



Quantum Series SINGLE ZONE HEAT PUMP MINI SPLITS

Indoor Model #			9K	12K	9K	12K	18K	24K
Outdoor Model #			9K	12K	9K	12K	18K	24K
Type			cooling&heating	cooling&heating	cooling&heating	cooling&heating	cooling&heating	cooling&heating
Control type			remote	remote	remote	remote	remote	remote
Power supply			115V~60Hz/1P	115V~60Hz/1P	208/230V~60Hz/1P	208/230V~60Hz/1P	208/230V~60Hz/1P	208/230V~60Hz/1P
Rated Cooling (95F/35C)	Rated cooling capacity (95F/35C)	Btu/h	9000	12000	9000	12000	18000	24000
	EER2 (95F/35C)	Btu/W.h	13.0	12.5	13.0	13.0	13.0	11.7
Rated Heating	SEER2	Btu/W.h	24.0	22.0	24.0	23.0	22.0	20.0
	Rated Heating capacity(47F/8.3C)	Btu/h	10000	12000	10000	12000	18500	24000
	HSPF2 Rating (Region IV)	Btu/W.h	10	9.5	10	9.5	9.3	9.3
	HSPF2 Rating (Region V)	Btu/W.h						
	COP2 (47F/8.3C)	W/W	3.81	3.61	3.81	3.61	3.61	3.21
	Max. Heating capacity (57F/-15°C)	W/W	7700	8950	7700	8950	13600	17400
Rated Input Consumption	COP2 (57F/-15°C)	W/W	2.0	2.0	2.0	2.0	2.0	1.8
	Cooling	W	680	930	680	930	1390	2010
Rated Current	Heating	W	730	890	730	890	1360	2000
	Cooling	A	6.1	8.3	3.0	4.2	6.2	9.0
NEEP, Canada	Heating	A	6.5	8.0	3.3	4.0	6.1	9.0
			YES	YES	YES	YES	YES	YES
Current Range	A	2~7.5	2.5~9.5	1~3.8	1.3~4.8	1.9~7.1	2.7~10.4	
Max. Current (T1)	A	9.0	11.0	5.0	6.0	8.5	12.5	
Min. Circuit Ampacity	A	16.0	17.0	9.0	11.0	13.0	19.0	
Max. Fuse size	A	25	25	15	15	20	30	
Moisture removal	Liters/h	1.1	1.6	1.1	1.6	2.2	2.6	
MXimum Operation Pressure	PSIG	550	550	550	550	550	550	
Indoor noise level at cooling	Turbo/High/Med./Low/Mute							
Outdoor noise level		dB(A)						
Connecting Pipe	Gas	inches	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
	Liquid	inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Connecting Wiring	Size x Core number		4x16AWG	4x16AWG	4x16AWG	4x16AWG	4x16AWG	4x16AWG
Suitable area	sq.ft		Up to 400	Up to 550	Up to 400	Up to 550	Up to 1000	Up to 1500
Net dimensions (W x D x H)	Indoor	mm	820x306x195	920x306x195	820x306x195	920x306x195	1100x333x222	1100x333x222
		inch	32.28x12.05x7.68	36.22x12.05x7.68	32.28x12.05x7.68	36.22x12.05x7.68	43.31x13.11x8.74	43.31x13.11x8.74
	Outdoor	mm	728x305x550	728x305x550	728x305x550	728x305x550	845x380x699	910x420x800
		inch	28.66x12.01x21.65	28.66x12.01x21.65	28.66x12.01x21.65	28.66x12.01x21.65	33.26x14.96x27.51	35.83x16.54x31.50
Net weight	Indoor	kg/lbs	9.5	10.5	9.5	10.5	14	0.0
			20.9	23.1	20.9	23.1	30.9	0.0
	Outdoor	kg/lbs	23.5	27.4	23.3	26.8	38.5	0.0
			51.8	60.4	51.4	59.1	84.9	0.0
Indoor Packing dimensions (W x D x H)	mm	890x380x265	990x380x265	890x380x265	990x380x265	1165x405x295	1165x405x295	
Outdoor Packing dimensions (W x D x H) (without pipe)	inch	35.04x14.96x10.43	38.98x14.96x10.43	35.04x14.96x10.43	38.98x14.96x10.43	45.87x15.95x11.61	45.87x15.95x11.61	
	mm	840x340x605	840x340x605	840x340x605	840x340x605	960x430x750	1026x485x850	
Outdoor Packing dimensions (W x D x H) (with pipe)	inch	33.07x13.39x23.82	33.07x13.39x23.82	33.07x13.39x23.82	33.07x13.39x23.82	37.79x16.92x29.53	40.47x19.09x33.46	
	mm	852x358x610	852x358x610	852x358x610	852x358x610	960x430x750	1026x485x850	
Gross weight (without pipe)	Indoor	kg	11.5	12	11.5	12	16	16
		lbs	25.4	26.5	25.4	26.5	35.3	35.3
	Outdoor	kg	25.5	29.7	25.3	29.2	42.5	54
		lbs	56.2	65.5	55.8	64.4	93.7	119.0
Gross weight (with 5m pipe)	Outdoor	kg	27.5	31.7	27.3	31.2	44.5	57
		lbs	60.6	69.9	60.2	68.8	98.1	125.7
Loading Capacity (IN+OUT)	40'HC (without pipe)		236	230	236	230	159	117
Loading Capacity (IN+OUT)	40'HC (with pipe)		229	224	229	224	150	117
Loading Capacity (INOOOR)	40'HC/ 40'GP/ 20'GP		713/610/287	650/556/260	713/610/287	650/556/260	498/422/204	498/422/204
Loading Capacity (OUT)	40'HC/ 40'GP/ 20'GP(without pipe)		360/270/126	360/270/126	360/270/126	360/270/126	189/187/89	144/96/44
Loading Capacity (OUT)	40'HC/ 40'GP/ 20'GP(with pipe)		344/258/120	344/258/120	344/258/120	344/258/120	189/187/89	144/96/44
Factory Precharge Line	(m/ft)	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	
MXimum Line Length	(m/ft)	15 / 50	15 / 50	15 / 50	15 / 50	20 / 65	20 / 65	
MXimum Height Difference Between Indoor and Outdoor	(m/ft)	10 / 33	10 / 33	10 / 33	10 / 33	15 / 49	15 / 49	
Additional refrigerant charge	(g/m, oz/ft)	20 / 0.22	20 / 0.22	20 / 0.22	20 / 0.22	20 / 0.22	20 / 0.22	
Operation temperature	Indoor(cooling/ heating)	°C	16~31	16~31	16~31	16~31	16~31	16~31
	Ambinet temperature	°C	>=17<=30	>=17<=30	>=17<=30	>=17<=30	>=17<=30	>=17<=30
Ambinet temperature	Indoor(cooling/ heating)	°C	-15~-55/-25~-30	-15~-55/-25~-30	-15~-55/-25~-30	-15~-55/-25~-30	-15~-55/-25~-30	-15~-55/-25~-30
	Indoor(cooling/ heating)	°F	62~89/32~86	62~89/32~86	62~89/32~86	62~89/32~86	62~89/32~86	62~89/32~86
Ambinet temperature	Outdoor(cooling/heating)	°F	5~131/13~86	5~131/13~86	5~131/13~86	5~131/13~86	5~131/13~86	5~131/13~86
	Outdoor(cooling/heating)	°F	5~131/13~86	5~131/13~86	5~131/13~86	5~131/13~86	5~131/13~86	5~131/13~86
Stacking layers	Indoor	pieces	7	7	7	7	6	6
	Outdoor	pieces	5	5	6	6	4	3