

## Standard Inverter

# CT09 / CT12 / CT18 / CT24 / UT30



Ceiling Cassette



\* CT09 / CT12 / CT18 / CT24 are compatible with SCAC and MULTI.

Indoor				CT09 NR2	CT12 NR2	CT18 NQ2	CT24 NP2	UT30 NP2
Capacity	Cooling	Min/Nom/Max	kW	1.0 / 2.5 / 2.8	1.4 / 3.4 / 3.7	2.0 / 4.7 / 5.5	2.8 / 7.1 / 7.8	3.2 / 8.0 / 8.8
	Heating	Min/Nom/Max	kW	1.2 / 3.0 / 3.3	1.6 / 4.0 / 4.4	2.2 / 5.5 / 6.1	3.2 / 8.0 / 8.8	3.6 / 9.0 / 9.9
Low Temperature Capacity	Heating -7°C	Max	kW	2.7	3.6	4.9	7.2	8.1
	Cooling	Nom	kW	0.75	1.06	1.46	1.92	2.49
Power Input (Set)	Heating	Nom	kW	0.81	1.10	1.52	2.21	2.72
		Min/Nom/Max	W	10 / 20 / 20	10 / 20 / 20	10 / 30 / 40	20 / 50 / 60	30 / 70 / 80
Running Current	Cooling/Heating	Nom	A	3.3 / 3.5	4.61 / 4.78	6.3 / 6.6	8.3 / 9.6	10.8 / 11.8
Power Supply			φV/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.33	3.21	3.22	3.70	3.21
COP				3.70	3.64	3.62	3.62	3.31
SEER				5.11	5.61	4.81	6.11	6.11
SCOP				3.81	3.91	3.81	3.81	3.81
Pdesign (@-10°C)			kW	2.8	3.0	4.0	6.5	6.8
Seasonal Energy Label	Cooling/Heating			A / A	A+ / A	B / A	A++ / A	A++ / A
Annual Energy Consumption	Cooling/Heating		kWh	172 / 1,032	213 / 1,077	343 / 1,474	407 / 2,395	459 / 2,505
Piping Connection	Liquid		mm(inch)	φ 6.35 (1/4)	φ 6.35 (1/4)	φ 6.35 (1/4)	φ 9.52 (3/8)	φ 9.52 (3/8)
	Gas		mm(inch)	φ 9.52 (3/8)	φ 9.52 (3/8)	φ 12.7 (1/2)	φ 15.88 (5/8)	φ 15.88 (5/8)
	Drain	O.D./I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High/Medium/Low	m³/min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13.0 / 12.0 / 11.0	17.0 / 15.0 / 13.0	19.0 / 17.0 / 15.0
Sound Pressure	Cooling	High/Medium/Low	dBA	36 / 33 / 30	38 / 35 / 32	41 / 39 / 36	38 / 36 / 34	40 / 37 / 35
Sound Power	Cooling	Max	dBA	48	51	55	57	57
Dehumidification Rate			l/h	1.4	1.7	2.1	2.4	2.5
Dimensions	Body	WxHxD	mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840	840 x 204 x 840
Net Weight	Body		kg	14.0	14.0	15.5	20.5	20.5
	Model			PT-UQC	PT-UQC	PT-UQC	PT-UMC1	PT-UMC1
Decoration Panel	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	WxHxD	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	950 x 25 x 950	950 x 25 x 950
	Weight		kg	3.0	3.0	3.0	5.0	5.0
Outdoor				UU09W ULD	UU12W ULD	UU18W UE2	UU24W U42	UU30W U42
Compressor	Type			Rotary	Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	32	32	50	58	58
Sound Pressure	Cooling	Nom	dBA	47	47	48	48	48
	Heating	Nom	dBA	48	48	51	52	52
Sound Power	Cooling	Max	dBA	56	57	60	62	65
Dimensions	WxHxD		mm	770 x 540 x 245	770 x 540 x 245	870 x 655 x 320	950 x 834 x 330	950 x 834 x 330
Net Weight			kg	32.0	32.0	46.0	60.0	60.0
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		g	1,000	1,000	1,400	2,000	2,000
	Additional Charge (after 7.5m)		g/m	20	20	20	40	40
Operation Range (Outdoor)	Cooling	Min~Max	°C DB	-10 ~ 43	-10 ~ 43	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	Min~Max	°C WB	-18 ~ 18	-18 ~ 18	-18 ~ 18	-18 ~ 18	-18 ~ 18
Power Supply			φV/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20	30	30
Piping Length Total		Min~Max	m	5 ~ 15	5 ~ 15	5~40	5 ~ 50	5 ~ 50
Piping Elevation Difference	IDU-ODU	Max	m	10	10	30	30	30
Piping Connection	Liquid		mm(inch)	φ 6.35 (1/4)	φ 6.35 (1/4)	φ 6.35 (1/4)	φ 9.52 (3/8)	φ 9.52 (3/8)
	Gas		mm(inch)	φ 9.52 (3/8)	φ 9.52 (3/8)	φ 12.7 (1/2)	φ 15.88 (5/8)	φ 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.

2. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C DB /19°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB  
 - Outdoor Temperature 35°C DB /24°C WB - Outdoor Temperature 7°C DB / 6°C WB

3. Annual energy consumption: based on average use of 500 running hours per year at nominal condition

## Standard Inverter

# UT36 / UT42 / UT48 / UT60



Indoor				UT36 NN2	UT42 NN2	UT48 NN2	UT60 NN2
Capacity	Cooling	Min/Nom/Max	kW	4.0 / 10.0 / 11.0	5.0 / 12.5 / 13.8	5.5 / 13.9 / 15.7	5.9 / 14.6 / 16.3
	Heating	Min/Nom/Max	kW	4.4 / 11.0 / 12.1	5.0 / 14.0 / 15.4	6.4 / 15.4 / 17.6	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.82	3.89	4.62	5.40
	Heating	Nom	kW	3.09	3.88	4.51	5.50
Power Input (Indoor)		Min/Nom/Max	W	40 / 130 / 140	70 / 190 / 210	80 / 190 / 210	80 / 190 / 210
Running Current	Cooling/Heating	Nom	A	12.3 / 13.4	16.9 / 16.9	20.1 / 19.6	23.5 / 23.9
Power Supply			φV/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.55	3.21	3.01	2.70
COP				3.56	3.61	3.41	3.07
SEER				5.41	-	-	-
SCOP				3.81	-	-	-
Pdesign (@-10°C)			kW	7.6	-	-	-
Seasonal Energy Label	Cooling/Heating			A / A	-	-	-
Annual Energy Consumption	Cooling/Heating		kWh	648 / 2,800	-	-	-
Piping Connection	Liquid		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)
	Gas		mm(inch)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)
	Drain	O.D./I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High/Medium/Low	m³/min	24.0 / 22.0 / 19.0	30.0 / 28.0 / 26.0	34.0 / 32.0 / 30.0	34.0 / 32.0 / 30.0
Sound Pressure	Cooling	High/Medium/Low	dBA	43 / 40 / 37	46 / 44 / 43	49 / 47 / 45	49 / 47 / 45
Sound Power	Cooling	Max	dBA	62	65	66	66
Dehumidification Rate			l/h	2.7	3.6	4.4	5.5
Dimensions	Body	WxHxD	mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight	Body		kg	22.3	24.6	24.6	24.6
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	WxHxD	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.0	5.0	5.0	5.0
Outdoor				UU36W UO2	UU42W U32	UU48W U32	UU60W U32
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	90	110	110	110
Sound Pressure	Cooling	Nom	dBA	53	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	71
Dimensions	WxHxD		mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	81.0	92.0	92.0	92.0
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400	3,400
	Additional Charge (after 7.5m)		g/m	40	40	40	40
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	Min-Max	°C WB	-18 ~ 18	-18 ~ 18	-18 ~ 18	-18 ~ 18
Power Supply			φV/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 5.0	3C x 5.0	3C x 5.0	3C x 5.0
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40	40
Piping Length Total		Min-Max	m	5 ~ 50	5 ~ 75	5 ~ 75	5 ~ 75
Piping Elevation Difference	IDU-ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)
	Gas		mm(inch)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)

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2. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C DB /19°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB  
 - Outdoor Temperature 35°C DB /24°C WB - Outdoor Temperature 7°C DB / 6°C WB

3. Annual energy consumption: based on average use of 500 running hours per year at nominal condition



# UT36 / UT42 / UT48 / UT60



Indoor				UT36 NN2	UT42 NM2	UT48 NM2	UT60 NM2
Capacity	Cooling	Min/Nom/Max	kW	4.0 / 10.0 / 11.0	5.0 / 12.5 / 13.8	5.5 / 13.9 / 15.7	5.9 / 14.6 / 16.3
	Heating	Min/Nom/Max	kW	4.4 / 11.0 / 12.1	5.0 / 14.0 / 15.4	6.4 / 15.3 / 17.6	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.82	3.89	4.62	5.40
	Heating	Nom	kW	3.09	3.88	4.49	5.50
Power Input (Indoor)		Min/Nom/Max	W	40 / 130 / 140	70 / 190 / 210	80 / 190 / 210	80 / 190 / 210
Running Current	Cooling/Heating	Nom	A	4.1 / 4.5	5.6 / 5.6	6.7 / 6.5	7.8 / 8.0
Power Supply			ØV/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.55	3.21	3.01	2.70
COP				3.56	3.61	3.41	3.07
SEER				5.41	-	-	-
SCOP				3.81	-	-	-
Pdesign (@-10°C)			kW	7.6	-	-	-
Seasonal Energy Label	Cooling/Heating			A / A	-	-	-
Annual Energy Consumption	Cooling/Heating		kWh	648 / 2,800	-	-	-
Piping Connection	Liquid		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)
	Gas		mm(inch)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)
	Drain	O.D./I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High/Medium/Low	m³/min	24.0 / 22.0 / 19.0	30.0 / 28.0 / 26.0	34.0 / 32.0 / 30.0	34.0 / 32.0 / 30.0
Sound Pressure	Cooling	High/Medium/Low	dBA	43 / 40 / 37	46 / 44 / 43	49 / 47 / 45	49 / 47 / 45
Sound Power	Cooling	Max	dBA	62	65	66	66
Dehumidification Rate			l/h	2.7	3.6	4.4	5.5
Dimensions	Body	WxHxD	mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight	Body		kg	22.3	24.6	24.6	24.6
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	WxHxD	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.0	5.0	5.0	5.0
Outdoor				UU37W UO2	UU43W U32	UU49W U32	UU61W U32
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	90	110	110	110
Sound Pressure	Cooling	Nom	dBA	53	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	71
Dimensions	WxHxD		mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	85.0	96.0	96.0	96.0
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400	3,400
	Additional Charge (after 7.5m)		g/m	40	40	40	40
Operation Range (Outdoor)	Cooling	Min~Max	°C DB	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	Min~Max	°C WB	-18 ~ 18	-18 ~ 18	-18 ~ 18	-18 ~ 18
Power Supply			ØV/Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	5C x 2.5	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	20	20	20
Piping Length Total		Min~Max	m	5 ~ 50	5 ~ 75	5 ~ 75	5 ~ 75
Piping Elevation Difference	IDU-ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)
	Gas		mm(inch)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)

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2. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C DB /19°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB  
 - Outdoor Temperature 35°C DB /24°C WB - Outdoor Temperature 7°C DB / 6°C WB

3. Annual energy consumption: based on average use of 500 running hours per year at nominal condition