



R454B Dc Inverter ReHeat Air Conditioner Heat-pump

**VKIN makes All the functions
within one single VKIN system.**



**Temperature And
Humidity Control**



Cooling



Heating



Dehumidifying



Humidifying



Ventilation



Air Purification



Applicable scenarios:

indoor cultivation and planting, indoor tissue culture and seedling raising, planting containers, animal breeding incubator, plant factory.

high-end residential buildings, high-end hotel rooms, data rooms, archives, museums, wine cellar, bars, cigar bars, tea and medicinal material storage, hospitals, clean factories.

DC INVERTER

TECHNICAL PARAMETERS



Model			UCHA-18TDC	UCHA-24TDC	UCHA-36TDC	UCHA-60TDC
Power Supply		Ph-V-Hz	1, 208~277V, 50/60Hz			
Rated Cooling	Capacity	Btu/h	18000(9000-20000)	24000(12000-28000)	36000(17500-41000)	54000(24000-56400)
	Input	W	1505(350-2500)	2250(500-3200)	2950(1100-4400)	5925(1200-4500)
	Rated current	A	6.5(1.66~11.84)	9.8(2.37~15.15)	12.8(4.7~19.1)	25.7(5.68-21.31)
	EER2	Btu/W	11.96	10.66	12.20	9.11
Low Temperature Cooling	Capacity @5°F	Btu/h	18766	25931	37532	59710
	Input	W	655	998	1698	3800
	Rated current	A	2.8	4.3	7.3	16.52
	EER2 @5°F	Btu/W	28.6	26.2	22.2	15.7
Rated Heating	Capacity	Btu/h	18000(15000-22000)	24000(12000-30000)	36000(19600-42600)	54000(24000-58000)
	Input	W	1800(320-2600)	2500(530-3500)	3268(1200-4500)	4219(1300-4800)
	Rated current	A	7.8(1.51-15.7)	10.8(2.51-16.57)	14.2(5.20-19.5)	20.0(6.16-22.73)
	COP	W/W	2.93	2.81	3.20	3.10
Low Temperature Heating	Capacity @5°F	Btu/h	13306	20130	23542	40944
	Input	W	1400	2300	3200	5800
	Rated current	A	6.00	10.00	13.91	25.21
	COP @5°F	W/W	2.70	2.56	2.15	2.00
Electric auxiliary heating		kW	0.85	1.20	1.80	/
SEER2		Btu.h/W.h	19.30	17.40	16.30	15.50
HSPF2 IV region		Btu.h/W.h	11.00	10.40	10.90	9.30
HSPF2 V region		Btu.h/W.h	8.70	8.40	8.20	8.00
ESP	Rated	In W.C	0	0	0.51	0.51
	Range	In W.C	0~0.12	0~0.12	0~0.8	0~0.8
Indoor air flow Rated(Hi/Med/Lo)		CFM	530/440/365	706/588/500	1176/941/705	1410/1176/940
Dehumidification Capacity in Cooling mode	Outdoor and Indoor ambient temperature: DB80.6°F(27°C)/WB70.16°F(21.2°C), RH 60%.	pint/h	5.83	8.96	11.41	16.82
	Outdoor and Indoor ambient temperature: DB69.8°F(21°C)/WB60.8°F(16°C), RH 60%.	pint/h	6.00	8.07	8.66	9.85
	Outdoor and Indoor ambient temperature: DB86.0°F(30.0°C)/WB80.7°F(27.1°C), RH 80%.	pint/h	16.38	25.20	28.64	31.62
Constant temperature dehumidification mode	Outdoor and Indoor ambient temperature: DB80.6°F(27°C)/WB75.56°F(24.2°C), RH 80%.	pint/h	8.03	12.36	15.32	20.12
Rated humidification amount		pint/h	4.22	4.22	/	/
Noise level	Indoor unit	dB(A)	28-43	32-46	36-52	≤62
	Outdoor unit	dB(A)	≤52	≤53	≤56	≤58
Liquid/Gas/Reheat		Inch	1/4-3/8-1/2	3/8-1/2-5/8	3/8-1/2-5/8	1/2-3/8-5/8
Refrigerant type			R454B	R454B	R454B	R454B
Maximum Allowable Pressure		Psi	609	609	609	609
Operating temperature range cooling		°F	50 - 88			
Operating temperature range heating		°F	5 - 118			
Humidity setting		%RH	30% to 90%			
Indoor unit	Dimension (W*H*D)	Inch	44.3×10.6×22.8	47.2×10.6×22.8	42.3×31.5×16.1	30.5×53.5×19.6
	Throttle type	-	EEV	EEV	EEV	EEV
	Controller	-	Wired Controller	Wired Controller	Wired Controller	Wired Controller
	Drainage water pipe diameter	Inch	1/2"External thread	1/2"External thread	3/4"External thread	3/4"External thread
	Drain pump	-	Standard	Standard	-	-
	Air filter	-	-	-	-	-
Indoor fan motor	Type	-	DC	DC	DC	AC
Outdoor unit	Dimension (W*H*D)	Inch	33.3×23.8×11.2	37.8×31.9×15.6	36.2×49.4×15.2	37.8×49.6×14.6
Outdoor fan motor	Type	-	DC	DC	DC	DC
compressor	Type	-	Rotary	Rotary	Rotary	Rotary
Rated cooling test conditions: Outdoor dry bulb temperature/Wet bulb temperature95.0°F\75.0°F Indoor dry bulb temperature/Wet bulb temperature80.0°F\67.0°F						
Rated heating test conditions: Outdoor dry bulb temperature/Wet bulb temperature47.0°F\43.0°F Indoor dry bulb temperature/Wet bulb temperature70.0°F\60.0°F						

*Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.

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