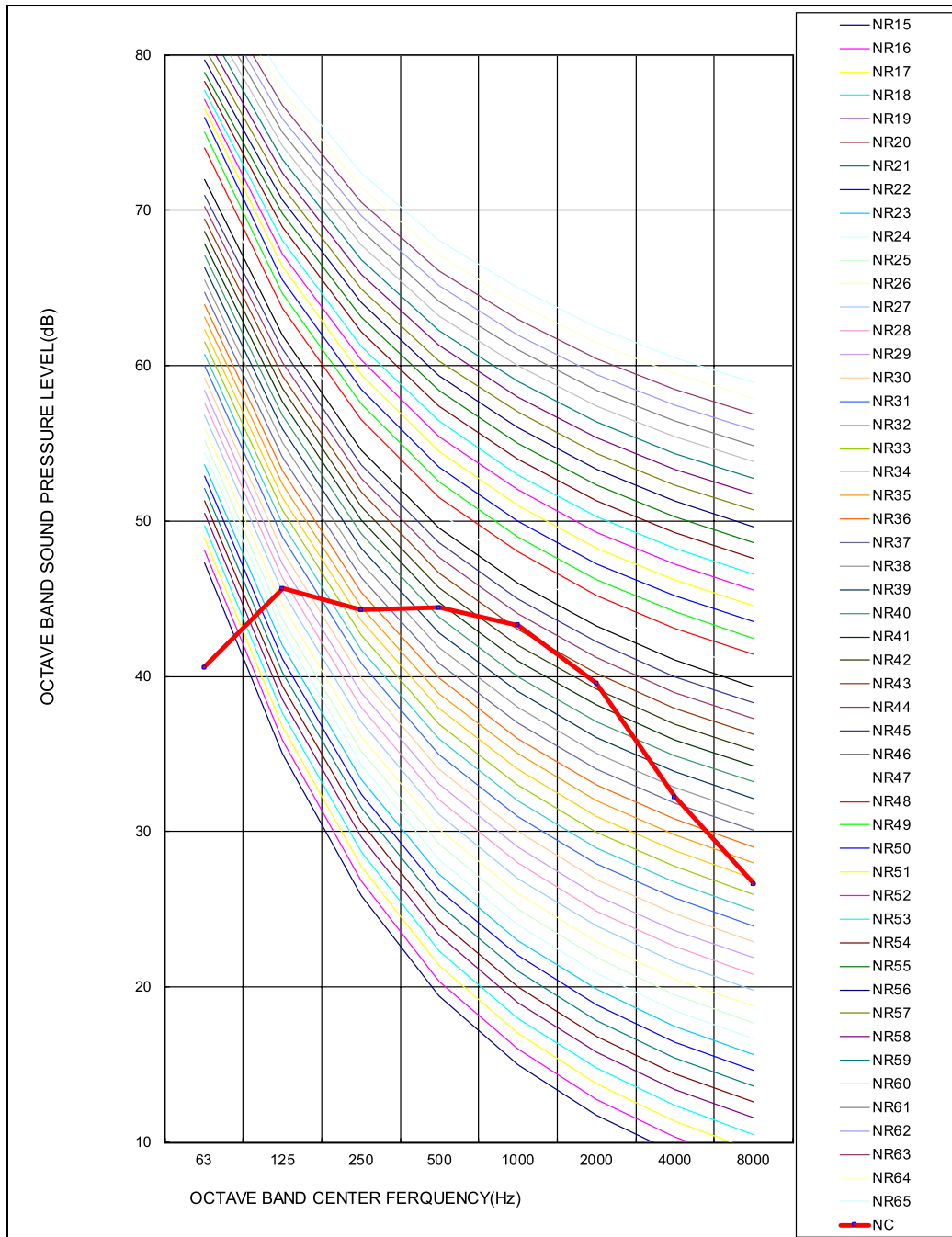


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71ZD/A-S  
Cooling

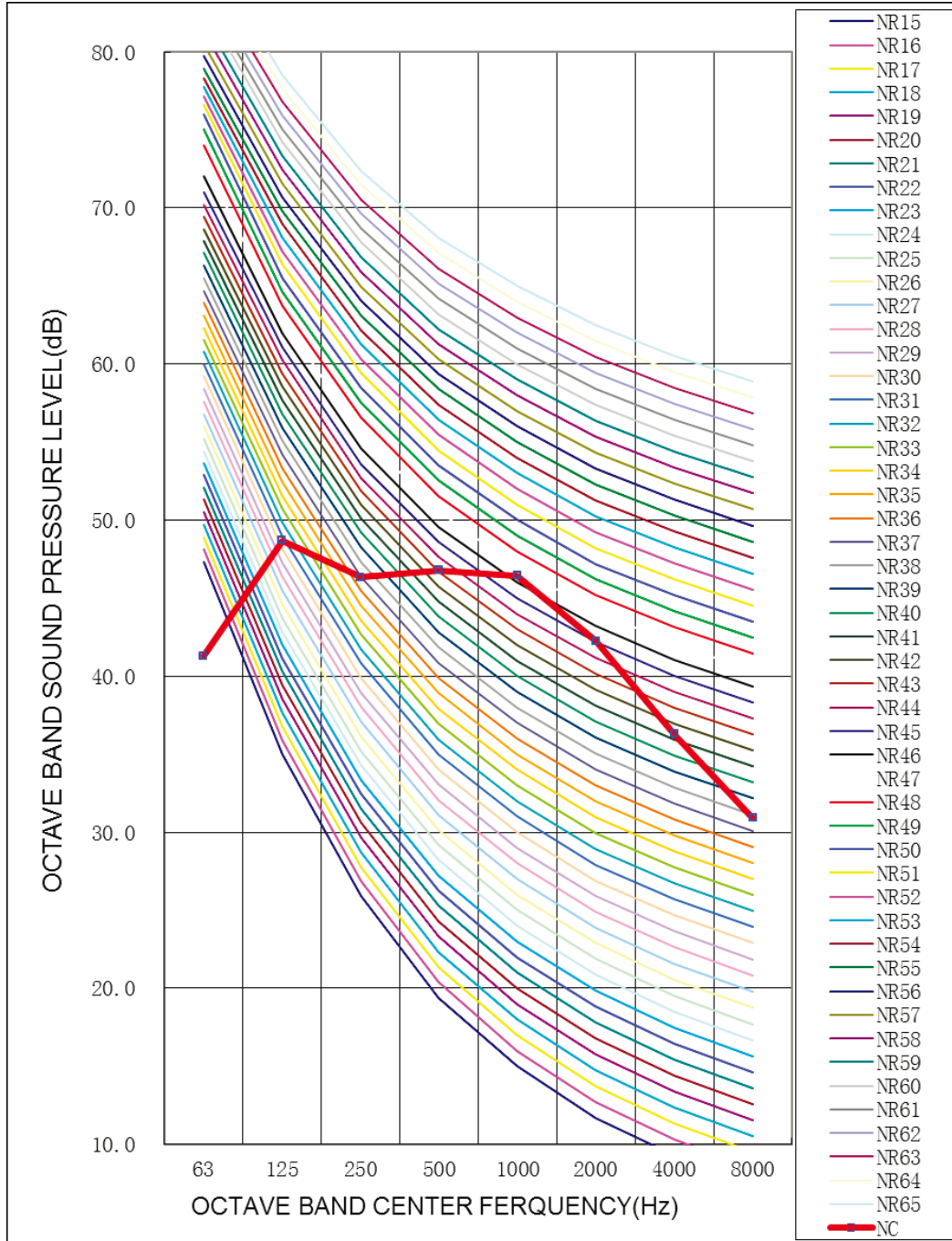


## Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

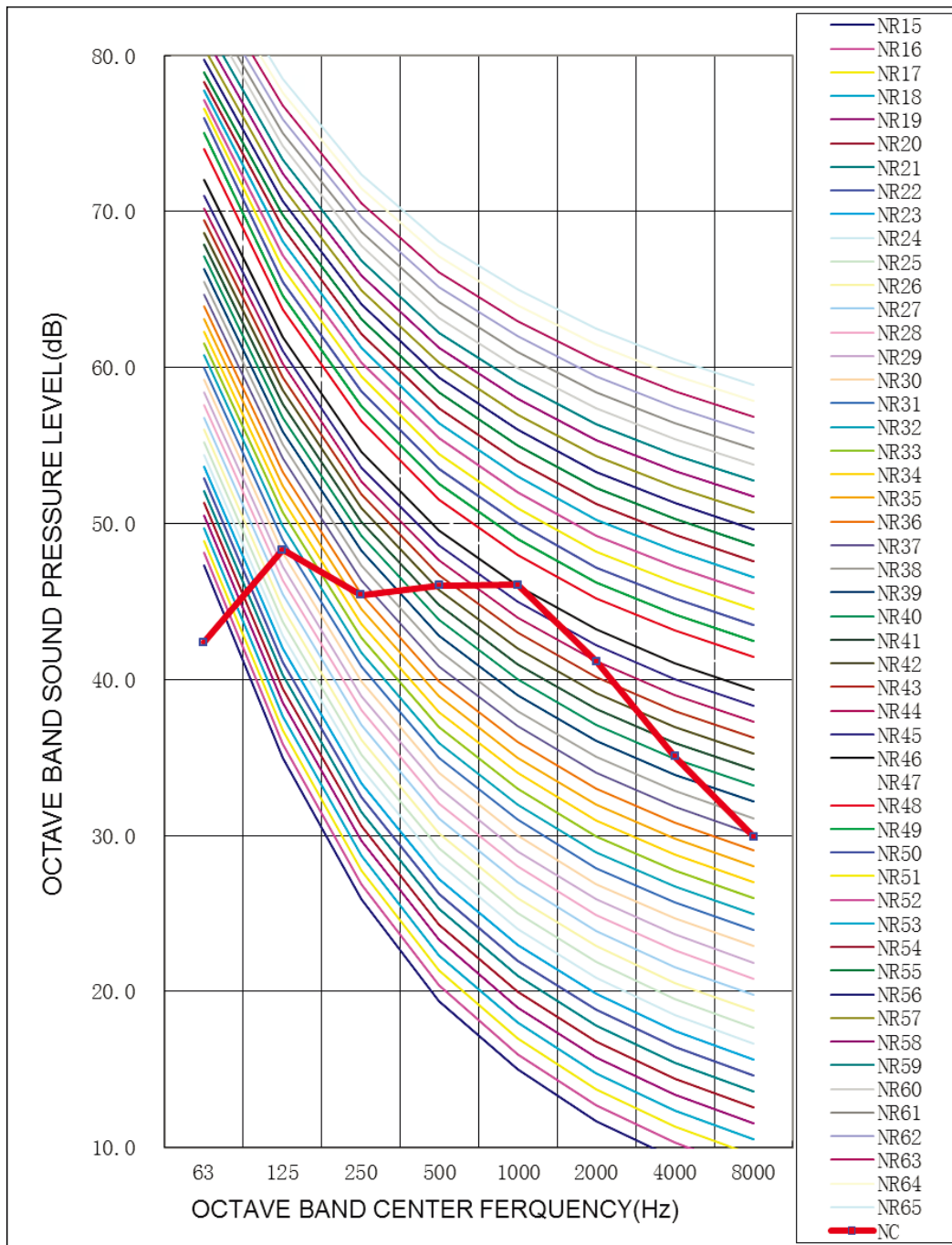
GUD100ZD/A-S  
Cooling





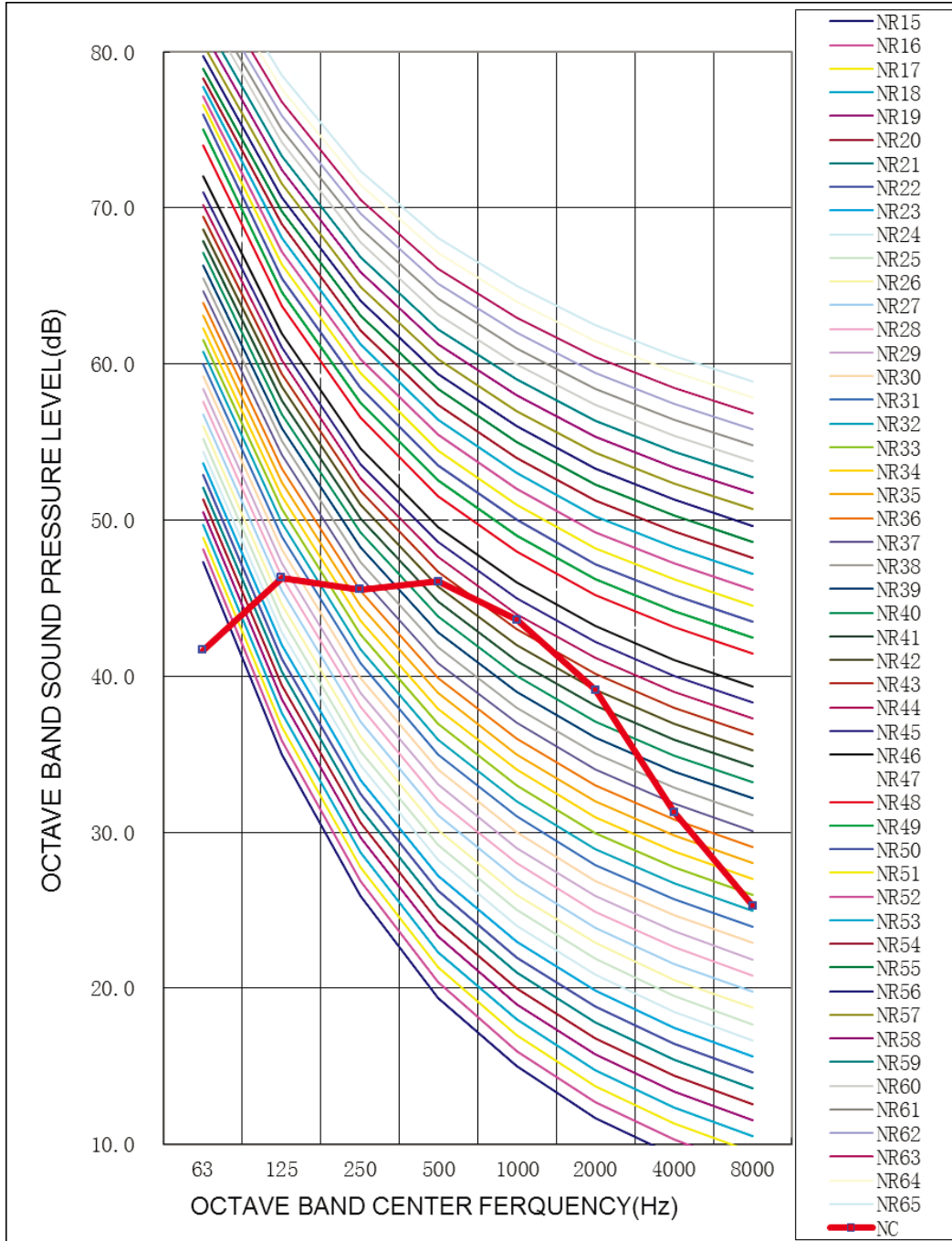
# U-MATCH SERIES AIR CONDITIONERS

Heating



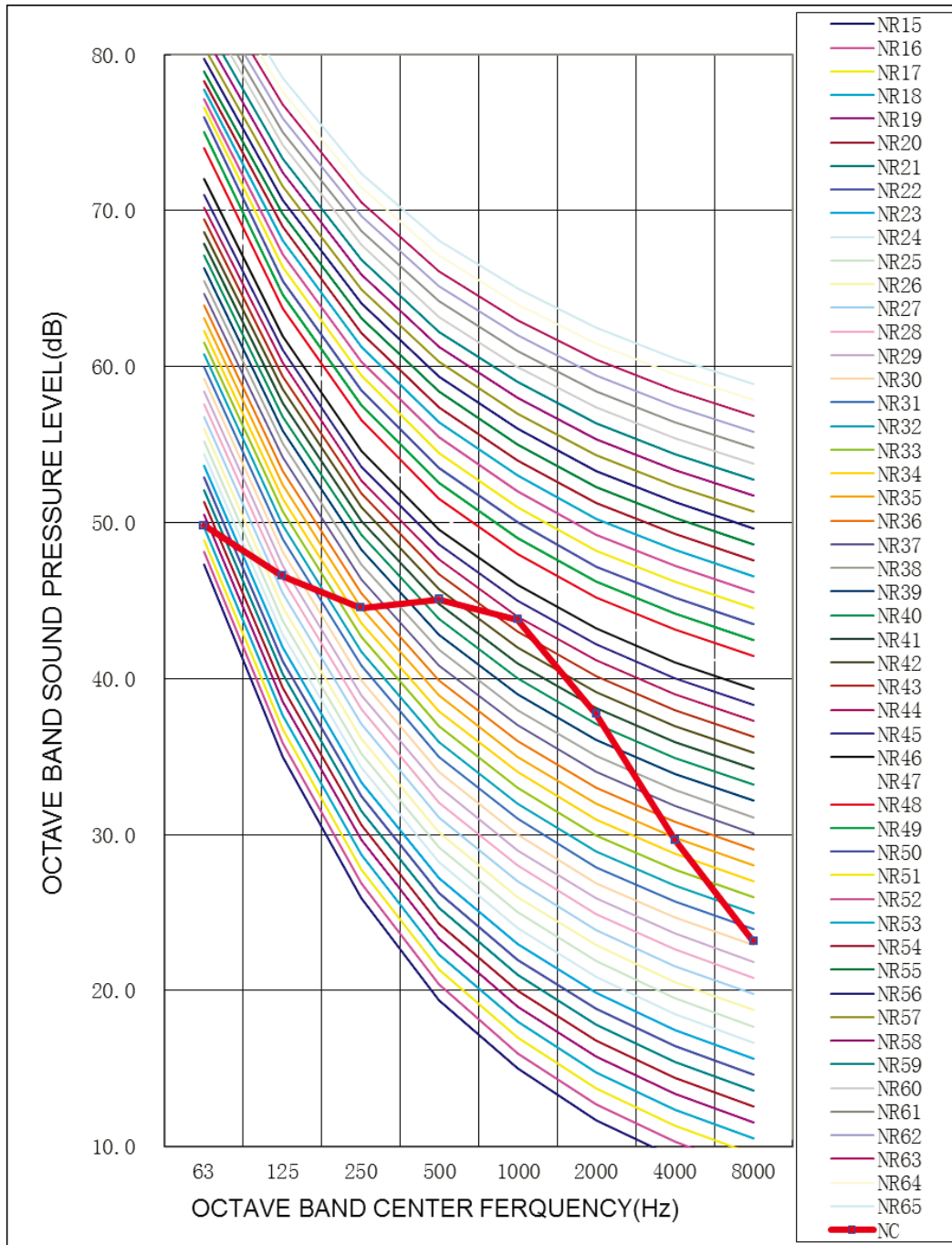
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD125ZD/A-S  
Cooling



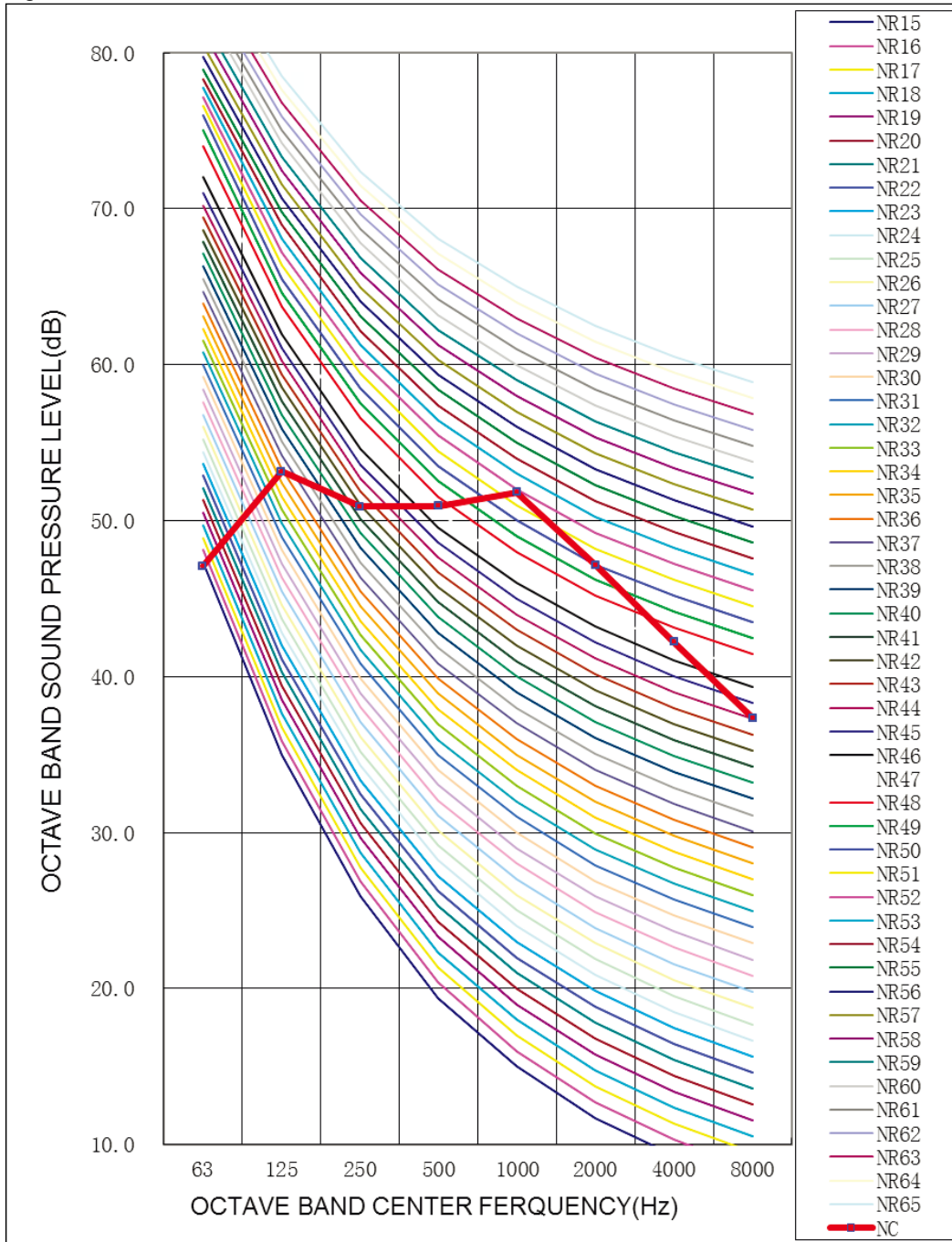
# U-MATCH SERIES AIR CONDITIONERS

Heating

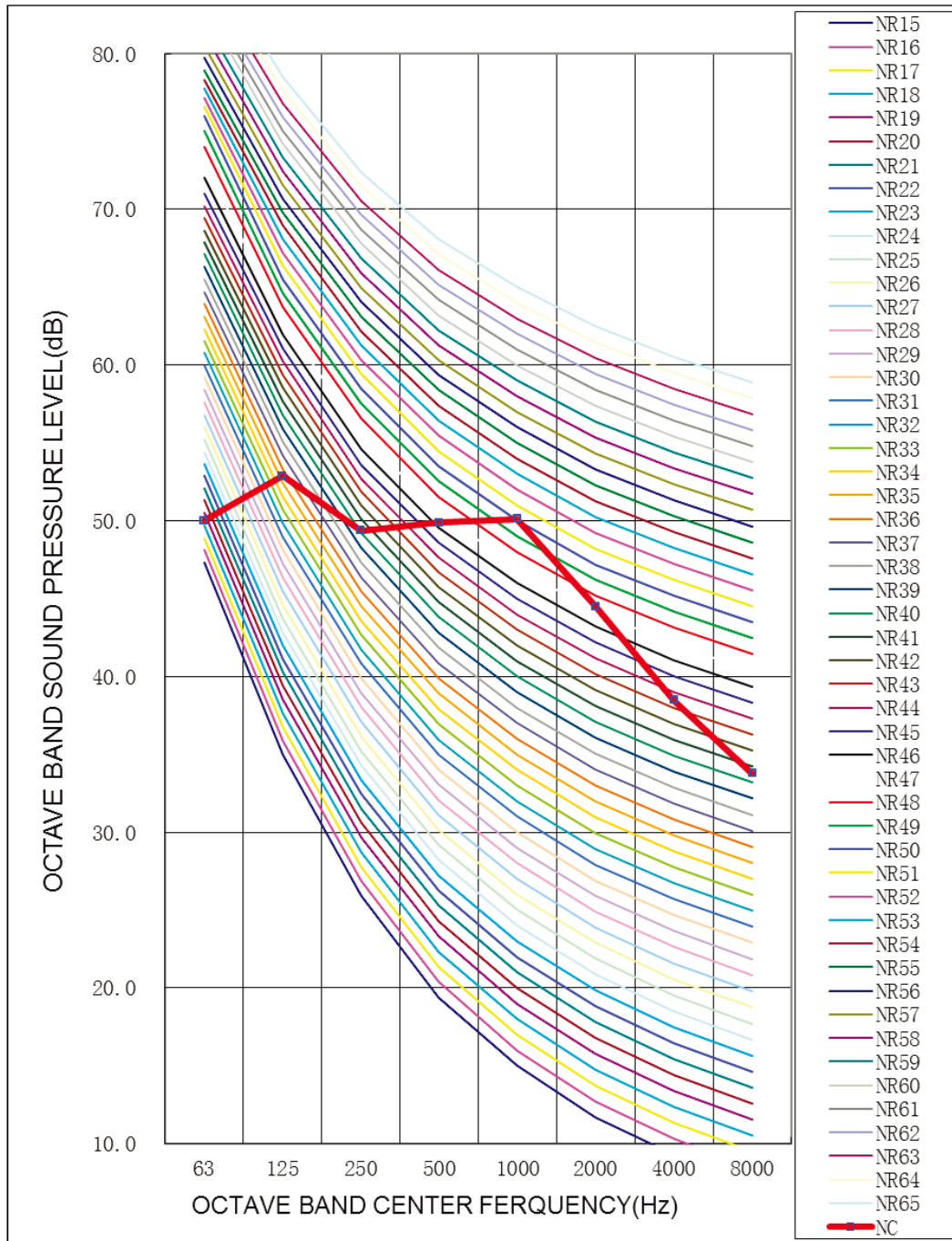


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD140ZD/A-S  
Cooling

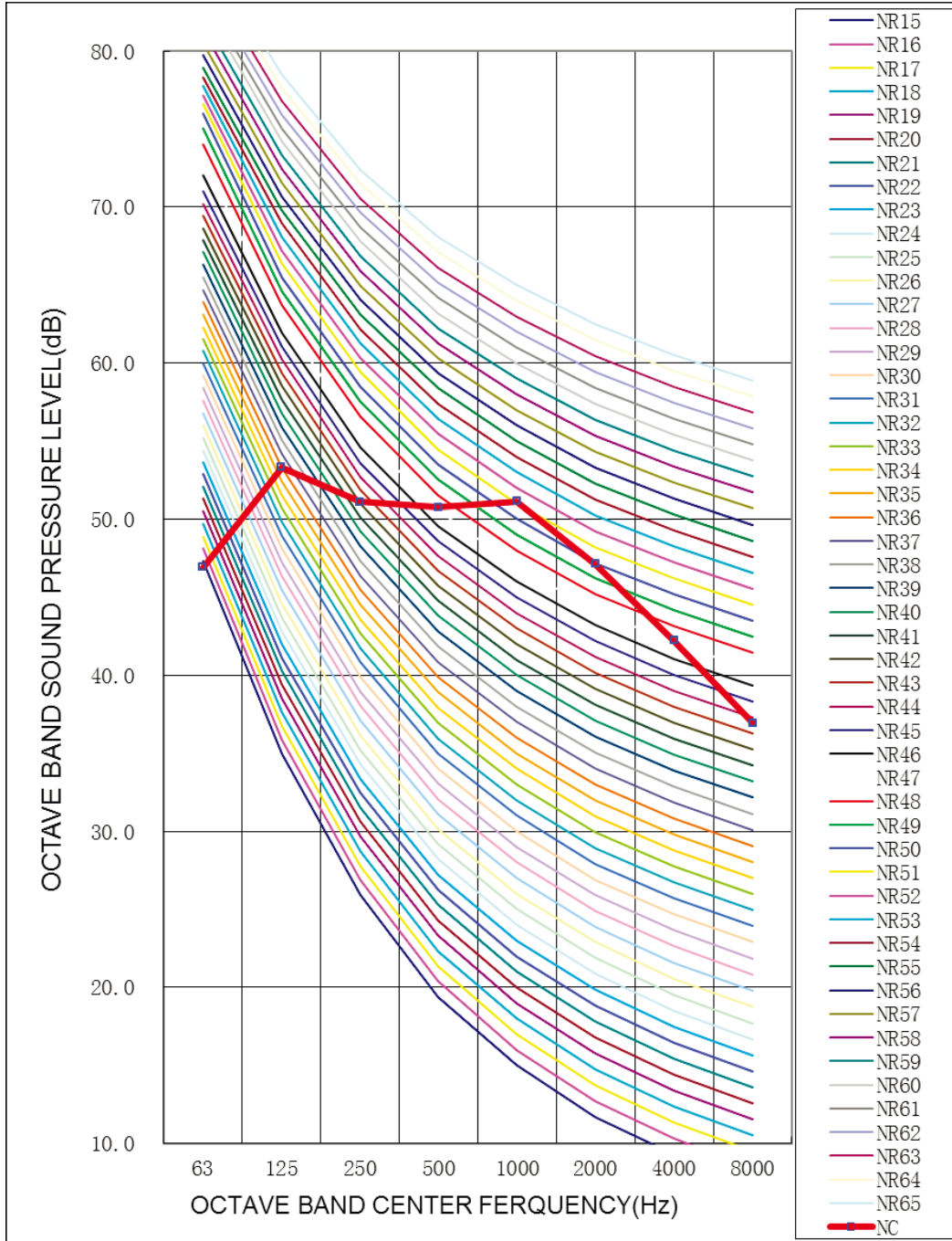


## Heating

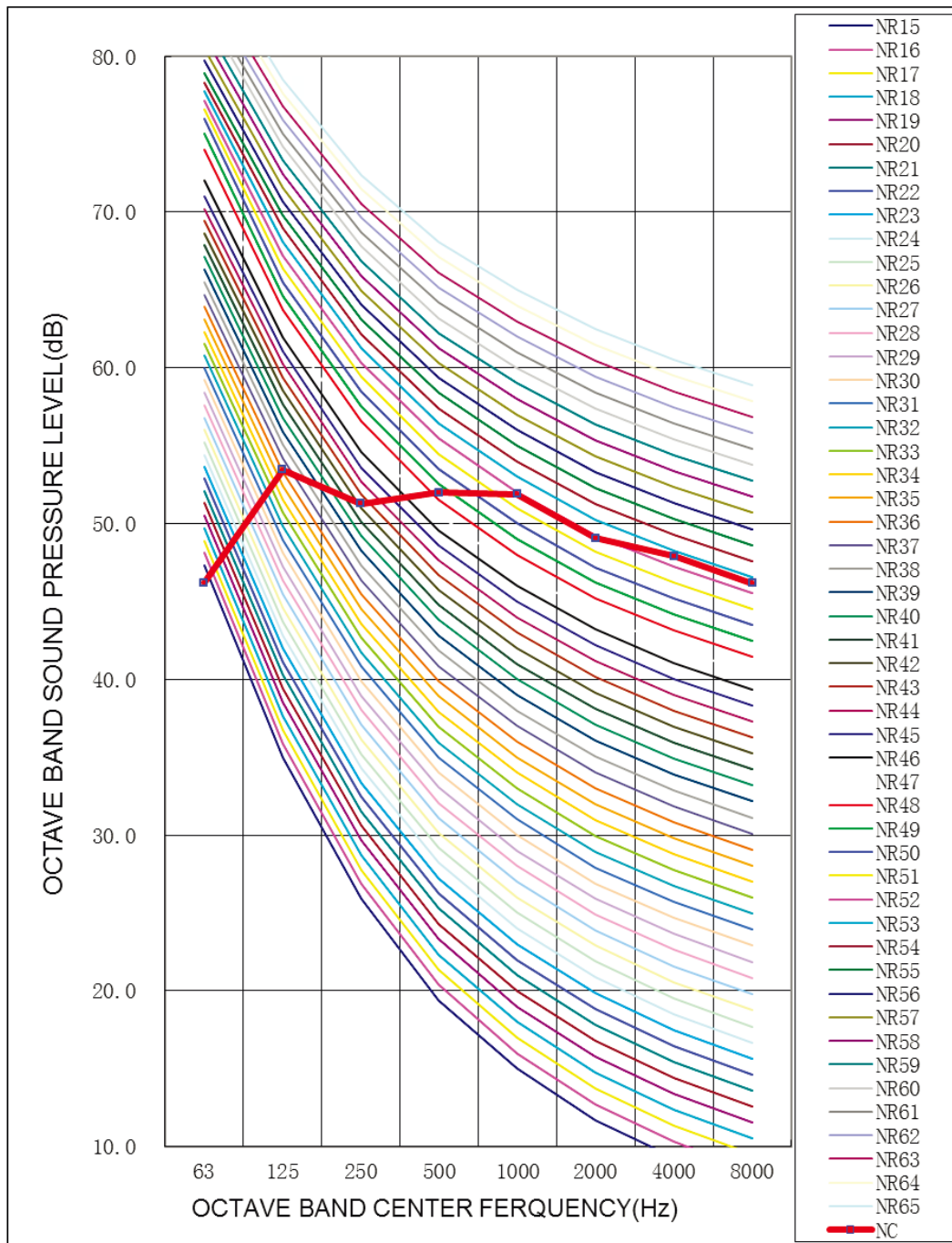


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD160ZD/A-S  
Cooling



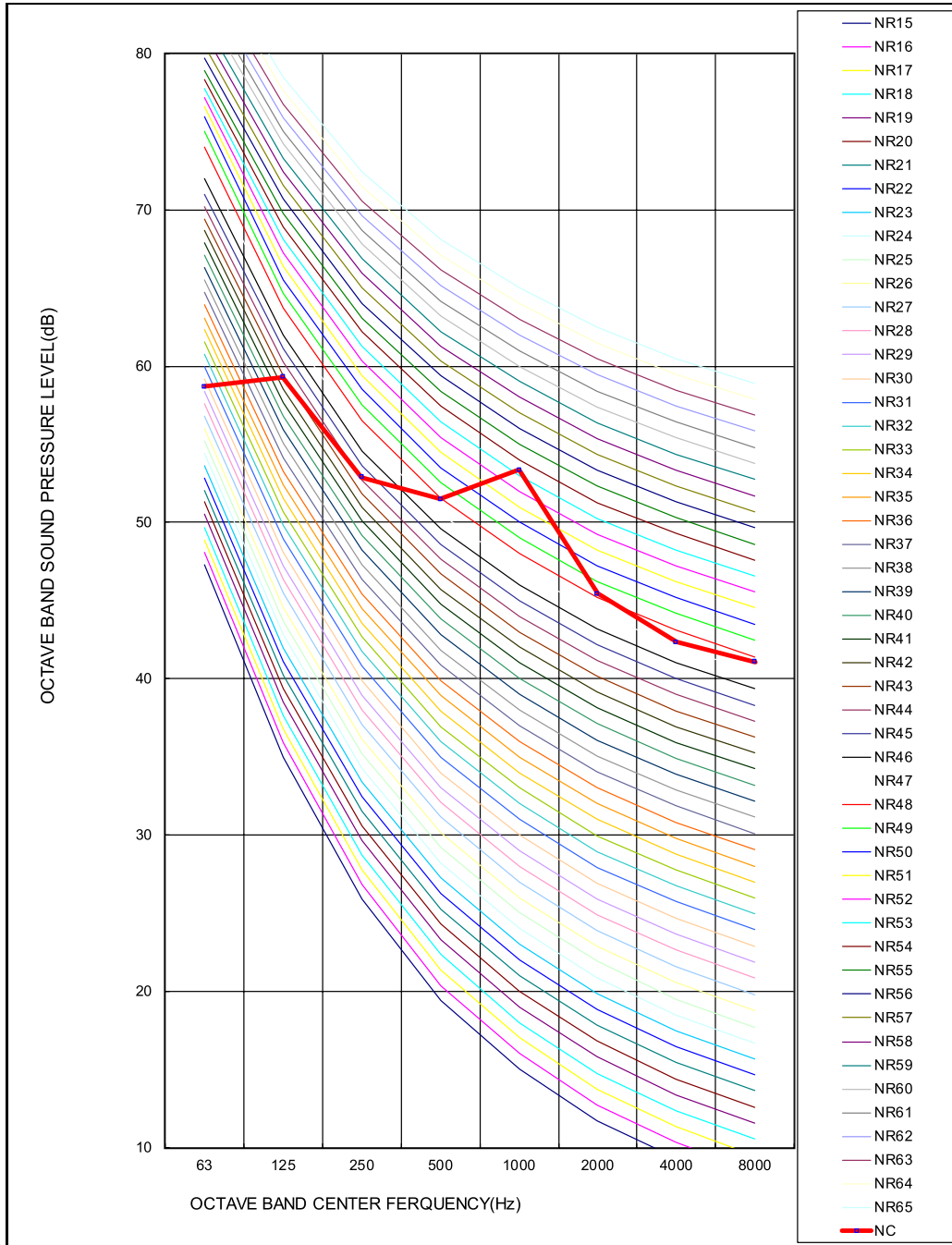
## Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

## 9.2.2 Outdoor Unit

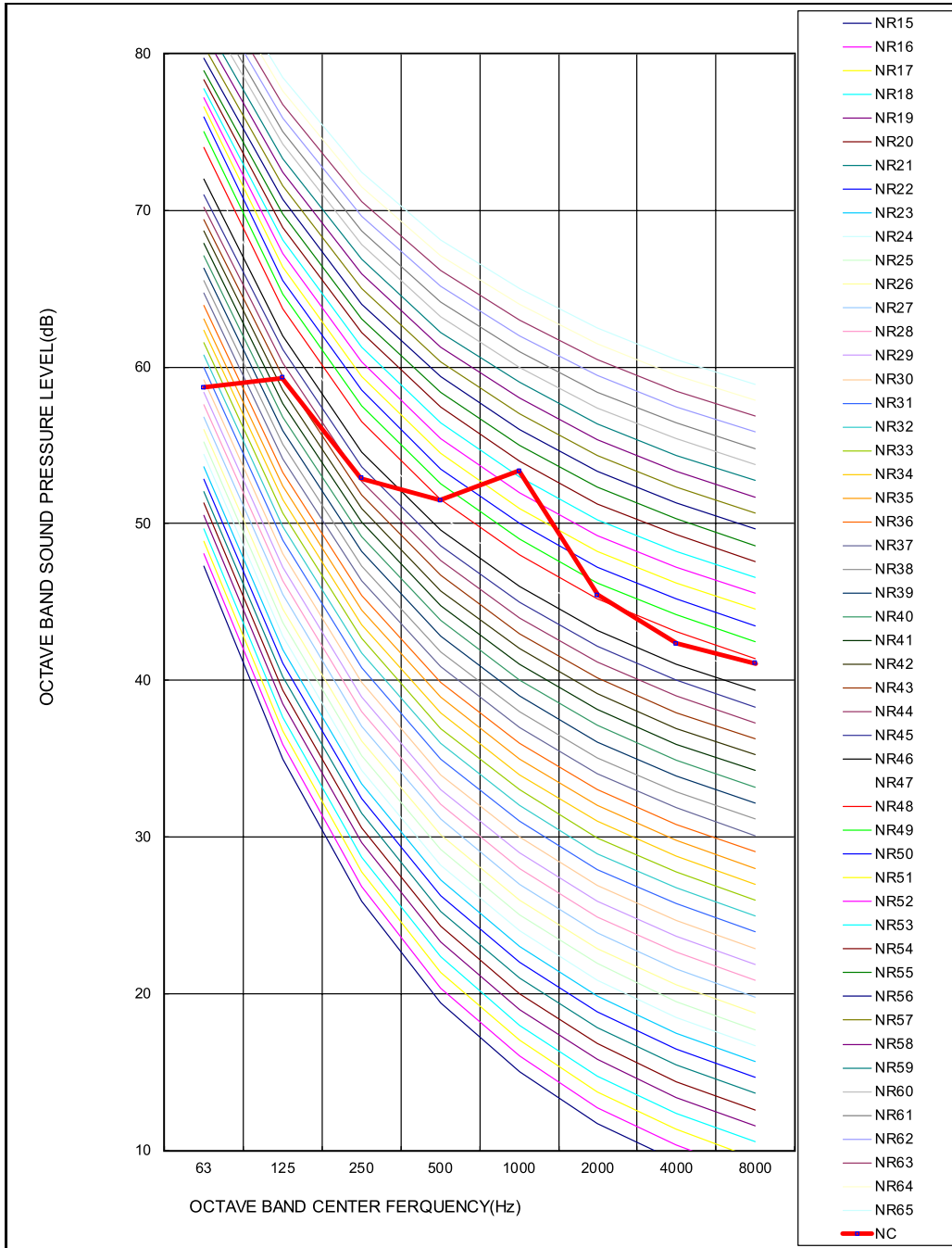
GUD35W/A-S  
Cooling





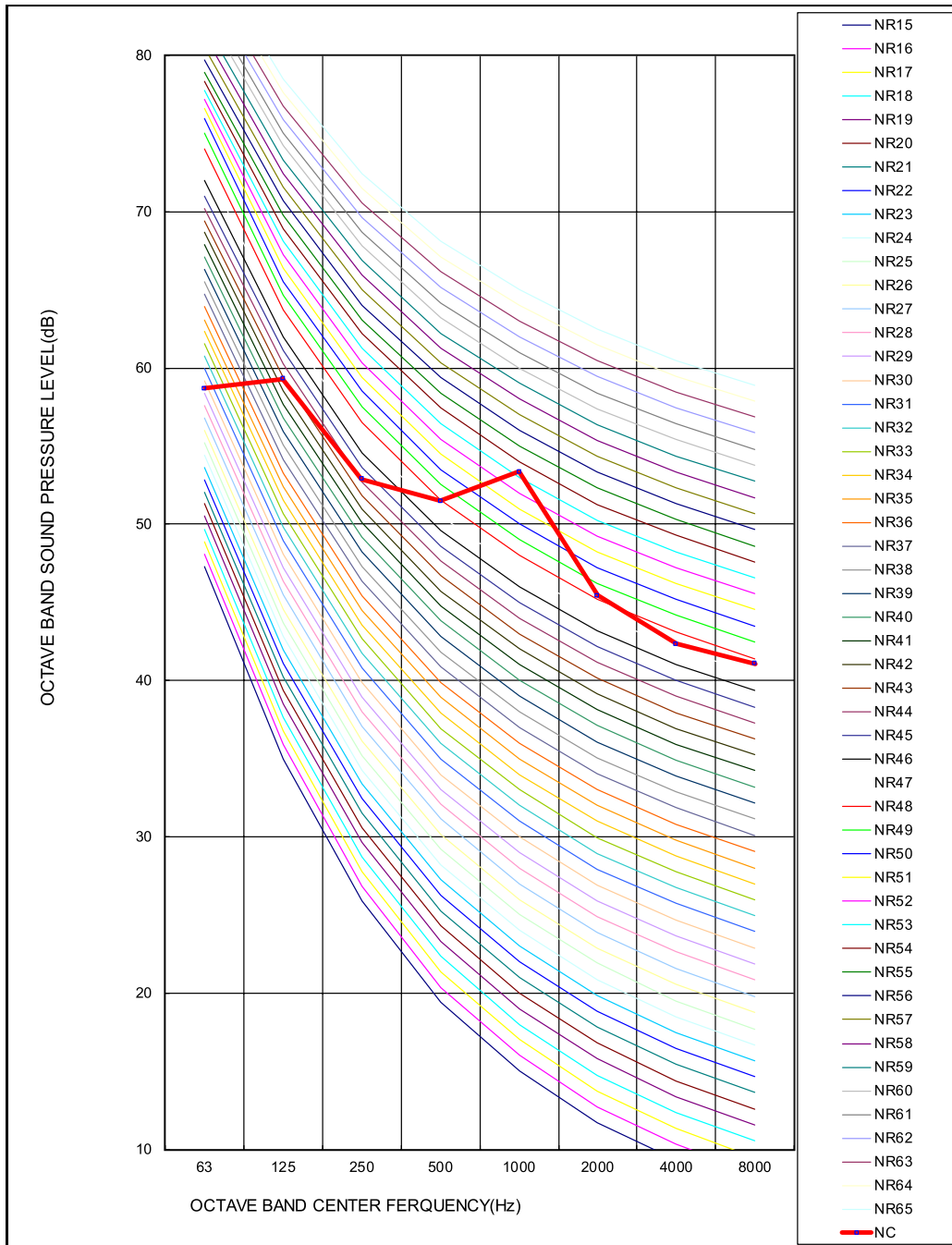
# U-MATCH SERIES AIR CONDITIONERS

## Heating



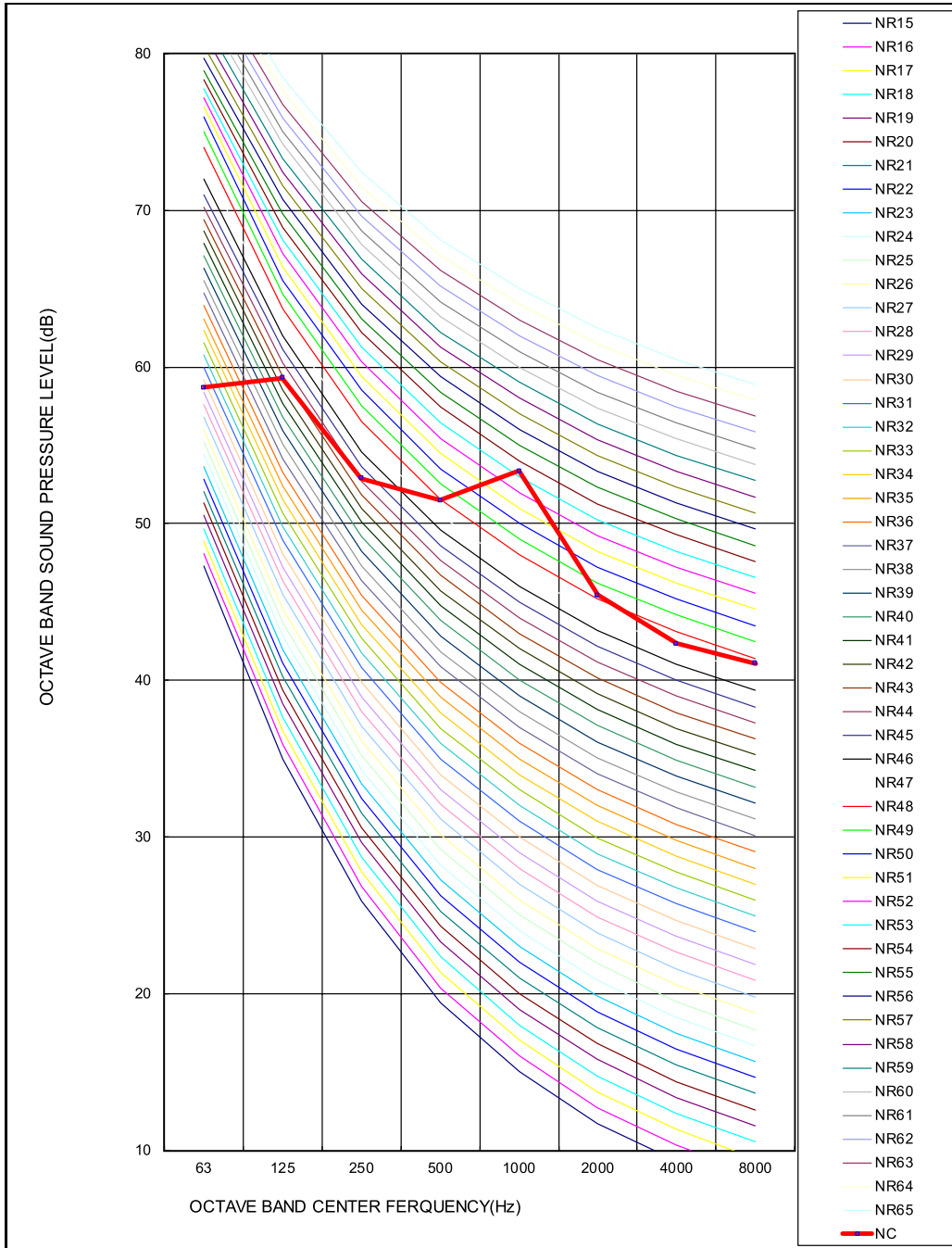
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD50W/A-S  
Cooling



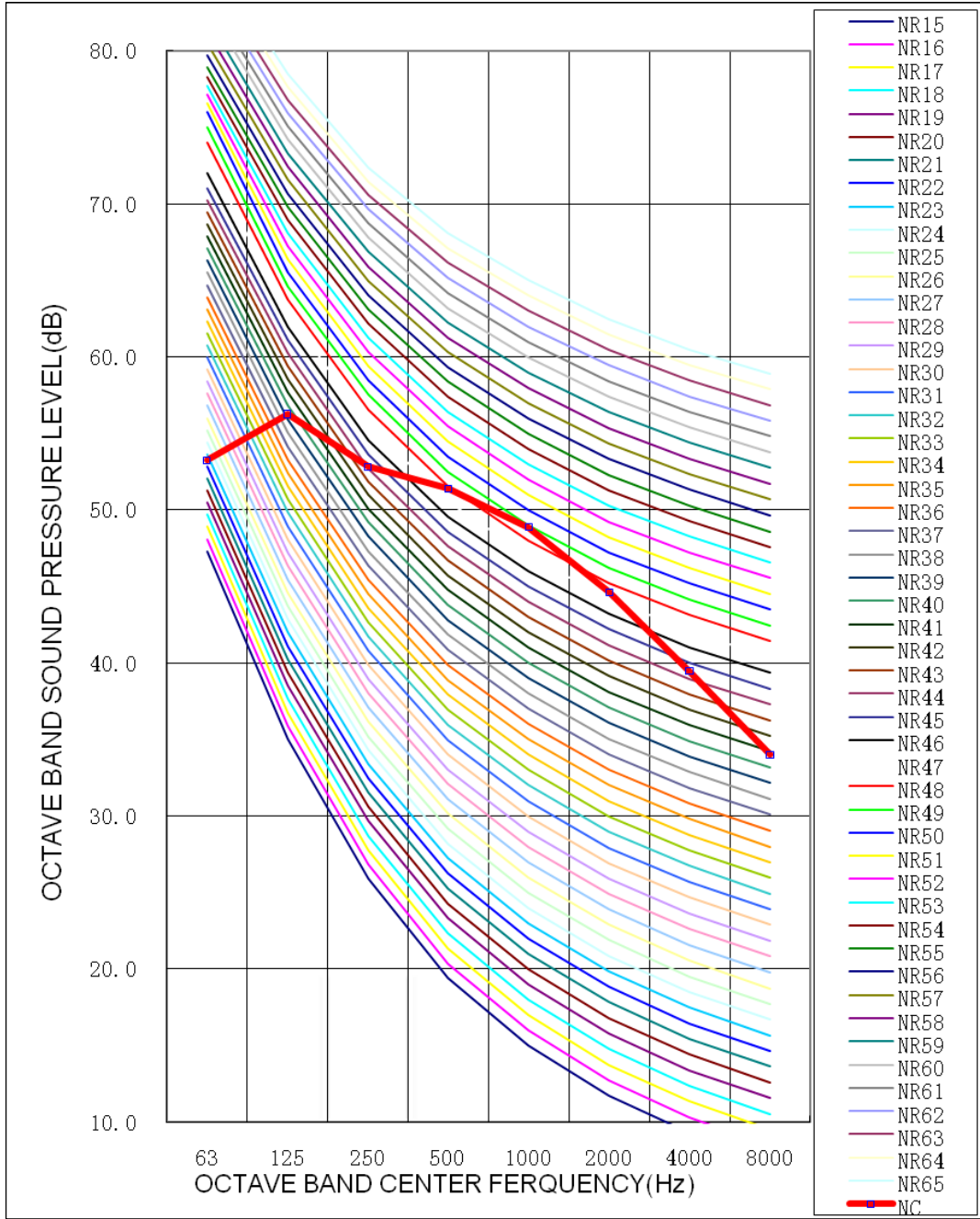
# U-MATCH SERIES AIR CONDITIONERS

## Heating

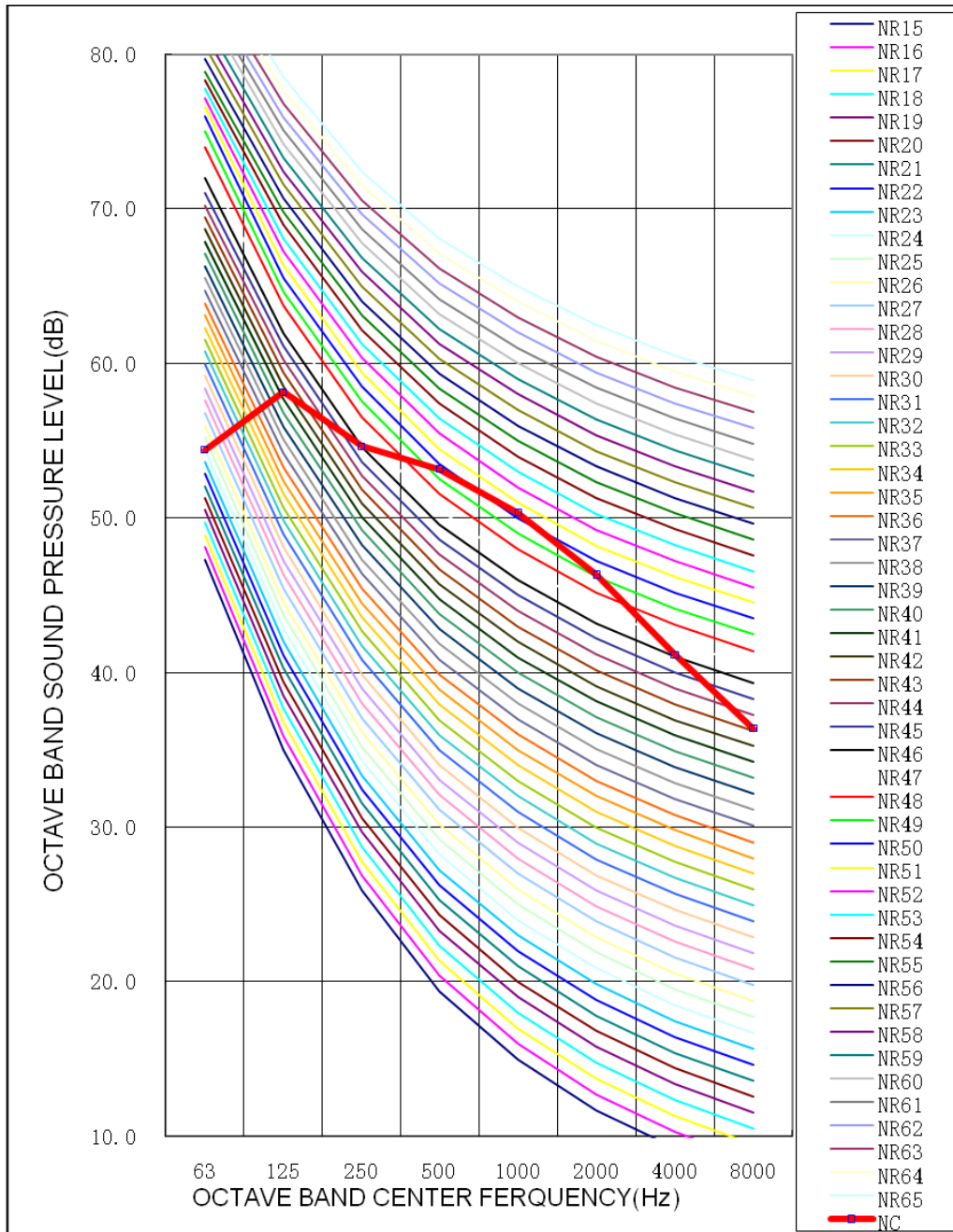


1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71W/A1-S  
Cooling

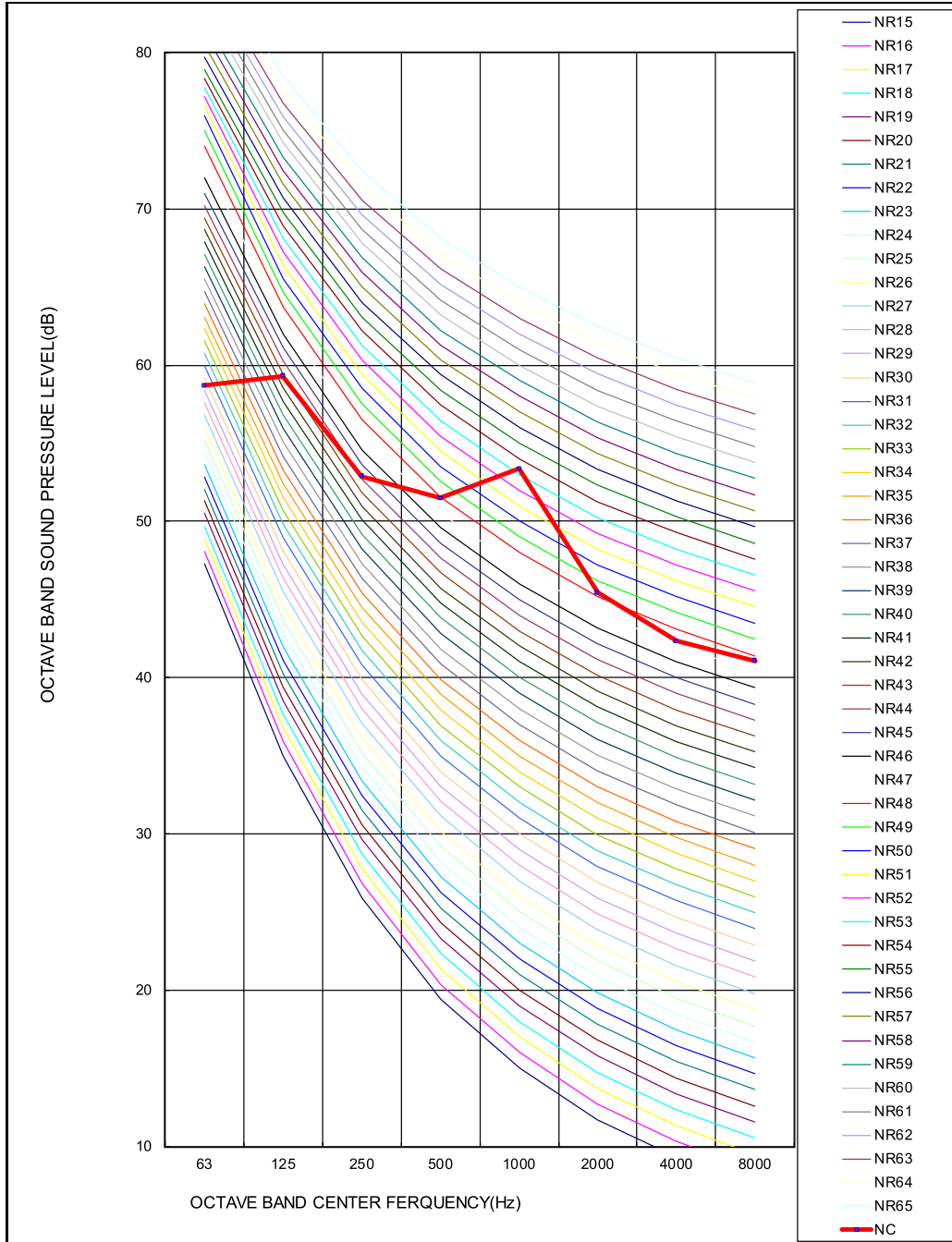


## Heating



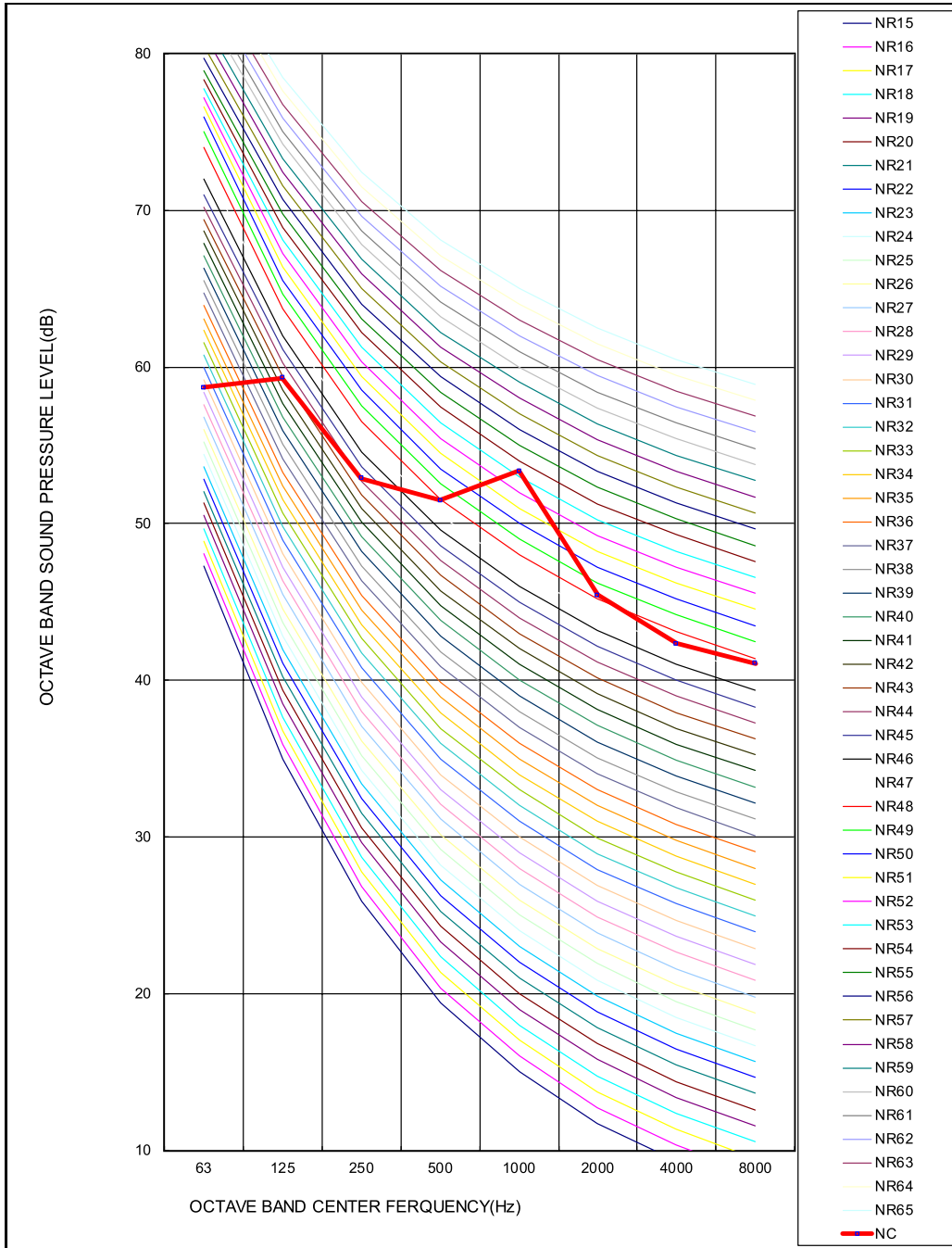
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A -weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD71W/A-S  
Cooling



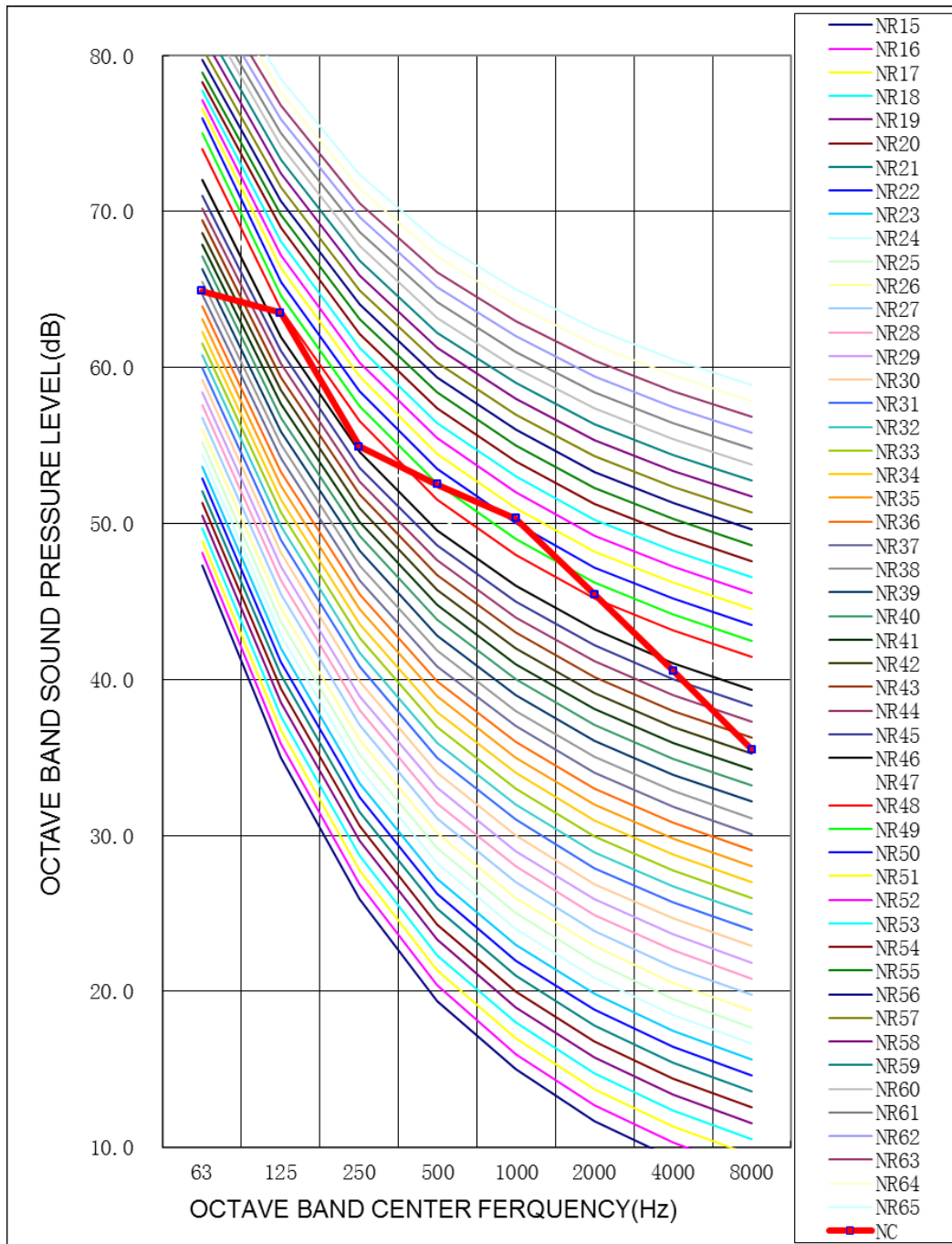
# U-MATCH SERIES AIR CONDITIONERS

## Heating



1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA =A –weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

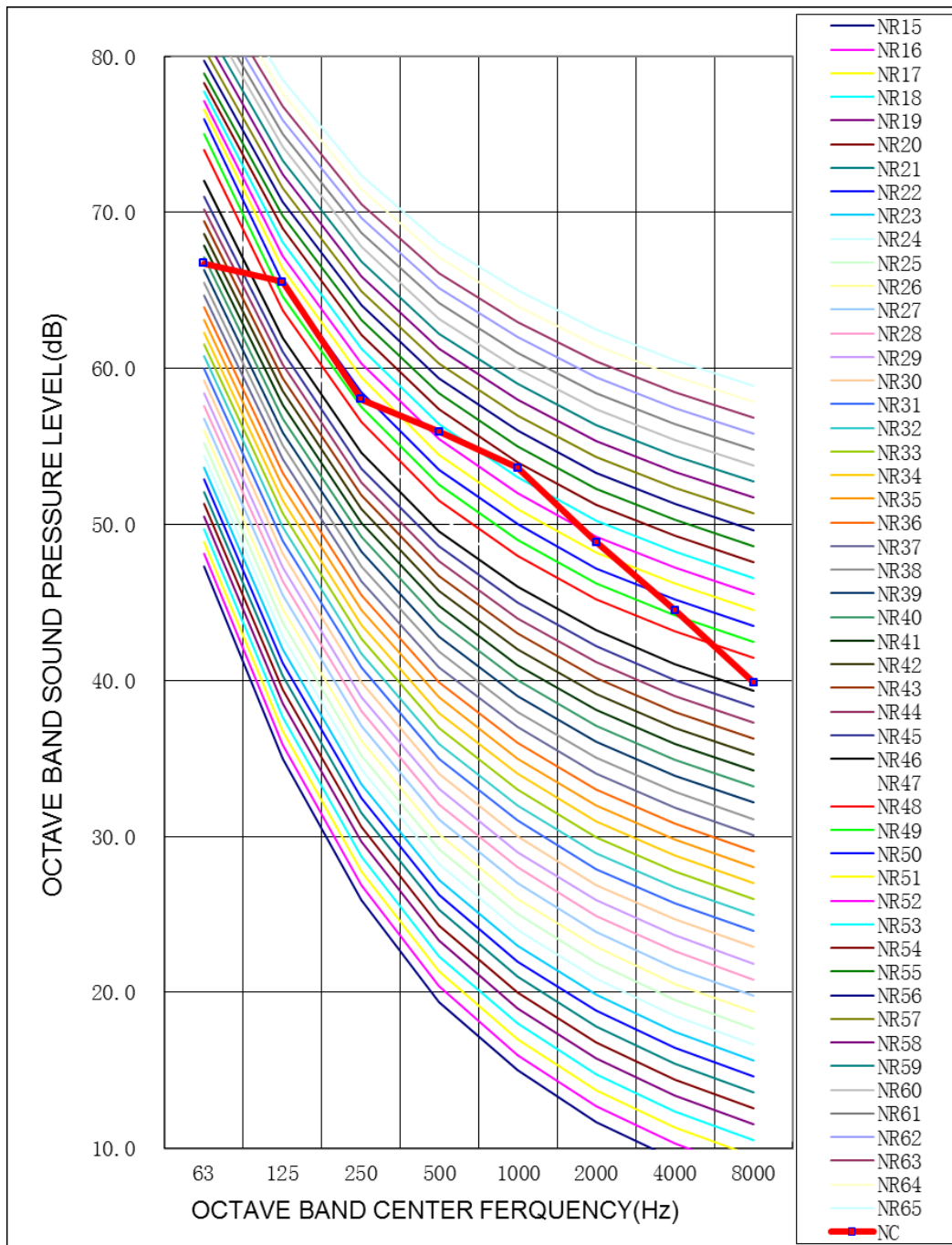
GUD100W/A-S  
Cooling





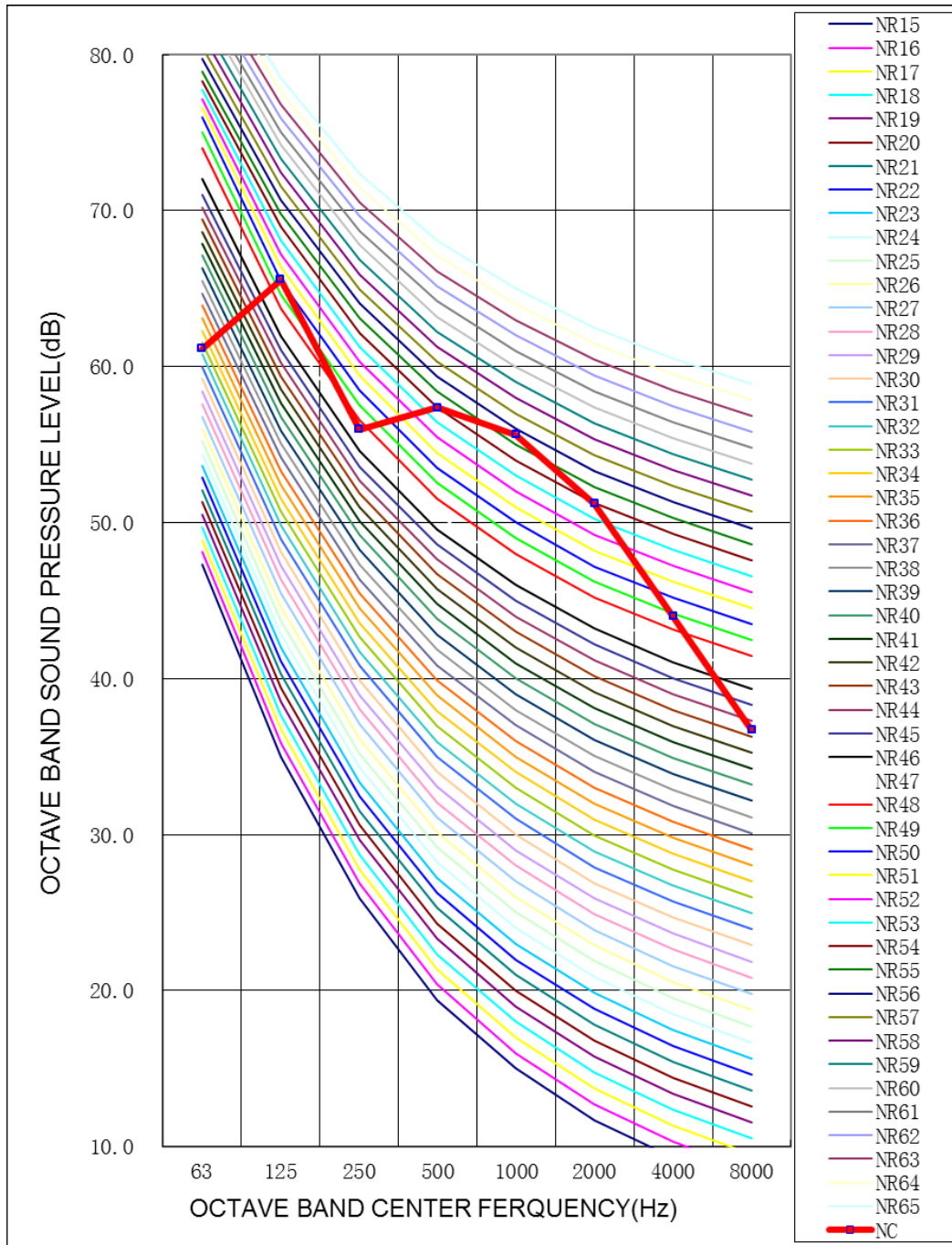
# U-MATCH SERIES AIR CONDITIONERS

Heating



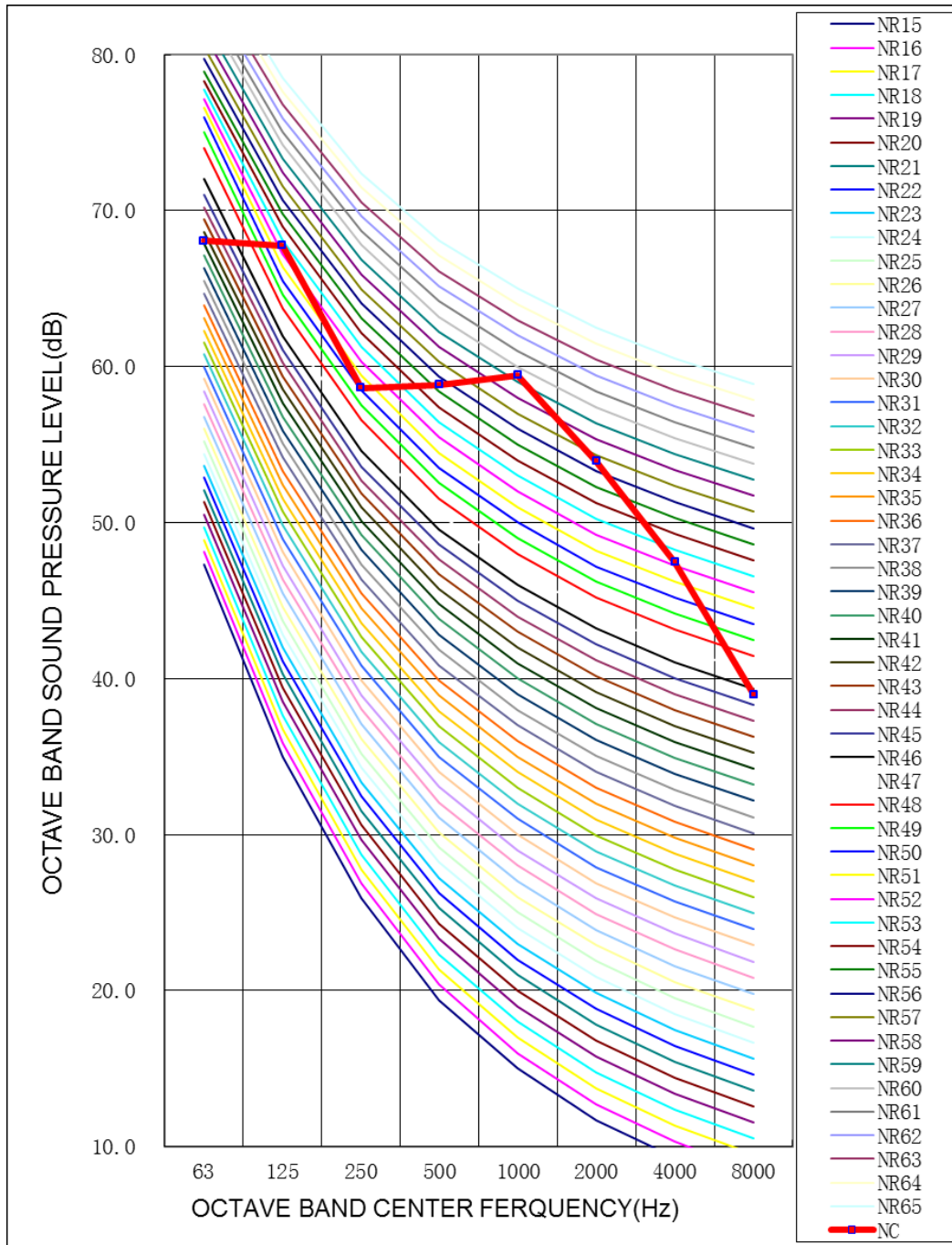
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD125W/A-S, GUD125W/A-X  
Cooling



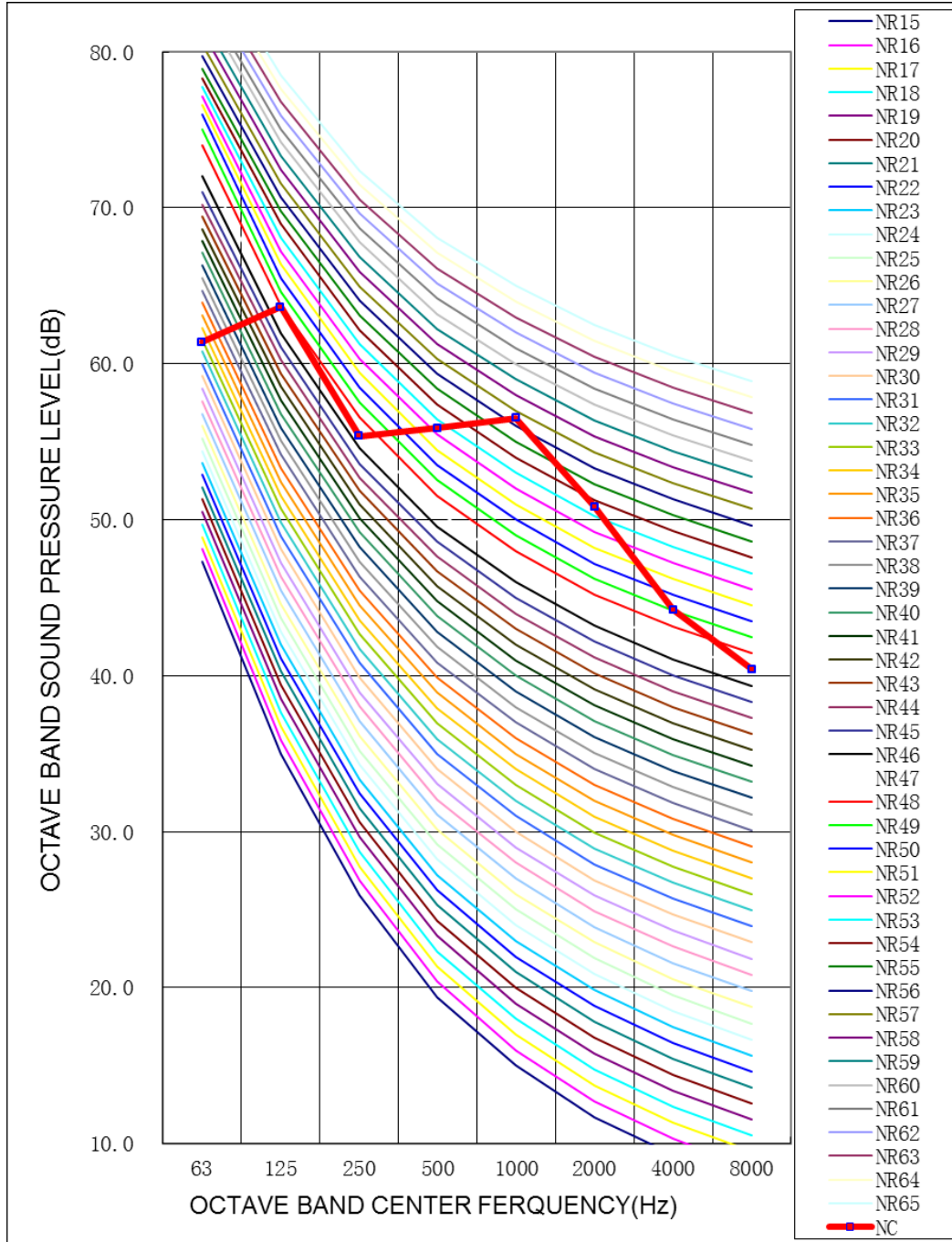
# U-MATCH SERIES AIR CONDITIONERS

Heating



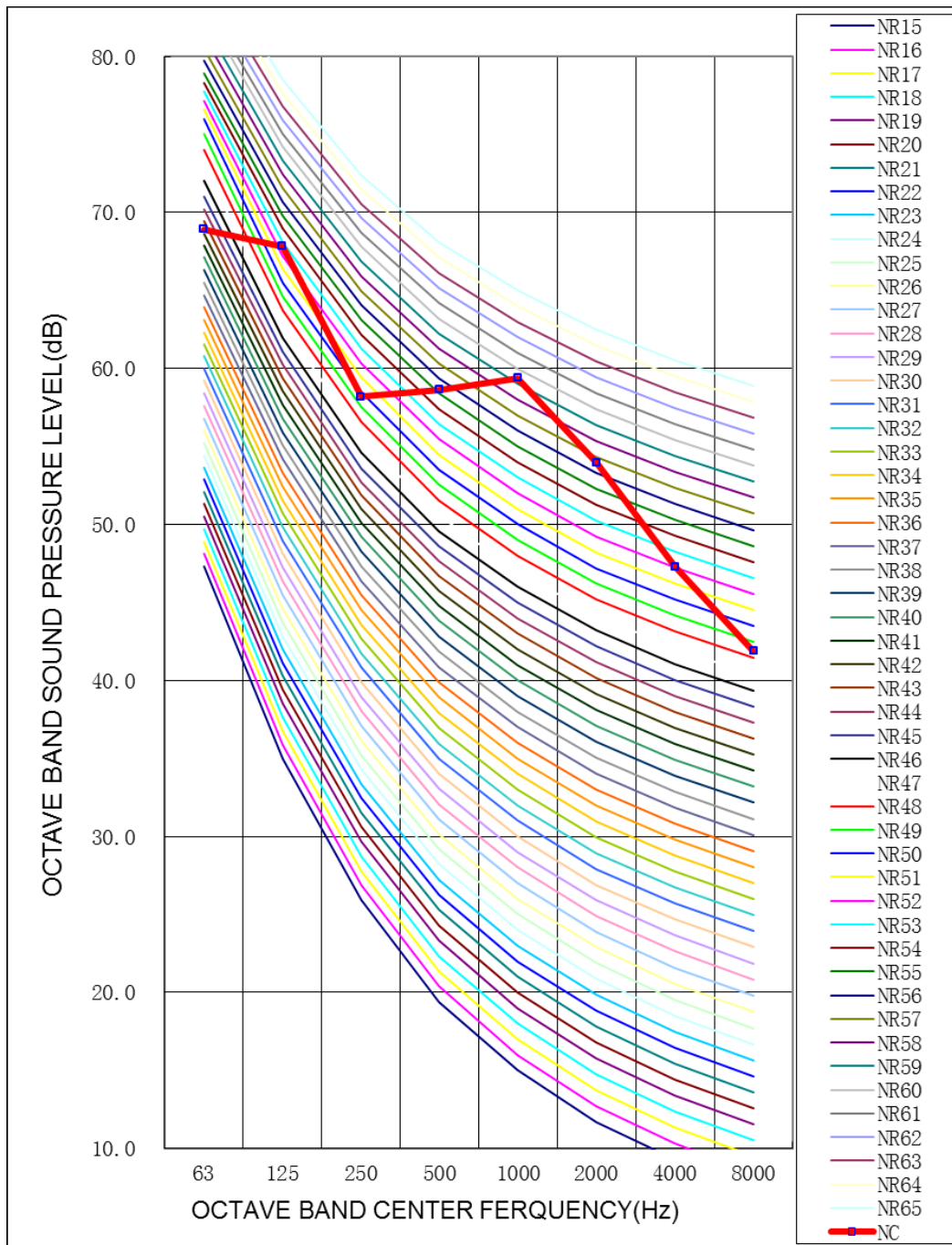
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD140W/A-S, GUD140W/A-X  
Cooling



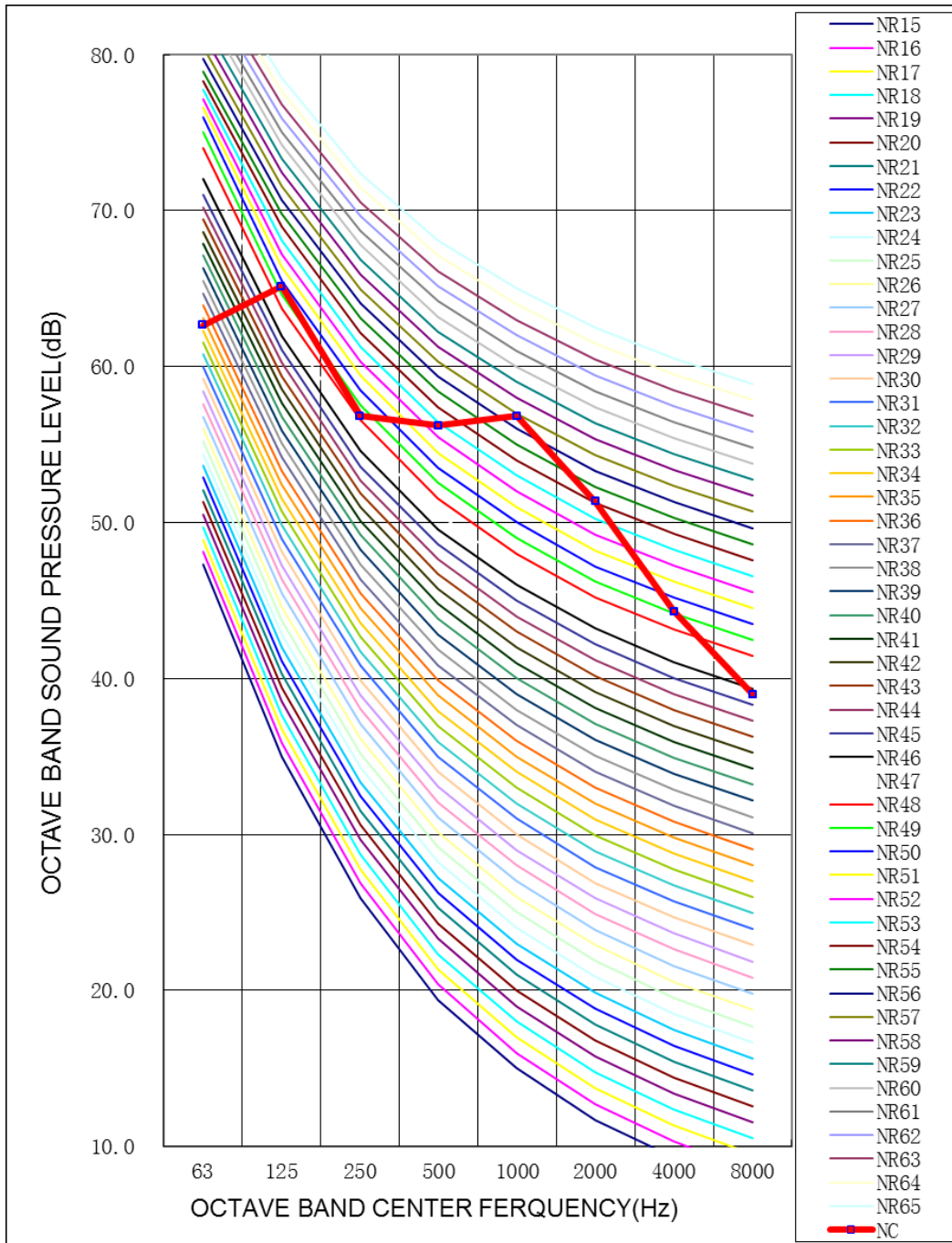
# U-MATCH SERIES AIR CONDITIONERS

Heating



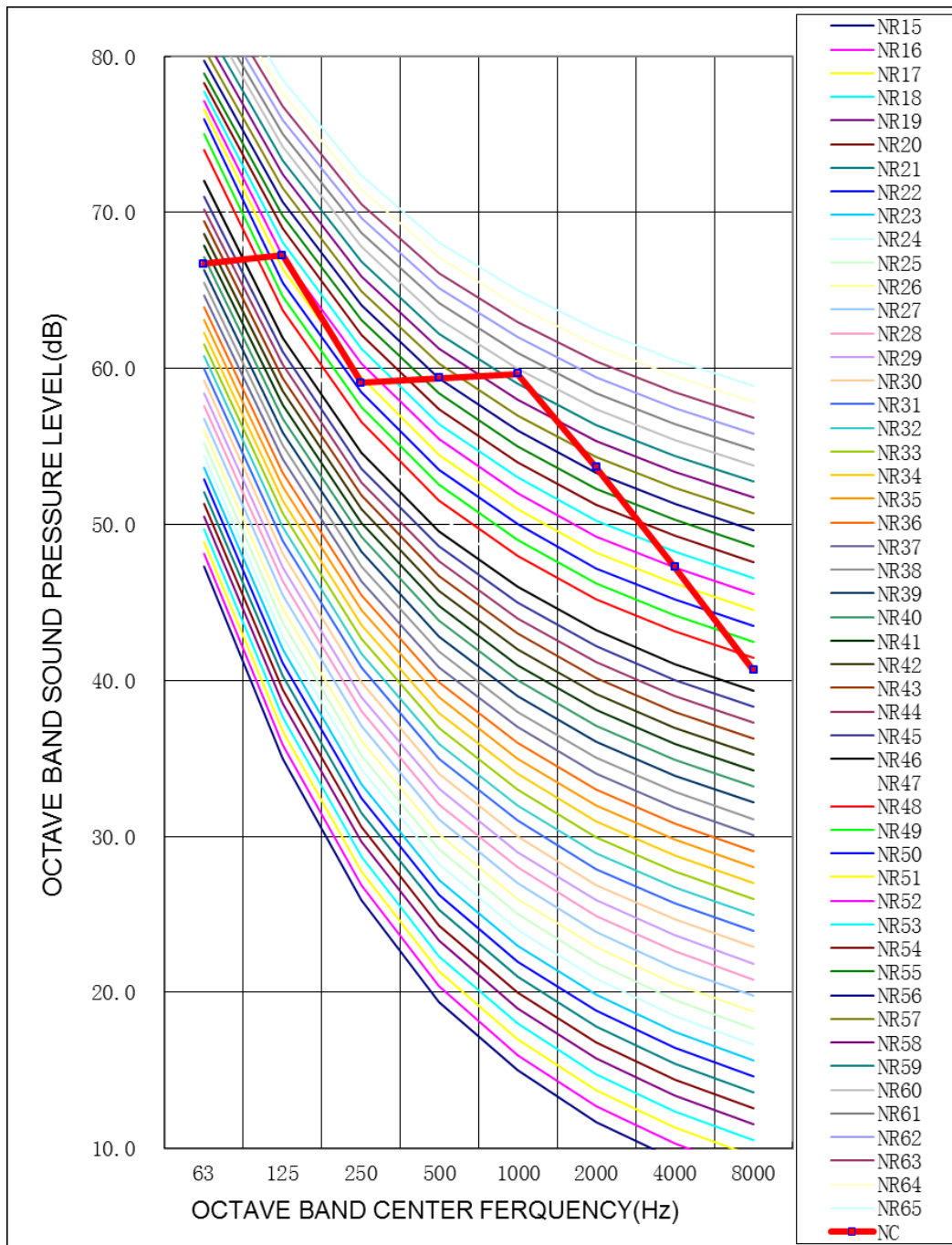
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

GUD160W/A-S; GUD160W/A-X  
Cooling



# U-MATCH SERIES AIR CONDITIONERS

Heating



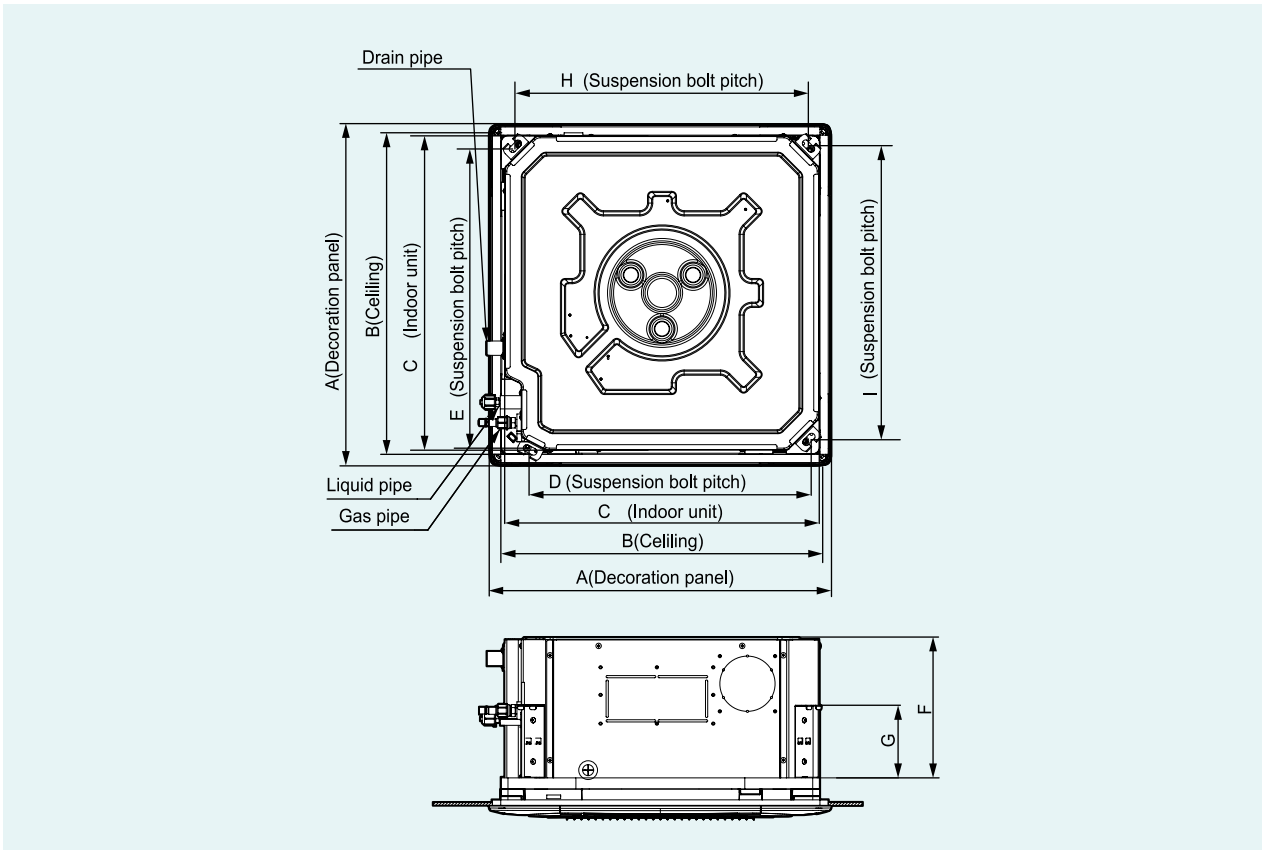
1. Data is valid at field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A-scale according to IEC).
4. Noise level curve NR: The International Organization for Standardization (ISO) evaluates the noise level (NR) of the noise spectrum using a single value on the spectrum method (according to ISO 1996).

# 10 DIMENSIONS AND INSTALLATION SITE

## ➔ 10.1 Cassette Type

### 10.1.1 Dimensions

GUD35T/A-S;GUD50T/A-S:



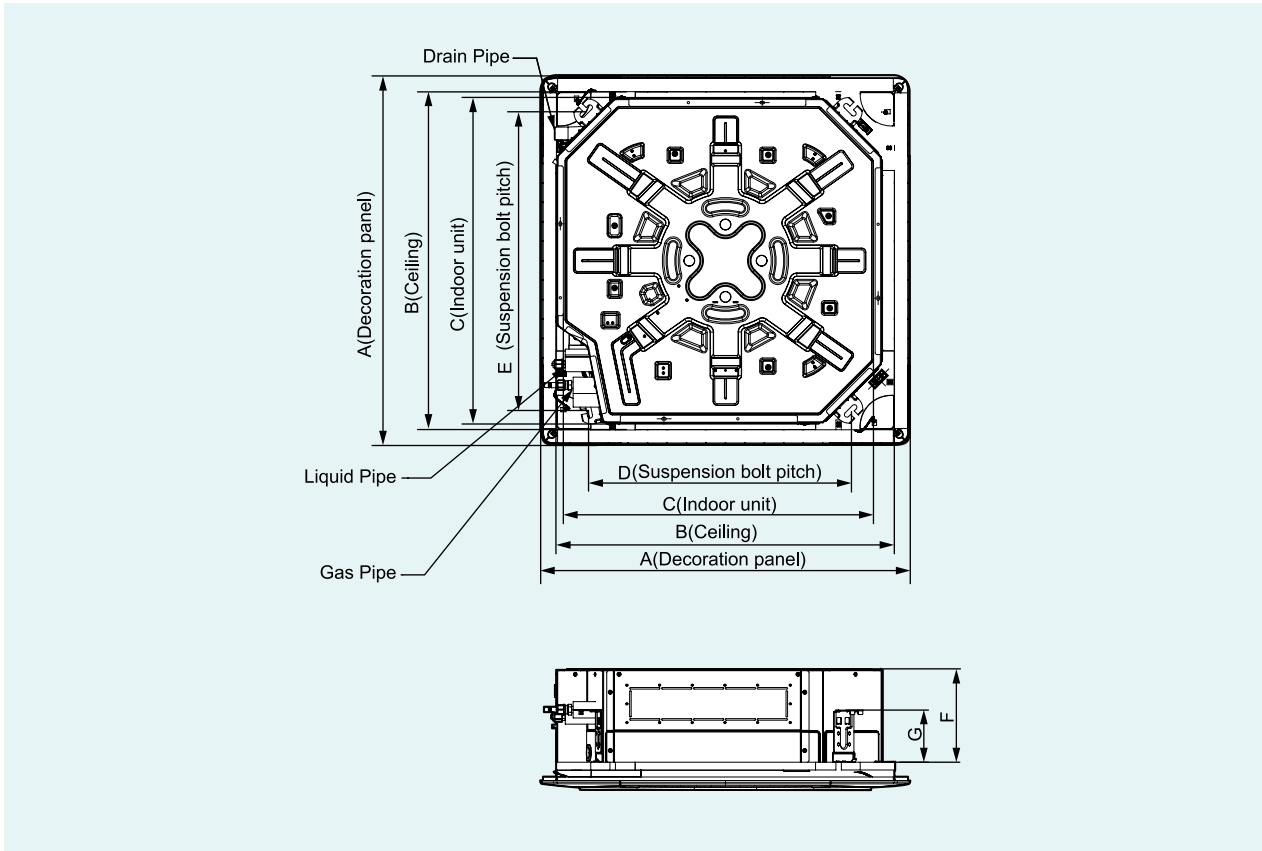
Unit:mm

Model \ Item	A	B	C	D	E	F	G	H	I
GUD35T/A-S	620	580	570	505	550	265	140	530	530
GUD50T/A-S	620	580	570	505	550	265	140	530	530



# U-MATCH SERIES AIR CONDITIONERS

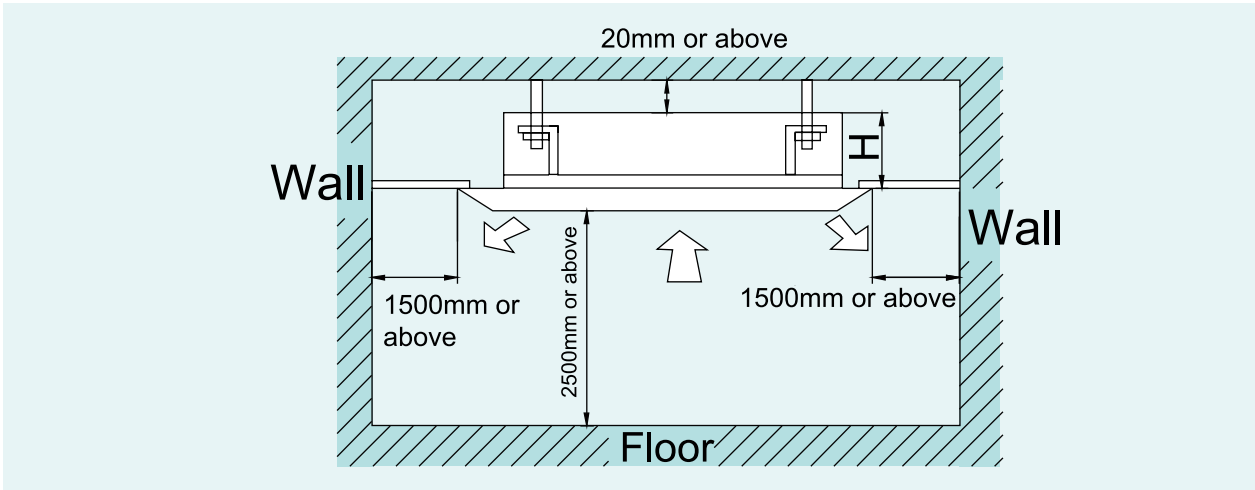
GUD71T/A1-S;GUD71T/A-S;GUD100T/A-S;GUD125T/A-S;GUD140T/A-S; GUD160T/A-S:



Unit:mm

Model	Item	A	B	C	D	E	F	G
GUD71T/A1-S		950	870	840	680	780	200	135
GUD71T/A-S		950	870	840	680	780	200	135
GUD100T/A-S		950	870	840	680	780	240	135
GUD125T/A-S		950	870	840	680	780	240	135
GUD140T/A-S		950	870	840	680	780	290	135
GUD160T/A-S		950	870	840	680	780	290	135

### 10.1.2 Installation Location

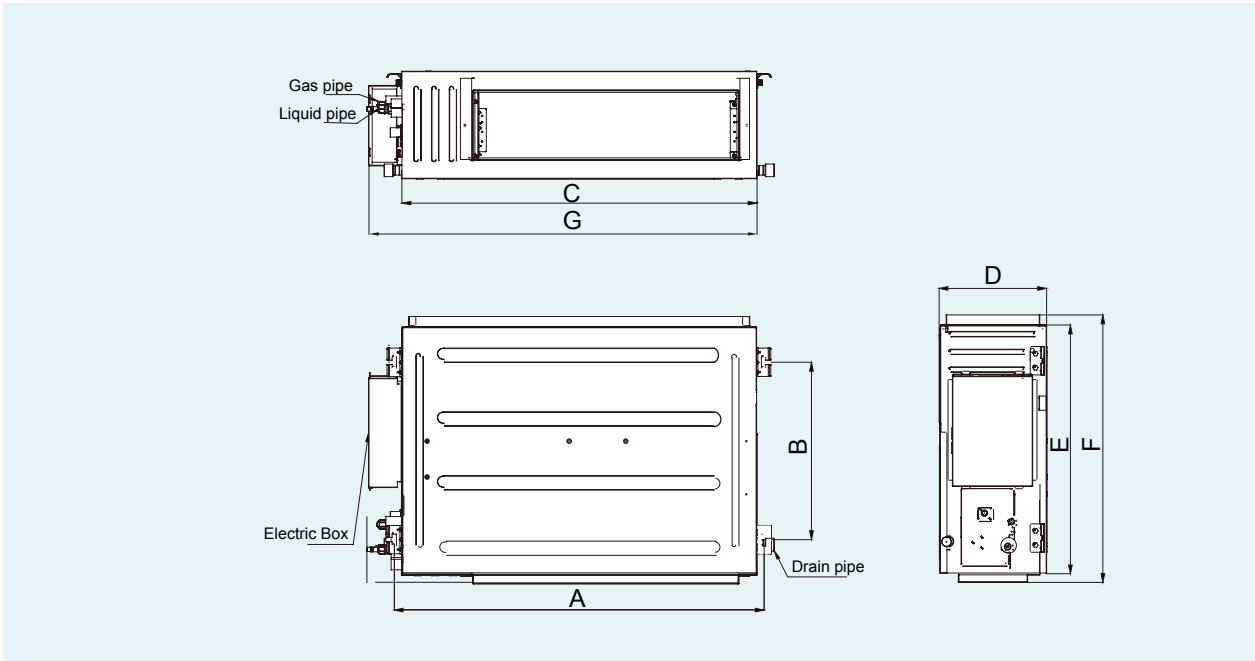


Unit: mm

Model	H(mm)
GUD35T/A-S	295
GUD50T/A-S	295
GUD71T/A1-S	230
GUD71T/A-S	230
GUD100T/A-S	270
GUD125T/A-S	270
GUD140T/A-S	320
GUD160T/A-S	320

## ➔ 10.2 Duct Type

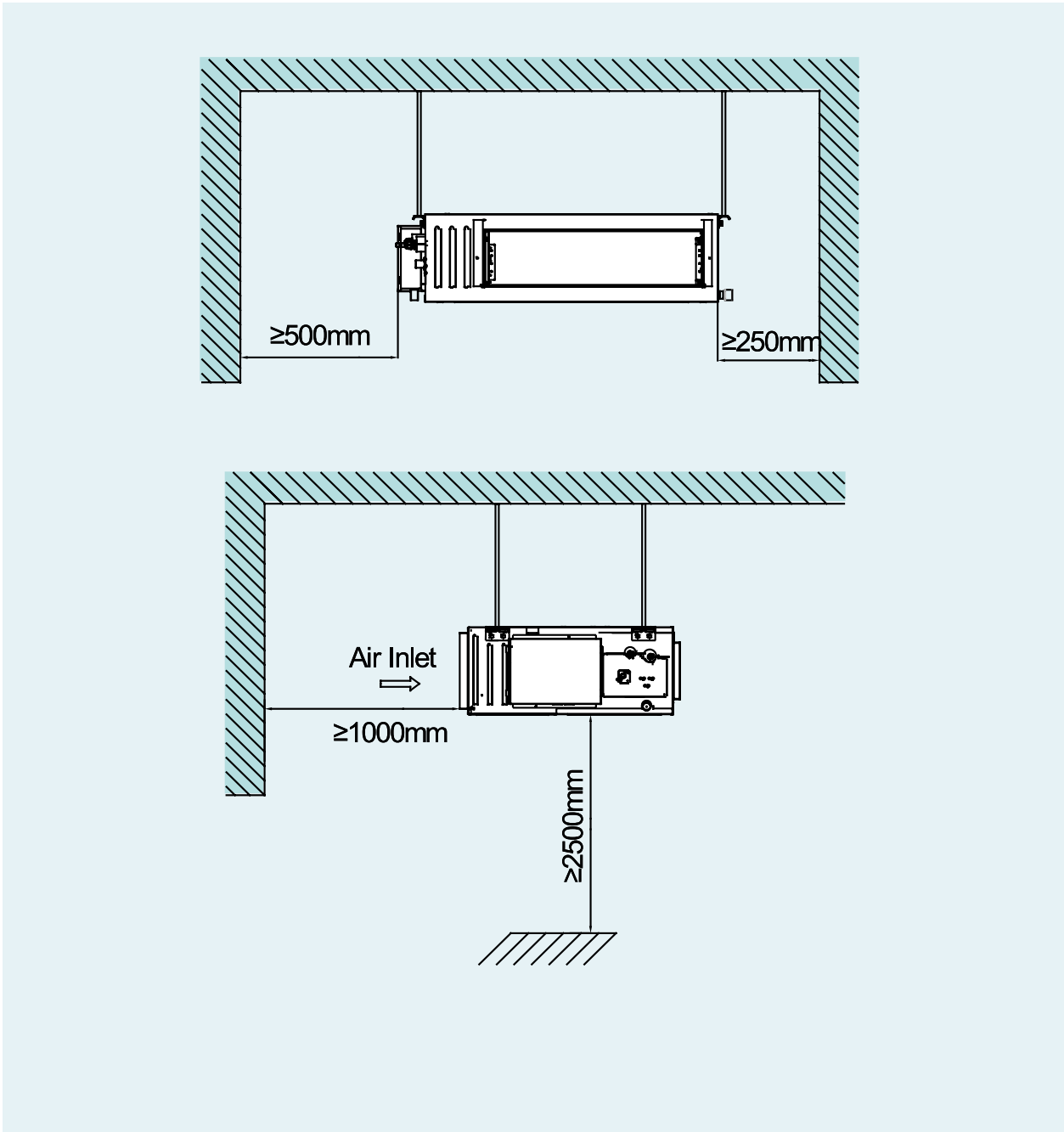
### 10.2.1 Dimensions



Unit: mm

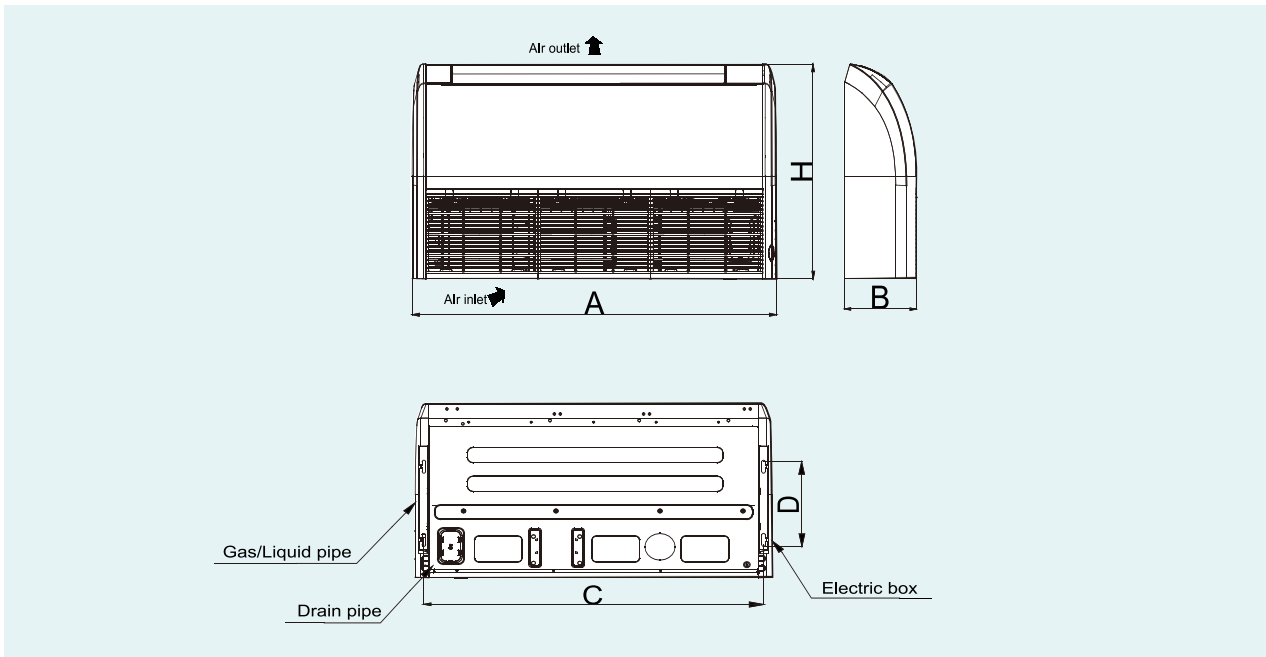
Model	A	B	C	D	E	F	G
GUD35P/A-S	760	415	700	200	450	474	768
GUD35PS/A-S							
GUD50P/A-S	1060	415	1000	200	450	474	1068
GUD50PS/A-S							
GUD71P/A1-S	1060	415	1000	200	450	474	1068
GUD71PS/A1-S							
GUD71P/A-S	1360	415	1300	220	450	474	1368
GUD71PS/A-S							
GUD100PH/A-S	1040	500	1000	300	700	754	1092
GUD100PHS/A-S							
GUD125PH/A-S	1040	500	1000	300	700	754	1092
GUD125PHS/A-S							
GUD140PH/A-S	1440	500	1400	300	700	754	1492
GUD140PHS/A-S							
GUD160PH/A-S	1440	500	1400	300	700	754	1543
GUD160PHS/A-S							

### 10.2.2 Installation Location



## ➔ 10.3 Floor Ceiling Type

### 10.3.1 Dimensions

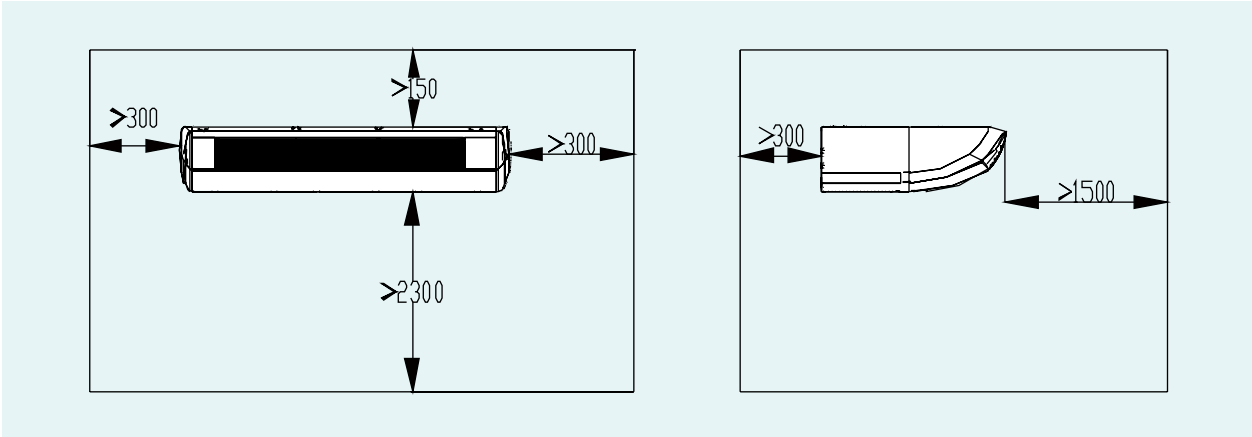


Unit: mm

Model	Dimensions	A	B	C	D	H
GUD35ZD/A-S		870	235	812	318	665
GUD50ZD/A-S		870	235	812	318	665
GUD71ZD/A1-S		870	235	812	318	665
GUD71ZD/A-S		1200	235	1142	318	665
GUD100ZD/A-S		1200	235	1142	318	665
GUD125ZD/A-S		1200	235	1142	318	665
GUD140ZD/A-S		1570	235	1512	318	665
GUD160ZD/A-S		1570	235	1512	318	665

### 10.3.2 Installation Location

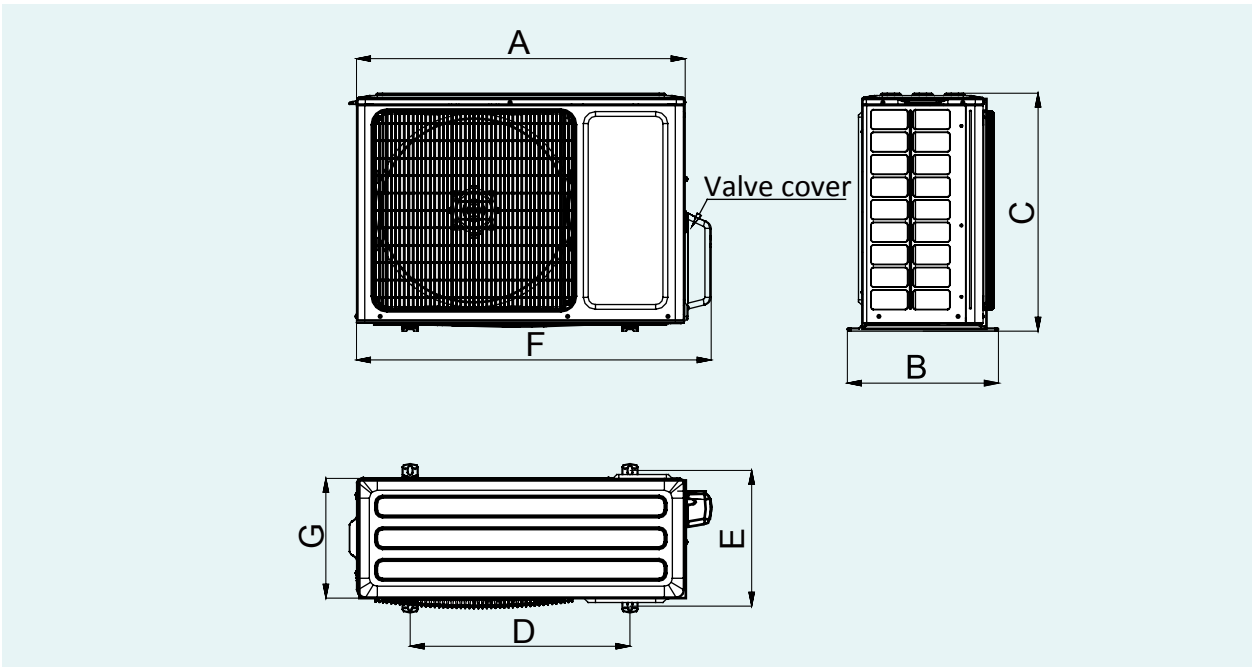
Unit: mm



## ➔ 10.4 Outdoor Unit

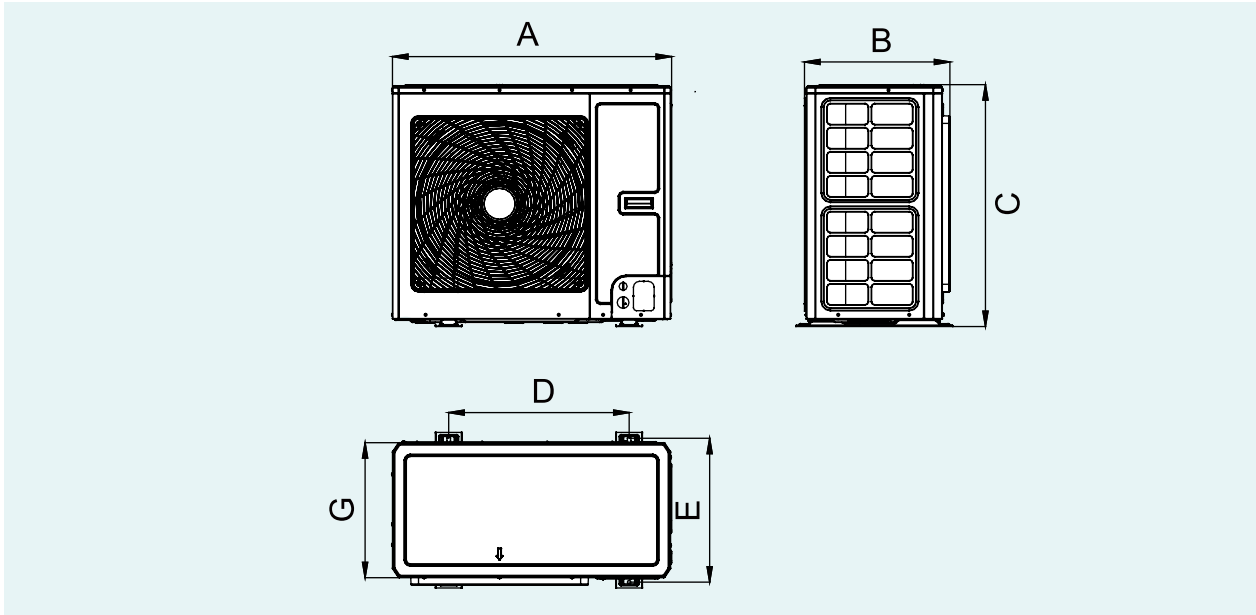
### 10.4.1 Dimensions

GUD35W/A-S, GUD50W/A-S, GUD71W/A-S, GUD71W/A1-S, GUD100W/A-S



# U-MATCH SERIES AIR CONDITIONERS

GUD125W/A-S, GUD140W/A-S, GUD160W/A-S,  
GUD125W/A-X, GUD140W/A-X, GUD160W/A-X



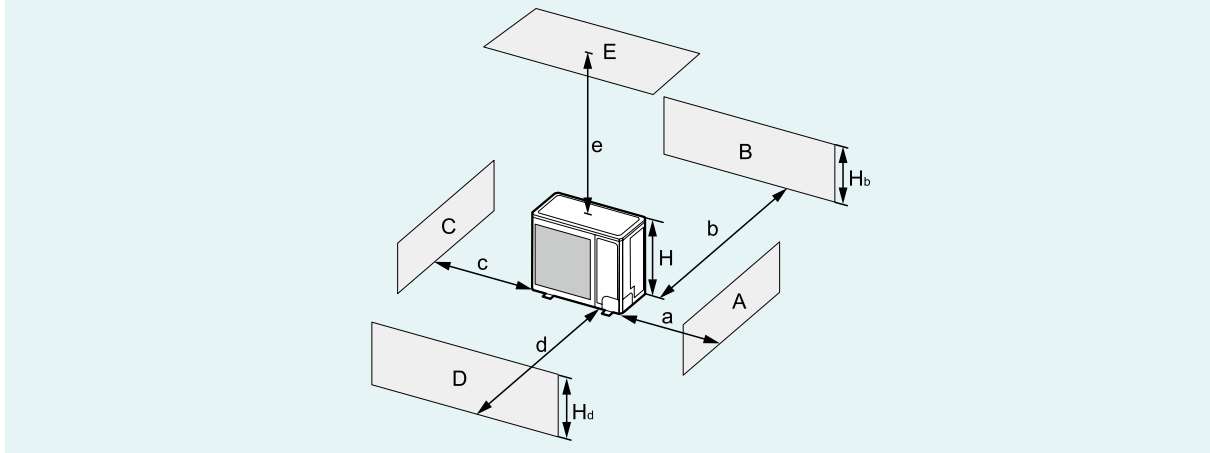
Unit: mm

Model	Dimensions	A	B	C	D	E	F	G
GUD35W/A-S		818	378	596	550	348	887	302
GUD50W/A-S		818	378	596	550	348	887	302
GUD71W/A1-S		892	396	698	560	364	952	340
GUD71W/A-S		892	396	698	560	364	952	340
GUD100W/A-S		920	427	790	610	395	1002	370
GUD125W/A-S		940	530	820	610	486	—	460
GUD140W/A-S		940	530	820	610	486	—	460
GUD160W/A-S		940	530	820	610	486	—	460
GUD125W/A-X		940	530	820	610	486	—	460
GUD140W/A-X		940	530	820	610	486	—	460
GUD160W/A-X		940	530	820	610	486	—	460

### 10.4.2 Installation Location

1). When one outdoor unit is to be installed,

Unit: mm



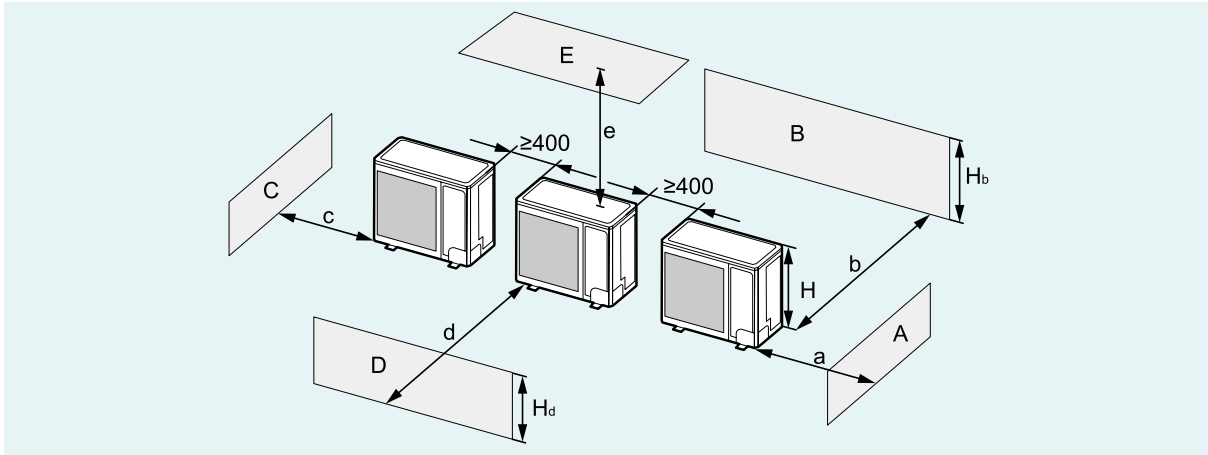
A~E	$H_b$ $H_D$ $H$		(mm)				
			a	b	c	d	e
B	—	—	—	$\geq 100$	—	—	—
A,B,C,	—	—	$\geq 300$	$\geq 100$	$\geq 100$	—	—
B,E	—	—	—	$\geq 100$	—	—	$\geq 1000$
A,B,C,E	—	—	$\geq 300$	$\geq 150$	$\geq 150$	—	$\geq 1000$
D	—	—	—	—	—	$\geq 1000$	—
D,E	—	—	—	—	—	$\geq 1000$	$\geq 1000$
B,D	$H_b < H_D$	$H_D > H$	—	$\geq 100$	—	$\geq 1000$	—
	$H_b > H_D$	$H_D < H$	—	$\geq 100$	—	$\geq 1000$	—
B,D,E	$H_b < H_D$	$H_b \leq 1/2 H$	—	$\geq 250$	—	$\geq 2000$	$\geq 1000$
		$1/2 H < H_b \leq H$	—	$\geq 250$	—	$\geq 2000$	$\geq 1000$
		$H_b > H$	Prohibited				
	$H_b > H_D$	$H_D \leq 1/2 H$	—	$\geq 100$	—	$\geq 2000$	$\geq 1000$
		$1/2 H < H_D \leq H$	—	$\geq 200$	—	$\geq 2000$	$\geq 1000$
		$H_D > 1/2 H$	Prohibited				



# U-MATCH SERIES AIR CONDITIONERS

2). When two or more outdoor units are to be installed side by side,

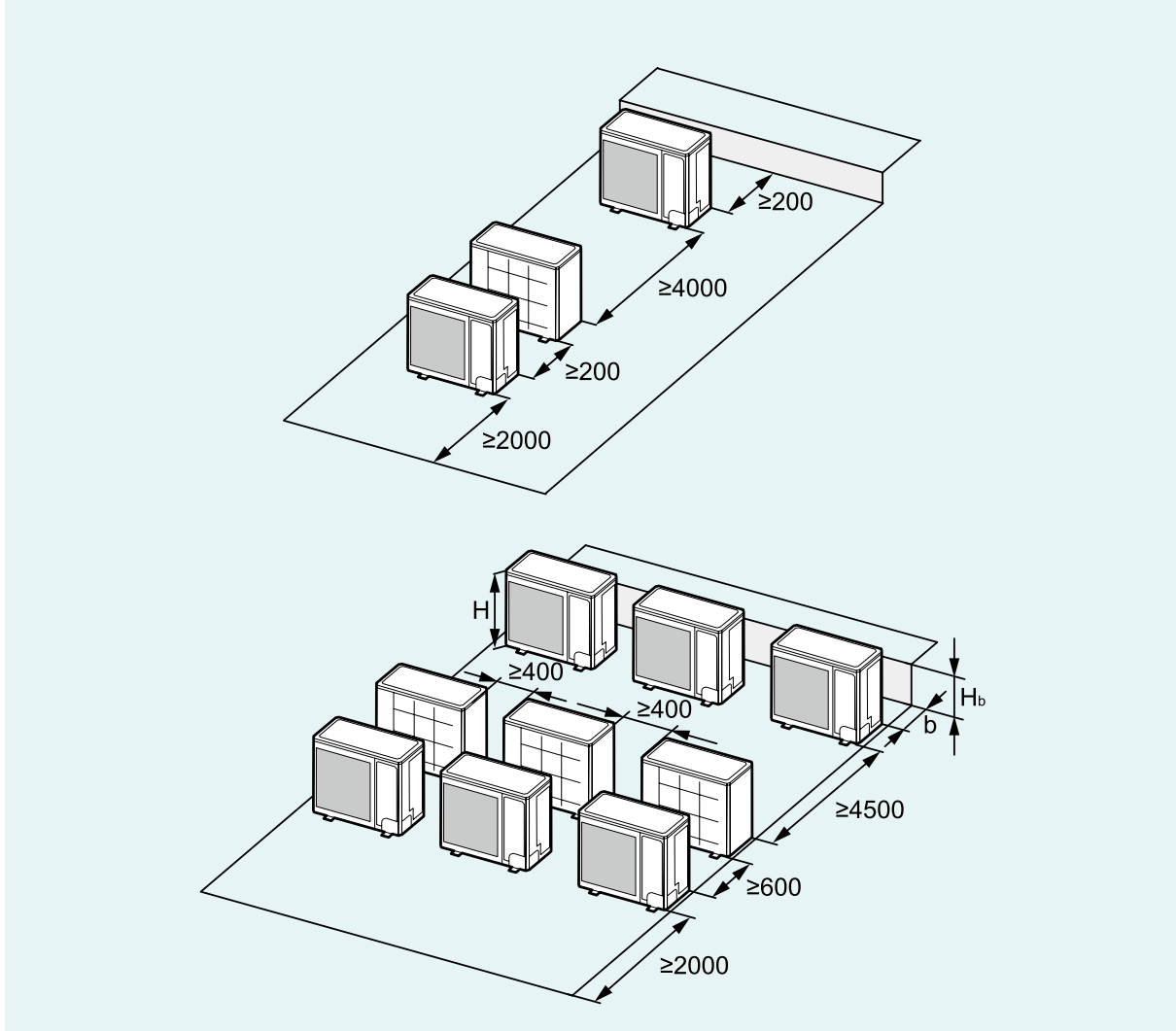
Unit: mm



A~E	HB HD H		(mm)				
			a	b	c	d	e
A,B,C	—		$\geq 300$	$\geq 300$	$\geq 1000$	—	—
A,B,C,E	—		$\geq 300$	$\geq 300$	$\geq 1000$	—	$\geq 1000$
D	—		—	—	—	$\geq 2000$	—
D,E	—		—	—	—	$\geq 2000$	$\geq 1000$
B,D	HB < HD	HD > H	—	$\geq 300$	—	$\geq 2000$	—
	HB > HD	HD $\leq 1/2 H$	—	$\geq 250$	—	$\geq 2000$	—
		$1/2 H < HD \leq H$	—	$\geq 300$	—	$\geq 2500$	—
B,D,E	HB < HD	HB $\leq 1/2 H$	—	$\geq 300$	—	$\geq 2000$	$\geq 1000$
		$1/2 H < HB \leq H$	—	$\geq 300$	—	$\geq 2500$	$\geq 1000$
		HB > H	Prohibited				
	HB > HD	HD $\leq 1/2 H$	—	$\geq 250$	—	$\geq 2500$	$\geq 1000$
		$1/2 H < HD \leq H$	—	$\geq 300$	—	$\geq 2500$	$\geq 1000$
		HD > $1/2 H$	Prohibited				

3). When outdoor units are installed in rows,

Unit: mm

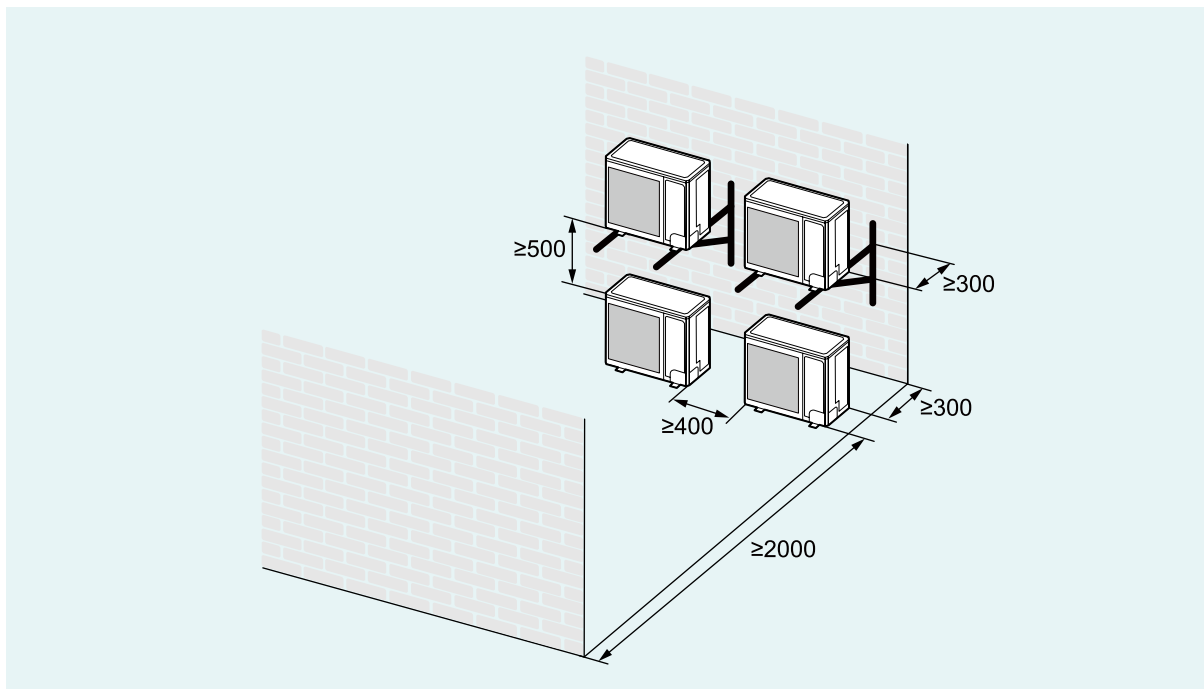


$H_b$ H	B(mm)
$H_b \leq 1/2 H$	$b \geq 250$
$1/2 H < H_b \leq H$	$b \geq 300$
$H_b > H$	Prohibited

# U-MATCH SERIES AIR CONDITIONERS

4). When outdoor units are installed one above another,

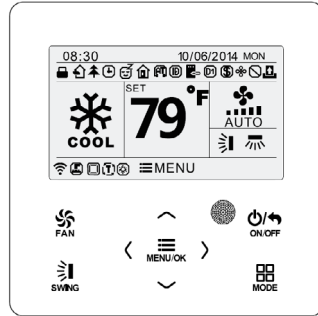
Unit: mm



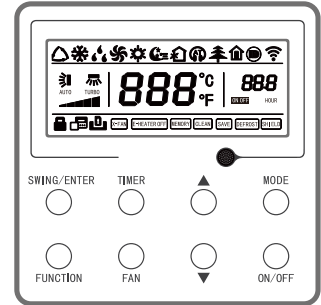
➔ **10.5 Controller**



YAP1F6



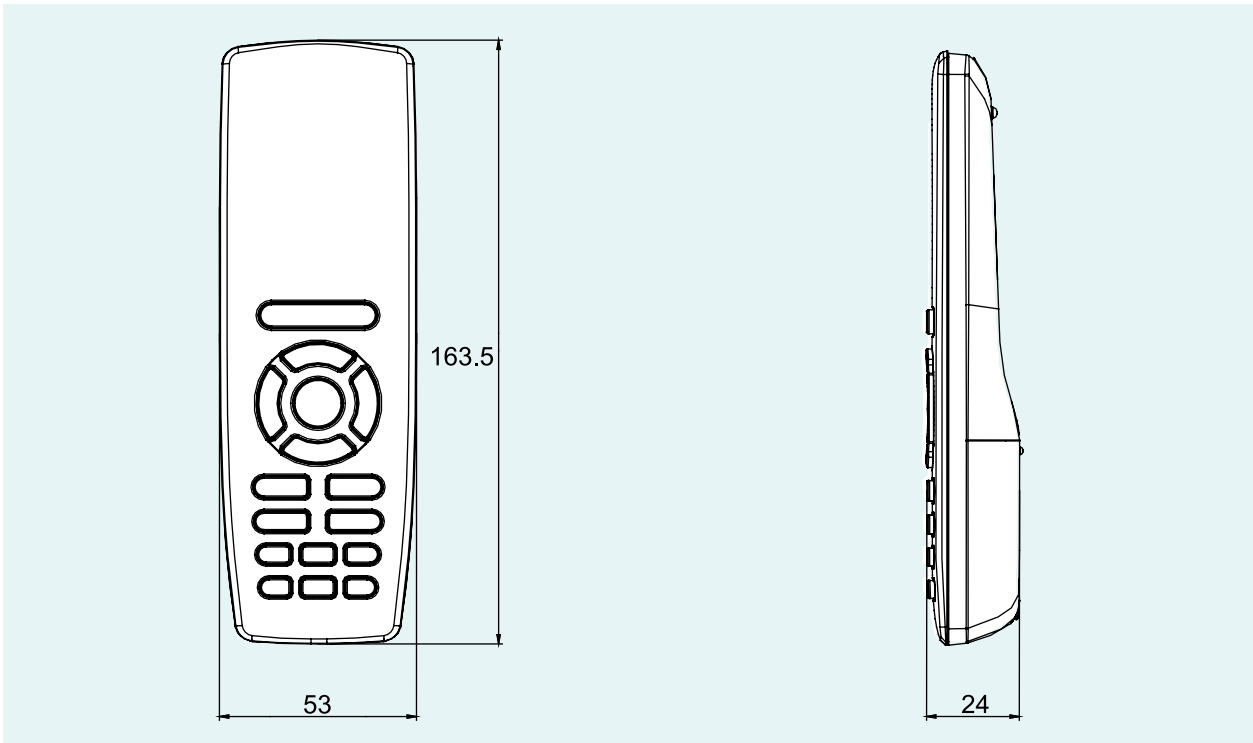
XE71-42/G



XK117

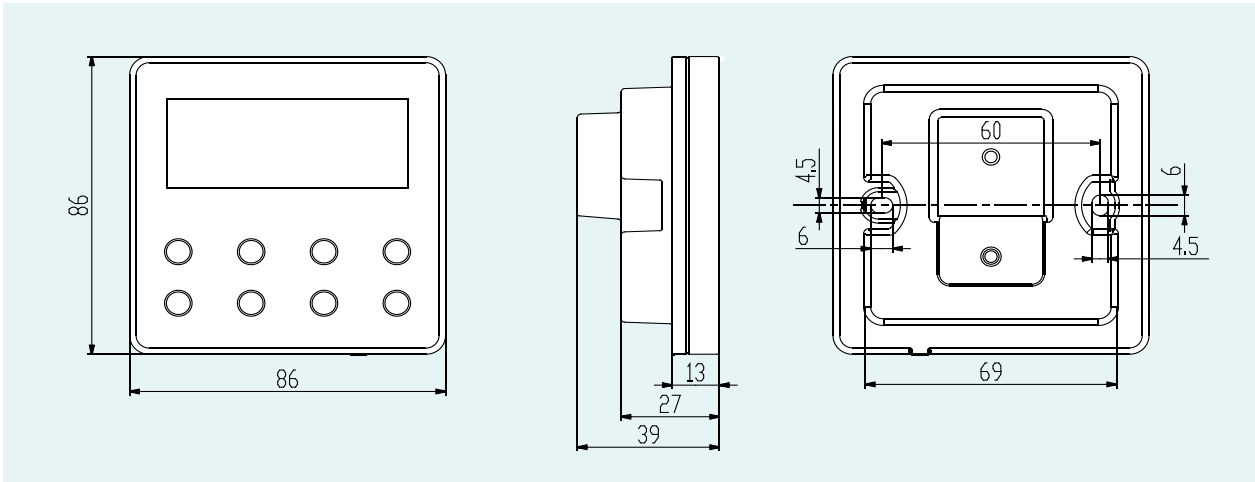
**10.5.1 Dimensional Drawing of YAP1F6**

Unit: mm



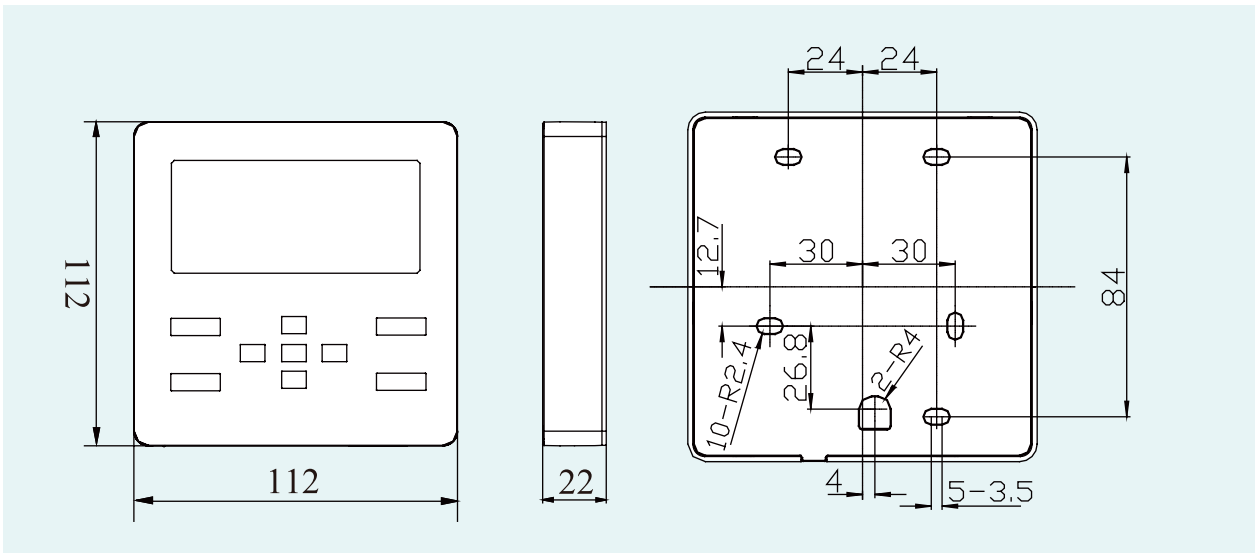
10.5.2 Dimensional Drawing of XK117

Unit: mm



10.5.3 Dimensional Drawing of XE71-42/G

Unit: mm



# 1 ELECTRICAL INSTALLATION

## ➔ 11.1 Electrical Parameters

Model	Power supply	Circuit breaker capacity	Min. sectional area of power cord
	V/Ph/Hz	A	mm <sup>2</sup>
GUD35W/A-S	220-240V ~50/60Hz	16	1.5
GUD50W/A-S		16	1.5
GUD71W/A1-S		20	2.5
GUD71W/A-S		20	2.5
GUD100W/A-S		25	2.5
GUD125W/A-S		32	4.0
GUD140W/A-S		32	4.0
GUD160W/A-S		40	6.0
GUD125W/A-X	380-415V 3N~ 50/60Hz	16	1.5
GUD140W/A-X		16	1.5
GUD160W/A-X		16	1.5

Model	Power supply	Fuse capacity	Circuit breaker capacity	Min. sectional area of power cord
	V/Ph/Hz	A	A	mm <sup>2</sup>
Indoor unit	220-240V ~50/60Hz	3.15	6	1.0

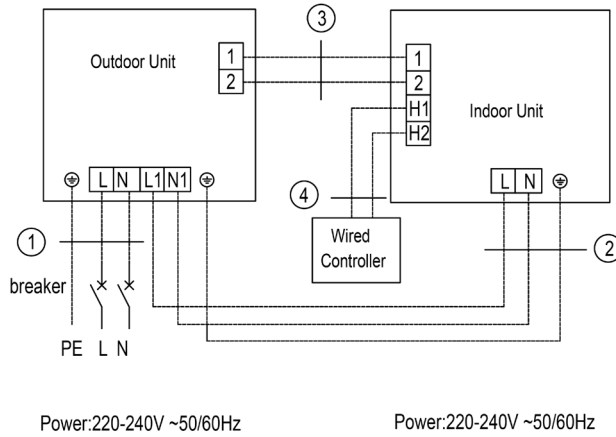
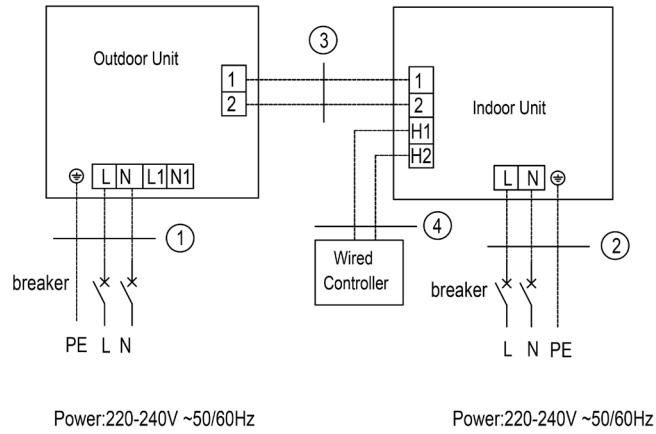
Notes:

1. Fuse is located on the main board.
2. Install a circuit breaker at every power terminal near the units (indoor and outdoor units) with at least 3mm contact gap. The units must be able to be plugged or unplugged.
3. Circuit breaker and power cord specifications listed in the above table are determined based on the maximum power input of the units.
4. Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord(code designation 60245 IEC57).
5. Specifications of circuit breaker are based on a working condition where the working temperature is 40°C. If working condition changes, please adjust the specifications according to national standards.
6. Adopt 2pc of 0.75mm<sup>2</sup> power cords to be the communication cords between indoor and outdoor units. The maximum length is 100m. Please select a proper length according to local conditions. Communication cords must not be twisted together. To be in compliance EN 55014, it is necessary to use 8 meters long wire.
7. Adopt 2pc of 0.75mm<sup>2</sup> power cords to be the communication cords between wired control and indoor unit. The maximum length is 30m. Please select a proper length according to local conditions. Communication cords must not be twisted together. To be in compliance EN 55014, it is necessary to use 7.5 meters long wire.
8. The wire gauge of communication cord should not be less than 0.75mm<sup>2</sup>. It's recommended to use 0.75mm<sup>2</sup> power cords as the communication cords.

## ➔ 11.2 Wiring Diagram

### 11.2.1 Cassette Type

Single-phase Unit: GUD35W/A-S;GUD50W/A-S.



GUD35T/A-S+GUD35W/A-S

GUD50T/A-S+GUD50W/A-S

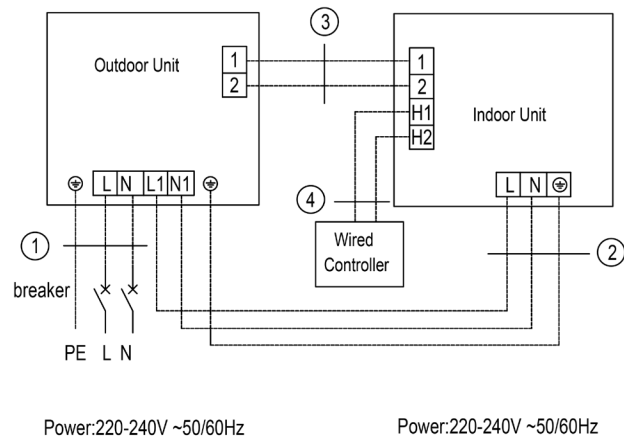
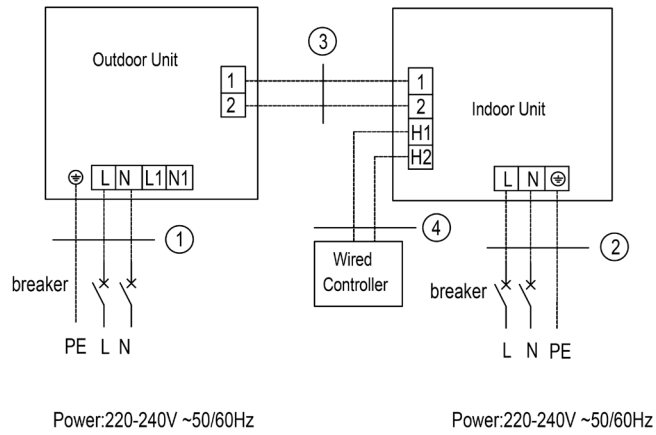
① Power cord 3×1.5mm<sup>2</sup>

② Power cord 3×1.0mm<sup>2</sup>

③ Communication cords 2×0.75mm<sup>2</sup>

④ Communication cords 2×0.75mm<sup>2</sup>

Single-phase Unit: GUD71W/A1-S;GUD71W/A-S;GUD100W/A-S.

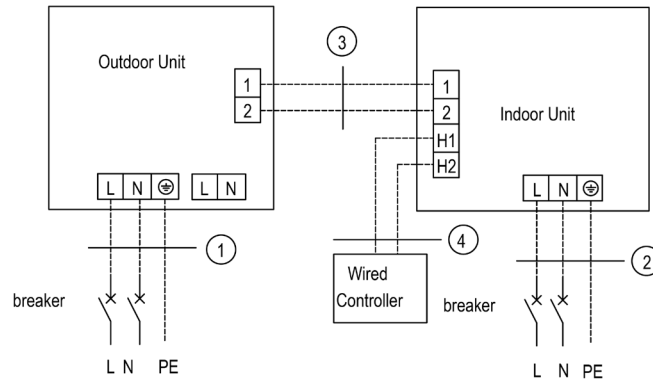


- GUD71T/A1-S+GUD71W/A1-S
- GUD71T/A-S+GUD71W/A-S
- GUD100T/A-S+GUD100W/A-S
- ① Power cord 3×2.5mm<sup>2</sup>
- ② Power cord 3×1.0mm<sup>2</sup>
- ③ Communication cords 2×0.75mm<sup>2</sup>
- ④ Communication cords 2×0.75mm<sup>2</sup>



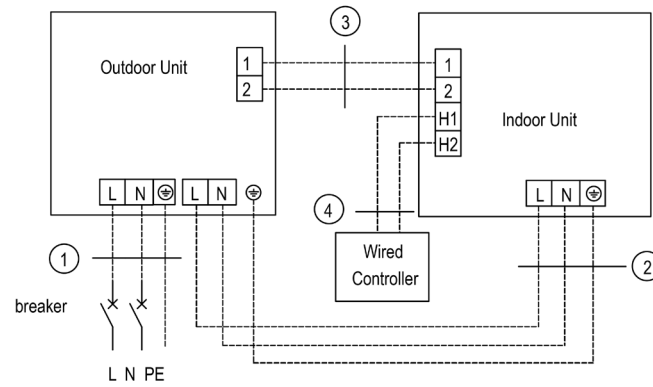
# U-MATCH SERIES AIR CONDITIONERS

Single-phase Unit: GUD125W/A-S;GUD140W/A-S;GUD160W/A-S.



Power:220-240V ~50/60Hz

Power:220-240V ~50/60Hz



Power:220-240V ~50/60Hz

Power:220-240V ~50/60Hz

**GUD125T/A-S+GUD125W/A-S**

**GUD140T/A-S+GUD140W/A-S**

① Power cord 3×4.0mm<sup>2</sup>

② Power cord 3×1.0mm<sup>2</sup>

③ Communication cords 2×0.75mm<sup>2</sup>

④ Communication cords 2×0.75mm<sup>2</sup>

**GUD160T/A-S+GUD160W/A-S**

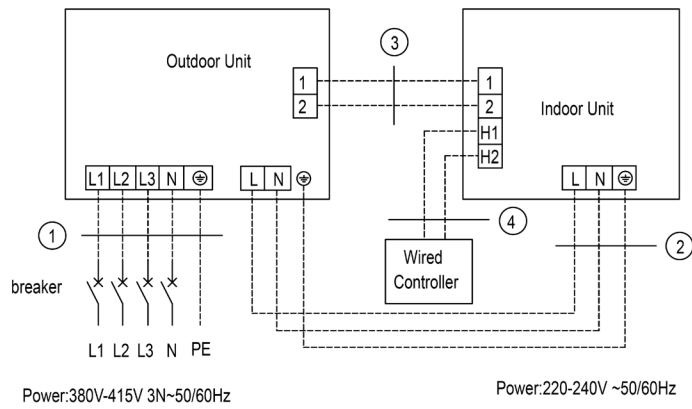
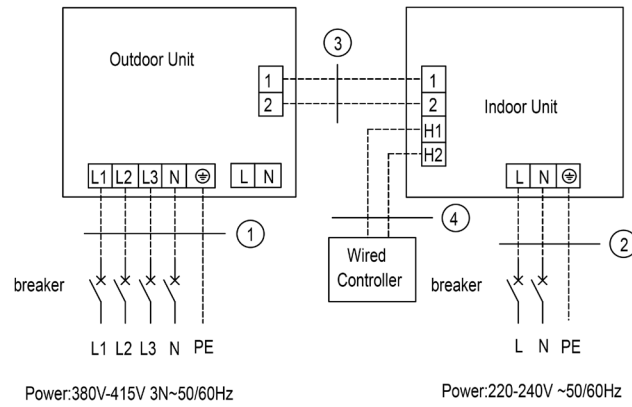
① Power cord 3×6.0mm<sup>2</sup>

② Power cord 3×1.0mm<sup>2</sup>

③ Communication cords 2×0.75mm<sup>2</sup>

④ Communication cords 2×0.75mm<sup>2</sup>

Three-phase unit:GUD125W/A-X;GUD140W/A-X;GUD160W/A-X.



GUD125T/A-S+GUD125W/A-X

GUD140T/A-S+GUD140W/A-X

GUD160T/A-S+GUD160W/A-X

① Power cord  $5 \times 1.5\text{mm}^2$

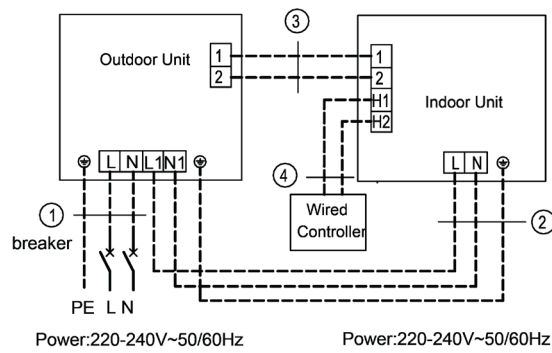
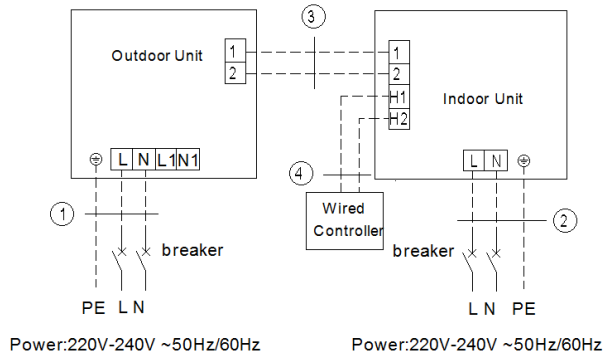
② Power cord  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$

## 11.2.2 Duct Type

Single-phase Unit: GUD35W/A-S; GUD50W/A-S; GUD71W/A1-S; GUD71W/A-S; GUD100W/A-S.



GUD35P/A-S+GUD35W/A-S,  
GUD35PS/A-S+GUD35W/A-S

GUD50P/A-S+GUD50W/A-S,  
GUD50PS/A-S+GUD50W/A-S

① Power cords 3×1.5mm<sup>2</sup>

② Power cords 3×1.0mm<sup>2</sup>

③ Communication cords 2×0.75mm<sup>2</sup>

④ Communication cords 2×0.75mm<sup>2</sup>

GUD71P/A1-S+GUD71W1/A-S,  
GUD71PS/A1-S+GUD71W/A1-S

GUD71P/A-S+GUD71W/A-S,  
GUD71PS/A-S+GUD71W/A-S

GUD100PH/A-S+GUD100W/A-S,  
GUD100PHS/A-S+GUD100W/A-S

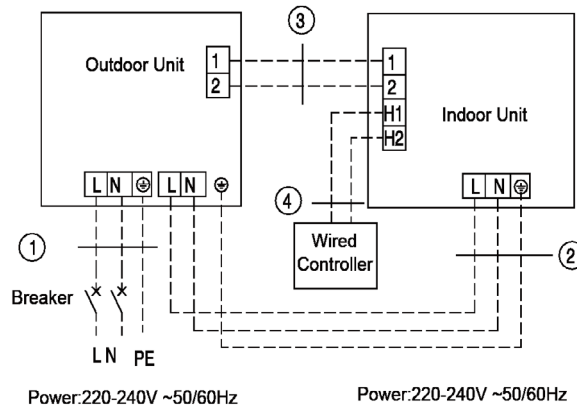
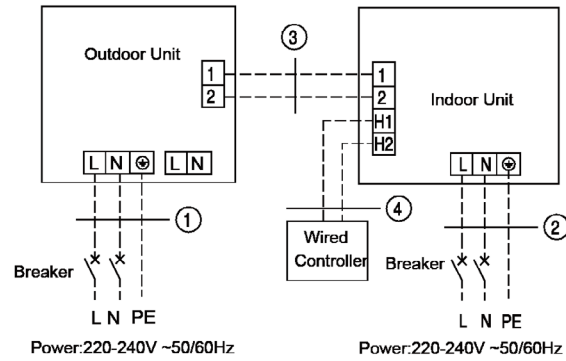
① Power cords 3×2.5mm<sup>2</sup>

② Power cords 3×1.0mm<sup>2</sup>

③ Communication cords 2×0.75mm<sup>2</sup>

④ Communication cords 2×0.75mm<sup>2</sup>

Single-phase Unit: GUD125W/A-S, GUD140W/A-S, GUD160W/A-S.



GUD125PH/A-S+GUD125W/A-S,  
GUD125PHS/A-S+GUD125W/A-S  
GUD140PH/A-S+GUD140W/A-S,  
GUD140PHS/A-S+GUD140W/A-S

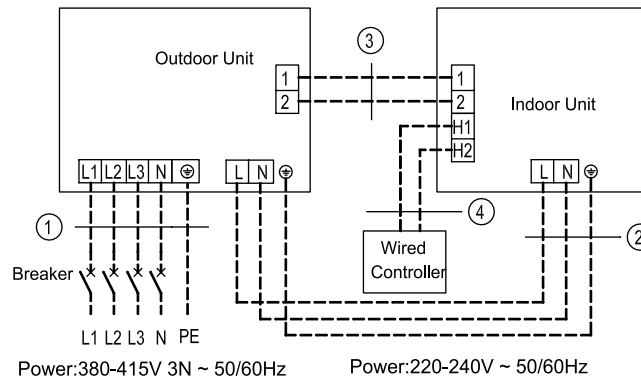
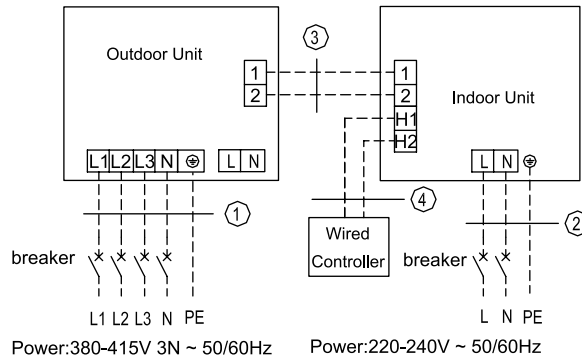
- ① Power cords 3×4.0mm<sup>2</sup>
- ② Power cords 3×1.0mm<sup>2</sup>
- ③ Communication cords 2×0.75mm<sup>2</sup>
- ④ Communication cords 2×0.75mm<sup>2</sup>

GUD160PH/A-S+GUD160W/A-S,  
GUD160PHS/A-S+GUD160W/A-S

- ① Power cords 3×6.0mm<sup>2</sup>
- ② Power cords 3×1.0mm<sup>2</sup>
- ③ Communication cords 2×0.75mm<sup>2</sup>
- ④ Communication cords 2×0.75mm<sup>2</sup>

# U-MATCH SERIES AIR CONDITIONERS

Three-phase unit: GUD125W/A-X, GUD140W/A-X, GUD160W/A-X.



GUD125PH/A-S+GUD125W/A-X,  
GUD125PHS/A-S+GUD125W/A-X

GUD140PH/A-S+GUD140W/A-X,  
GUD140PHS/A-S+GUD140W/A-X

GUD160PH/A-S+GUD160W/A-X,  
GUD160PHS/A-S+GUD160W/A-X

① Power cords  $5 \times 1.5\text{mm}^2$

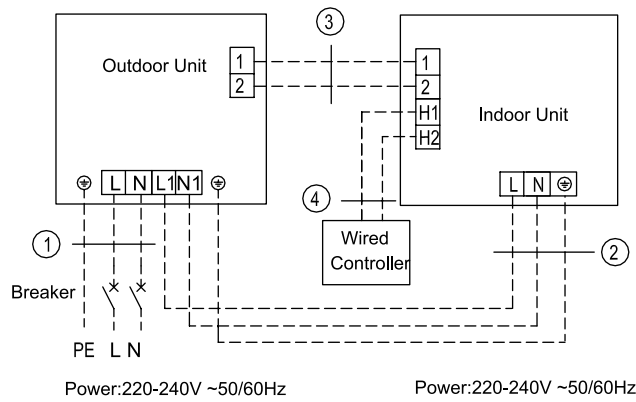
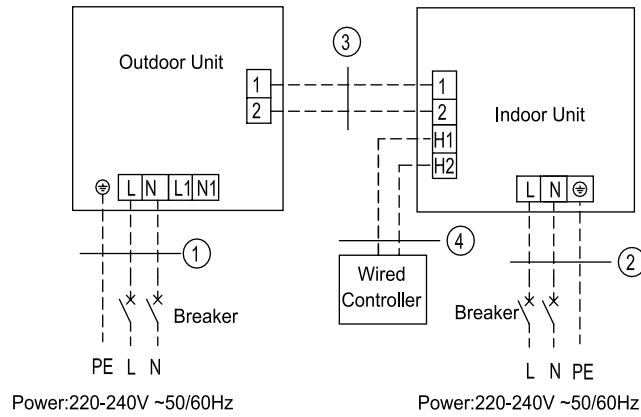
② Power cords  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$

### 11.2.3 Floor Ceiling Type

Single-phase unit: GUD35W/A-S,GUD50W/A-S,GUD71W/A1-S,GUD71W/A-S,GUD100W/A-S.



**GUD35ZD/A-S+GUD35W/A-S**

**GUD50ZD/A-S+GUD50W/A-S**

① Power cords  $3 \times 1.5\text{mm}^2$

② Power cords  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$

**GUD71ZD/A1-S+GUD71W/A1-S**

**GUD71ZD/A-S+GUD71W/A-S**

**GUD100ZD/A-S+GUD100W/A-S**

① Power cords  $3 \times 2.5\text{mm}^2$

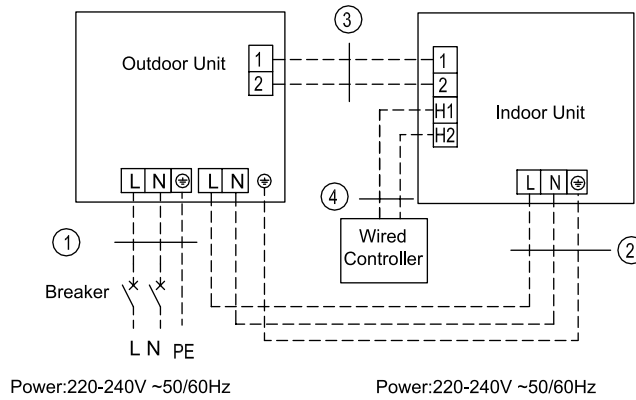
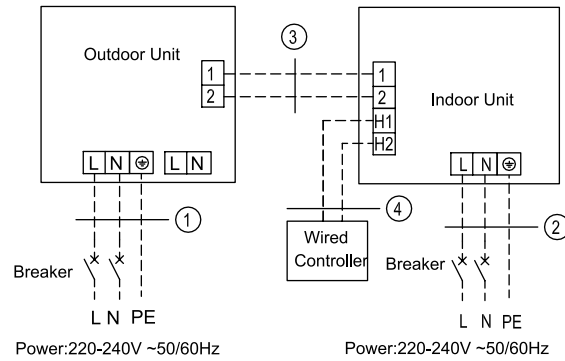
② Power cords  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$

# U-MATCH SERIES AIR CONDITIONERS

Single-phase unit: GUD125W/A-S, GUD140W/A-S, GUD160W/A-S.



### GUD125ZD/A-S+GUD125W/A-S

### GUD140ZD/A-S+GUD140W/A-S

① Power cords  $3 \times 4.0\text{mm}^2$

② Power cords  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$

### GUD160ZD/A-S+GUD160W/A-S

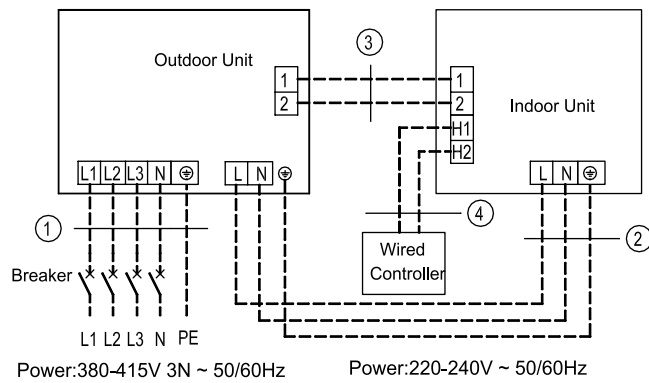
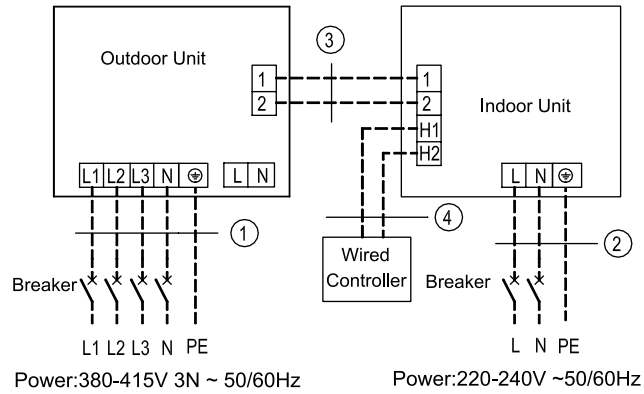
① Power cords  $3 \times 6.0\text{mm}^2$

② Power cords  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$

Three-phase unit: GUD125W/A-X, GUD140W/A-X, GUD160W/A-X.



GUD125ZD/A-S + GUD125W/A-X

GUD140ZD/A-S + GUD140W/A-X

GUD160ZD/A-S + GUD160W/A-X

① Power cords  $5 \times 1.5\text{mm}^2$

② Power cords  $3 \times 1.0\text{mm}^2$

③ Communication cords  $2 \times 0.75\text{mm}^2$

④ Communication cords  $2 \times 0.75\text{mm}^2$



## 12 LIST OF STANDARD AND OPTIONAL PARTS

	Cassette Type	Duct Type	Floor Ceiling Type
Wired Controller XK117	○	●	○
Product code: MC20700730			
Wired Controller XE71-42/G	○	○	○
Product code: NC20700080			
Remote Controller YAP1F6	●	○	●
Product code: 305001060024			
YAN1F1	○	○	○
Product code: 30510474			
YAA1FB6(WiFi)	○	○	○
Product code: 305001000078			
WiFi Module(G-Cloud) ME31-00/C4	○	○	○
Product code: MC20002050			
Centralized Controller (up to 36 indoor unit) CE52-24/F(C)	○	○	○
Product code: MC207052			
Modbus Gateway ME50-00/EG(M)	○	○	○
Product code: NC20000010			
Dry Contact Gateway ( Extended Function Board) ME30-42/E1	○	○	○
Product code: NC20000020			
Door Controller MK03	○	○	○
Product code: MC207022			
the Communication Wire of Indoor Unit and Outdoor Unit	○	○	○
the Communication Wire of Indoor Unit and Wire Controller	○	○	○
Chassis Electric Heating Belt	○	○	○

Note: ● means standard, ○ means optional.

Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI 519070

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