

# ceiling cassette heat pump non inverter

**UT12 / UT18 / UT24 / UT30**  
**UT36 / UT48 / UT60**



UT12 , UT18



UT24 ~ UT60

## Specification

### Indoor Unit

		F/Panel		UT12 NEC	UT18 NEC	UT24 NPD	UT30 NPD	UT36 NND	UT48 NMD	UT60 NMD
				PT-HEC1	PT-HEC1	PT-UMC	PT-UMC	PT-UMC	PT-UMC	PT-UMC
Nominal Capacity (Rated)	Cooling	Btu/h		12,000	18,000	23,885	27,300	34,100	46,700	48,800
		kw		3.52	5.28	7.0	8.00	10.0	13.70	14.30
	Heating	Btu/h		13,200	19,800	25,591	30,700	37,500	51,200	58,000
		kw		3.87	5.8	7.5	9.00	11.0	15.00	17.00
Nominal Input (Rated)	Cooling	kw		1.35	2.02	2.49	3.62	3.80	5.40	5.90
	Heating	kw		1.37	2.06	2.60	3.60	3.40	5.00	5.80
Running Current	Cooling /Heating	A		0.35	0.43	0.6	0.6	0.6	0.72	0.72
Power Supply		Ø/V/Hz		1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
EER	Cooling	kw/kw		2.61	2.61	2.81	2.21	2.63	2.54	2.42
COP	Heating	kw/kw		2.82	2.82	2.88	2.50	3.24	3.00	2.93
Operational Temperature Range (Outdoor)	Cooling	°C		-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43
	Heating	°C		-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24
Air Flow Rate (H/M/L)		CMM		9.5 / 8 / 7	13 / 12 / 11	17 / 15 / 13	19 / 17 / 15	24 / 22 / 19	34 / 32 / 30	34 / 32 / 30
		CFM		336 / 283 / 247	459 / 422 / 388	582 / 519 / 459	671 / 600 / 530	847 / 759 / 671	1200 / 1130 / 1059	1200 / 1130 / 1059
Sound Level (H/M/L)		dB(A) ±3		38 / 35 / 32	41 / 39 / 37	39 / 37 / 34	43 / 40 / 37	43 / 40 / 37	49 / 47 / 43	49 / 47 / 43
Dehumidification Rate		l/h		1.2	2.4	2.1	2.5	2.7	4.4	5.5
Dimensions (WxHxD)	Body	mm(inch)		570*269*570(22.4*10.5*22.4)	570*269*570(22.4*10.5*22.4)	840*204*840(33.1*8.0*33.1)	840*204*840(33.1*8.0*33.1)	840*246*840(33.1*9.7*33.1)	840*288*840(33.1*11.3*33.1)	840*288*840(33.1*11.3*33.1)
	Decorative Panel	mm		670*30*670(26.4*1.2*26.4)	670*30*670(26.4*1.2*26.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)
Weight	Body	kg(lbs)		19(41.9)	19(41.9)	21(46.3)	21(46.3)	23.5(51.8)	26(57.3)	26(57.3)
	Decorative Panel	kg(lbs)		3(6.6)	3(6.6)	5(11.0)	5(11.0)	5(11.0)	5(11.0)	5(11.0)
Piping Connections	Liquid	mm(inch)		6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	mm(inch)		9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
ECA Compliant				N	N	N	N	N	N	N

### Outdoor Unit

		UU12 ULC	UU18 UEC	UU24 UED	UU30 UED	UU37 UED	UU48 U3D	UU60 U3D	
Compressor	Type	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	
Refrigerant Charge	Charge	g(oz)	1200(42.4)	1300(45.90)	1950(68.9)	1870(66.0)	2450(86.4)	3300(116.4)	3500(123.4)
	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Fan	Discharge	Side/Top	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge	
Noise Level	Sound Press,1m	dB(A) ±3	47	52	52	53	52	55	55
Dimensions	W*H*D	mm(inch)	770*540*245 (30.3*21.3*9.6)	870*655*320(34.3*25.8*12.6)	870*808*320(34.3*31.8*12.6)	870*808*320(34.3*31.8*12.6)	870*1060*320(42.1*41.7*12.6)	950*1380*330(37.4*54.3*13.0)	950*1380*330(37.4*54.3*13.0)
Net Weight	Outdoor	kg(lbs)	31(68.3)	52(114.6)	60(132.2)	64(141)	85(187)	105(231)	105(231)
Piping connection	Liquid	mm(inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	mm(inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Power Supply Cable(Includes earth)	No.*mm <sup>2</sup>		3x2.5	3x2.5	3x2.5	3x3.5	4x2.5	4x2.5	4x2.5
Interunit Cable(Includes earth)	No.*mm <sup>2</sup>		4x0.75	4x0.75	4x0.75	4x0.75	4x0.75	4x0.75	4x0.75
Max. Piping Length/Elevation	m		15/10	50/30	40/30	50/30	50/30	50/30	50/30
Power Supply	ø,V, Hz		1,220~240,50	1,220~240,50	1,220~240,50	1,220~240,50	3,380~415,50	3,380~415,50	3,380~415,50
Running Current	Cooling/Heating	A	6.2/6.3	8.6/9.4	11.4/12.6	17.2/16.3	7.5/7.7	6.5/6.4	6.9/6.7
Air Circulation	CMM(CFM)		26(918)	53(1872)	53(1872)	53(1872)	32(1130)*2	55(1942)*2	55(1942)*2
Additional Refrigerant Charge (Over 7.5m)	g/m		20	35	45	45	45	50	50
Fuse Sizes Amps			10A	16A	16A	25A	10A	16A	16A



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



# ceiling cassette DC inverter

## UT12 / UT18



### Specification

#### Indoor Unit

		F/Panel	UT12 NEC PT-HEC1	UT18 NEC PT-HEC1
Nominal Capacity (Min~Rating~Max)	Cooling	Btu/h	4,800~12,000~13,200	7,200~18,000~19,800
		kw	1.40~3.52~3.87	2.11~5.28~5.81
	Heating	Btu/h	5,520~13,800~15,180	8,520~13,800~15,180
		kw	1.62~4.04~4.44	2.38~5.95~6.54
Nominal Input (Rating)	Cooling	kw	1.25	1.64
	Heating	kw	1.26	1.85
Running Current	Cooling /Heating	A	0.35	0.35
Power Supply		Ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50
EER		kw/kw	2.82	3.22
COP		kw/kw	3.21	3.22
Operational Temperature Range (Indoor)	Cooling	°C	-10 ~ 46	-10 ~ 46
	Heating	°C	-15 ~ 24	-15 ~ 24
Air Flow Rate (H/M/L)		CMM	9.5 /8/7	13/12/11
		CFM	336 / 283 / 247	459 / 422 / 388
Sound Level (H/M/L)		dB(A)±3	38 / 35 / 32	41 / 39 / 37
Dehumidification Rate		l/h	1.2	2.4
Dimensions (WxHxD)	Body	mm(inch)	570*269*570(22.4*10.5*22.4)	570*269*570(22.4*10.5*22.4)
	Decorative Panel	mm	670*30*670(26.4*1.2 *26.4)	670*30*670(26.4*1.2 *26.4)
Weight	Body	kg(lbs)	19(41.9)	19(41.9)
	Decorative Panel	kg(lbs)	3(6.6)	3(6.6)
Piping Connections	Liquid	mm(inch)	6.35 (1/4)	6.35 (1/4)
	Gas	mm(inch)	9.52 (3/8)	12.7 (1/2)
ECA Compliant			N	N

#### Outdoor Unit

		UU12W UEC	UU18W UEC
Compressor	Type	e - Scroll	e - Scroll
Refrigerant Charge	Charge	g(oz)	1100 (40)
	Type		R410A
Fan	Discharge	Side/Top	Side Discharge
Noise Level(H/L)	Sound Press,1m	dB(A)±3	51 /45
Dimensions	W*H*D	mm(inch)	870*655*320 (34.3*25.8*12.6)
Net Weight	Outdoor	kg(lbs)	46(101)
Piping connection	Liquid	mm(inch)	6.35 ( 1/4)
	Gas	mm(inch)	9.52 (3/8)
Power Supply Cable(Includes earth)	No.*mm <sup>2</sup>		3 x 2.5
Interunit Cable(Includes earth)	No.*mm <sup>2</sup>		4 x 0.75
Max. Piping Length/Elevation		m	15/10
Power Supply		ø,V, Hz	1,220~240,50
Running Current	Cooling/Heating	A	6.5/5.8
Air Circulation		CMM(CFM)	50(1766)
Additional Refrigerant Charge (Over 7.5m)		g/m	20
Fuze Sizes Amps			10A



UU12W/UU18W

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# ceiling cassette DC inverter

## UT24 / UT60



ceiling cassette

## Specification

### Indoor Unit

		F/Panel	UT24 NPD PT-UMC	UT30 NPD PT-UMC	UT36 NND PT-UMC	UT42 NMD PT-UMC	UT48 NMD PT-UMC	UT60 NMD PT-UMC
Nominal Capacity (Min~Rating~Max)	Cooling	Btu/h	9,680~24,200~26,620	10,920~27,300~30,030	13,640~34,100~13,200	17,060~42,650~46,915	18,700~46,750~51,425	20,200~50,500~55,550
		kw	2.84~7.1~7.81	3.2~8.0~8.8	4.0~10.0~11.0	5.0~12.5~13.8	5.48~13.7~15.7	5.92~14.8~16.3
	Heating	Btu/h	10,920~27,300~30,300	12,280~30,700~33,770	15,000~37,500~41,250	19,108~47,770~52,547	21,840~54,600~60,060	23,200~58,000~63,800
		kw	3.2~8.0~8.8	3.6~9.0~9.9	4.4~11.0~12.1	5.0~14.0~15.4	6.4~16.0~17.6	6.8~17.0~18.7
Nominal Input (Rating)	Cooling	kw	2.15	2.65	3.12	3.90	4.55	5.60
	Heating	kw	2.34	2.80	3.23	3.88	4.68	5.30
Running Current	Cooling /Heating	A	0.6	0.6	0.6	0.72	0.72	0.72
Power Supply		Ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
EER		kw/kw	3.30	3.02	3.21	3.21	3.01	2.64
COP		kw/kw	3.42	3.21	3.41	3.61	3.42	3.21
Operational Temperature Range(Indoor)	Cooling	°C	-10 ~ 46	-10 ~ 46	-10 ~ 43	-10 ~ 43	-10 ~ 43	-10 ~ 43
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Air Flow Rate (H/M/L)		CMM	17/15/13	19 / 17 / 15	24 / 22 / 19	30 / 28 / 26	34 / 32 / 30	34 / 32 / 30
		CFM	582/519/459	671 / 600 / 530	847 / 759 / 671	1059 / 989 / 919	1200 / 1130 / 1059	1200 / 1130 / 1059
Sound Level (H/M/L)		dB(A) ±3	39/37/34	43/40/37	43/40/37	46/44/40	49 / 47 / 43	49 / 47 / 43
Dehumidification Rate		l/h	2.1	2.5	2.7	3.6	4.4	5.5
Dimensions (WxHxD)	Body	mm(inch)	840*204*840(33.1*8.0*33.1)	840*204*840(33.1*8.0*33.1)	840*246*840(33.1*9.7*33.1)	840*288*840(33.1*11.3*33.1)	840*288*840(33.1*11.3*33.1)	840*288*840(33.1*11.3*33.1)
	Decorative Panel	mm	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)	950*25*950(37.4*1.0*37.4)
Weight	Body	kg(lbs)	21(46.3)	21(46.3)	23.5(51.8)	26(57.3)	26(57.3)	26(57.3)
	Decorative Panel	kg(lbs)	5(11.0)	5(11.0)	5(11.0)	5(11.0)	5(11.0)	5(11.0)
Piping Connections	Liquid	mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
ECA Compliant			N	N	N	N	N	N

### Outdoor Unit

			UU24W UED	UU30W UED	UU36W UED	UU42W U3D	UU48W U3D	UU60W U3D
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Refrigerant Charge	Charge	g(oz)	2000(70.6)	2000(70.6)	2500(88.2)	3600(127)	3600(127)	3600(127)
	Type		R410A	R410A	R410A	R410A	R410A	R410A
Fan	Discharge	Side/Top	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge
Noise Level(H/L)	Sound Press,1m	dB(A)±3	52/46	52/46	56/52	55/51	55/51	55/51
Dimensions	W*H*D	mm(inch)	870*808*320(34.3*31.8*12.6)	870*1060*320(34.3*41.7*12.6)	870*1060*320(34.3*41.7*12.6)	950*1380*330(37.4*54.3*13.0)	950*1380*330(37.4*54.3*13.0)	950*1380*330(37.4*54.3*13.0)
Net Weight	Outdoor	kg(lbs)	60(132)	60(132)	75(165.3)	103(227)	103(227)	103(227)
Piping connection	Liquid	mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Power Supply Cable(Includes earth)	No.*mm2		3 x 2.5	3 x 2.5	3 x 2.5	3 x 3.5	3 x 3.5	3 x 3.5
Interunit Cable(Includes earth)	No.*mm2		4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75
Max. Piping Length/Elevation	m		50/30	50/30	50/30	75/30	75/30	75/30
Power Supply	ø,V, Hz		1, 220~240, 50	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50
Running Current	Cooling/Heating	A	10.0/10.7	12.0/13.0	14.0/14.2	17.7/16.7	20.5/20.5	24.7/23.5
Air Circulation	CMM(CFM)		58(2048)	58(2048)	32(1130) x 2	55(1942) x 2	55(1942) x 2	55(1942) x 2
Additional Refrigerant Charge (Over 7.5m)	g/m		35	35	50	40	40	40
Fuze Sizes Amps			16A	20A	20A	25A	32A	40A



UU24W/UU30W

UU36W

UU42W / UU48W / UU60W

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