

Compressor data sheet

1. Compressor type

Model	F265E1H-USCL
Winding	AI
Rated voltage V/Hz	115V-127V/60Hz
Refrigerant	R600a
Cylinder volume(cm ³)	6.5cc
Pressure type	LBP
Motor type	RSIR

2、Data sheet (Mark: input power, current, COP were tested with PTC)

Test condition:		LBP – ASHRAE		(condensing: 65.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			Input		Gas Flow		Efficiency	
	≥95%			≤115%	≤110%	≥95%		≥97.5%	
	℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wb]
-35.0	49.744	169.726	42.979	64.518	1.054	0.535	0.771	2.731	0.666
-30.0	77.335	263.866	66.817	78.797	1.288	0.832	0.981	3.349	0.848
-25.0	109.268	372.824	94.408	93.721	1.532	1.175	1.166	3.978	1.007
-20.0	146.260	499.041	126.369	108.972	1.781	1.573	1.342	4.580	1.160
-15.0	189.026	644.956	163.318	124.231	2.030	2.033	1.522	5.192	1.315
-10.0	238.279	813.009	205.873	139.183	2.275	2.562	1.712	5.841	1.479

Test condition:		LBP – ASHRAE		(condensing: 60.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			input		Current	Gas flow	Efficiency	
	≥ 95%			≤ 115%		≤ 110%	≥ 95%	≥ 97.5%	
	℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/h]
-35.0	53.535	182.662	46.254	63.680	1.041	0.576	0.841	2.868	0.726
-30.0	81.130	276.816	70.096	77.290	1.263	0.872	1.050	3.582	0.907
-25.0	113.069	385.791	97.692	91.382	1.494	1.216	1.237	4.222	1.069
-20.0	150.067	512.028	129.658	105.640	1.727	1.614	1.421	4.847	1.227
-15.0	192.838	657.965	166.612	119.746	1.957	2.074	1.610	5.495	1.391
-10.0	242.099	826.042	209.174	133.382	2.180	2.603	1.815	6.193	1.568

Test condition:		LBP – ASHRAE		(condensing: 55.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			Input	Current	Gas Flow	Efficiency		
	≥95%			≤115%	≤110%	≥95%	≥97.5%		
℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wh]	[Kcal/Wh]
-35.0	57.325	195.592	49.529	62.734	1.025	0.616	0.914	3.118	0.790
-30.0	84.924	289.759	73.374	75.630	1.236	0.913	1.123	3.831	0.970
-25.0	116.867	398.750	100.973	88.848	1.452	1.257	1.315	4.488	1.136
-20.0	153.870	525.003	132.943	102.070	1.668	1.655	1.507	5.144	1.302
-15.0	196.647	670.960	169.903	114.978	1.879	2.114	1.710	5.836	1.478
-10.0	245.914	839.060	212.470	127.256	2.080	2.644	1.932	6.593	1.670

Test condition:		LBP – ASHRAE		(condensing: 50.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			Input	Current	Gas Flow	Efficiency		
	≥95%			≤115%	≤110%	≥95%	≥97.5%		
℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wh]	[Kcal/Wh]
-35.0	61.113	208.518	52.802	61.672	1.008	0.657	0.991	3.381	0.856
-30.0	88.715	302.695	76.650	73.812	1.206	0.954	1.202	4.101	1.038
-25.0	120.662	411.698	104.252	86.112	1.407	1.297	1.401	4.781	1.211
-20.0	157.669	537.968	136.226	98.254	1.606	1.695	1.605	5.475	1.386
-15.0	200.452	683.943	173.191	109.922	1.797	2.155	1.824	6.222	1.576
-10.0	249.725	852.063	215.763	120.798	1.974	2.685	2.067	7.054	1.786

Test condition:		LBP – ASHRAE		(condensing: 45.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			Input	Current	Gas Flow	Efficiency		
	≥95%			≤115%	≤110%	≥95%	≥97.5%		
℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wh]	[kcal/Wh]
-35.0	64.900	221.437	56.073	60.489	0.989	0.698	1.073	3.661	0.927
-30.0	92.504	315.623	79.923	71.828	1.174	0.995	1.288	4.394	1.113
-25.0	124.454	424.638	107.528	83.167	1.359	1.338	1.496	5.106	1.293
-20.0	161.466	550.920	139.506	94.186	1.539	1.736	1.714	5.849	1.481
-15.0	204.253	696.911	176.475	104.570	1.709	2.196	1.953	6.665	1.688
-10.0	253.532	865.050	219.051	114.000	1.863	2.726	2.224	7.588	1.921

Test condition:		LBP – ASHRAE		(condensing: 40.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			Input	Current	Gas Flow	Efficiency		
	≥95%			≤115%	≤110%	≥95%	≥97.5%		
	℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wh]
-35.0	68.685	234.352	59.343	59.177	0.967	0.739	1.161	3.960	1.003
-30.0	96.291	328.544	83.195	69.673	1.139	1.035	1.382	4.716	1.194
-25.0	128.244	437.567	110.803	80.006	1.308	1.379	1.603	5.469	1.385
-20.0	165.258	563.862	142.783	89.859	1.469	1.777	1.839	6.265	1.589
-15.0	208.050	709.867	179.755	98.916	1.617	2.237	2.103	7.176	1.817
-10.0	257.333	878.022	222.336	106.857	1.746	2.767	2.408	8.217	2.081

Test condition:		LBP – ASHRAE		(condensing: 35.0 ℃)					
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Evaporating	Capacity			Input	Current	Gas Flow	Efficiency		
	≥95%			≤115%	≤110%	≥95%	≥97.5%		
℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wh]	[Kcal/Wh]
-35.0	72.468	247.261	62.612	57.729	0.944	0.779	1.255	4.283	1.085
-30.0	100.075	341.457	86.465	67.338	1.101	1.076	1.486	5.071	1.284
-25.0	132.030	450.488	114.074	76.623	1.252	1.420	1.723	5.879	1.489
-20.0	169.048	576.792	146.057	85.267	1.394	1.818	1.983	6.765	1.713
-15.0	211.843	722.809	183.032	92.952	1.519	2.278	2.279	7.776	1.969
-10.0	261.131	890.978	225.617	99.362	1.624	2.808	2.628	8.967	2.271

Test condition:		LBP – ASHRAE							
115V/60Hz		(subcooling/suction/ambient 32.2℃)							
Condition	Capacity			Input	Current	Gas Flow	Efficiency		
	≥95%			≤115%	≤110%	≥95%	≥97.5%		
℃	[W]	[BTU/h]	[Kcal/h]	[W]	[A]	[kg/h]	[W/W]	[BTU/Wh]	[Kcal/Wh]
ASHRAE 54.4/-23.3	129.300	441.172	111.715	93.000	1.520	1.390	1.390	4.744	1.201
AHAM 40.6/-23.3	139.770	476.896	120.761	83.863	1.371	1.503	1.667	5.687	1.440
Refrigerator 38/-30	97.805	333.710	84.503	68.761	1.124	1.052	1.422	4.853	1.229

Remark: Above curve data only for reference not IQC items

