



# MULTI-ZONE MINI-SPLIT SYSTEMS COMBINATIONS & CAPACITIES

Perfect Aire Multi-Zone systems REQUIRE minimum indoor unit capacity measured in (Btuh) as illustrated below for initial system start-up.

Two-Zone **Minimum Required Indoor** Capacity = 9,000 (Btuh)

Three-Zone **Minimum Required Indoor** Capacity = 13,500 (Btuh)

Four-Zone **Minimum Required Indoor** Capacity = 18,000 (Btuh)

Five-Zone **Minimum Required Indoor** Capacity = 24,000 (Btuh)

## Two-Zone Heat Pump Condenser • Model 2PAMSHI8-MZO2

COOLING	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)		NOMINAL COOLING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)		SYSTEM COOLING CAPACITY (BTUH)		
		AH1	AH2	AH1	AH2	MIN	RATED	MAX
	1-Zone	9k	—	9500	—	6542	9500	11308
	12k	—	12500	—	6785	12500	13492	
2-Zone	9k	9k	9000	9000	7560	18000	20960	
	9k	12k	8500	10500	7850	19000	21217	
	12k	12k	9500	9500	7938	19000	21869	

HEAT PUMP	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)		NOMINAL HEATING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)		SYSTEM HEATING CAPACITY (BTUH)		
		AH1	AH2	AH1	AH2	MIN	RATED	MAX
	1-Zone	9k	—	10000	—	6366	10000	11505
	12k	—	13000	—	7592	13000	14133	
2-Zone	9k	9k	9500	9500	9980	19000	21990	
	9k	12k	9000	11000	10215	20000	22668	
	12k	12k	10000	10000	10398	20000	22996	



## Three-Zone Heat Pump Condenser • Model 2PAMSH27-MZO3

COOLING	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)			NOMINAL COOLING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)			SYSTEM COOLING CAPACITY (BTUH)		
		AH1	AH2	AH3	AH1	AH2	AH3	MIN	RATED	MAX
	1-Zone	18k	—	—	17000	—	—	7373	17000	18481
2-Zone	9k	9k	—	9500	9500	—	7776	19000	22405	
	9k	12k	—	9500	12000	—	8540	21500	24404	
	9k	18k	—	8400	16600	—	11233	25000	27362	
	12k	12k	—	12000	12000	—	9678	24000	27881	
	12k	18k	—	10000	15000	—	11521	25000	28192	
3-Zone	18k	18k	—	14000	14000	—	12927	28000	30243	
	9k	9k	9k	9000	9000	9000	11233	27000	30362	
	9k	9k	12k	8667	8667	11666	12543	29000	31137	
	9k	9k	18k	8333	8334	13333	12620	30000	31860	
	9k	12k	12k	8500	10000	10000	12291	28500	31410	
	12k	12k	12k	9667	9667	9666	12681	29000	31534	

HEAT PUMP	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)			NOMINAL HEATING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)			SYSTEM HEATING CAPACITY (BTUH)		
		AH1	AH2	AH3	AH1	AH2	AH3	MIN	RATED	MAX
	1-Zone	18k			18000			8379	18000	20464
2-Zone	9k	9k	—	10000	10000	—	8919	20000	23696	
	9k	12k	—	10000	13000	—	9588	23000	24623	
	9k	18k	—	9000	18000	—	13007	27000	28473	
	12k	12k	—	13000	13000	—	10257	26000	29550	
	12k	18k	—	11200	16800	—	13379	28000	30544	
	18k	18k	—	15000	15000	—	15015	30000	31260	
3-Zone	9k	9k	9k	9500	9500	9500	13007	28500	32473	
	9k	9k	12k	9000	9000	11000	13453	29000	32758	
	9k	9k	18k	8500	8500	13000	13527	30000	32972	
	9k	12k	12k	8500	10500	10500	13340	29500	33434	
	12k	12k	12k	10000	10000	10000	13757	30000	33666	

## Four-Zone Heat Pump Condenser • Model 2PAMSH36-MZO4

COOLING	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)				NOMINAL COOLING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)				SYSTEM COOLING CAPACITY (BTUH)		
		AH1	AH2	AH3	AH4	AH1	AH2	AH3	AH4	MIN	RATED	MAX
	1-Zone	18k	—	—	—	18000	—	—	—	7473	18000	20533
	24k	—	—	—	23000	—	—	—	7844	23000	23150	
2-Zone	9k	9k	—	—	10000	10000	—	—	7976	20000	22855	
	9k	12k	—	—	9500	12000	—	—	8740	21500	23308	
	9k	18k	—	—	9000	17000	—	—	10521	26000	26895	
	9k	24k	—	—	8500	21000	—	—	11233	29500	29565	
	12k	12k	—	—	12000	12000	—	—	10521	24000	26308	
	12k	18k	—	—	12000	17000	—	—	10927	29000	29524	
	12k	24k	—	—	10000	20000	—	—	12379	30000	33255	
3-Zone	18k	18k	—	—	15000	15000	—	—	12015	30000	33308	
	9k	9k	9k	—	9333	9333	9333	—	10947	27999	32308	
	9k	9k	12k	—	9000	9000	12000	—	14104	30000	36624	
	9k	9k	18k	—	8000	8000	16000	—	13096	32000	38650	
	9k	12k	12k	—	8500	11500	11500	—	14356	31500	38368	
	9k	12k	18k	—	8000	11000	15000	—	15903	34000	39136	
	9k	18k	18k	—	8000	14000	14000	—	13096	36000	39650	
	12k	12k	12k	—	11333	11333	11333	—	13842	33999	38804	
	12k	12k	18k	—	11000	11000	14000	—	13903	36000	39636	
	12k	18k	18k	—	9333	13333	13333	—	14160	35999	39980	
4-Zone	12k	12k	24k	—	8000	8000	20000	—	14550	36000	39980	
	9k	9k	9k	9k	9000	9000	9000	9000	16255	36000	39577	
	9k	9k	9k	12k	8500	8500	8500	11500	16947	37000	40581	
	9k	9k	9k	18k	8000	8000	8000	14000	16255	38000	41577	
	9k	9k	12k	12k	8000	8000	10500	10500	16417	37000	40978	
	9k	9k	12k	18k	7500	7500	9000	14000	16947	38000	41601	
	9k	12k	12k	12k	7000	10000	10000	10000	16417	37000	40801	
	12k	12k	12k	12k	9500	9500	9500	9500	16947	38000	41601	

## Four-Zone Heat Pump Condenser • Model 2PAMSH36-MZO4

	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)				NOMINAL HEATING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)				SYSTEM HEATING CAPACITY (BTUH)		
		AH1	AH2	AH3	AH4	AH1	AH2	AH3	AH4	MIN	RATED	MAX
<b>HEAT PUMP</b>	1-Zone	18k	—	—	—	18000	—	—	—	8379	18000	20628
		24k	—	—	—	24000	—	—	—	8919	24000	25628
	2-Zone	9k	9k	—	—	10500	10500	—	—	9588	21000	25649
		9k	12k	—	—	10000	13000	—	—	12007	23000	28653
		9k	18k	—	—	10000	18000	—	—	10257	28000	30685
		9k	24k	—	—	10000	22000	—	—	13379	32000	33544
		12k	12k	—	—	13000	13000	—	—	12015	26000	32653
		12k	18k	—	—	13000	18000	—	—	13007	31000	32870
		12k	24k	—	—	11500	21500	—	—	13453	33000	34757
	3-Zone	18k	18k	—	—	16500	16500	—	—	14516	33000	34966
		9k	9k	9k	—	9667	9667	9667	—	13340	29001	34653
		9k	9k	12k	—	9500	9500	12500	—	13757	31500	35870
		9k	9k	18k	—	8500	8500	17000	—	14976	34000	37859
		9k	12k	12k	—	9000	12000	12000	—	14966	33000	36830
		9k	12k	18k	—	8500	11500	16000	—	16343	36000	38861
		9k	18k	18k	—	8500	14500	14500	—	14976	37500	39859
		12k	12k	12k	—	12000	12000	12000	—	13404	36000	38112
		12k	12k	18k	—	12000	12000	14000	—	13619	38000	40670
		12k	18k	18k	—	11000	13500	13500	—	14595	38000	40670
	4-Zone	12k	12k	24k	—	8500	8500	21000	—	15690	38000	40670
9k		9k	9k	9k	9500	9500	9500	9500	15346	38000	42230	
9k		9k	9k	12k	9000	9000	9000	12000	15522	39000	43177	
9k		9k	9k	18k	8500	8500	8500	14000	16046	39500	43230	
9k		9k	12k	12k	8500	8500	11000	11000	15912	39000	42875	
9k		9k	12k	18k	8000	8000	9500	14500	16722	40000	43377	
9k		12k	12k	12k	8000	10500	10500	10500	15312	39500	42875	
12k		12k	12k	12k	10000	10000	10000	10000	16722	40000	43177	

# Five-Zone Heat Pump Condenser • Model 2PAMSH48-MZO5

COOLING	ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)					NOMINAL COOLING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)					SYSTEM COOLING CAPACITY (BTUH)		
		AH1	AH2	AH3	AH4	AH5	AH1	AH2	AH3	AH4	AH5	MIN	RATED	MAX
		1-Zone	24k	—	—	—	—	24000	—	—	—	—	7844	24000
2-Zone	9k	18k	—	—	—	9500	18000	—	—	—	7976	27500	30607	
	9k	24k	—	—	—	9500	24000	—	—	—	8740	33500	37285	
	12k	12k	—	—	—	12500	12500	—	—	—	10521	25000	27825	
	12k	18k	—	—	—	12000	18000	—	—	—	11233	30000	33390	
	12k	24k	—	—	—	12000	24000	—	—	—	10521	36000	40068	
	18k	18k	—	—	—	18000	18000	—	—	—	10927	36000	40068	
	18k	24k	—	—	—	17500	22500	—	—	—	12379	40000	44520	
3-Zone	24k	24k	—	—	—	21000	21000	—	—	—	12015	42000	46746	
	9k	9k	9k	—	—	9500	9500	9500	—	—	10947	28500	31635	
	9k	9k	12k	—	—	9500	9500	12000	—	—	14104	31000	34410	
	9k	9k	18k	—	—	9500	9500	18000	—	—	13096	37000	41070	
	9k	9k	24k	—	—	9000	9000	22500	—	—	14356	40500	44955	
	9k	12k	12k	—	—	9500	12500	12500	—	—	15903	34500	38295	
	9k	12k	18k	—	—	9000	12000	18000	—	—	13096	39000	43290	
	9k	12k	24k	—	—	9000	12000	21500	—	—	13842	42500	47175	
	9k	18k	18k	—	—	9000	18000	18000	—	—	13903	45000	49950	
	9k	18k	24k	—	—	8500	15500	21000	—	—	14160	45000	49950	
	9k	24k	24k	—	—	8000	20000	20000	—	—	14550	48000	53280	
	12k	12k	12k	—	—	12000	12000	12000	—	—	16255	36000	39960	
	12k	12k	18k	—	—	12000	12000	17000	—	—	16947	41000	45510	
	12k	12k	24k	—	—	11000	11000	22000	—	—	16255	44000	48840	
	12k	18k	18k	—	—	11000	16500	16500	—	—	16417	44000	48840	
	12k	18k	24k	—	—	10500	15500	21500	—	—	16947	47500	52725	
	12k	24k	24k	—	—	10000	20000	20000	—	—	16417	50000	55500	
	18k	18k	18k	—	—	16000	16000	16000	—	—	16947	48000	53280	
18k	18k	24k	—	—	15000	15000	20000	—	—	17980	50000	55500		
4-Zone	9k	9k	9k	9k	—	9250	9250	9250	9250	—	17933	37000	40515	
	9k	9k	9k	12k	—	9000	9000	9000	12000	—	17954	39000	42705	
	9k	9k	9k	18k	—	9000	9000	9000	17000	—	17948	44000	48180	
	9k	9k	9k	24k	—	8500	8500	8500	20500	—	17975	46000	50370	
	9k	9k	12k	12k	—	9000	9000	12000	12000	—	17963	42000	45990	
	9k	9k	12k	18k	—	9000	9000	11000	17000	—	17996	46000	50370	
	9k	9k	12k	24k	—	8500	8500	10500	20500	—	17978	48000	52560	
	9k	9k	18k	18k	—	8500	8500	15500	15500	—	18017	48000	52560	
	9k	9k	18k	24k	—	8000	8000	14500	20000	—	17993	50500	55297	
	9k	12k	12k	12k	—	9000	12000	12000	12000	—	18038	45000	49275	
	9k	12k	12k	18k	—	9000	11000	11000	16000	—	18008	47000	51465	
	9k	12k	12k	24k	—	8500	10000	10000	20000	—	18059	48500	53107	
	9k	12k	18k	18k	—	8500	10000	15000	15000	—	18023	48500	53107	
	12k	12k	12k	12k	—	12000	12000	12000	12000	—	18038	48000	52560	
	12k	12k	12k	18k	—	11000	11000	11000	16000	—	18101	49000	53655	
	12k	12k	12k	24k	—	10000	10000	10000	20000	—	17948	50000	54750	
12k	12k	18k	18k	—	10000	10000	15000	15000	—	17975	50000	54750		
5-Zone	9k	9k	9k	9k	9k	9000	9000	9000	9000	9000	18058	45000	49005	
	9k	9k	9k	9k	12k	9000	9000	9000	9000	12000	18083	48000	52272	
	9k	9k	9k	9k	18k	8500	8500	8500	8500	16000	18069	50000	54450	
	9k	9k	9k	9k	24k	7750	7750	7750	7750	19500	18071	50500	54994	
	9k	9k	9k	12k	12k	9000	9000	9000	11500	11500	18080	50000	54450	
	9k	9k	9k	12k	18k	8000	8000	8000	11000	16000	18082	51000	55539	
	9k	9k	9k	18k	18k	8000	8000	8000	11000	16000	18091	51000	55539	
	9k	9k	12k	12k	12k	8500	8500	11000	11000	11000	18093	50000	54450	
	9k	9k	12k	12k	18k	8500	8500	10000	10000	15000	18102	52000	56628	
	9k	12k	12k	12k	12k	8000	11000	11000	11000	11000	18104	52000	56628	
	9k	12k	12k	12k	18k	7500	10000	10000	10000	14500	18113	52000	56628	
12k	12k	12k	12k	12k	10500	10500	10500	10500	10500	18115	52500	57172		

ZONE OPTIONS	AIR HANDLER COMBINATIONS (OPERATIONAL)					NOMINAL HEATING CAPACITY @ RATED SYSTEM CAPACITY (BTUH)					SYSTEM HEATING CAPACITY (BTUH)		
	AH1	AH2	AH3	AH4	AH5	AH1	AH2	AH3	AH4	AH5	MIN	RATED	MAX
1-Zone	24k	—	—	—	—	24500	—	—	—	—	8919	24500	25628
2-Zone	9k	18k	—	—	—	10000	18000	—	—	—	9588	28000	31164
	9k	24k	—	—	—	10000	25000	—	—	—	12007	35000	38955
	12k	12k	—	—	—	13000	13000	—	—	—	10257	26000	28938
	12k	18k	—	—	—	13000	19000	—	—	—	13379	32000	35616
	12k	24k	—	—	—	10000	25000	—	—	—	12015	35000	38955
	18k	18k	—	—	—	19000	19000	—	—	—	13007	38000	42294
	18k	24k	—	—	—	18000	24000	—	—	—	13453	42000	46746
3-Zone	24k	24k	—	—	—	22000	22000	—	—	—	14516	44000	48972
	9k	9k	9k	—	—	11000	11000	11000	—	—	13340	33000	36630
	9k	9k	12k	—	—	10000	10000	13000	—	—	13757	33000	36630
	9k	9k	18k	—	—	10000	10000	19000	—	—	14976	39000	43290
	9k	9k	24k	—	—	9500	9500	23500	—	—	14966	42500	47175
	9k	12k	12k	—	—	10000	10000	13000	—	—	16343	33000	36630
	9k	12k	18k	—	—	9500	9500	19000	—	—	14976	38000	42180
	9k	12k	24k	—	—	9500	12500	22000	—	—	13404	44000	48840
	9k	18k	18k	—	—	9500	18500	18500	—	—	13619	46500	51615
	9k	18k	24k	—	—	9000	16000	21500	—	—	14595	46500	51615
	9k	24k	24k	—	—	8500	21000	21000	—	—	15690	50500	56055
	12k	12k	12k	—	—	13000	13000	13000	—	—	15346	39000	43290
	12k	12k	18k	—	—	12500	12500	18000	—	—	15522	43000	47730
	12k	12k	24k	—	—	11500	11500	23000	—	—	16046	46000	51060
	12k	18k	18k	—	—	11500	17000	17000	—	—	15912	45500	50505
	12k	18k	24k	—	—	11000	16000	22000	—	—	16722	49000	54390
12k	24k	24k	—	—	11000	20500	20500	—	—	15312	52000	57720	
18k	18k	18k	—	—	16500	16500	16500	—	—	16722	49500	54945	
18k	18k	24k	—	—	15500	15500	21000	—	—	16922	52000	57720	
4-Zone	9k	9k	9k	9k	—	9500	9500	9500	9500	—	17722	38000	41762
	9k	9k	9k	12k	—	9500	9500	9500	12500	—	17722	41000	45059
	9k	9k	9k	18k	—	9500	9500	9500	17500	—	17734	46000	50554
	9k	9k	9k	24k	—	9000	9000	9000	21000	—	17741	48000	52752
	9k	9k	12k	12k	—	9500	9500	13000	13000	—	17746	45000	49455
	9k	9k	12k	18k	—	9500	9500	11500	17500	—	17760	48000	52752
	9k	9k	12k	24k	—	9000	9000	11100	21000	—	17758	50100	55059
	9k	9k	18k	18k	—	9000	9000	16000	16000	—	17779	50000	54950
	9k	9k	18k	24k	—	8500	8500	15000	20000	—	17770	52000	57148
	9k	12k	12k	12k	—	9500	12500	12500	12500	—	17798	47000	51653
	9k	12k	12k	18k	—	9500	11500	11500	16500	—	17782	49000	53851
	9k	12k	12k	24k	—	9000	10500	10500	20500	—	17817	50500	55499
	9k	12k	18k	18k	—	9000	10500	15500	15500	—	17794	50500	55499
	9k	18k	18k	18k	—	8500	14500	14500	14500	—	17836	52000	57148
	12k	12k	12k	12k	—	12500	12500	12500	12500	—	17806	50000	54950
	12k	12k	12k	18k	—	11500	11500	11500	16500	—	17855	51000	56049
	12k	12k	12k	24k	—	10500	10500	10500	20500	—	17818	52000	57148
12k	12k	18k	18k	—	10500	10500	15500	15500	—	17874	52000	57148	
5-Zone	9k	9k	9k	9k	9k	9500	9500	9500	9500	9500	19540	47500	51727
	9k	9k	9k	9k	12k	9500	9500	9500	9500	13000	19645	51000	55539
	9k	9k	9k	9k	18k	9000	9000	9000	9000	16500	19562	52500	57172
	9k	9k	9k	9k	24k	8000	8000	8000	8000	20000	19668	52000	56628
	9k	9k	9k	12k	12k	9500	9500	9500	12000	12000	19584	52500	57172
	9k	9k	9k	12k	18k	8500	8500	8500	11500	16500	19691	53500	58261
	9k	9k	9k	18k	18k	8500	8500	8500	16500	16500	19606	58500	63706
	9k	9k	12k	12k	12k	9000	9000	12000	12000	12000	19714	54000	58806
	9k	9k	12k	12k	18k	8500	8500	10500	10500	15500	19628	53500	58261
	9k	12k	12k	12k	12k	8500	11500	11500	11500	11500	19737	54500	59350
12k	12k	12k	12k	18k	8000	10500	10500	10500	15000	19650	54500	59350	
12k	12k	12k	12k	12k	11000	11000	11000	11000	11000	19760	55000	59895	