

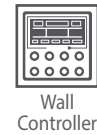


# UHD

## Includes



## Optional



## Models

Product # <sup>1</sup>	Indoor Unit Outdoor Unit	UHD09KCH38S-I UHD09KCH38S-O	UHD12KCH31S-I UHD12KCH31S-O	UHD18KCH25S-I UHD18KCH25S-O	UHD24KCH22S-I UHD24KCH22S-O	
<b>Technical Performance</b>						
<b>Voltage</b>		Volts	230/208	230/208	230/208	230/208
<b>Cooling capacity</b>	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5276 (18000)	6450 (22000)
	Min. – max.	W (BTU/hr)	450 - 3800 (1535 - 12996)	850 - 4500 (2950 - 15354)	1200 - 6400 (4094 - 21837)	2000 - 9000 (6800 - 30700)
<b>Heating capacity</b>	Nominal	W (BTU/hr)	2638 (9000)	3575 (12200)	5276 (18000)	7000 (24000)
	Min. – max.	W (BTU/hr)	700 - 4000 (2388 - 13648)	900 - 5500 (3071 - 18766)	1200 - 7200 (4094 - 24566)	2000 - 9500 (6800 - 32000)
<b>Used cooling power input</b>	Nominal	W	540	785	1330	1700
	Min. – max.	W	50 - 1400	75 - 1500	350 - 2500	450 - 3700
<b>Used heating power input</b>	Nominal	W	590	940	1500	2000
	Min. – max.	W	200-1500	250 - 1600	350 - 2500	380 - 3700
<b>Used rated input</b>		W	1500	1600	2500	3700
<b>Rated current</b>		A	6.2	6.5	10.8	16.4
<b>MCA</b>		A	9	9	22	22
<b>Max. over-current protection (MOCP)</b>		A	15	15	30	35
<b>SEER</b>		-	38.0	30.5	24.5	21.5
<b>HSPF</b>		-	15.0	14.0	12.0	12
<b>EER</b>		(BTU/hr/W)	4.84	4.48	3.97	3.81
<b>COP</b>		W/W	4.47	3.80	3.52	3.50
<b>ENERGY STAR</b>		-	✓	✓	✓	✓
<b>Indoor Unit</b>						
<b>Dehumidification</b>		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.20 (2.50)
<b>Air flow volume</b>	T / H / MH / M / ML / L / Q <sup>2</sup>	cfm	424 / 383 / 353 / 324 / 294 / 265 / 206	500 / 471 / 411 353 / 324 / 265 / 235	736 / 677 / 618 / 559 / 500 / 457 / 353	824 / 765 / 706 / 647 / 589 / 500 / 383
<b>Sound level</b>	T / H / MH / M / ML / L / Q <sup>2</sup>	dB (A)	43 / 40 / 38 / 36 / 33 / 31 / 19	49 / 46 / 43 / 40 / 37 / 34 / 22	51 / 48 / 45 / 42 / 39 / 36 / 34	52 / 48 / 46 / 43 / 40 / 37 / 34
<b>Fan motor power output</b>		W	60	60	60	70
<b>Fan motor RLA</b>		A	0.09	0.09	0.24	0.38
<b>Deflector stepper motor power output</b>		W	2.5 / 1.5	2.5 / 1.5	2.5 / 1.5	2.5
<b>Net weight</b>		lb (kg)	29.8 (13.5)	29.8 (13.5)	36.4 (16.5)	36.4 (16.5)
<b>Outdoor Unit</b>						
<b>Air flow volume</b>		cfm	2400	2400	2354	4000
<b>Sound level</b>		dB (A)	53	53	59	59
<b>Compressor power input</b>		W	1070	1070	2443	2443
<b>Compressor LRA</b>		A	35	35	30	30
<b>Compressor RLA</b>		A	6.9	6.9	15.5	16
<b>Fan motor power output</b>		W	30	30	90	90
<b>Fan motor RLA</b>		A	0.24	0.24	0.65	0.65
<b>Refrigerant volume (R410A)</b>		oz (g)	45.9 (1301)	49.4 (1400)	70.6 (2101)	81.1 (2299)
<b>Net weight</b>		lb (kg)	99.2 (45)	99.2 (45)	141.1 (64)	147.7 (67)
<b>Operating ambient temperature</b>	Cooling	°C (°F)	-18 to 54 (0 to 129)			
	Heating	°C (°F)	-30 to 24 (-22 to 75)			
<b>Connection Piping/Refrigerant</b>						
<b>Pre-charge length</b>		ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
<b>Additional refrigerant charge</b>		oz/ft. (g/m)	0.2 (20)	0.2 (20)	0.5 (50)	0.5 (50)
<b>Liquid pipe outer diameter</b>		in.	1/4	1/4	1/4	1/4
<b>Gas pipe outer diameter</b>		in.	1/2	1/2	5/8	5/8
<b>Maximum height difference</b>		ft. (m)	49 (15)	49 (15)	66 (20)	98 (30)
<b>Maximum total length</b>		ft. (m)	98 (30)	98 (30)	130 (30)	164 (50)

<sup>1</sup> 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

<sup>2</sup> Cross-Flow Fan Speeds: (T) Turbo / (H) High / (MH) Medium-High / (M) Medium / (ML) Medium-Low / (L) Low / (Q) Quiet.



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