

9k -24k BTU Ductless Split Single Zone Wall Mount R- 454B Refrigerant

System	Outdoor Condenser	Wall Mount
FPHW091C	FPHSR09A1C	FAHSW09A1C
FPHW093D	FPHSR09A3D	FAHSW09A3D
FPHW121C	FPHSR12A1C	FAHSW12A1C
FPHW123D	FPHSR12A3D	FAHSW12A3D
FPHW183D	FPHSR18A3D	FAHSW18A3D
FPHW243D	FPHSR24A3D	FAHSW24A3D

Remarks:
TC: Total Capacity (Gross) (kBtu/h)
SHC: Sensible Heat Capacity (Gross)
PI: Power Input (including the compressor, evap. fan motor & cond. fan motor) (kW)
DB: Dry Bulb Temperature
WB: Wet Bulb Temperature

Ductless SZ R-454B Extended Capacity Charts
9k-115v

Cooling capacity													
AFR	CFM	341			341			341			341		
Indoor temperature	°F DB	70			75			80			85		
	°F WB	59			63			67			71		
Outdoor temperature	°F DB	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)
	5	5.467	4.040	0.177	5.849	4.377	0.205	6.357	4.810	0.228	6.802	4.906	0.250
	15	5.789	4.278	0.235	6.193	4.634	0.271	6.731	5.093	0.301	7.202	5.195	0.331
	25	6.030	4.456	0.269	6.451	4.828	0.310	7.012	5.305	0.344	7.502	5.411	0.379
	35	6.191	4.575	0.293	6.623	4.956	0.338	7.199	5.446	0.375	7.703	5.555	0.413
	45	6.512	4.813	0.312	6.967	5.214	0.360	7.573	5.729	0.400	8.103	5.844	0.440
	55	6.834	5.050	0.345	7.311	5.471	0.399	7.947	6.012	0.443	8.503	6.133	0.487
	65	6.995	5.169	0.374	7.483	5.600	0.432	8.134	6.154	0.480	8.703	6.277	0.528
	75	7.303	5.526	0.393	7.999	5.986	0.454	8.694	6.578	0.504	9.303	6.710	0.555
	85	7.617	5.763	0.441	8.343	6.244	0.509	9.068	6.861	0.566	9.703	6.998	0.622
	95	7.853	5.942	0.480	8.601	6.437	0.554	9.349	7.073	0.615	10.003	7.215	0.677
	105	7.539	5.704	0.499	8.257	6.179	0.576	8.975	6.790	0.640	9.603	6.926	0.704
	115	7.225	5.466	0.528	7.913	5.922	0.609	8.601	6.507	0.677	9.203	6.638	0.744

Heating capacity									
AFR	CFM	341		341		341		341	
Indoor temperature	°F DB	60		65		70		75	
Outdoor temperature	°F DB	TC	IP	TC	IP	TC	IP	TC	IP
		KBtu	KW	KBtu	KW	KBtu	KW	KBtu	KW
	-13	5.601	1.011	5.495	1.032	5.335	1.064	5.175	1.085
	-4	6.870	1.055	6.739	1.077	6.543	1.111	6.346	1.133
	0	8.561	1.074	8.398	1.097	8.153	1.131	7.908	1.153
	5	9.829	1.137	9.642	1.161	9.361	1.197	9.080	1.221
	10	10.040	1.143	9.849	1.168	9.562	1.204	9.275	1.228
	17	10.156	1.030	9.963	1.051	9.673	1.084	9.383	1.106
	20	10.220	0.884	10.025	0.903	9.733	0.931	9.441	0.950
	30	10.252	0.821	10.056	0.839	9.763	0.865	9.471	0.882
	40	10.357	0.758	10.160	0.774	9.864	0.798	9.568	0.814
	47	10.569	0.632	10.367	0.645	10.065	0.665	9.763	0.678
	50	10.040	0.594	9.849	0.606	9.562	0.625	9.275	0.638
	65	9.617	0.562	9.434	0.574	9.160	0.592	8.885	0.604

Ductless SZ R-454B Extended
Capacity Charts 9k-230v

Remarks:
TC: Total Capacity (Gross) (kBtu/h)
SHC: Sensible Heat Capacity (Gross)
PI: Power Input (including the compressor, evap. fan motor & cond. fan motor) (kW)
DB: Dry Bulb Temperature
WB: Wet Bulb Temperature

Cooling capacity													
AFR	CFM	365			365			365			365		
Indoor temperature	°F DB	70			75			80			85		
	°F WB	59			63			67			71		
Outdoor temperature	°F DB	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)
	5	5.332	3.340	0.174	5.704	3.619	0.201	6.199	3.977	0.223	6.633	4.056	0.246
	15	5.645	3.537	0.231	6.039	3.832	0.266	6.564	4.211	0.296	7.024	4.295	0.326
	25	5.880	3.684	0.264	6.291	3.991	0.304	6.838	4.386	0.338	7.316	4.474	0.372
	35	6.037	3.783	0.287	6.458	4.098	0.332	7.020	4.503	0.368	7.511	4.593	0.405
	45	6.351	3.979	0.306	6.794	4.311	0.353	7.385	4.737	0.393	7.902	4.832	0.432
	55	6.664	4.176	0.339	7.129	4.524	0.391	7.749	4.971	0.435	8.292	5.070	0.478
	65	6.821	4.274	0.367	7.297	4.630	0.424	7.932	5.088	0.471	8.487	5.190	0.518
	75	7.122	4.569	0.386	7.800	4.949	0.446	8.479	5.439	0.495	9.072	5.548	0.545
	85	7.428	4.765	0.433	8.136	5.162	0.500	8.843	5.673	0.556	9.462	5.786	0.611
	95	7.658	4.912	0.471	8.388	5.322	0.544	9.117	5.848	0.604	9.755	5.965	0.664
	105	7.352	4.716	0.490	8.052	5.109	0.565	8.752	5.614	0.628	9.365	5.727	0.691
	115	7.046	4.519	0.518	7.717	4.896	0.598	8.388	5.380	0.664	8.975	5.488	0.731

Heating capacity									
AFR	CFM	365		365		365		365	
Indoor temperature	°F DB	60		65		70		75	
Outdoor temperature	°F DB	TC	IP	TC	IP	TC	IP	TC	IP
		KBtu	KW	KBtu	KW	KBtu	KW	KBtu	KW
	-13	5.491	1.066	5.387	1.088	5.230	1.122	5.073	1.144
	-4	6.735	1.112	6.606	1.136	6.414	1.171	6.221	1.194
	0	8.392	1.132	8.232	1.156	7.993	1.192	7.753	1.216
	5	9.636	1.199	9.452	1.224	9.177	1.262	8.901	1.287
	10	9.843	1.205	9.655	1.231	9.374	1.269	9.093	1.294
	17	9.957	1.086	9.767	1.108	9.483	1.143	9.198	1.166
	20	10.019	0.932	9.828	0.952	9.542	0.981	9.256	1.001
	30	10.050	0.866	9.859	0.884	9.571	0.911	9.284	0.930
	40	10.154	0.799	9.960	0.816	9.670	0.841	9.380	0.858
	47	10.361	0.666	10.164	0.680	9.868	0.701	9.571	0.715
	50	9.843	0.626	9.655	0.639	9.374	0.659	9.093	0.672
	65	9.428	0.573	9.249	0.585	8.979	0.603	8.710	0.615

Ductless SZ R-454B Extended Capacity Charts
12k-115v

Remarks:
TC: Total Capacity (Gross) (kBtu/h)
SHC: Sensible Heat Capacity (Gross)
PI: Power Input (including the compressor, evap. fan motor & cond. fan motor) (kW)
DB: Dry Bulb Temperature
WB: Wet Bulb Temperature

Cooling capacity													
AFR	CFM	365			365			365			365		
Indoor temperature	°F DB	70			75			80			85		
	°F WB	59			63			67			71		
Outdoor temperature	°F DB	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)
	5	7.042	5.262	0.283	7.534	5.701	0.326	8.189	6.264	0.363	8.762	6.390	0.399
	15	7.923	5.572	0.375	8.475	6.036	0.432	9.212	6.633	0.480	9.857	6.766	0.528
	25	8.253	5.804	0.428	8.829	6.287	0.494	9.596	6.909	0.549	10.268	7.047	0.604
	35	8.473	5.959	0.466	9.064	6.455	0.538	9.852	7.094	0.598	10.542	7.235	0.658
	45	8.913	6.268	0.497	9.535	6.790	0.573	10.364	7.462	0.637	11.089	7.611	0.701
	55	9.353	6.578	0.550	10.006	7.126	0.635	10.876	7.831	0.706	11.637	7.987	0.776
	65	9.573	6.732	0.596	10.241	7.293	0.688	11.132	8.015	0.764	11.911	8.175	0.841
	75	9.995	7.197	0.627	10.947	7.796	0.723	11.899	8.568	0.804	12.732	8.739	0.884
	85	10.425	7.506	0.703	11.418	8.132	0.811	12.411	8.936	0.902	13.280	9.115	0.992
	95	10.748	7.738	0.764	11.771	8.383	0.882	12.795	9.212	0.980	13.691	9.397	1.078
	105	10.318	7.429	0.795	11.301	8.048	0.917	12.283	8.844	1.019	13.143	9.021	1.121
	115	9.673	6.965	0.864	10.594	7.545	0.997	11.516	8.291	1.107	12.322	8.457	1.218

Heating capacity									
AFR	CFM	365		365		365		365	
Indoor temperature	°F DB	60		65		70		75	
Outdoor temperature	°F DB	TC	IP	TC	IP	TC	IP	TC	IP
		KBtu	KW	KBtu	KW	KBtu	KW	KBtu	KW
	-13	6.286	1.045	6.167	1.067	5.987	1.100	5.807	1.122
	-4	7.850	1.128	7.701	1.152	7.476	1.188	7.252	1.212
	0	9.512	1.318	9.331	1.345	9.059	1.387	8.787	1.415
	5	11.169	1.499	10.956	1.531	10.637	1.578	10.318	1.610
	10	11.675	1.372	11.453	1.401	11.119	1.444	10.786	1.473
	17	12.182	1.319	11.950	1.347	11.602	1.388	11.254	1.416
	20	12.490	1.311	12.252	1.339	11.895	1.380	11.538	1.408
	30	12.706	1.237	12.464	1.263	12.101	1.302	11.738	1.328
	40	13.625	1.116	13.365	1.139	12.976	1.174	12.587	1.198
	47	13.793	0.935	13.530	0.954	13.136	0.984	12.742	1.004
	50	13.198	0.879	12.946	0.897	12.569	0.925	12.192	0.943
	65	12.670	0.804	12.429	0.821	12.067	0.846	11.705	0.863

Ductless SZ R-454B Extended Capacity Charts
12k-230v

Remarks:
TC: Total Capacity (Gross) (kBtu/h)
SHC: Sensible Heat Capacity (Gross)
PI: Power Input (including the compressor, evap. fan motor & cond. fan motor) (kW)
DB: Dry Bulb Temperature
WB: Wet Bulb Temperature

Cooling capacity													
AFR	CFM	400			400			400			400		
Indoor temperature	°F DB	70			75			80			85		
	°F WB	59			63			67			71		
Outdoor temperature	°F DB	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)
	5	6.708	4.740	0.286	7.176	5.135	0.330	7.800	5.643	0.366	8.346	5.755	0.403
	15	7.547	5.019	0.378	8.073	5.437	0.437	8.775	5.975	0.485	9.389	6.094	0.534
	25	7.861	5.228	0.432	8.409	5.663	0.499	9.141	6.223	0.554	9.781	6.348	0.610
	35	8.071	5.367	0.471	8.634	5.814	0.544	9.385	6.389	0.604	10.041	6.517	0.664
	45	8.490	5.646	0.502	9.082	6.116	0.579	9.872	6.721	0.644	10.563	6.856	0.708
	55	8.909	5.925	0.556	9.531	6.418	0.642	10.360	7.053	0.713	11.085	7.194	0.784
	65	9.119	6.064	0.602	9.755	6.570	0.695	10.603	7.219	0.772	11.345	7.364	0.849
	75	9.521	6.482	0.633	10.428	7.023	0.731	11.335	7.717	0.812	12.128	7.871	0.893
	85	9.931	6.761	0.710	10.876	7.325	0.820	11.822	8.049	0.911	12.650	8.210	1.002
	95	10.238	6.970	0.772	11.213	7.551	0.891	12.188	8.298	0.990	13.041	8.464	1.089
	105	9.828	6.691	0.803	10.764	7.249	0.927	11.700	7.966	1.030	12.519	8.125	1.133
	115	9.214	6.273	0.873	10.091	6.796	1.007	10.969	7.468	1.119	11.737	7.618	1.231

Heating capacity									
AFR	CFM	400		400		400		400	
Indoor temperature	°F DB	60		65		70		75	
Outdoor temperature	°F DB	TC	IP	TC	IP	TC	IP	TC	IP
		KBtu	KW	KBtu	KW	KBtu	KW	KBtu	KW
	-13	6.502	1.045	6.379	1.067	6.193	1.100	6.007	1.122
	-4	8.120	1.128	7.965	1.152	7.733	1.188	7.501	1.212
	0	9.839	1.318	9.651	1.345	9.370	1.387	9.089	1.415
	5	11.552	1.499	11.332	1.531	11.002	1.578	10.672	1.610
	10	12.076	1.372	11.846	1.401	11.501	1.444	11.156	1.473
	17	12.600	1.319	12.360	1.347	12.000	1.388	11.640	1.416
	20	12.919	1.311	12.673	1.339	12.303	1.380	11.934	1.408
	30	13.142	1.237	12.892	1.263	12.517	1.302	12.141	1.328
	40	14.093	1.116	13.824	1.139	13.422	1.174	13.019	1.198
	47	14.267	0.935	13.995	0.954	13.588	0.984	13.180	1.004
	50	13.651	0.879	13.391	0.897	13.001	0.925	12.611	0.943
	65	13.106	0.804	12.856	0.821	12.481	0.846	12.107	0.863

Remarks:
TC: Total Capacity (Gross) (kBtu/h)
SHC: Sensible Heat Capacity (Gross)
PI: Power Input (including the compressor, evap. fan motor & cond. fan motor) (kW)
DB: Dry Bulb Temperature
WB: Wet Bulb Temperature

Ductless SZ R-454B Extended Capacity Charts
18k-230v

Cooling capacity													
AFR	CFM	400			400			400			400		
Indoor temperature	°F DB	70			75			80			85		
	°F WB	59			63			67			71		
Outdoor temperature	°F DB	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)
	5	11.745	9.161	0.691	12.120	9.454	0.720	12.495	9.746	0.735	13.120	10.233	0.771
	15	11.864	9.254	0.705	12.243	9.549	0.735	12.621	9.845	0.750	13.252	10.337	0.787
	25	12.621	9.845	0.735	13.024	10.159	0.765	13.427	10.473	0.781	14.098	10.997	0.820
	35	13.012	10.149	0.782	13.427	10.473	0.814	13.842	10.797	0.831	14.534	11.337	0.872
	45	13.696	10.683	0.850	14.134	11.024	0.885	14.571	11.365	0.903	15.299	11.933	0.948
	55	14.887	11.612	0.934	15.363	11.983	0.972	15.838	12.353	0.992	16.630	12.971	1.042
	65	15.348	11.971	1.061	15.838	12.353	1.105	16.328	12.735	1.128	17.144	13.372	1.184
	75	16.156	12.601	1.105	16.671	13.004	1.151	17.187	13.406	1.175	18.046	14.076	1.233
	85	17.372	13.550	1.256	17.926	13.982	1.308	18.480	14.415	1.335	19.405	15.136	1.402
	95	18.095	14.114	1.336	18.673	14.565	1.392	19.251	15.015	1.420	20.213	15.766	1.491
	105	16.648	12.985	1.403	17.179	13.400	1.461	17.710	13.814	1.491	18.596	14.505	1.566
	115	14.650	11.427	1.473	15.118	11.792	1.534	15.585	12.156	1.566	16.364	12.764	1.644

Heating capacity									
AFR	CFM	400		400		400		400	
Indoor temperature	°F DB	60		65		70		75	
Outdoor temperature	°F DB	TC	IP	TC	IP	TC	IP	TC	IP
		KBtu	KW	KBtu	KW	KBtu	KW	KBtu	KW
	-13	13.412	2.162	12.535	2.229	12.289	2.346	11.797	2.440
	-4	14.902	2.402	13.928	2.477	13.654	2.607	13.108	2.711
	0	16.744	2.427	15.649	2.502	15.342	2.633	14.728	2.739
	5	19.699	2.451	18.410	2.527	18.049	2.660	17.328	2.766
	10	19.742	2.427	18.450	2.502	18.089	2.633	17.365	2.739
	17	19.941	2.396	18.637	2.470	18.271	2.600	17.540	2.704
	20	20.215	2.276	18.893	2.347	18.522	2.470	17.782	2.569
	30	20.841	2.048	19.477	2.112	19.095	2.223	18.331	2.312
	40	21.485	1.844	20.080	1.901	19.686	2.001	18.898	2.081
	47	22.380	1.539	20.916	1.587	20.506	1.670	19.686	1.737
	50	21.261	1.385	19.870	1.428	19.481	1.503	18.702	1.563
	65	19.135	1.247	17.883	1.285	17.533	1.353	16.831	1.407

Remarks:
TC: Total Capacity (Gross) (kBtu/h)
SHC: Sensible Heat Capacity (Gross)
PI: Power Input (including the compressor, evap. fan motor & cond. fan motor) (kW)
DB: Dry Bulb Temperature
WB: Wet Bulb Temperature

Ductless SZ R-454B Extended Capacity Charts
24k-230v

Cooling capacity													
AFR	CFM	647			647			647			647		
Indoor temperature	°F DB	70			75			80			85		
	°F WB	59			63			67			71		
Outdoor temperature	°F DB	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)	TC(KBtu)	SHC(KBtu)	IP(KW)
	5	13.459	10.901	0.958	14.791	11.594	0.998	15.621	12.086	1.018	16.965	12.171	1.069
	15	14.600	10.867	0.977	15.600	11.641	1.018	16.300	12.012	1.039	17.200	12.060	1.091
	25	18.200	13.200	1.018	19.511	13.273	1.060	20.242	13.855	1.082	20.629	13.990	1.136
	35	17.350	12.843	1.083	18.724	12.991	1.128	21.618	14.407	1.151	23.279	14.505	1.209
	45	17.838	13.044	1.177	18.901	13.502	1.226	20.873	14.379	1.251	22.107	14.430	1.314
	55	17.466	13.008	1.293	18.235	13.179	1.347	21.001	14.232	1.375	22.700	14.510	1.444
	65	17.997	13.057	1.470	18.500	13.899	1.531	21.600	14.637	1.562	23.245	14.730	1.640
	75	18.699	13.679	1.531	19.921	13.985	1.595	22.174	14.618	1.627	23.569	14.914	1.709
	85	20.122	14.382	1.740	21.240	14.602	1.812	24.062	15.531	1.849	25.093	15.610	1.942
	95	21.002	14.870	1.851	22.302	15.121	1.928	24.100	15.573	1.967	25.912	15.762	2.066
	105	18.217	13.380	1.943	19.896	13.930	2.024	21.515	14.461	2.066	23.670	14.864	2.169
	115	14.479	11.536	2.041	15.292	11.884	2.126	16.330	12.257	2.169	18.277	12.788	2.277

Heating capacity									
AFR	CFM	647		647		647		647	
Indoor temperature	°F DB	60		65		70		75	
Outdoor temperature	°F DB	TC	IP	TC	IP	TC	IP	TC	IP
		KBtu	KW	KBtu	KW	KBtu	KW	KBtu	KW
	-13	12.041	2.609	11.987	2.620	11.810	2.630	11.720	2.714
	-4	14.431	2.471	14.333	2.481	13.959	2.562	13.618	2.641
	0	18.012	2.786	17.328	2.853	17.078	2.942	16.680	3.026
	5	21.267	2.946	20.344	3.061	20.196	3.125	19.609	3.256
	10	22.047	2.854	21.748	2.936	21.208	3.032	21.148	3.064
	17	22.983	2.947	22.605	3.028	22.220	3.118	21.723	3.174
	20	24.660	3.040	24.120	3.113	23.527	3.154	22.775	3.161
	30	26.097	2.971	25.557	3.054	24.833	3.086	24.086	3.088
	40	27.277	2.657	26.712	2.689	25.956	2.714	25.176	2.750
	47	25.700	1.924	25.600	2.071	25.200	2.187	25.100	2.369
	50	25.000	1.710	24.900	1.812	24.897	1.830	24.800	1.893
	65	23.700	1.295	23.400	1.408	23.051	1.504	22.800	1.583