



# Technical Sales Guide

## U-MATCH FIXED SPEED COOLING ONLY UNIT

(GC202010-I)

CAPACITY: 22000~54000Btu/h  
RATE FREQUENCY: 60Hz  
OPERATION RANGE: 21°C~43°C



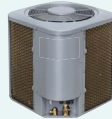


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# J-MATCH FIXED SPEED COOLING ONLY UNIT

## 1 PRODUCT LIST


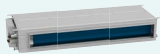
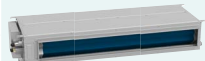
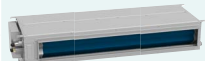

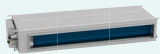
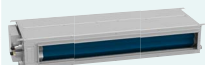
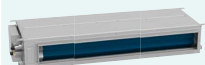


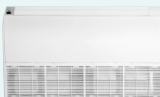
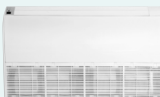
### ➔ 1.1 Outdoor Unit

Model	Power supply	Finished product code	Appearance
	V/Ph/Hz		
GUL24H/B-D	220-230V ~ 60Hz	CF021W2820	
GUL36H/B-D		CF021W2740	
GUL48H/B-D		CF021W2830	
GUL60H/B-D		CF021W2840	

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 capacity (Btu/h)	Power supply	Finished product code	Appearance	
		V/Ph/Hz			
Cassette Type	GUL24T/B-D	22000	220-230V ~ 60Hz	ET010N2200	
	GUL36T/B-D	35000		ET010N1990	
	GUL48T/B-D	48000		ET010N2210	
	GUL60T/B-D	54000		ET010N1980	

Model		Rated cooling capacity (Btu/h)	Power supply	Finished product code	Appearance
			V/Ph/Hz		
Duct Type Duct Type	GUL24PS/B-D	22000	220-230V ~ 60Hz	CF022N3470	
	GUL36PHS/B-D	34000		CF022N3040	
	GUL48PHS/B-D	48000		CF022N3480	
	GUL60PHS/B-D	54000		CF022N3030	
	GUL24P/B-D	22000		CF022N3460	
	GUL36PH/B-D	34000		CF022N3450	
	GUL48PH/B-D	48000		CF022N3490	
	GUL60PH/B-D	54000		CF022N3500	
Floor Ceiling Type	GUL24ZD/B-D	22000	220-230V ~ 60Hz	ED020N2280	
	GUL36ZD/B-D	34500		ED020N2240	
	GUL48ZD/B-D	48000		ED020N2290	
	GUL60ZD/B-D	54000		ED020N2250	

NOTE:

◆ 1 Ton = 12000Btu/h = 3.517kW

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).

# U-MATCH FIXED SPEED COOLING ONLY UNIT

## 2 NOMENCLATURE

### 2.1 Nomenclature of Outdoor Unit

Basic structure of outdoor unit model designation.

GU	-	-	-	-	-	-	-	-
1	2	3	4	5	6	7	8	9

No.	Options	Appearance
1	Product code	Gree U-Match
2	Suitable climate	Omit: T1 working condition; T: T3 working condition
3	Function code	Omit: heat pump; L: cooling only
4	Compressor frequency	Omit: fixed-frequency
5	Cooling capacity code	Nominal capacity/100(W) or 1 (KBTU)
6	Unit type	W: side discharge; H: top discharge
7	Refrigerant	Omit: R410a; Nh: R32
8	Design number	Named in order of A, B, C, or combined with 1, 2, 3...
9	Power supply	D: single-phase; F: three-phase

### 2.2 Nomenclature of Indoor Unit

Basic structure of indoor unit model designation.

GU	-	-	-	-	-	-
1	2	3	4	5	6	7

No.	Options	Appearance
1	Product code	Gree U-Match
2	Motor type	Omit: AC motor; D: DC motor
3	Cooling capacity code	Nominal capacity/100(W)
4	Unit type	G: wall-mounted; L: floor-standing; T: cassette type; P: common duct type; PH: high static pressure duct type; ZD: floor ceiling type
5	Water pump	S: with water pump (cassette type is with water pump, but S is omitted)
6	Design number	Named in order of A, B, C, or combined with 1, 2, 3...
7	Power supply	D: single-phase; F: three-phase

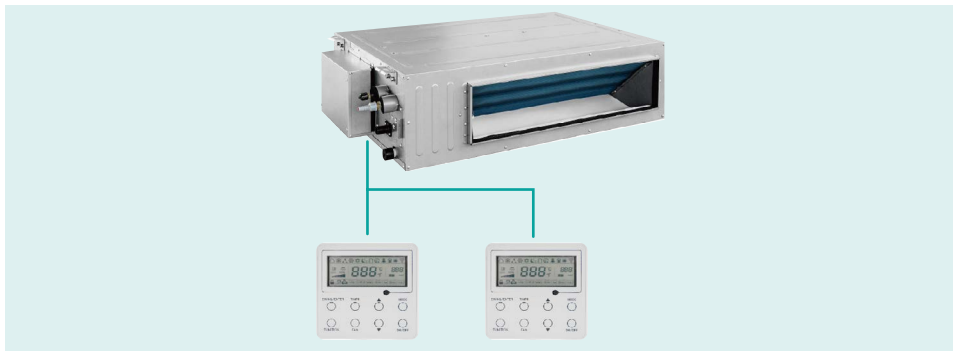
## 3 PRODUCT FEATURES

Gree U-Match Series can be widely applied in small-sized super markets, chain stores, hotels, restaurants, office rooms, meeting rooms, etc, especially suitable to small-sized commercial and industrial use. Indoor units adopt clasp type, duct type and floor type design for flexible installation.

### ➔ 3.1 Smart Convenient Control

#### 3.1.1 Double Wired Controllers

Double wired controllers can be set. 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:



### ➔ 3.2 User-Friendly Design

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 PRODUCT PARAMETERS

### ➔ 4.1 Cassette Type

	IDU		GUL24T/B-D	GUL36T/B-D	GUL48T/B-D	GUL60T/B-D
	ODU		GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Rated capacity	Cooling	Btu/h	22000	35000	48000	54000
Input power	Cooling	kW	2.3	3.6	5.0	5.3
EER		w/w	2.80	2.85	2.81	2.99
	IDU		GUL24T/B-D	GUL36T/B-D	GUL48T/B-D	GUL60T/B-D
	Power supply		220-230V ~ 60Hz			
	Heat exchanger		Cross Fin Coil			
Panel	Dimensions	mm	950×950×52	950×950×52	950×950×52	950×950×52
	Net weight	kg	6	6	6	6
	Gross weight	kg	9.5	9.5	9.5	9.5
Fan motor	Type	—	Centrifugal			
	Drive	—	Direct			
	Motor output	W	55	100	100	140
	Air volume	m <sup>3</sup> /h	1300	1800	1900	1900
	Filter		PP			
Sound pressure level noise	Cooling	dB(A)	48	54	54	54

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	IDU		GUL24T/B-D	GUL36T/B-D	GUL48T/B-D	GUL60T/B-D
	ODU		GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Connection pipe	Liquid pipe	in.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas pipe	in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
	Drainage pipe	mm	Φ25×1.5	Φ25×1.5	Φ25×1.5	Φ25×1.5
Dimensions (H×W×D)	Outline	mm	840×840×240	840×840×290	840×840×290	840×840×290
	Package	mm	933×903×272	933×903×335	933×903×335	933×903×335
Weight	Net weight	kg	32	34	35	38
	Gross weight	kg	38	41	42	45
ODU			GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Heat exchanger		—	Cross Fin Coil			
Power supply			220-230V ~ 60Hz			
Compressor	Model		QXA-E22rH090	QXAS-F325rN450A	ATE470UN-Q9PK	ATE498UN-Q9PK
	Type		Constant Speed Rotary			
	Input power	W	2150	3412	4790	5240
Fan motor	Type		Axial-flow			
	Air volume	m <sup>3</sup> /h	2050	3970	6900	6900
	Output power	W	125	130	250	250
Refrigerant	Type		R410A			
	Weight	kg	1.60	2.45	3.30	4.10
	Throttling method		Valve core			
Connection pipe	Liquid pipe	in.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas pipe	in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
Refrigerant pipe	Standard length	m	5	5	7.5	7.5
	Maximum length	m	30	50	50	50
	Maximum height	m	15	30	30	30
Dimensions (W×D×H)	Outline	mm	546×546×630	610×610×715	710×710×810	710×710×810
	Package	mm	573×573×654	651×651×730	738×738×843	738×738×843
Weight	Net weight	kg	46	59	79	87
	Gross weight	kg	48	63	84	92
Safety device			High pressure switch	High pressure switch	High pressure switch	High pressure switch
			Low pressure switch	Low pressure switch	Low pressure switch	Low pressure switch
			Discharge temperature sensor	Discharge temperature sensor	Discharge temperature sensor	Discharge temperature sensor
			Discharge temperature sensor	Discharge temperature sensor	Discharge temperature sensor	Discharge temperature sensor



## 4.2 Duct Type

	IDU		GUL24PS/B-D	GUL36PHS/B-D	GUL48PHS/B-D	GUL60PHS/B-D	
	ODU		GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D	
	GUL24P/B-D		GUL36PH/B-D		GUL48PH/B-D		GUL60PH/B-D
Rated capacity	Cooling	Btu/h	22000	34000	48000	54000	
Input power	Cooling	kW	2.4	3.6	5.0	5.3	
EER		w/w	2.69	2.77	2.81	2.99	
IDU			GUL24PS/B-D	GUL36PHS/B-D	GUL48PHS/B-D	GUL60PHS/B-D	
Power supply			220-230V ~ 60Hz				
Heat exchanger		—	Cross Fin Coil				
Fan motor	Type		Centrifugal				
	Drive		Direct				
	Motor output	W	60	120	210	210	
	Air volume	m <sup>3</sup> /h	1300	1700	2400	2400	

	IDU		GUL24PS/B-D	GUL36PHS/B-D	GUL48PHS/B-D	GUL60PHS/B-D
	ODU		GUL24P/B-D	GUL36PH/B-D	GUL48PH/B-D	GUL60PH/B-D
	ODU		GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Filter	—		PP			
Sound pressure level noise	Cooling	dB(A)	42	44	48	46
Connection pipe	Liquid pipe	in.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas pipe	in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
	Drainage pipe	mm	Φ26×1.5	Φ26×1.5	Φ26×1.5	Φ26×1.5
Dimensions (W×D×H)	Outline	mm	1300×450×220	1000×700×300	1400×700×300	1400×700×300
	Package	mm	1628×578×300	1205×813×360	1601×813×365	1601×813×365
Weight	Net weight	kg	33	42	54	54
	Gross weight	kg	40	48	60	60
ODU			GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Heat exchanger	—		Cross Fin Coil			
Power supply			220-230V ~ 60Hz			
Compressor	Model		QXA-E22rH090	QXAS-F325rN450A	ATE470UN-Q9PK	ATE498UN-Q9PK
	Type		Constant Speed Rotary			
	Input power	W	2150	3412	4790	5240
Fan motor	Type		Axial-flow			
	Air volume	m <sup>3</sup> /h	2050	3970	6900	6900
	Output power	W	125	130	250	250
Refrigerant	Type		R410A			
	Weight	kg	1.60	2.45	3.30	4.10
	Throttling method		Valve core			
Connection pipe	Liquid pipe	in.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas pipe	in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
Refrigerant pipe	Standard length	m	5	5	7.5	7.5
	Maximum length	m	30	50	50	50
	Maximum height	m	15	30	30	30
Dimensions (W×D×H)	Outline	mm	546×546×630	610×610×715	710×710×810	710×710×810
	Package	mm	573×573×654	651×651×730	738×738×843	738×738×843
Weight	Net weight	kg	46	59	79	87
	Gross weight	kg	48	63	84	92
Safety device			High pressure switch	High pressure switch	High pressure switch	High pressure switch
			Low pressure switch	Low pressure switch	Low pressure switch	Low pressure switch
			Discharge temperature sensor	Discharge temperature sensor	Discharge temperature sensor	Discharge temperature sensor



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## 4.3 Floor Ceiling Type

	IDU		GUL24ZD/B-D	GUL36ZD/B-D	GUL48ZD/B-D	GUL60ZD/B-D
	ODU		GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Rated capacity	Cooling	Btu/h	22000	34500	48000	54000
Input power	Cooling	kW	2.4	3.6	5.1	5.4
EER		w/w	2.69	2.81	2.76	2.93
IDU			GUL24ZD/B-D	GUL36ZD/B-D	GUL48ZD/B-D	GUL60ZD/B-D
Power supply			220-230V ~ 60Hz			
Heat exchanger		—	Cross Fin Coil			
Fan motor	Type	—	Centrifugal			
	Drive	—	Direct			
	Motor output	W	75	100	200	180
	Air volume	m <sup>3</sup> /h	1400	1700	2400	2600
Filter		—	PP			
Sound pressure level noise	Cooling	dB(A)	48	54	58	58
Connection pipe	Liquid pipe	in.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas pipe	in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
	Drainage pipe	mm	Φ25×1.5	Φ17×1.5	Φ17×1.5	Φ17×1.5
Dimensions (H×W×D)	Outline	mm	1200×665×235	1200×665×235	1570×665×235	1570×665×235
	Package	mm	1363×770×300	1303×770×300	1669×770×300	1669×770×300
Weight	Net weight	kg	34	37	45	46
	Gross weight	kg	40	43	52	53
ODU			GUL24H/B-D	GUL36H/B-D	GUL48H/B-D	GUL60H/B-D
Heat exchanger		—	Cross Fin Coil			
Power supply			220-230V ~ 60Hz			
Compressor	Model		QXA-E22rH090	QXAS-F325rN450A	ATE470UN-Q9PK	ATE498UN-Q9PK
	Type		Constant Speed Rotary			
	Input power	W	2150	3412	4790	5240
Fan motor	Type	—	Axial-flow			
	Air volume	m <sup>3</sup> /h	2050	3970	6900	6900
	Output power	W	125	130	250	250
Refrigerant	Type		R410A			
	Weight	kg	1.60	2.45	3.30	4.10
	Throttling method		Valve core			
Connection pipe	Liquid pipe	in.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas pipe	in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
Refrigerant pipe	Standard length	m	5	5	7.5	7.5
	Maximum length	m	30	50	50	50
	Maximum height	m	15	30	30	30
Dimensions (W×D×H)	Outline	mm	546×546×630	610×610×715	710×710×810	710×710×810
	Package	mm	573×573×654	651×651×730	738×738×843	738×738×843
Weight	Net weight	kg	46	59	79	87
	Gross weight	kg	48	63	84	92
Safety device			High pressure switch	High pressure switch	High pressure switch	High pressure switch
			Low pressure switch	Low pressure switch	Low pressure switch	Low pressure switch
			Discharge	Discharge	Discharge	Discharge
			temperature sensor	temperature sensor	temperature sensor	temperature sensor

- ◆ Duct Type design conforms to ISO 13253-2017 standards. Cassette Type and Floor Ceiling Type design conforms to ISO 5151-2017 standards.

- ◆ Air volume was measured under applicable standard static pressure.
- ◆ Above cooling 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

## 5 PRODUCT OPERATION RANGE

-	Cooling
Outdoor temperature DB(°C)	21-43
Indoor temperature DB/WB(°C)(Maximum)	32/23

## 6 CAPACITY CORRECTION

### ➔ 6.1 Table of Performance Correction

#### 6.1.1 Cassette Type

GUL24T/B-D(GUL24H/B-D)

Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)																
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)				
	DB °C (°F)	WB °C (°F)	TC		SHC		TC		SHC		TC		SHC		TC		SHC		
		kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
Turbo	22.2(72)	16.1(61)	6.48	22.11	4.37	14.92	6.23	21.26	4.28	14.60	6.03	20.58	4.20	14.58	5.43	18.52	3.80	12.96	
	25(77)	18.3(65)	6.80	23.19	4.42	15.08	6.54	22.30	4.27	14.58	6.32	21.57	4.17	14.57	5.69	19.41	3.81	13.01	
	27(81)	19(66)	6.94	23.67	4.36	14.86	6.67	22.76	4.24	14.47	6.45	22.01	4.18	14.57	5.81	19.81	3.83	13.07	
	30(86)	22.2(72)	7.36	25.11	4.33	14.79	7.08	24.14	4.18	14.25	6.84	23.33	4.10	14.57	6.15	21.00	3.75	12.81	
	32.2(90)	23.9(75)	7.69	26.25	4.23	14.44	7.40	25.25	4.14	14.14	7.11	24.27	4.06	14.57	6.40	21.85	3.71	12.67	
H	22.2(72)	16.1(61)	5.39	18.40	3.64	12.42	5.19	17.70	3.56	12.16	5.02	17.13	3.49	12.13	4.52	15.42	3.16	10.79	
	25(77)	18.3(65)	5.66	19.31	3.68	12.55	5.44	18.57	3.56	12.14	5.26	17.96	3.47	12.13	4.74	16.16	3.17	10.83	
	27(81)	19(66)	5.77	19.70	3.63	12.37	5.55	18.95	3.53	12.05	5.37	18.32	3.48	12.13	4.83	16.49	3.19	10.88	
	30(86)	22.2(72)	6.13	20.91	3.61	12.31	5.89	20.10	3.48	11.86	5.69	19.42	3.42	12.13	5.12	17.48	3.13	10.66	
	32.2(90)	23.9(75)	6.41	21.86	3.52	12.02	6.16	21.02	3.45	11.77	5.92	20.21	3.38	12.13	5.33	18.19	3.09	10.55	
M	22.2(72)	16.1(61)	4.96	16.93	3.35	11.43	4.77	16.28	3.28	11.18	4.62	15.76	3.21	11.76	4.16	14.18	2.91	9.93	
	25(77)	18.3(65)	5.21	17.76	3.38	11.55	5.01	17.08	3.27	11.17	4.84	16.52	3.20	11.76	4.36	14.87	2.92	9.96	
	27(81)	19(66)	5.31	18.13	3.34	11.38	5.11	17.43	3.25	11.08	4.94	16.86	3.20	11.76	4.45	15.17	2.93	10.01	
	30(86)	22.2(72)	5.64	19.23	3.32	11.33	5.42	18.49	3.20	10.91	5.24	17.87	3.14	11.76	4.71	16.08	2.87	9.81	
	32.2(90)	23.9(75)	5.89	20.11	3.24	11.06	5.67	19.34	3.17	10.83	5.45	18.59	3.11	11.76	4.90	16.73	2.84	9.70	
L	22.2(72)	16.1(61)	4.41	15.05	2.98	10.16	4.24	14.47	2.91	9.94	4.10	14.01	2.86	10.01	3.69	12.60	2.59	8.82	
	25(77)	18.3(65)	4.63	15.79	3.01	10.26	4.45	15.18	2.91	9.93	4.30	14.68	2.84	10.01	3.87	13.21	2.59	8.85	
	27(81)	19(66)	4.72	16.11	2.96	10.12	4.54	15.49	2.89	9.85	4.39	14.98	2.84	10.01	3.95	13.48	2.61	8.90	
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62	
	32.2(90)	23.9(75)	5.24	17.87	2.88	9.83	5.04	17.18	2.82	9.62	4.84	16.52	2.76	10.01	4.36	14.87	2.53	8.62	

# U-MATCH FIXED SPEED COOLING ONLY UNIT

**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	60Hz,220V	5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

## GUL36T/B-D(GUL36H/B-D)

### Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)			
	DB °C (°F)	WB °C (°F)	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
Turbo	22.2(72)	16.1(61)	10.30	35.13	6.95	23.71	9.90	33.78	6.80	23.21	9.58	32.70	6.67	32.70	8.63	29.43	6.04	20.60
	25(77)	18.3(65)	10.80	36.86	7.02	23.96	10.39	35.44	6.79	23.18	10.05	34.27	6.63	34.27	9.04	30.85	6.06	20.67
	27(81)	19(66)	11.02	37.61	6.92	23.62	10.60	36.16	6.74	23.00	10.25	34.97	6.64	34.97	9.23	31.48	6.09	20.77
	30(86)	22.2(72)	11.70	39.90	6.89	23.50	11.25	38.37	6.63	22.64	10.87	37.07	6.52	37.07	9.78	33.36	5.96	20.35
	32.2(90)	23.9(75)	12.23	41.72	6.73	22.95	11.76	40.12	6.58	22.47	11.31	38.58	6.44	38.58	10.18	34.72	5.90	20.14
H	22.2(72)	16.1(61)	8.82	30.09	5.95	20.31	8.48	28.93	5.83	19.88	8.21	28.01	5.71	28.01	7.39	25.21	5.17	17.65
	25(77)	18.3(65)	9.25	31.57	6.01	20.52	8.90	30.36	5.82	19.85	8.60	29.36	5.68	29.36	7.74	26.42	5.19	17.70
	27(81)	19(66)	9.44	32.21	5.93	20.23	9.08	30.98	5.77	19.70	8.78	29.96	5.69	29.96	7.90	26.96	5.22	17.79
	30(86)	22.2(72)	10.02	34.18	5.90	20.13	9.63	32.87	5.68	19.39	9.31	31.75	5.58	31.75	8.38	28.58	5.11	17.43
	32.2(90)	23.9(75)	10.47	35.74	5.76	19.66	10.07	34.36	5.64	19.24	9.68	33.04	5.52	33.04	8.72	29.74	5.06	17.25
M	22.2(72)	16.1(61)	7.92	27.01	5.34	18.23	7.61	25.97	5.23	17.84	7.37	25.14	5.13	25.14	6.63	22.63	4.64	15.84
	25(77)	18.3(65)	8.30	28.33	5.40	18.42	7.98	27.24	5.22	17.82	7.72	26.35	5.10	26.35	6.95	23.71	4.66	15.89
	27(81)	19(66)	8.47	28.91	5.32	18.16	8.15	27.80	5.18	17.68	7.88	26.89	5.11	26.89	7.09	24.20	4.68	15.97
	30(86)	22.2(72)	8.99	30.68	5.30	18.07	8.65	29.50	5.10	17.40	8.35	28.50	5.01	28.50	7.52	25.65	4.59	15.65
	32.2(90)	23.9(75)	9.40	32.08	5.17	17.64	9.04	30.84	5.06	17.27	8.69	29.66	4.95	29.66	7.82	26.69	4.54	15.48
L	22.2(72)	16.1(61)	7.42	25.33	5.01	17.10	7.14	24.35	4.90	16.73	6.91	23.58	4.81	23.58	6.22	21.22	4.35	14.85
	25(77)	18.3(65)	7.79	26.57	5.06	17.27	7.49	25.55	4.90	16.71	7.24	24.71	4.78	24.71	6.52	22.24	4.37	14.90
	27(81)	19(66)	7.95	27.11	4.99	17.03	7.64	26.07	4.86	16.58	7.39	25.21	4.79	25.21	6.65	22.69	4.39	14.98
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	8.82	30.08	4.85	16.54	8.48	28.92	4.75	16.20	8.15	27.81	4.65	27.81	7.34	25.03	4.25	14.52

**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	60Hz,220V	5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

GUL48T/B-D(GUL48H/B-D)

Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
	DB °C ( °F )	WB °C ( °F )	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
			kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
Turbo	22.2(72)	16.1(61)	14.13	48.22	9.54	32.55	13.59	46.37	9.34	31.85	13.16	44.89	9.16	44.89	11.84	40.40	8.29	28.28
	25(77)	18.3(65)	14.83	50.59	9.64	32.88	14.26	48.65	9.32	31.81	13.79	47.05	9.10	47.05	12.41	42.34	8.31	28.37
	27(81)	19(66)	15.13	51.62	9.50	32.42	14.55	49.64	9.25	31.57	14.07	48.01	9.12	48.01	12.66	43.21	8.36	28.52
	30(86)	22.2(72)	16.05	54.78	9.46	32.26	15.44	52.67	9.11	31.07	14.91	50.89	8.95	50.89	13.42	45.80	8.19	27.94
	32.2(90)	23.9(75)	16.79	57.27	9.23	31.50	16.14	55.07	9.04	30.84	15.52	52.95	8.85	52.95	13.97	47.66	8.10	27.64
H	22.2(72)	16.1(61)	12.26	41.85	8.28	28.25	11.79	40.24	8.10	27.64	11.42	38.95	7.95	38.95	10.27	35.06	7.19	24.54
	25(77)	18.3(65)	12.87	43.90	8.36	28.54	12.37	42.22	8.09	27.61	11.97	40.83	7.90	40.83	10.77	36.74	7.22	24.62
	27(81)	19(66)	13.13	44.80	8.25	28.13	12.63	43.08	8.03	27.40	12.21	41.66	7.91	41.66	10.99	37.49	7.25	24.75
	30(86)	22.2(72)	13.93	47.53	8.21	28.00	13.40	45.71	7.90	26.97	12.94	44.16	7.77	44.16	11.65	39.74	7.11	24.24
	32.2(90)	23.9(75)	14.57	49.70	8.01	27.34	14.01	47.79	7.84	26.76	13.47	45.95	7.68	45.95	12.12	41.36	7.03	23.99
M	22.2(72)	16.1(61)	10.80	36.84	7.29	24.87	10.38	35.43	7.13	24.34	10.05	34.29	7.00	34.29	9.05	30.87	6.33	21.61
	25(77)	18.3(65)	11.33	38.65	7.36	25.13	10.89	37.17	7.12	24.31	10.54	35.95	6.95	35.95	9.48	32.35	6.35	21.68
	27(81)	19(66)	11.56	39.44	7.26	24.77	11.12	37.93	7.07	24.12	10.75	36.68	6.97	36.68	9.68	33.01	6.39	21.79
	30(86)	22.2(72)	12.27	41.85	7.22	24.65	11.79	40.24	6.96	23.74	11.40	38.88	6.84	38.88	10.26	34.99	6.26	21.34
	32.2(90)	23.9(75)	12.82	43.76	7.05	24.07	12.33	42.08	6.91	23.56	11.86	40.46	6.76	40.46	10.67	36.41	6.19	21.12
L	22.2(72)	16.1(61)	9.46	32.29	6.39	21.79	9.10	31.04	6.25	21.33	8.81	30.05	6.13	30.05	7.93	27.05	5.55	18.93
	25(77)	18.3(65)	9.93	33.87	6.45	22.02	9.55	32.57	6.24	21.30	9.23	31.50	6.09	31.50	8.31	28.35	5.57	18.99
	27(81)	19(66)	10.13	34.56	6.36	21.71	9.74	33.23	6.19	21.14	9.42	32.14	6.10	32.14	8.48	28.93	5.60	19.09
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	11.24	38.34	6.18	21.09	10.81	36.87	6.05	20.65	10.39	35.45	5.92	35.45	9.35	31.91	5.42	18.51

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	60Hz,220V	7.5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

# J-MATCH FIXED SPEED COOLING ONLY UNIT

GUL60T/B-D(GUL60H/B-D)

Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
	DB °C ( °F )	WB °C ( °F )	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
Turbo	22.2(72)	16.1(61)	15.90	54.25	10.73	36.62	15.29	52.17	10.50	35.84	14.80	50.50	10.30	50.50	13.32	45.45	9.32	31.82
	25(77)	18.3(65)	16.68	56.92	10.84	37.00	16.04	54.73	10.49	35.79	15.51	52.93	10.24	52.93	13.96	47.64	9.35	31.92
	27(81)	19(66)	17.02	58.08	10.69	36.48	16.37	55.85	10.41	35.52	15.83	54.01	10.26	54.01	14.25	48.61	9.40	32.08
	30(86)	22.2(72)	18.06	61.63	10.64	36.30	17.37	59.26	10.25	34.96	16.78	57.25	10.07	57.25	15.10	51.53	9.21	31.43
	32.2(90)	23.9(75)	18.89	64.44	10.39	35.44	18.16	61.96	10.17	34.70	17.46	59.58	9.95	59.58	15.71	53.62	9.11	31.10
H	22.2(72)	16.1(61)	13.80	47.09	9.32	31.79	13.27	45.28	9.12	31.11	12.85	43.83	8.94	43.83	11.56	39.45	8.09	27.62
	25(77)	18.3(65)	14.48	49.41	9.41	32.11	13.92	47.51	9.11	31.07	13.47	45.94	8.89	45.94	12.12	41.35	8.12	27.70
	27(81)	19(66)	14.78	50.41	9.28	31.66	14.21	48.47	9.04	30.83	13.74	46.88	8.90	46.88	12.37	42.19	8.16	27.85
	30(86)	22.2(72)	15.68	53.49	9.23	31.51	15.07	51.43	8.89	30.35	14.56	49.69	8.74	49.69	13.11	44.72	8.00	27.28
	32.2(90)	23.9(75)	16.39	55.93	9.02	30.76	15.76	53.78	8.83	30.12	15.16	51.71	8.64	51.71	13.64	46.54	7.91	26.99
M	22.2(72)	16.1(61)	12.14	41.44	8.20	27.97	11.68	39.84	8.02	27.37	11.30	38.57	7.87	38.57	10.17	34.71	7.12	24.30
	25(77)	18.3(65)	12.74	43.47	8.28	28.26	12.25	41.80	8.01	27.34	11.85	40.43	7.82	40.43	10.66	36.38	7.14	24.38
	27(81)	19(66)	13.00	44.36	8.16	27.86	12.50	42.65	7.95	27.13	12.09	41.25	7.83	41.25	10.88	37.13	7.18	24.50
	30(86)	22.2(72)	13.79	47.07	8.12	27.72	13.26	45.26	7.83	26.70	12.82	43.73	7.69	43.73	11.53	39.35	7.04	24.01
	32.2(90)	23.9(75)	14.42	49.21	7.93	27.07	13.87	47.32	7.77	26.50	13.34	45.50	7.60	45.50	12.00	40.95	6.96	23.75
L	22.2(72)	16.1(61)	10.65	36.33	7.19	24.52	10.24	34.93	7.03	24.00	9.91	33.82	6.90	33.82	8.92	30.43	6.24	21.30
	25(77)	18.3(65)	11.17	38.11	7.26	24.77	10.74	36.65	7.02	23.97	10.39	35.44	6.86	35.44	9.35	31.90	6.26	21.37
	27(81)	19(66)	11.40	38.89	7.16	24.42	10.96	37.40	6.97	23.78	10.60	36.17	6.87	36.17	9.54	32.55	6.30	21.48
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	12.65	43.15	6.96	23.73	12.16	41.49	6.81	23.23	11.69	39.89	6.66	39.89	10.52	35.90	6.10	20.82

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	60Hz,220V	7.5m
Outdoor	60Hz,220V	

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

3. The green table shows nominal MAX capacities.

### 6.1.2 Duct Type

#### GUL24PS/B-D GUL24P/B-D(GUL24H/B-D)

#### Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)			
	DB °C (°F)	WB °C (°F)	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
Turbo	22.2(72)	16.1(61)	6.48	22.11	4.37	14.92	6.23	21.26	4.28	14.60	6.03	20.58	4.20	20.58	5.43	18.52	3.80	12.96
	25(77)	18.3(65)	6.80	23.19	4.42	15.08	6.54	22.30	4.27	14.58	6.32	21.57	4.17	21.57	5.69	19.41	3.81	13.01
	27(81)	19(66)	6.94	23.67	4.36	14.86	6.67	22.76	4.24	14.47	6.45	22.01	4.18	22.01	5.81	19.81	3.83	13.07
	30(86)	22.2(72)	7.36	25.11	4.33	14.79	7.08	24.14	4.18	14.25	6.84	23.33	4.10	23.33	6.15	21.00	3.75	12.81
	32.2(90)	23.9(75)	7.69	26.25	4.23	14.44	7.40	25.25	4.14	14.14	7.11	24.27	4.06	24.27	6.40	21.85	3.71	12.67
H	22.2(72)	16.1(61)	5.52	18.85	3.73	12.72	5.31	18.13	3.65	12.45	5.14	17.55	3.58	17.55	4.63	15.79	3.24	11.05
	25(77)	18.3(65)	5.80	19.78	3.77	12.85	5.57	19.02	3.64	12.44	5.39	18.39	3.56	18.39	4.85	16.55	3.25	11.09
	27(81)	19(66)	5.91	20.18	3.71	12.67	5.69	19.40	3.62	12.34	5.50	18.77	3.56	18.77	4.95	16.89	3.27	11.15
	30(86)	22.2(72)	6.28	21.41	3.70	12.61	6.03	20.59	3.56	12.15	5.83	19.89	3.50	19.89	5.25	17.90	3.20	10.92
	32.2(90)	23.9(75)	6.56	22.39	3.61	12.31	6.31	21.53	3.53	12.06	6.07	20.70	3.46	20.70	5.46	18.63	3.17	10.80
M	22.2(72)	16.1(61)	5.04	17.21	3.40	11.61	4.85	16.54	3.33	11.37	4.69	16.01	3.27	16.01	4.22	14.41	2.96	10.09
	25(77)	18.3(65)	5.29	18.05	3.44	11.73	5.09	17.36	3.33	11.35	4.92	16.79	3.25	16.79	4.43	15.11	2.97	10.12
	27(81)	19(66)	5.40	18.42	3.39	11.57	5.19	17.71	3.30	11.26	5.02	17.13	3.25	17.13	4.52	15.42	2.98	10.17
	30(86)	22.2(72)	5.73	19.54	3.37	11.51	5.51	18.79	3.25	11.09	5.32	18.16	3.19	18.16	4.79	16.34	2.92	9.97
	32.2(90)	23.9(75)	5.99	20.43	3.29	11.24	5.76	19.65	3.22	11.00	5.54	18.89	3.16	18.89	4.98	17.00	2.89	9.86
L	22.2(72)	16.1(61)	4.46	15.22	3.01	10.27	4.29	14.63	2.95	10.05	4.15	14.16	2.89	14.16	3.74	12.75	2.62	8.92
	25(77)	18.3(65)	4.68	15.97	3.04	10.38	4.50	15.35	2.94	10.04	4.35	14.85	2.87	14.85	3.92	13.36	2.62	8.95
	27(81)	19(66)	4.77	16.29	3.00	10.23	4.59	15.66	2.92	9.96	4.44	15.15	2.88	15.15	4.00	13.63	2.64	9.00
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	5.30	18.07	2.91	9.94	5.09	17.38	2.85	9.73	4.90	16.71	2.79	16.71	4.41	15.04	2.56	8.72

#### 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	60Hz,220V	5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

#### GUL36PHS/B-D,GUL36PH/B-D(GUL36H/B-D)

#### Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)			
	DB °C (°F)	WB °C (°F)	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
Turbo	22.2(72)	16.1(61)	10.01	34.17	6.76	23.06	9.63	32.86	6.62	22.57	9.32	31.81	6.49	31.81	8.39	28.63	5.87	20.04
	25(77)	18.3(65)	10.51	35.85	6.83	23.30	10.10	34.47	6.61	22.54	9.77	33.34	6.45	33.34	8.79	30.00	5.89	20.10
	27(81)	19(66)	10.72	36.58	6.73	22.97	10.31	35.17	6.56	22.37	9.97	34.02	6.46	34.02	8.97	30.62	5.92	20.21
	30(86)	22.2(72)	11.38	38.81	6.70	22.86	10.94	37.32	6.45	22.02	10.57	36.06	6.34	36.06	9.51	32.45	5.80	19.80
	32.2(90)	23.9(75)	11.89	40.58	6.54	22.32	11.44	39.02	6.40	21.85	11.00	37.52	6.27	37.52	9.90	33.77	5.74	19.59

# U-MATCH FIXED SPEED COOLING ONLY UNIT

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
			TC		SHC		TC		SHC		TC		SHC		TC		SHC	
	DB °C ( °F )	WB °C ( °F )	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
H	22.2(72)	16.1(61)	8.38	28.58	5.65	19.29	8.06	27.48	5.53	18.88	7.80	26.61	5.43	26.61	7.02	23.95	4.91	16.76
	25(77)	18.3(65)	8.79	29.99	5.71	19.49	8.45	28.84	5.53	18.86	8.17	27.89	5.39	27.89	7.36	25.10	4.93	16.82
	27(81)	19(66)	8.97	30.60	5.63	19.22	8.62	29.42	5.48	18.71	8.34	28.46	5.40	28.46	7.51	25.61	4.95	16.90
	30(86)	22.2(72)	9.52	32.47	5.60	19.12	9.15	31.22	5.40	18.42	8.84	30.16	5.30	30.16	7.96	27.15	4.85	16.56
	32.2(90)	23.9(75)	9.95	33.95	5.47	18.67	9.57	32.64	5.36	18.28	9.20	31.39	5.24	31.39	8.28	28.25	4.80	16.38
M	22.2(72)	16.1(61)	7.52	25.67	5.08	17.33	7.23	24.68	4.97	16.96	7.00	23.89	4.87	23.89	6.30	21.51	4.41	15.05
	25(77)	18.3(65)	7.89	26.93	5.13	17.51	7.59	25.90	4.96	16.94	7.34	25.04	4.84	25.04	6.61	22.54	4.43	15.10
	27(81)	19(66)	8.05	27.48	5.06	17.26	7.74	26.42	4.93	16.81	7.49	25.56	4.85	25.56	6.74	23.00	4.45	15.18
	30(86)	22.2(72)	8.55	29.16	5.03	17.17	8.22	28.04	4.85	16.54	7.94	27.09	4.76	27.09	7.15	24.38	4.36	14.87
	32.2(90)	23.9(75)	8.94	30.49	4.91	16.77	8.59	29.32	4.81	16.42	8.26	28.19	4.71	28.19	7.44	25.37	4.31	14.71
L	22.2(72)	16.1(61)	7.05	24.06	4.76	16.24	6.78	23.13	4.66	15.89	6.56	22.40	4.57	22.40	5.91	20.16	4.14	14.11
	25(77)	18.3(65)	7.40	25.24	4.81	16.41	7.11	24.27	4.65	15.87	6.88	23.47	4.54	23.47	6.19	21.13	4.15	14.15
	27(81)	19(66)	7.55	25.76	4.74	16.18	7.26	24.77	4.62	15.75	7.02	23.95	4.55	23.95	6.32	21.56	4.17	14.23
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	8.37	28.58	4.61	15.72	8.05	27.48	4.51	15.39	7.74	26.42	4.41	26.42	6.97	23.78	4.04	13.79

**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	60Hz,220V	5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

**GUL48PHS/B-D ,GUL48PH/B-D(GUL48H/B-D)**

**Cooling**

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
			TC		SHC		TC		SHC		TC		SHC		TC		SHC	
	DB °C ( °F )	WB °C ( °F )	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
Turbo	22.2(72)	16.1(61)	14.13	48.22	9.54	32.55	13.59	46.37	9.34	31.85	13.16	44.89	9.16	44.89	11.84	40.40	8.29	28.28
	25(77)	18.3(65)	14.83	50.59	9.64	32.88	14.26	48.65	9.32	31.81	13.79	47.05	9.10	47.05	12.41	42.34	8.31	28.37
	27(81)	19(66)	15.13	51.62	9.50	32.42	14.55	49.64	9.25	31.57	14.07	48.01	9.12	48.01	12.66	43.21	8.36	28.52
	30(86)	22.2(72)	16.05	54.78	9.46	32.26	15.44	52.67	9.11	31.07	14.91	50.89	8.95	50.89	13.42	45.80	8.19	27.94
	32.2(90)	23.9(75)	16.79	57.27	9.23	31.50	16.14	55.07	9.04	30.84	15.52	52.95	8.85	52.95	13.97	47.66	8.10	27.64
H	22.2(72)	16.1(61)	12.52	42.70	8.45	28.83	12.03	41.06	8.27	28.21	11.65	39.75	8.11	39.75	10.49	35.78	7.34	25.04
	25(77)	18.3(65)	13.13	44.80	8.54	29.12	12.63	43.08	8.26	28.17	12.21	41.66	8.06	41.66	10.99	37.50	7.36	25.12
	27(81)	19(66)	13.40	45.72	8.41	28.71	12.88	43.96	8.19	27.96	12.46	42.51	8.07	42.51	11.21	38.26	7.40	25.25
	30(86)	22.2(72)	14.22	48.51	8.37	28.57	13.67	46.64	8.07	27.52	13.21	45.06	7.92	45.06	11.89	40.56	7.25	24.74
	32.2(90)	23.9(75)	14.86	50.72	8.18	27.90	14.29	48.77	8.00	27.31	13.74	46.89	7.83	46.89	12.37	42.20	7.17	24.48

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
			TC		SHC		TC		SHC		TC		SHC		TC		SHC	
	DB °C (°F)	WB °C (°F)	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
M	22.2(72)	16.1(61)	11.02	37.60	7.44	25.38	10.60	36.15	7.28	24.84	10.26	35.00	7.14	35.00	9.23	31.50	6.46	22.05
	25(77)	18.3(65)	11.56	39.45	7.51	25.64	11.12	37.93	7.27	24.81	10.75	36.68	7.10	36.68	9.68	33.01	6.48	22.12
	27(81)	19(66)	11.80	40.25	7.41	25.28	11.34	38.70	7.21	24.61	10.97	37.43	7.11	37.43	9.87	33.69	6.52	22.23
	30(86)	22.2(72)	12.52	42.71	7.37	25.15	12.04	41.06	7.10	24.23	11.63	39.68	6.98	39.68	10.47	35.71	6.38	21.78
	32.2(90)	23.9(75)	13.09	44.65	7.20	24.56	12.58	42.94	7.05	24.04	12.10	41.28	6.90	41.28	10.89	37.16	6.32	21.55
L	22.2(72)	16.1(61)	9.65	32.94	6.52	22.23	9.28	31.67	6.38	21.76	8.99	30.66	6.25	30.66	8.09	27.59	5.66	19.31
	25(77)	18.3(65)	10.13	34.56	6.58	22.46	9.74	33.23	6.37	21.73	9.42	32.13	6.22	32.13	8.48	28.92	5.68	19.38
	27(81)	19(66)	10.33	35.26	6.49	22.14	9.94	33.90	6.32	21.56	9.61	32.79	6.23	32.79	8.65	29.51	5.71	19.48
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	11.46	39.12	6.31	21.51	11.02	37.61	6.17	21.06	10.60	36.17	6.04	36.17	9.54	32.55	5.53	18.88

**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	60Hz,220V	7.5m
Outdoor	60Hz,220V	

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

3. The green table shows nominal MAX capacities.

GUL60PHS/B-D ,GUL60PH/B-D(GUL60H/B-D)

**Cooling**

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
			TC		SHC		TC		SHC		TC		SHC		TC		SHC	
	DB °C (°F)	WB °C (°F)	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
Turbo	22.2(72)	16.1(61)	15.90	54.25	10.73	36.62	15.29	52.17	10.50	35.84	14.80	50.50	10.30	50.50	13.32	45.45	9.32	31.82
	25(77)	18.3(65)	16.68	56.92	10.84	37.00	16.04	54.73	10.49	35.79	15.51	52.93	10.24	52.93	13.96	47.64	9.35	31.92
	27(81)	19(66)	17.02	58.08	10.69	36.48	16.37	55.85	10.41	35.52	15.83	54.01	10.26	54.01	14.25	48.61	9.40	32.08
	30(86)	22.2(72)	18.06	61.63	10.64	36.30	17.37	59.26	10.25	34.96	16.78	57.25	10.07	57.25	15.10	51.53	9.21	31.43
	32.2(90)	23.9(75)	18.89	64.44	10.39	35.44	18.16	61.96	10.17	34.70	17.46	59.58	9.95	59.58	15.71	53.62	9.11	31.10
H	22.2(72)	16.1(61)	12.99	44.32	8.77	29.91	12.49	42.61	8.58	29.27	12.09	41.25	8.41	41.25	10.88	37.12	7.62	25.99
	25(77)	18.3(65)	13.63	46.49	8.86	30.22	13.10	44.70	8.57	29.24	12.67	43.23	8.36	43.23	11.40	38.91	7.64	26.07
	27(81)	19(66)	13.90	47.44	8.73	29.79	13.37	45.62	8.50	29.01	12.93	44.12	8.38	44.12	11.64	39.71	7.68	26.21
	30(86)	22.2(72)	14.75	50.34	8.69	29.65	14.19	48.40	8.37	28.56	13.71	46.76	8.22	46.76	12.34	42.09	7.52	25.67
	32.2(90)	23.9(75)	15.43	52.63	8.48	28.95	14.83	50.61	8.31	28.34	14.26	48.66	8.13	48.66	12.84	43.80	7.44	25.40
M	22.2(72)	16.1(61)	11.43	39.00	7.72	26.33	10.99	37.50	7.55	25.76	10.64	36.30	7.41	36.30	9.58	32.67	6.70	22.87
	25(77)	18.3(65)	11.99	40.92	7.80	26.60	11.53	39.35	7.54	25.73	11.15	38.05	7.36	38.05	10.04	34.25	6.72	22.95
	27(81)	19(66)	12.24	41.75	7.69	26.22	11.77	40.15	7.48	25.53	11.38	38.83	7.37	38.83	10.24	34.95	6.76	23.06
	30(86)	22.2(72)	12.98	44.30	7.65	26.09	12.48	42.60	7.37	25.13	12.06	41.16	7.24	41.16	10.86	37.04	6.62	22.60
	32.2(90)	23.9(75)	13.58	46.32	7.47	25.48	13.05	44.54	7.31	24.94	12.55	42.83	7.15	42.83	11.30	38.55	6.55	22.36
L	22.2(72)	16.1(61)	10.02	34.20	6.77	23.09	9.64	32.89	6.62	22.59	9.33	31.84	6.49	31.84	8.40	28.65	5.88	20.06
	25(77)	18.3(65)	10.52	35.89	6.84	23.33	10.11	34.51	6.61	22.57	9.78	33.37	6.46	33.37	8.80	30.03	5.90	20.12
	27(81)	19(66)	10.73	36.62	6.74	23.00	10.32	35.21	6.56	22.39	9.98	34.05	6.47	34.05	8.98	30.65	5.93	20.23
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	11.91	40.62	6.55	22.34	11.45	39.06	6.41	21.87	11.01	37.56	6.27	37.56	9.91	33.80	5.75	19.61



# U-MATCH FIXED SPEED COOLING ONLY UNIT

**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	60Hz,220V	7.5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

## 6.1.3 Floor Ceiling Type

GUL24ZD/B-D(GUL24H/B-D)

Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
			TC		SHC		TC		SHC		TC		SHC		TC		SHC	
DB °C ( °F )	WB °C ( °F )	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	
Turbo	22.2(72)	16.1(61)	6.48	22.11	4.37	14.92	6.23	21.26	4.28	14.60	6.03	20.58	4.20	20.58	5.43	18.52	3.80	12.96
	25(77)	18.3(65)	6.80	23.19	4.42	15.08	6.54	22.30	4.27	14.58	6.32	21.57	4.17	21.57	5.69	19.41	3.81	13.01
	27(81)	19(66)	6.94	23.67	4.36	14.86	6.67	22.76	4.24	14.47	6.45	22.01	4.18	22.01	5.81	19.81	3.83	13.07
	30(86)	22.2(72)	7.36	25.11	4.33	14.79	7.08	24.14	4.18	14.25	6.84	23.33	4.10	23.33	6.15	21.00	3.75	12.81
	32.2(90)	23.9(75)	7.69	26.25	4.23	14.44	7.40	25.25	4.14	14.14	7.11	24.27	4.06	24.27	6.40	21.85	3.71	12.67
H	22.2(72)	16.1(61)	5.42	18.51	3.66	12.49	5.22	17.80	3.58	12.23	5.05	17.23	3.51	17.23	4.54	15.50	3.18	10.85
	25(77)	18.3(65)	5.69	19.42	3.70	12.62	5.47	18.67	3.58	12.21	5.29	18.06	3.49	18.06	4.76	16.25	3.19	10.89
	27(81)	19(66)	5.81	19.81	3.65	12.44	5.58	19.05	3.55	12.12	5.40	18.42	3.50	18.42	4.86	16.58	3.21	10.94
	30(86)	22.2(72)	6.16	21.02	3.63	12.38	5.92	20.21	3.50	11.93	5.72	19.53	3.43	19.53	5.15	17.58	3.14	10.72
	32.2(90)	23.9(75)	6.44	21.98	3.54	12.09	6.19	21.14	3.47	11.84	5.96	20.32	3.40	20.32	5.36	18.29	3.11	10.61
M	22.2(72)	16.1(61)	4.99	17.03	3.37	11.50	4.80	16.38	3.30	11.25	4.65	15.86	3.23	15.86	4.18	14.27	2.93	9.99
	25(77)	18.3(65)	5.24	17.87	3.40	11.62	5.04	17.18	3.29	11.24	4.87	16.62	3.21	16.62	4.38	14.96	2.94	10.02
	27(81)	19(66)	5.34	18.24	3.36	11.45	5.14	17.53	3.27	11.15	4.97	16.96	3.22	16.96	4.47	15.26	2.95	10.07
	30(86)	22.2(72)	5.67	19.35	3.34	11.40	5.45	18.60	3.22	10.98	5.27	17.98	3.16	17.98	4.74	16.18	2.89	9.87
	32.2(90)	23.9(75)	5.93	20.23	3.26	11.13	5.70	19.45	3.19	10.89	5.48	18.70	3.12	18.70	4.93	16.83	2.86	9.76
L	22.2(72)	16.1(61)	4.44	15.15	3.00	10.23	4.27	14.57	2.93	10.01	4.13	14.10	2.88	14.10	3.72	12.69	2.60	8.88
	25(77)	18.3(65)	4.66	15.89	3.03	10.33	4.48	15.28	2.93	9.99	4.33	14.78	2.86	14.78	3.90	13.30	2.61	8.91
	27(81)	19(66)	4.75	16.22	2.98	10.18	4.57	15.59	2.91	9.92	4.42	15.08	2.86	15.08	3.98	13.57	2.63	8.96
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	5.27	17.99	2.90	9.90	5.07	17.30	2.84	9.69	4.88	16.63	2.78	16.63	4.39	14.97	2.54	8.68

**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	60Hz,220V	5m
Outdoor	60Hz,220V	

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

3. The green table shows nominal MAX capacities.

### GUL36ZD/B-D(GUL36H/B-D)

#### Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)			
			TC		SHC		TC		SHC		TC		SHC		TC		SHC	
DB °C (°F)	WB °C (°F)	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	
Turbo	22.2(72)	16.1(61)	10.16	34.65	6.85	23.39	9.76	33.32	6.71	22.89	9.45	32.25	6.58	32.25	8.51	29.03	5.96	20.32
	25(77)	18.3(65)	10.65	36.35	6.93	23.63	10.24	34.95	6.70	22.86	9.91	33.81	6.54	33.81	8.92	30.42	5.97	20.38
	27(81)	19(66)	10.87	37.09	6.83	23.30	10.45	35.67	6.65	22.68	10.11	34.50	6.55	34.50	9.10	31.05	6.01	20.49
	30(86)	22.2(72)	11.54	39.36	6.79	23.18	11.09	37.84	6.54	22.33	10.72	36.57	6.43	36.57	9.64	32.91	5.88	20.07
	32.2(90)	23.9(75)	12.06	41.15	6.63	22.63	11.60	39.57	6.49	22.16	11.15	38.05	6.36	38.05	10.04	34.24	5.82	19.86
H	22.2(72)	16.1(61)	8.44	28.79	5.70	19.43	8.11	27.68	5.57	19.02	7.85	26.80	5.47	26.80	7.07	24.12	4.95	16.88
	25(77)	18.3(65)	8.85	30.20	5.75	19.63	8.51	29.04	5.57	18.99	8.23	28.09	5.43	28.09	7.41	25.28	4.96	16.94
	27(81)	19(66)	9.03	30.82	5.67	19.36	8.69	29.64	5.52	18.85	8.40	28.66	5.44	28.66	7.56	25.79	4.99	17.02
	30(86)	22.2(72)	9.58	32.70	5.65	19.26	9.22	31.44	5.44	18.55	8.90	30.38	5.34	30.38	8.01	27.34	4.89	16.68
	32.2(90)	23.9(75)	10.02	34.19	5.51	18.81	9.64	32.88	5.40	18.41	9.27	31.61	5.28	31.61	8.34	28.45	4.84	16.50
M	22.2(72)	16.1(61)	7.57	25.84	5.11	17.44	7.28	24.85	5.00	17.07	7.05	24.05	4.91	24.05	6.34	21.65	4.44	15.15
	25(77)	18.3(65)	7.95	27.11	5.16	17.62	7.64	26.07	5.00	17.05	7.39	25.21	4.88	25.21	6.65	22.69	4.46	15.20
	27(81)	19(66)	8.11	27.67	5.09	17.37	7.80	26.60	4.96	16.92	7.54	25.73	4.89	25.73	6.79	23.15	4.48	15.28
	30(86)	22.2(72)	8.60	29.35	5.07	17.29	8.27	28.22	4.88	16.65	7.99	27.27	4.80	27.27	7.19	24.54	4.39	14.97
	32.2(90)	23.9(75)	9.00	30.69	4.95	16.88	8.65	29.51	4.84	16.53	8.32	28.38	4.74	28.38	7.48	25.54	4.34	14.81
L	22.2(72)	16.1(61)	7.10	24.23	4.79	16.36	6.83	23.30	4.69	16.01	6.61	22.55	4.60	22.55	5.95	20.30	4.16	14.21
	25(77)	18.3(65)	7.45	25.42	4.84	16.52	7.16	24.44	4.69	15.99	6.93	23.64	4.57	23.64	6.24	21.28	4.18	14.26
	27(81)	19(66)	7.60	25.94	4.77	16.29	7.31	24.94	4.65	15.86	7.07	24.12	4.58	24.12	6.36	21.71	4.20	14.33
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	8.43	28.78	4.64	15.83	8.11	27.67	4.54	15.50	7.80	26.61	4.44	26.61	7.02	23.95	4.07	13.89

**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	60Hz,220V	5m
Outdoor	60Hz,220V	

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

3. The green table shows nominal MAX capacities.

# J-MATCH FIXED SPEED COOLING ONLY UNIT

## GUL48ZD/B-D(GUL48H/B-D)

### Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)			
	DB °C (°F)	WB °C (°F)	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
Turbo	22.2(72)	16.1(61)	14.13	48.22	9.54	32.55	13.59	46.37	9.34	31.85	13.16	44.89	9.16	44.89	11.84	40.40	8.29	28.28
	25(77)	18.3(65)	14.83	50.59	9.64	32.88	14.26	48.65	9.32	31.81	13.79	47.05	9.10	47.05	12.41	42.34	8.31	28.37
	27(81)	19(66)	15.13	51.62	9.50	32.42	14.55	49.64	9.25	31.57	14.07	48.01	9.12	48.01	12.66	43.21	8.36	28.52
	30(86)	22.2(72)	16.05	54.78	9.46	32.26	15.44	52.67	9.11	31.07	14.91	50.89	8.95	50.89	13.42	45.80	8.19	27.94
	32.2(90)	23.9(75)	16.79	57.27	9.23	31.50	16.14	55.07	9.04	30.84	15.52	52.95	8.85	52.95	13.97	47.66	8.10	27.64
H	22.2(72)	16.1(61)	12.90	44.01	8.71	29.70	12.40	42.31	8.52	29.07	12.01	40.96	8.36	40.96	10.80	36.87	7.56	25.81
	25(77)	18.3(65)	13.53	46.17	8.80	30.01	13.01	44.39	8.51	29.03	12.58	42.93	8.30	42.93	11.32	38.64	7.59	25.89
	27(81)	19(66)	13.81	47.11	8.67	29.59	13.28	45.30	8.44	28.81	12.84	43.81	8.32	43.81	11.56	39.43	7.63	26.02
	30(86)	22.2(72)	14.65	49.99	8.63	29.44	14.09	48.06	8.31	28.36	13.61	46.44	8.17	46.44	12.25	41.79	7.47	25.49
	32.2(90)	23.9(75)	15.32	52.27	8.42	28.75	14.73	50.26	8.25	28.14	14.16	48.32	8.07	48.32	12.75	43.49	7.39	25.22
M	22.2(72)	16.1(61)	11.37	38.80	7.68	26.19	10.93	37.31	7.51	25.63	10.58	36.11	7.37	36.11	9.53	32.50	6.67	22.75
	25(77)	18.3(65)	11.93	40.70	7.75	26.46	11.47	39.14	7.50	25.60	11.09	37.85	7.32	37.85	9.98	34.07	6.69	22.82
	27(81)	19(66)	12.17	41.53	7.64	26.08	11.70	39.94	7.44	25.40	11.32	38.62	7.34	38.62	10.19	34.76	6.72	22.94
	30(86)	22.2(72)	12.92	44.07	7.61	25.96	12.42	42.37	7.33	25.00	12.00	40.94	7.20	40.94	10.80	36.85	6.59	22.48
	32.2(90)	23.9(75)	13.50	46.08	7.43	25.34	12.99	44.31	7.27	24.81	12.49	42.60	7.12	42.60	11.24	38.34	6.52	22.24
L	22.2(72)	16.1(61)	9.95	33.96	6.72	22.93	9.57	32.66	6.58	22.44	9.27	31.62	6.45	31.62	8.34	28.45	5.84	19.92
	25(77)	18.3(65)	10.44	35.63	6.79	23.16	10.04	34.26	6.57	22.41	9.71	33.14	6.41	33.14	8.74	29.82	5.86	19.98
	27(81)	19(66)	10.66	36.36	6.69	22.83	10.25	34.96	6.52	22.24	9.91	33.81	6.42	33.81	8.92	30.43	5.89	20.08
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	11.82	40.34	6.50	22.19	11.37	38.79	6.37	21.72	10.93	37.30	6.23	37.30	9.84	33.57	5.71	19.47

- ◆ 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	60Hz,220V	7.5m
Outdoor	60Hz,220V	

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

3. The green table shows nominal MAX capacities.

## GUL60ZD/B-D(GUL60H/B-D)

### Cooling

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F)				30.2°C (90 °F)				35°C (95 °F)				43.1°C (110 °F)			
	DB °C (°F)	WB °C (°F)	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
Turbo	22.2(72)	16.1(61)	15.90	54.25	10.73	36.62	15.29	52.17	10.50	35.84	14.80	50.50	10.30	50.50	13.32	45.45	9.32	31.82
	25(77)	18.3(65)	16.68	56.92	10.84	37.00	16.04	54.73	10.49	35.79	15.51	52.93	10.24	52.93	13.96	47.64	9.35	31.92
	27(81)	19(66)	17.02	58.08	10.69	36.48	16.37	55.85	10.41	35.52	15.83	54.01	10.26	54.01	14.25	48.61	9.40	32.08
	30(86)	22.2(72)	18.06	61.63	10.64	36.30	17.37	59.26	10.25	34.96	16.78	57.25	10.07	57.25	15.10	51.53	9.21	31.43
	32.2(90)	23.9(75)	18.89	64.44	10.39	35.44	18.16	61.96	10.17	34.70	17.46	59.58	9.95	59.58	15.71	53.62	9.11	31.10

Fan speed	Indoor Air Temperature		Outdoor Air Dry Bulb Temperature(Outdoor air: 85% RH)															
			25°C (77 °F )				30.2°C (90 °F )				35°C (95 °F )				43.1°C (110 °F )			
	DB °C ( °F )	WB °C ( °F )	TC		SHC		TC		SHC		TC		SHC		TC		SHC	
			kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h
H	22.2(72)	16.1(61)	13.54	46.20	9.14	31.19	13.02	44.42	8.94	30.52	12.60	43.00	8.77	43.00	11.34	38.70	7.94	27.09
	25(77)	18.3(65)	14.21	48.47	9.23	31.51	13.66	46.61	8.93	30.48	13.21	45.07	8.72	45.07	11.89	40.57	7.97	27.18
	27(81)	19(66)	14.50	49.46	9.10	31.06	13.94	47.56	8.86	30.25	13.48	45.99	8.74	45.99	12.13	41.39	8.01	27.32
	30(86)	22.2(72)	15.38	52.48	9.06	30.91	14.79	50.46	8.73	29.77	14.29	48.75	8.57	48.75	12.86	43.88	7.84	26.77
	32.2(90)	23.9(75)	16.08	54.87	8.84	30.18	15.46	52.76	8.66	29.55	14.87	50.73	8.48	50.73	13.38	45.66	7.76	26.48
M	22.2(72)	16.1(61)	11.92	40.68	8.05	27.46	11.46	39.12	7.88	26.87	11.10	37.87	7.72	37.87	9.99	34.08	6.99	23.86
	25(77)	18.3(65)	12.51	42.68	8.13	27.74	12.03	41.04	7.87	26.84	11.63	39.69	7.68	39.69	10.47	35.72	7.01	23.93
	27(81)	19(66)	12.76	43.55	8.02	27.35	12.27	41.88	7.81	26.63	11.87	40.50	7.69	40.50	10.68	36.45	7.05	24.06
	30(86)	22.2(72)	13.54	46.21	7.98	27.22	13.02	44.43	7.68	26.22	12.58	42.93	7.55	42.93	11.32	38.64	6.91	23.57
	32.2(90)	23.9(75)	14.16	48.32	7.79	26.57	13.62	46.46	7.63	26.02	13.09	44.67	7.46	44.67	11.78	40.20	6.83	23.32
L	22.2(72)	16.1(61)	10.35	35.30	6.98	23.83	9.95	33.94	6.83	23.32	9.63	32.86	6.70	32.86	8.67	29.57	6.07	20.70
	25(77)	18.3(65)	10.85	37.04	7.06	24.07	10.44	35.61	6.83	23.29	10.09	34.44	6.66	34.44	9.08	31.00	6.09	20.77
	27(81)	19(66)	11.08	37.79	6.96	23.73	10.65	36.34	6.77	23.11	10.30	35.14	6.67	35.14	9.27	31.63	6.12	20.88
	30(86)	22.2(72)	3.23	11.02	1.90	6.49	3.11	10.59	1.83	6.25	3.00	10.24	1.80	10.24	2.70	9.21	1.65	5.62
	32.2(90)	23.9(75)	12.29	41.93	6.76	23.06	11.82	40.31	6.62	22.58	11.36	38.76	6.48	38.76	10.22	34.89	5.93	20.23

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.

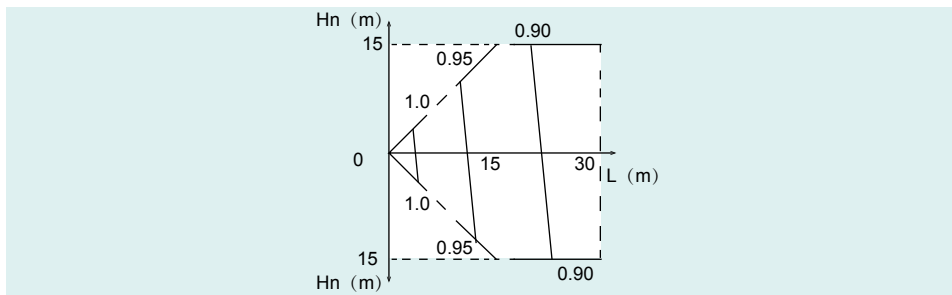
Hz, Volts		Equivalent Piping Length
Indoor	60Hz,220V	7.5m
Outdoor	60Hz,220V	

2. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
3. The green table shows nominal MAX capacities.

## ➔ 6.2 Pipe Length Drop Capacity Correction

GUL24T/B-D, GUL24PS/B-D, GUL24P/B-D, GUL24ZD/B-D

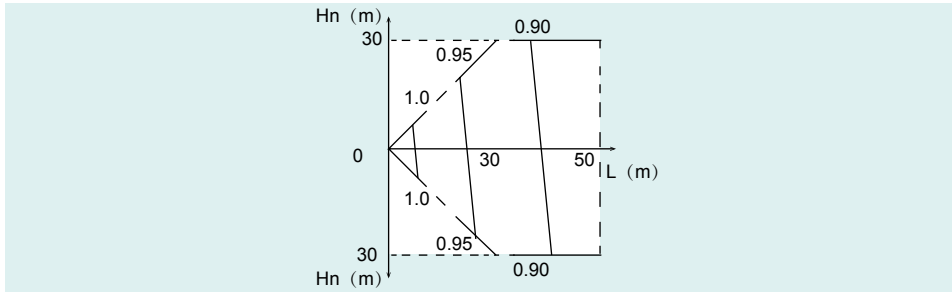
Cooling



# U-MATCH FIXED SPEED COOLING ONLY UNIT

GUL36T/B-D, GUL36PHS/B-D, GUL36PH/B-D, GUL36ZD/B-D

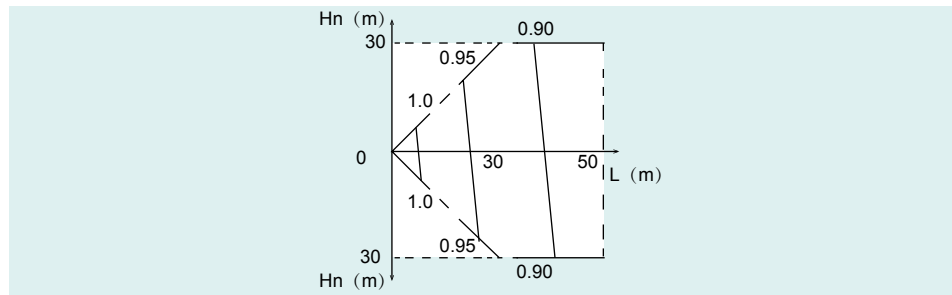
Cooling



GUL48T/B-D, GUL48PHS/B-D, GUL48PH/B-D, GUL48ZD/B-D

GUL60T/B-D, GUL60PHS/B-D, GUL60PH/B-D, GUL60ZD/B-D

Cooling



**NOTE:**

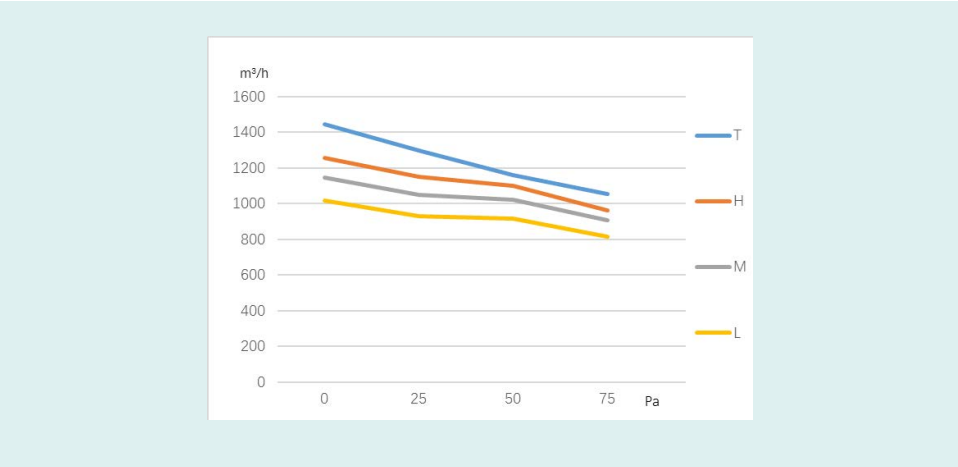
1. Above figures indicate the capacity change rate of a standard indoor unit system under maximum load in standard conditions.
  2. Under partial load, the capacity change rate indicated above will have a very small deviation.
  3. Capacity calculation method for cooling  
Cooling capacity = the corresponding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

- ◆ L: Length of connection pipe
- ◆ Hn: ODU is lower than IDU
- ◆ Hm: ODU is higher than IDU
- ◆ α: Capacity correction factor

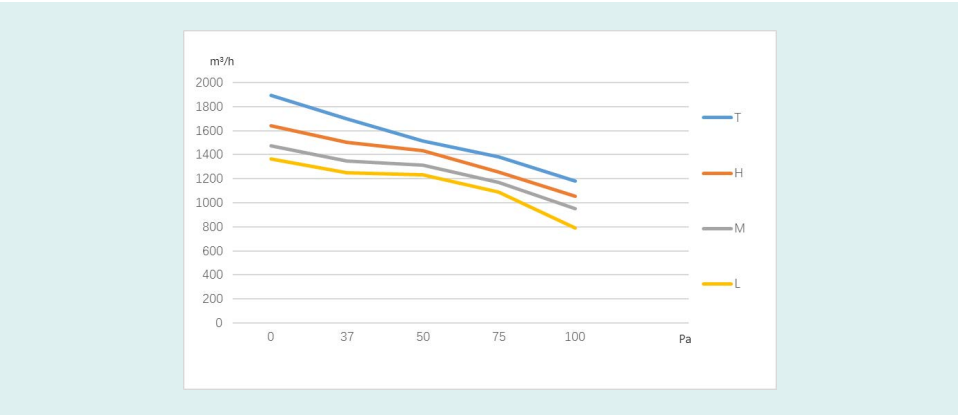
Model	Gas pipe(inch)	Liquid pipe(inch)
GUL24H/B-D	5/8	3/8
GUL36H/B-D	3/4	3/8
GUL48H/B-D		
GUL60H/B-D		

# 7 AIR VOLUME STATIC PRESSURE CURVE

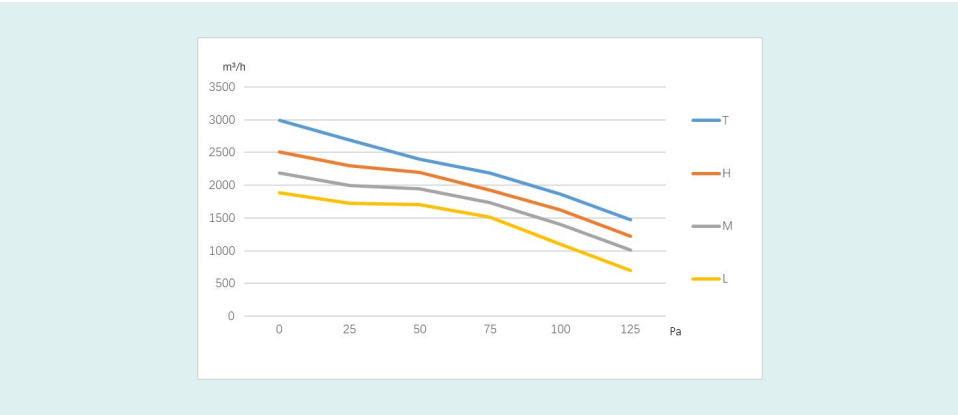
GUL24PS/B-D,GUL24P/B-D



GUL36PHS/B-D,GUL36PH/B-D



GUL48PHS/B-D,GUL48PH/B-D,GUL60PHS/B-D,GUL60PH/B-D



# U-MATCH FIXED SPEED COOLING ONLY UNIT

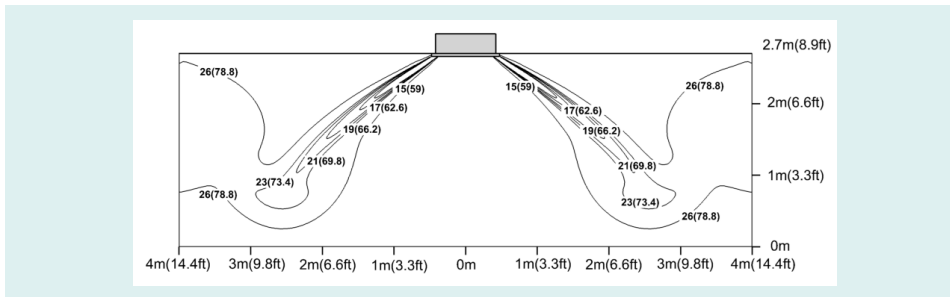
## 8 AIRFLOW CHART

### 8.1 Cassette Type

GUL24T/B-D

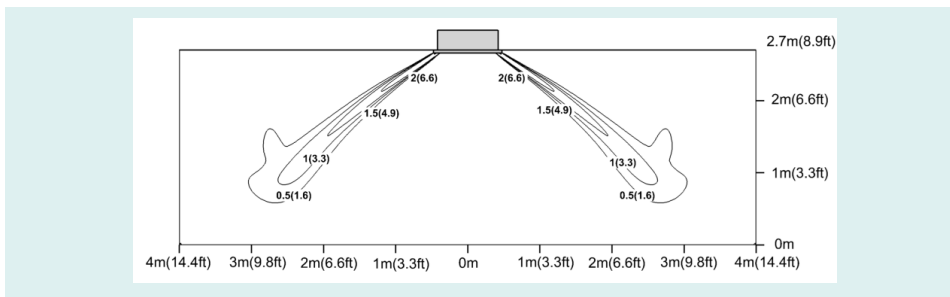
Cooling temperature

Unit: °C ( °F )



Cooling velocity

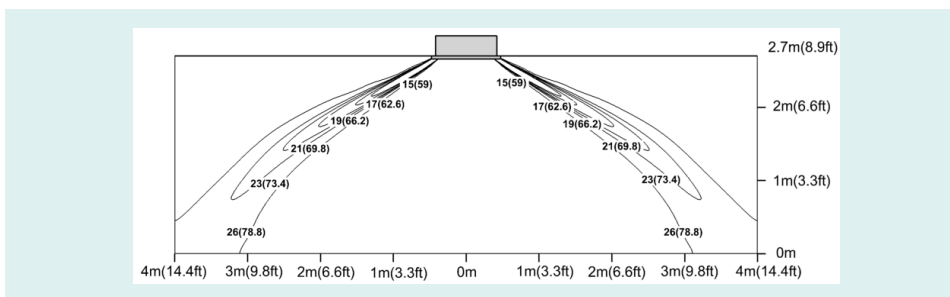
Unit: m/s ( ft/s )



GUL36T/B-D

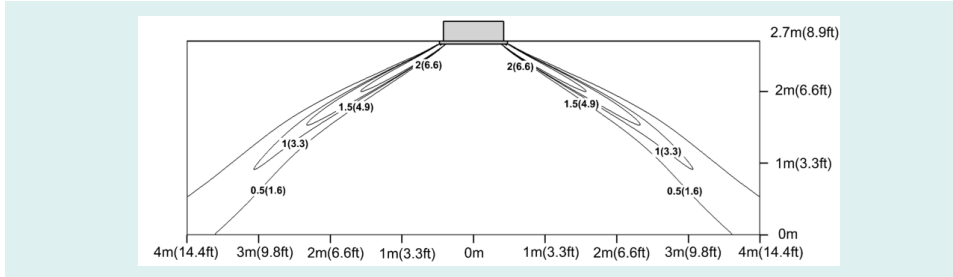
Cooling temperature

Unit: °C ( °F )



Cooling velocity

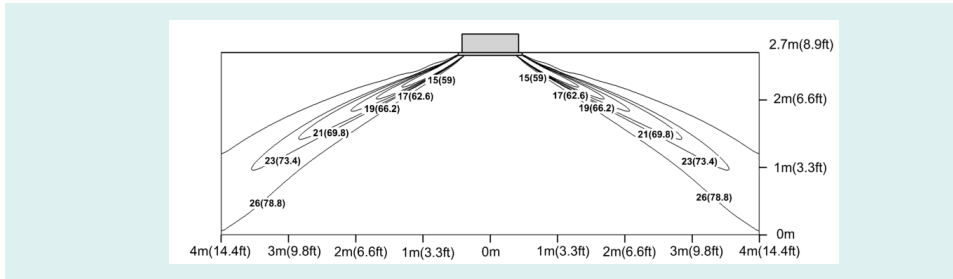
Unit: m/s ( ft/s )



GUL48T/B-D; GUL60T/B-D

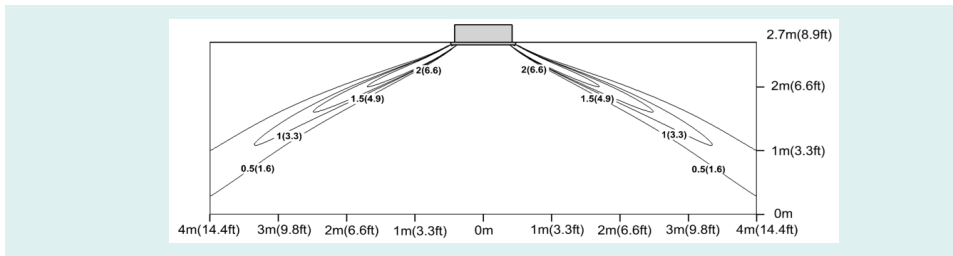
Cooling temperature

Unit : °C ( °F )



Cooling velocity

Unit : m/s ( ft/s )

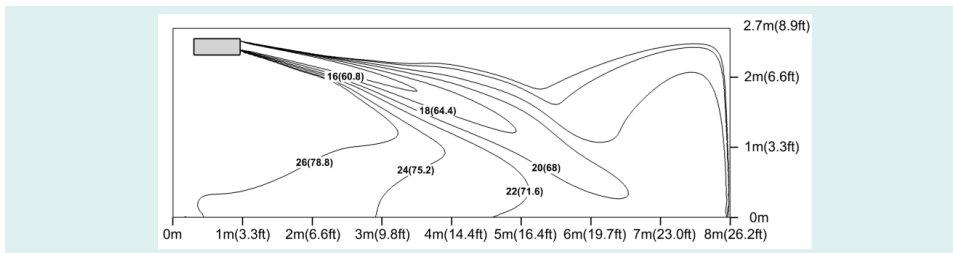


## ➔ 8.2 Floor Ceiling Type

GUL24ZD/B-D

Cooling temperature

Unit: °C ( °F )

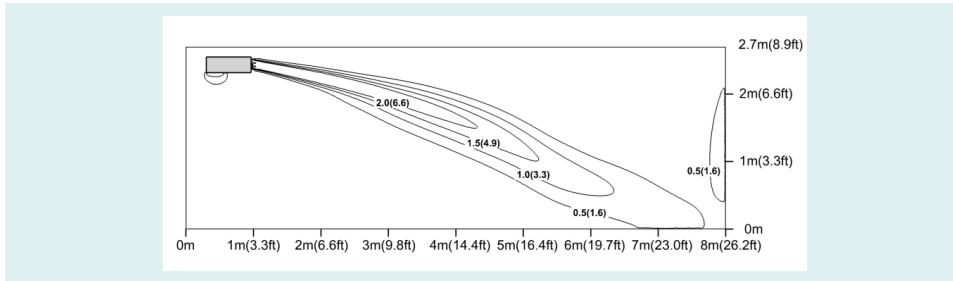




# U-MATCH FIXED SPEED COOLING ONLY UNIT

Cooling velocity

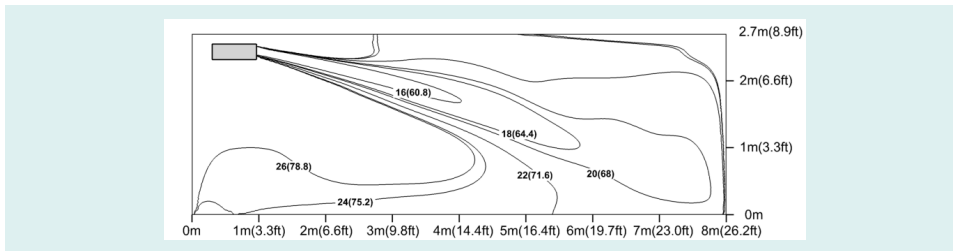
Unit: m/s ( ft/s )



GUL36ZD/B-D

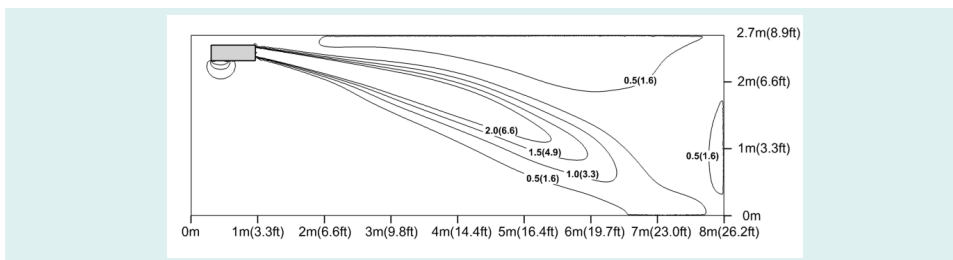
Cooling temperature

Unit: °C ( °F )



Cooling velocity

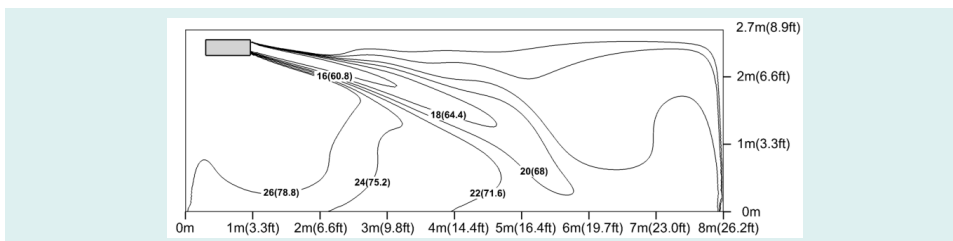
Unit: m/s ( ft/s )



GUL48ZD/B-D, GUL60ZD/B-D

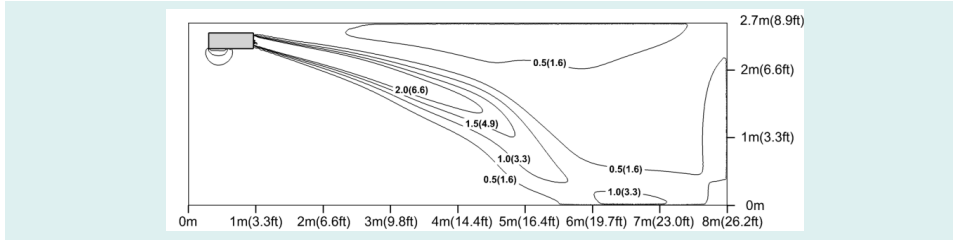
Cooling temperature

Unit: °C ( °F )



Cooling velocity

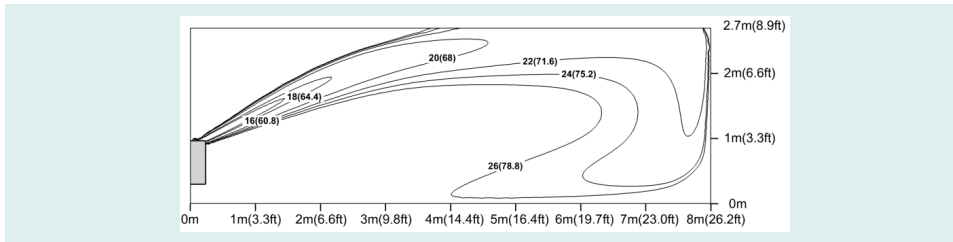
Unit: m/s ( ft/s )



GUL24ZD/B-D

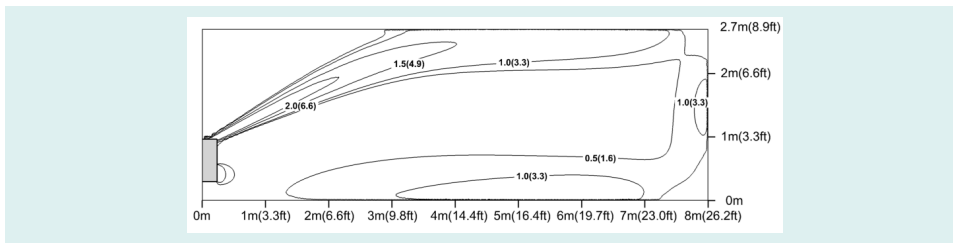
Cooling temperature

Unit: °C ( °F )



Cooling velocity

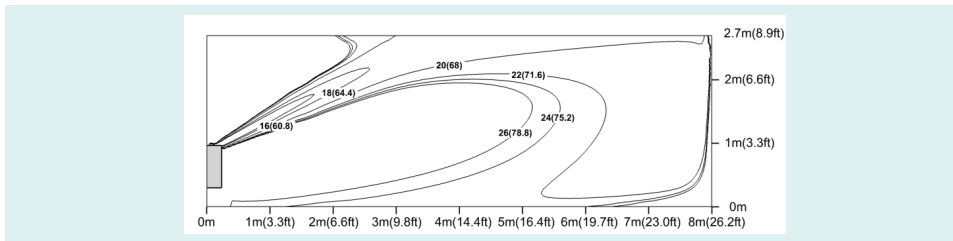
Unit: m/s ( ft/s )



GUL36ZD/B-D

Cooling temperature

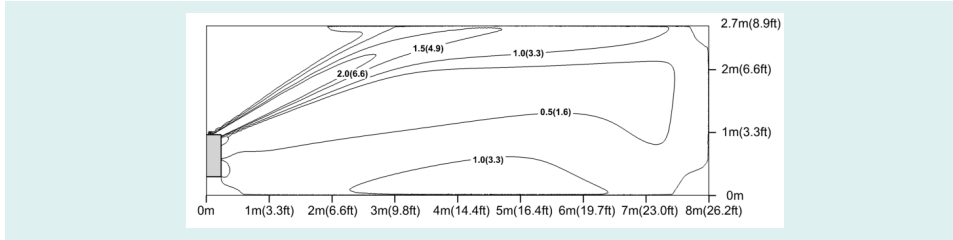
Unit: °C ( °F )



# U-MATCH FIXED SPEED COOLING ONLY UNIT

Cooling velocity

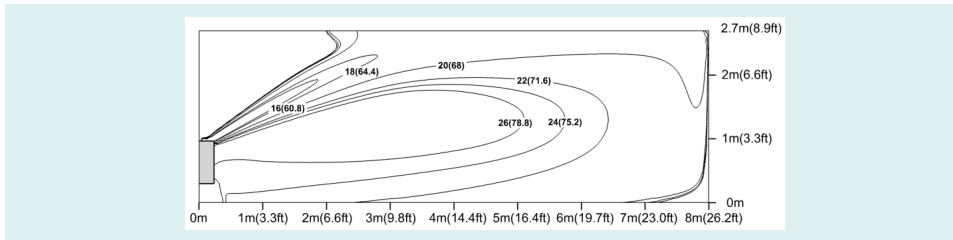
Unit: m/s ( ft/s )



GUL48ZD/B-D, GUL60ZD/B-D

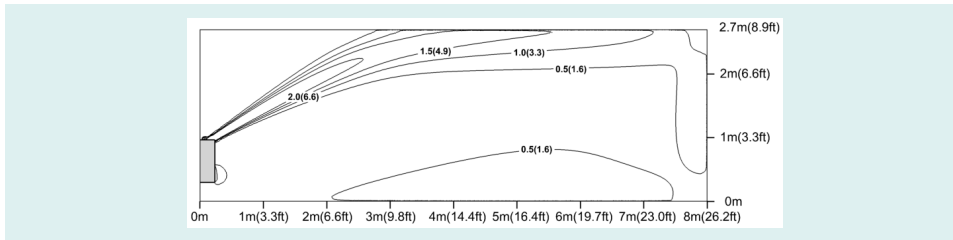
Cooling temperature

Unit : °C ( °F )



Cooling velocity

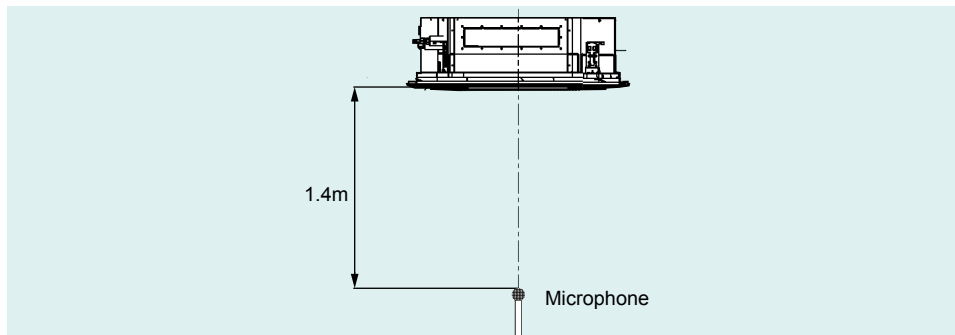
Unit: m/s ( ft/s )



# 9 NOISE CURVE

## 9.1 Noise Test Diagram

### 9.1.1 Floor Ceiling Type



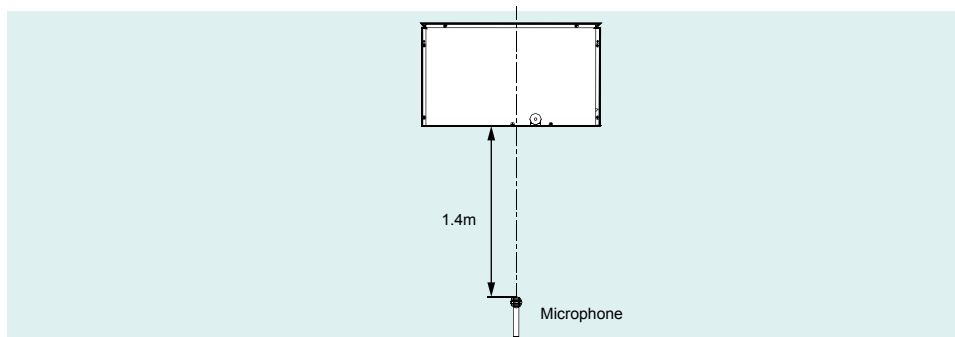
Unit: dB(A)

Model	220-230V ~ 60Hz			
	Turbo	H	M	L
GUL24T/B-D	48	45	43	39
GUL36T/B-D	54	50	47	45
GUL48T/B-D	54	53	52	50
GUL60T/B-D	54	50	50	48

**NOTES:**

1. Above data was measured under standard conditions. Power specification: 220-230V ~ 60Hz
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



# U-MATCH FIXED SPEED COOLING ONLY UNIT

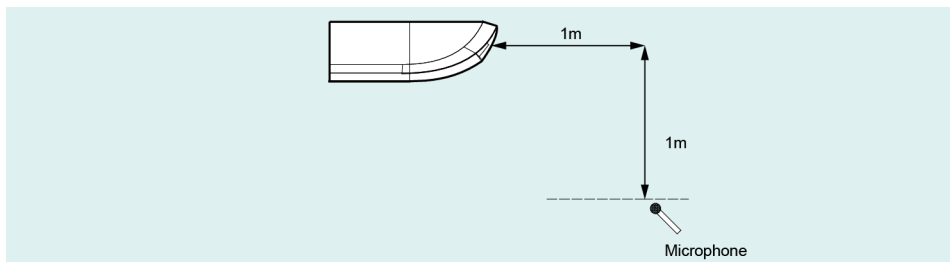
Unit: dB(A)

Model	220-230V ~ 60Hz			
	Turbo	H	M	L
GUL24P/B-D GUL24PS/B-D	42	40	38	36
GUL36PH/B-D GUL36PHS/B-D	44	42	41	39
GUL48PH/B-D GUL48PHS/B-D	48	47	46	45
GUL60PH/B-D GUL60PHS/B-D	46	44	42	41

## NOTES:

1. Above data was measured under standard conditions. Power specification: 220-230V ~ 60Hz
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



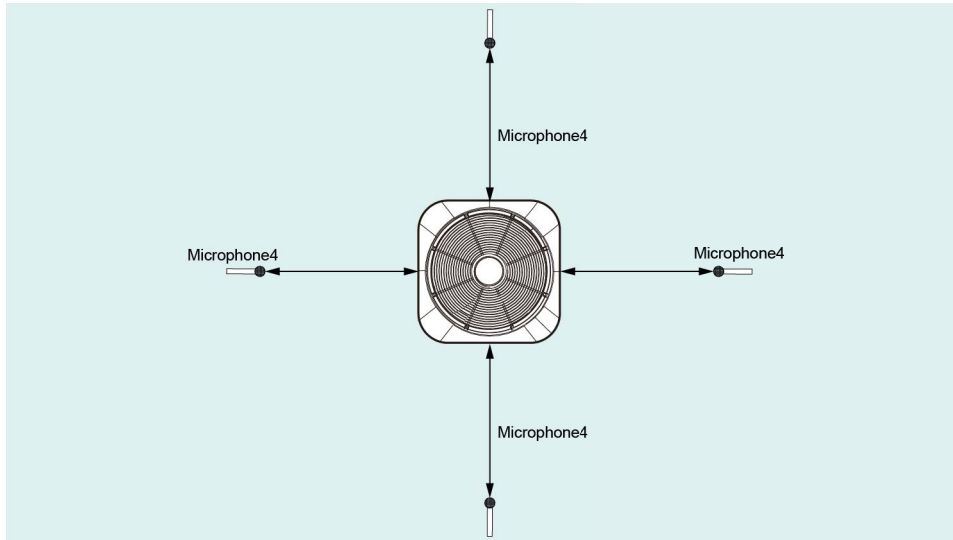
Unit: dB(A)

Model	220-230V ~ 60Hz			
	Turbo	H	M	L
GUL24ZD/B-D	48	46	44	41
GUL36ZD/B-D	54	48	46	43
GUL48ZD/B-D	58	56	54	52
GUL60ZD/B-D	58	56	53	51

## NOTES:

1. Above data was measured under standard conditions. Power specification: 220-230V ~ 60Hz
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	Power supply
	dB(A)	(V/Ph/Hz)
GUL24H/B-D	58	220-230V ~ 60Hz
GUL36H/B-D	59	
GUL48H/B-D	65	
GUL60H/B-D	65	

**NOTES:**

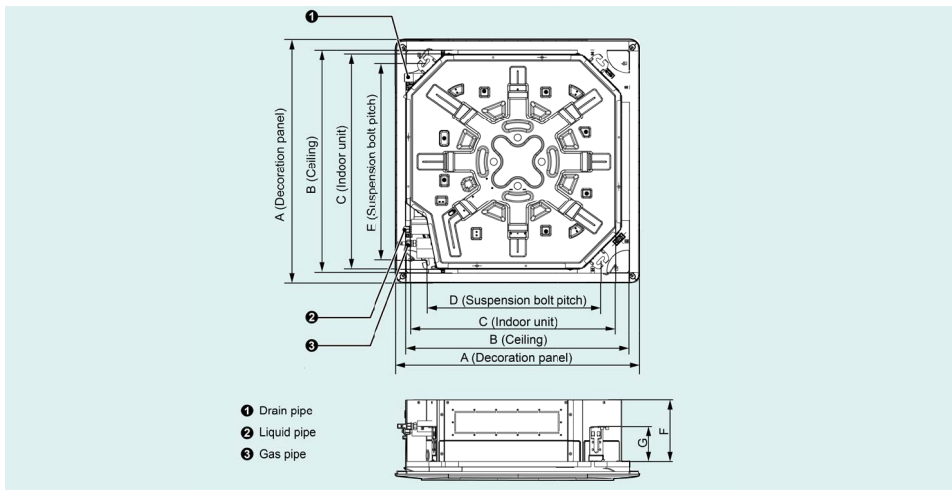
1. Above data was measured under standard conditions. Power specification: 220-230V ~ 60Hz
  2. Above data was the average of three points data.
  3. Above data was measured in a semi-anechoic room.
  4. Decibels will be varied with the change of external factors, for instance, the room structure. Please refer to the actual measurement.
  5. h: the height of the Microphone
- ◆ H: the height of the units
  - ◆  $h=(H+1)/2$

# U-MATCH FIXED SPEED COOLING ONLY UNIT

## 10 DIMENSIONS AND INSTALLATION SITE

### 10.1 Cassette Type

#### 10.1.1 Dimensions

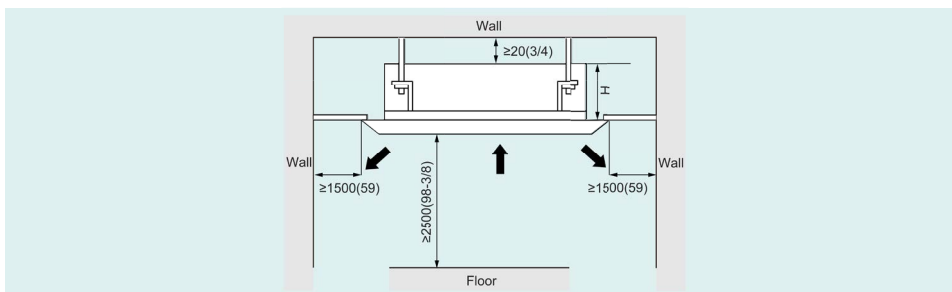


Unit: mm(inch)

Model	Item	A	B	C	D	E	F	G
GUL24T/B-D		950 (37.4)	870 (34.3)	840 (33.1)	680 (26.8)	780 (30.7)	240 (9.4)	135 (5.3)
GUL36T/B-D		950 (37.4)	870 (34.3)	840 (33.1)	680 (26.8)	780 (30.7)	290 (11.4)	135 (5.3)
GUL48T/B-D								
GUL60T/B-D								

#### 10.1.2 Installation Location

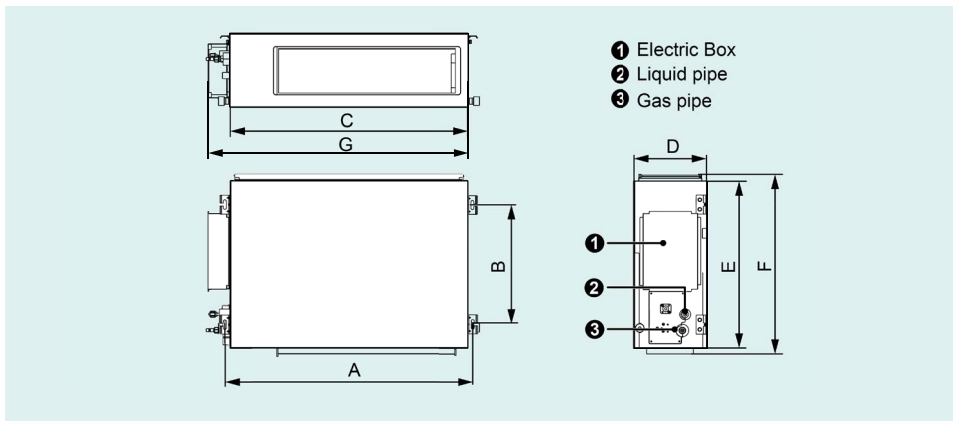
Unit: mm(inch)



Models	H(mm)
GUL24T/B-D	270
GUL36T/B-D GUL48T/B-D GUL60T/B-D	320

## ➔ 10.2 Duct Type

### 10.2.1 Dimensions



Unit: mm(inch)

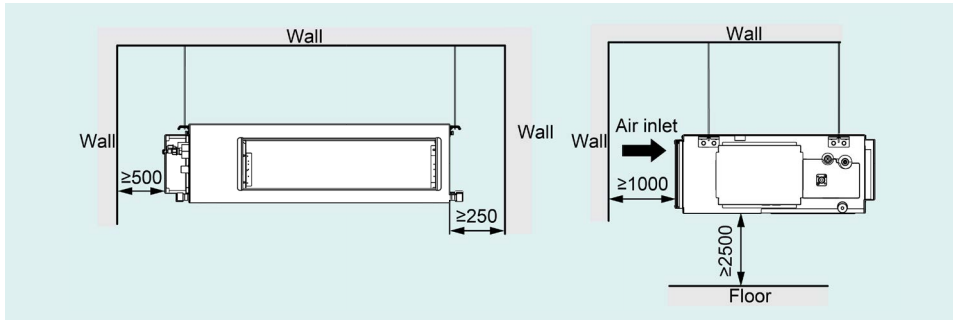
Dimensions	A	B	C	D	E	F	G
Model							
GUL24PS/B-D GUL24P/B-D	1360 (53.5)	415 (16.3)	1300 (51.2)	220 (8.7)	450 (17.7)	474 (18.7)	1384 (54.5)
GUL36PHS/B-D GUL36PH/B-D	1040 (40.9)	500 (19.7)	1000 (39.4)	300 (11.8)	700 (27.6)	754 (29.7)	1092 (43.0)
GUL48PHS/B-D GUL48PH/B-D GUL60PHS/B-D GUL60PH/B-D	1440 (56.7)	500 (19.7)	1400 (55.1)	300 (11.8)	700 (27.6)	754 (29.7)	1492 (58.7)



# U-MATCH FIXED SPEED COOLING ONLY UNIT

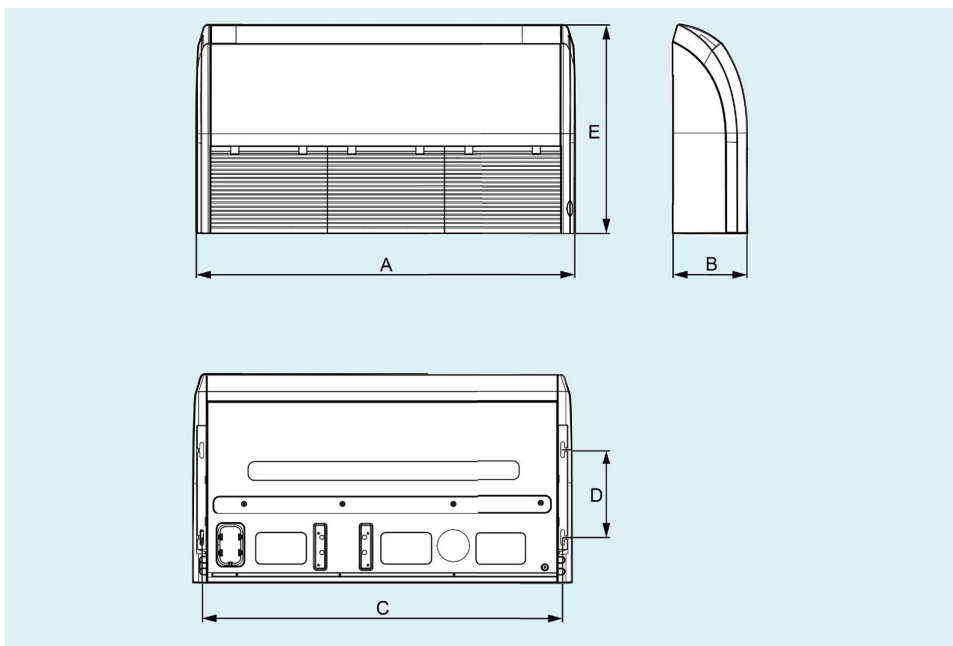
## 10.2.2 Installation Location

Unit: mm



## ➔ 10.1 Floor Ceiling Type

### 10.3.1 Dimensions

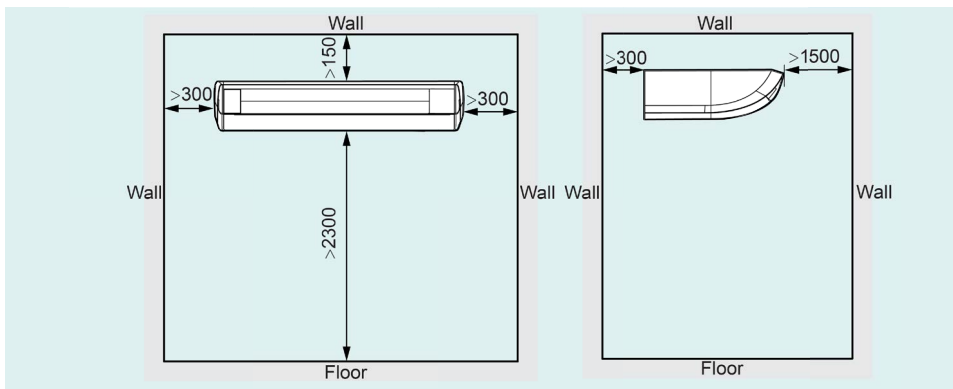


Unit: mm(inch)

Model	A	B	C	D	E
GUL24ZD/B-D	1200 (47.2)	235 (9.3)	1142 (45.0)	280 (11.0)	665 (26.2)
GUL36ZD/B-D	1200 (47.2)	235 (9.3)	1142 (45.0)	280 (11.0)	665 (26.2)
GUL48ZD/B-D	1570 (61.8)	235 (9.3)	1512 (59.5)	280 (11.0)	665 (26.2)
GUL60ZD/B-D	1570 (61.8)	235 (9.3)	1512 (59.5)	280 (11.0)	665 (26.2)

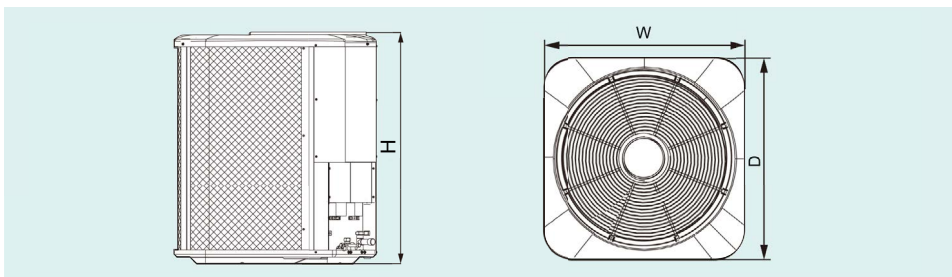
### 10.3.2 Installation Location

Unit: mm



## ➔ 10.4 Outdoor Unit

### 10.4.1 Dimensions



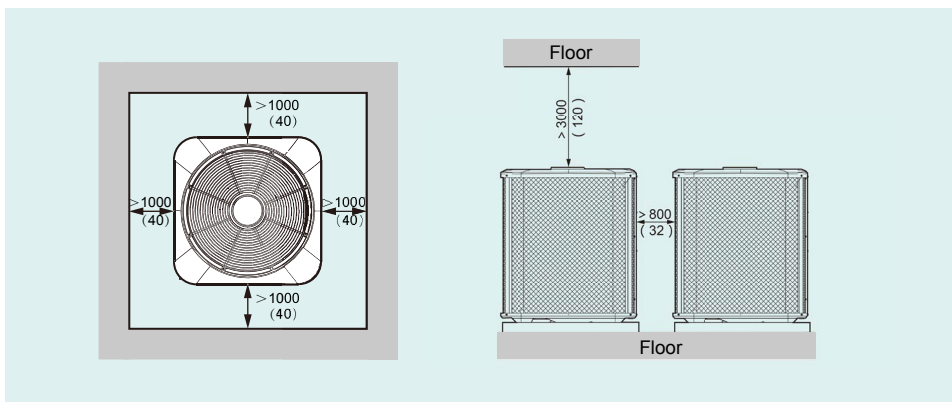
# U-MATCH FIXED SPEED COOLING ONLY UNIT

Unit: mm(inch)

Model	Dimension		
	W	D	H
GUL24H/B-D	21.5(546)	21.5(546)	24.8(630)
GUL36H/B-D	24(610)	24(610)	28.1(715)
GUL48H/B-D	28(710)	28(710)	31.9(810)
GUL60H/B-D	28(710)	28(710)	31.9(810)

## 10.4.2 Installation

Unit: mm(inch)

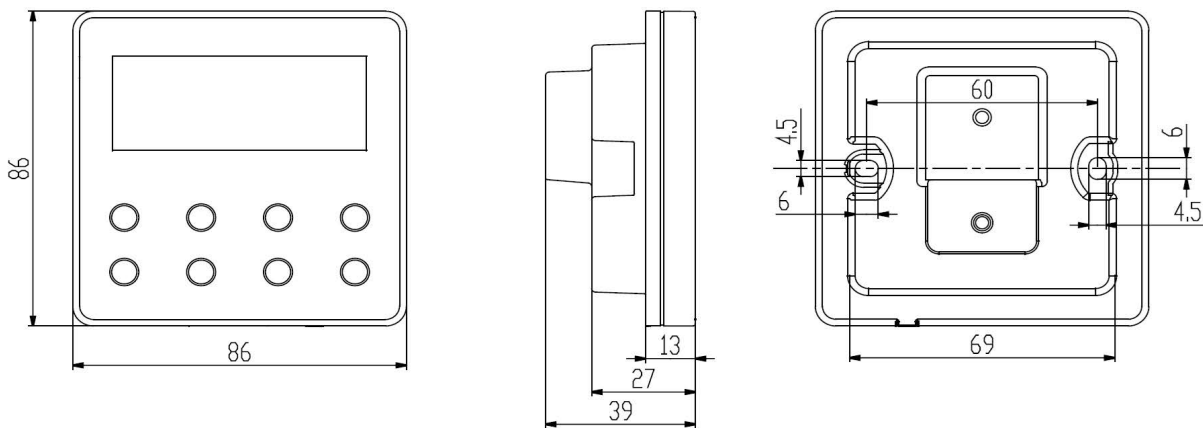


## 10.5 Controller



### 10.5.1 Dimensional Drawing of XK117

Unit: mm



## 11 ELECTRICAL INSTALLATION



### 11.1 Electrical Parameters

Model	Power supply	Capability of breaker(A)	Minimum power supply cord(mm <sup>2</sup> )	Minimum sectional area of earth wire (mm <sup>2</sup> )
GUL24H/B-D	220-230V ~ 60Hz	20	2.5	2.5
GUL36H/B-D	220-230V ~ 60Hz	32	4.0	4.0
GUL48H/B-D	220-230V ~ 60Hz	40	6.0	6.0
GUL60H/B-D	220-230V ~ 60Hz	40	6.0	6.0

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	220-230V ~ 60Hz	5	6	1.0

**Notes:**

- ◆ Fuse is located on the main board.
- ◆ 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.
- ◆ Circuit breaker and power cord specifications listed in the above table are determined based on the maximum power input of the units.
- ◆ Specifications of power cords listed in the above table are applicable in a working condition where ambient temperature is 40°C and multi-core copper cable (e.g. YJV copper cable, with insulated PE and PVC sheath) is protected by a conduit, and is resistant to 90 °C in maximum (See IEC 60364-5-52). If working condition changes, please adjust the specifications according to national standards.
- ◆ 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.
- ◆ 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.

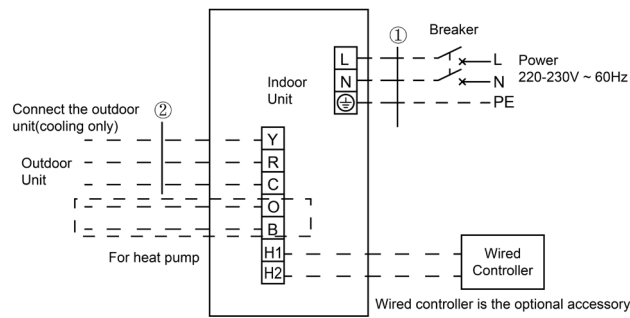
# U-MATCH FIXED SPEED COOLING ONLY UNIT

- ◆ 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.
- ◆ 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

GUL24T/B-D, GUL36T/B-D, GUL48T/B-D, GUL60T/B-D

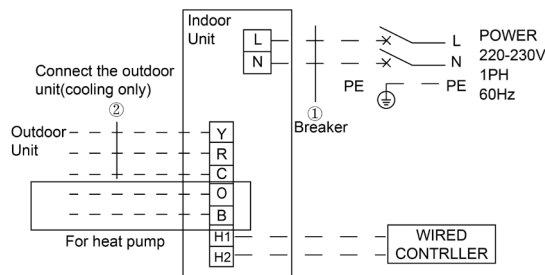


① Power cord 3×1.0mm<sup>2</sup>

② 24V control cord 3×0.75mm<sup>2</sup>

### 11.2.2 Duct Type

GUL24PS/B-D, GUL24P/B-D, GUL36PHS/B-D, GUL48PHS/B-D,  
GUL60PHS/B-D, GUL36PH/B-D, GUL48PH/B-D, GUL60PH/B-D

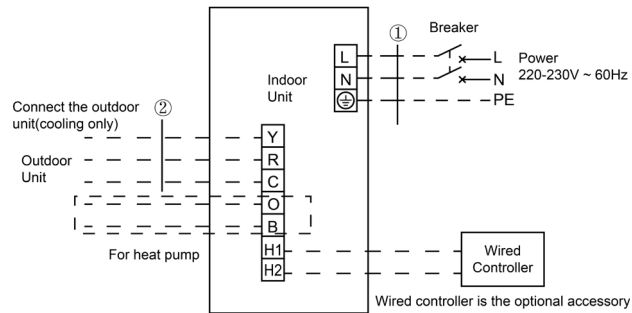


① Power cord 3×1.0 mm<sup>2</sup>

② 24 V control cord 3×0.75 mm<sup>2</sup>

### 11.2.3 Floor Ceiling Type

GUL24ZD/B-D, GUL36ZD/B-D, GUL48ZD/B-D, GUL60ZD/B-D

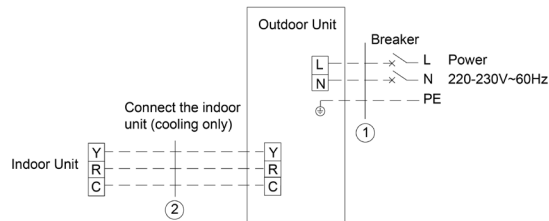


① Power cord  $3 \times 1.0\text{mm}^2$

② 24V control cord  $3 \times 0.75\text{mm}^2$

### 11.2.4 Outdoor Unit

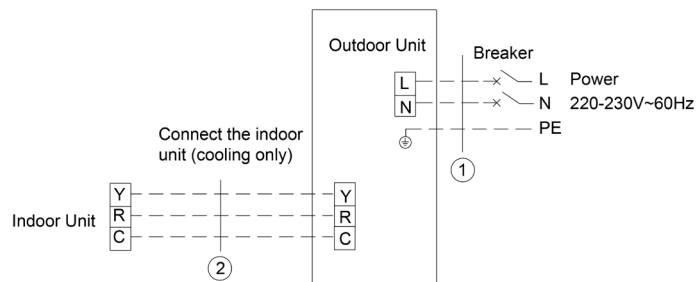
Single-phase unit: GUL24H/B-D



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

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

Single-phase unit: GUL36H/B-D

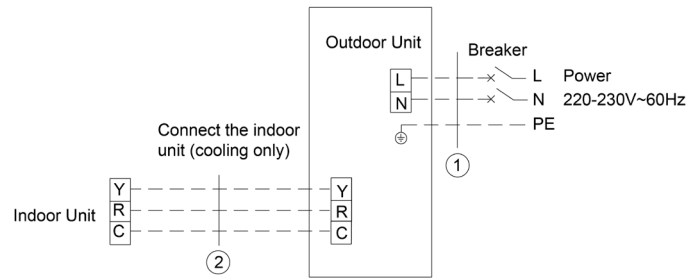


① Power cord  $3 \times 4.0\text{mm}^2$

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

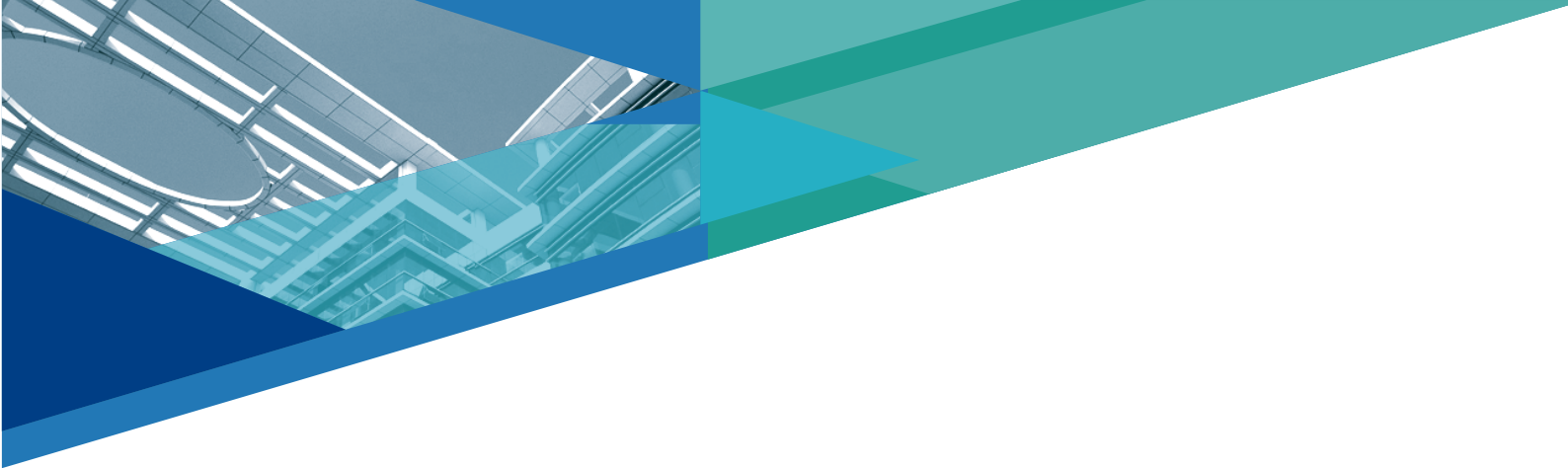
# U-MATCH FIXED SPEED COOLING ONLY UNIT

Single-phase unit: GUL48H/B-D & GUL60H/B-D



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

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



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