

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

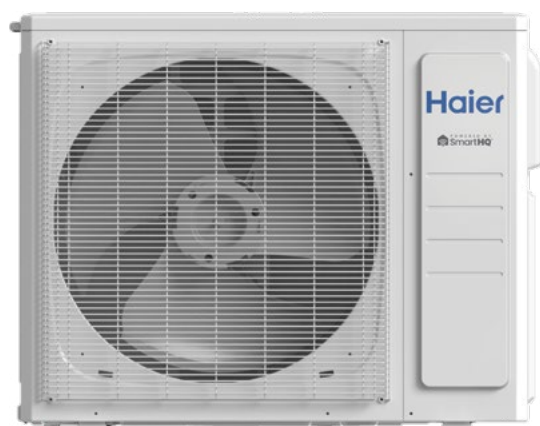
Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

**2Q20RT2BEA****Outdoor Accessories**

Front Wind Baffle	UAWB31WA
Side Wind Baffle	UASWB31WA
Back Wind Baffle	UAWB31WA
Top Cover	UATC31WA
Central Controller	UACT32A

Specifications

Operating Range	Cooling without Wind Baffle °F (°C)	14~115°F (-10~46°C)
	Heating °F	-22~75°F (-30~24°C)
Power	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1
	Operating Voltage Range	187-253 VAC
Cooling Non-Ducted	Rated Capacity Btu/hr	18,000
	Capacity Range Btu/hr	4,000-19,000
	SEER2 / EER2	20.6/12.3
	Rated Power Input W	1,463
Heating Non-Ducted	Rated Heating capacity 47°F Btu/hr	22,000
	Heating Capacity Range Btu/hr	4,000-23,000
	COP @ 5°F	1.8
	HSPF2 (IV) / HSPF2(V)	10.5/8.0
Cooling Ducted	Rated Capacity Btu/hr	17,000
	Capacity Range Btu/hr	4,000-18,000
	SEER2 / EER2	17.6/10.8
	Rated Power Input W	1,574
Heating Ducted	Rated Heating capacity 47°F Btu/hr	22,000
	Heating Capacity Range Btu/hr	4,000-23,000
	COP @ 5°F	1.8
	HSPF2 (IV) / HSPF2(V)	10.5/8.0
Outdoor Unit	Rated Power Input W	1,791
	Compressor	DC Inverter Rotary
	Maximum Fuse Size A	30
	Minimum Circuit Amp A	20
Refrigerant Line	Outdoor Noise Level dB	57
	Dimension: HxWxD in (mm)	30 1/8 x 37 3/16 x 15 13/16 (765 x 945 x 402)
	Carton Dimension: HxWxD in (mm)	33 1/16 x 40 13/16 x 18 13/16 (840 x 1036 x 478)
	Weight Ship / Net – lbs (kg)	130/148 (59/67)
Refrigerant Line	Basepan Heater	Yes
	Refrigerant	R454B
	Connections	Flare
	Liquid O.D. in	1/4 • 1/4
	Suction O.D. in	3/8 • 3/8
	Factory Charge Oz	60
	Maximum Line Length Ft / m	164/50
	Maximum Height Ft / m	50/15
	Minimum Line Length for Each Individual Indoor Unit Ft / m	10/3
	Maximum Line Length for Each Individual Indoor Unit Ft / m	82/25
	Maximum Line Length without Additional Charge Ft / m	66/20



MULTI-ZONE DUCTLESS HEAT PUMP SYSTEM

OUTDOOR

2

ZONE

2Q20RT2BEA Lineset Adapter Application Guide

Combinations		
Two Zone	Port B	Port A
	Port Size: 1/4" x 3/8"	Port Size: 1/4" x 3/8"
	7K	7K
	9K	7K
	9K	9K
	12K	7K
	12K	9K
	12K	12K
	15K	7K
	15K	9K

No adapters required/shipped



2Q20RT2BEA**Heating Capacity Data (Non-Ducted)**

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			79		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-22°F (-30°C)	14,630	2,712	1.58	14,486	2,767	1.53	14,342	2,853	1.47	14,621	3,003	1.43	13,780	3,063	1.32	13,642	3,094	1.29	13,506	3,125	1.27
-15°F (-26°C)	17,842	2,767	1.89	17,665	2,824	1.83	17,490	2,911	1.76	16,245	3,064	1.55	16,805	3,126	1.58	16,637	3,157	1.54	16,470	3,188	1.51
-5°F (-21°C)	18,781	2,824	1.95	18,595	2,881	1.89	18,411	2,970	1.82	18,050	3,127	1.69	17,689	3,189	1.63	17,512	3,221	1.59	17,337	3,253	1.56
0°F (-18°C)	19,770	2,881	2.01	19,574	2,940	1.95	19,380	3,031	1.87	19,000	3,191	1.74	18,620	3,254	1.68	18,434	3,287	1.64	18,249	3,320	1.61
5°F (-15°C)	20,810	2,940	2.07	20,604	3,000	2.01	20,400	3,093	1.93	20,000	3,256	1.80	19,600	3,321	1.73	19,404	3,354	1.70	19,210	3,388	1.66
14°F (-10°C)	21,366	2,658	2.36	21,155	2,712	2.29	20,945	2,796	2.20	20,535	2,943	2.04	20,124	3,002	1.96	19,923	3,032	1.93	19,724	3,062	1.89
23°F (-5°C)	21,881	2,369	2.71	21,665	2,418	2.63	21,450	2,493	2.52	21,030	2,624	2.35	20,609	2,676	2.26	20,403	2,703	2.21	20,199	2,730	2.17
32°F (0°C)	22,375	2,078	3.15	22,154	2,121	3.06	21,934	2,186	2.94	21,504	2,301	2.74	21,074	2,347	2.63	20,864	2,371	2.58	20,655	2,394	2.53
41°F (5°C)	22,869	1,787	3.75	22,643	1,823	3.64	22,419	1,880	3.49	21,979	1,979	3.25	21,540	2,018	3.13	21,324	2,038	3.07	21,111	2,059	3.00
47°F (8°C)	22,891	1,573	4.26	22,664	1,605	4.14	22,440	1,655	3.97	22,000	1,742	3.70	21,560	1,777	3.55	21,344	1,795	3.48	21,131	1,813	3.42
55°F (13°C)	23,578	1,542	4.48	23,344	1,573	4.35	23,113	1,622	4.18	22,660	1,707	3.89	22,207	1,742	3.74	21,985	1,759	3.66	21,765	1,777	3.59
65°F (18°C)	22,399	1,311	5.01	22,177	1,337	4.86	21,958	1,379	4.67	21,527	1,451	4.35	21,096	1,480	4.18	20,885	1,495	4.09	20,677	1,510	4.01
75°F (24°C)	21,279	1,166	5.35	21,068	1,190	5.19	20,860	1,227	4.98	20,451	1,292	4.64	20,042	1,317	4.46	19,841	1,331	4.37	19,643	1,344	4.28

Cooling Capacity Data (Non-Ducted)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	64 / 53			68 / 57			72 / 61			77 / 64			80 / 67			82 / 70			86 / 72		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
14°F (-10°C)	13,324	630	21.14	15,676	716	21.88	17,039	770	22.12	17,936	802	22.35	18,490	819	22.58	19,045	835	22.80	19,997	885	22.59
32°F (0°C)	13,879	664	20.92	16,329	754	21.65	17,749	811	21.89	18,683	845	22.12	19,261	862	22.35	19,838	879	22.57	20,830	932	22.35
50°F (10°C)	14,309	698	20.48	16,834	794	21.21	18,298	853	21.44	19,261	889	21.66	19,856	907	21.89	20,452	925	22.10	21,475	981	21.89
68°F (20°C)	14,028	776	18.07	16,504	882	18.71	17,939	948	18.92	18,883	988	19.12	19,467	1,008	19.31	20,051	1,028	19.50	21,054	1,090	19.32
86°F (30°C)	13,620	924	14.74	16,023	1,050	15.26	17,416	1,129	15.43	18,333	1,176	15.59	18,900	1,200	15.75	19,467	1,224	15.90	20,440	1,297	15.75
95°F (35°C)	12,971	1,127	11.51	15,260	1,280	11.92	16,587	1,377	12.05	17,460	1,434	12.17	18,000	1,463	12.30	18,540	1,493	12.42	19,467	1,582	12.30
104°F (40°C)	12,452	1,194	10.43	14,650	1,357	10.79	15,924	1,459	10.91	16,762	1,520	11.03	17,280	1,551	11.14	17,798	1,582	11.25	18,688	1,677	11.14
110°F (43°C)	11,705	1,230	9.51	13,771	1,398	9.85	14,968	1,503	9.96	15,756	1,566	10.06	16,243	1,598	10.17	16,730	1,630	10.27	17,567	1,727	10.17
115°F (46°C)	10,535	1,206	8.74	12,394	1,370	9.05	13,471	1,473	9.14	14,180	1,534	9.24	14,619	1,566	9.34	15,057	1,597	9.43	15,810	1,693	9.34

Heating and cooling capacities and power usage are measured under the assumption of indoor humidity of 46%.

*Cooling capacities under low ambient temperatures below 23°F (-5°C) are tested when using wind baffle on outdoor unit.

2Q20RT2BEA

Heating Capacity Data (Ducted)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			79		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-22°F (-30°C)	14,630	2,712	1.58	14,486	2,767	1.53	14,342	2,853	1.47	14,621	3,003	1.43	13,780	3,063	1.32	13,642	3,094	1.29	13,506	3,125	1.27
-15°F (-26°C)	17,842	2,767	1.89	17,665	2,824	1.83	17,490	2,911	1.76	16,245	3,064	1.55	16,805	3,126	1.58	16,637	3,157	1.54	16,470	3,188	1.51
-5°F (-21°C)	18,781	2,824	1.95	18,595	2,881	1.89	18,411	2,970	1.82	18,050	3,127	1.69	17,689	3,189	1.63	17,512	3,221	1.59	17,337	3,253	1.56
0°F (-18°C)	19,770	2,881	2.01	19,574	2,940	1.95	19,380	3,031	1.87	19,000	3,191	1.74	18,620	3,254	1.68	18,434	3,287	1.64	18,249	3,320	1.61
5°F (-15°C)	20,810	2,940	2.07	20,604	3,000	2.01	20,400	3,093	1.93	20,000	3,256	1.80	19,600	3,321	1.73	19,404	3,354	1.70	19,210	3,388	1.66
14°F (-10°C)	21,366	2,667	2.35	21,155	2,722	2.28	20,945	2,806	2.19	20,535	2,954	2.04	20,124	3,013	1.96	19,923	3,043	1.92	19,724	3,073	1.88
23°F (-5°C)	21,881	2,388	2.68	21,665	2,437	2.60	21,450	2,513	2.50	21,030	2,645	2.33	20,609	2,698	2.24	20,403	2,725	2.19	20,199	2,752	2.15
32°F (0°C)	22,375	2,107	3.11	22,154	2,150	3.02	21,934	2,216	2.90	21,504	2,333	2.70	21,074	2,379	2.60	20,864	2,403	2.54	20,655	2,427	2.49
41°F (5°C)	22,869	1,825	3.67	22,643	1,862	3.56	22,419	1,920	3.42	21,979	2,021	3.19	21,540	2,061	3.06	21,324	2,082	3.00	21,111	2,103	2.94
47°F (8°C)	22,891	1,617	4.15	22,664	1,650	4.02	22,440	1,701	3.87	22,000	1,791	3.60	21,560	1,826	3.46	21,344	1,845	3.39	21,131	1,863	3.32
55°F (13°C)	23,578	1,585	4.36	23,344	1,617	4.23	23,113	1,667	4.06	22,660	1,755	3.78	22,207	1,790	3.64	21,985	1,808	3.56	21,765	1,826	3.49
65°F (18°C)	22,399	1,347	4.87	22,177	1,375	4.73	21,958	1,417	4.54	21,527	1,492	4.23	21,096	1,521	4.06	20,885	1,537	3.98	20,677	1,552	3.90
75°F (24°C)	21,279	1,199	5.20	21,068	1,223	5.05	20,860	1,261	4.85	20,451	1,328	4.51	20,042	1,354	4.34	19,841	1,368	4.25	19,643	1,381	4.17

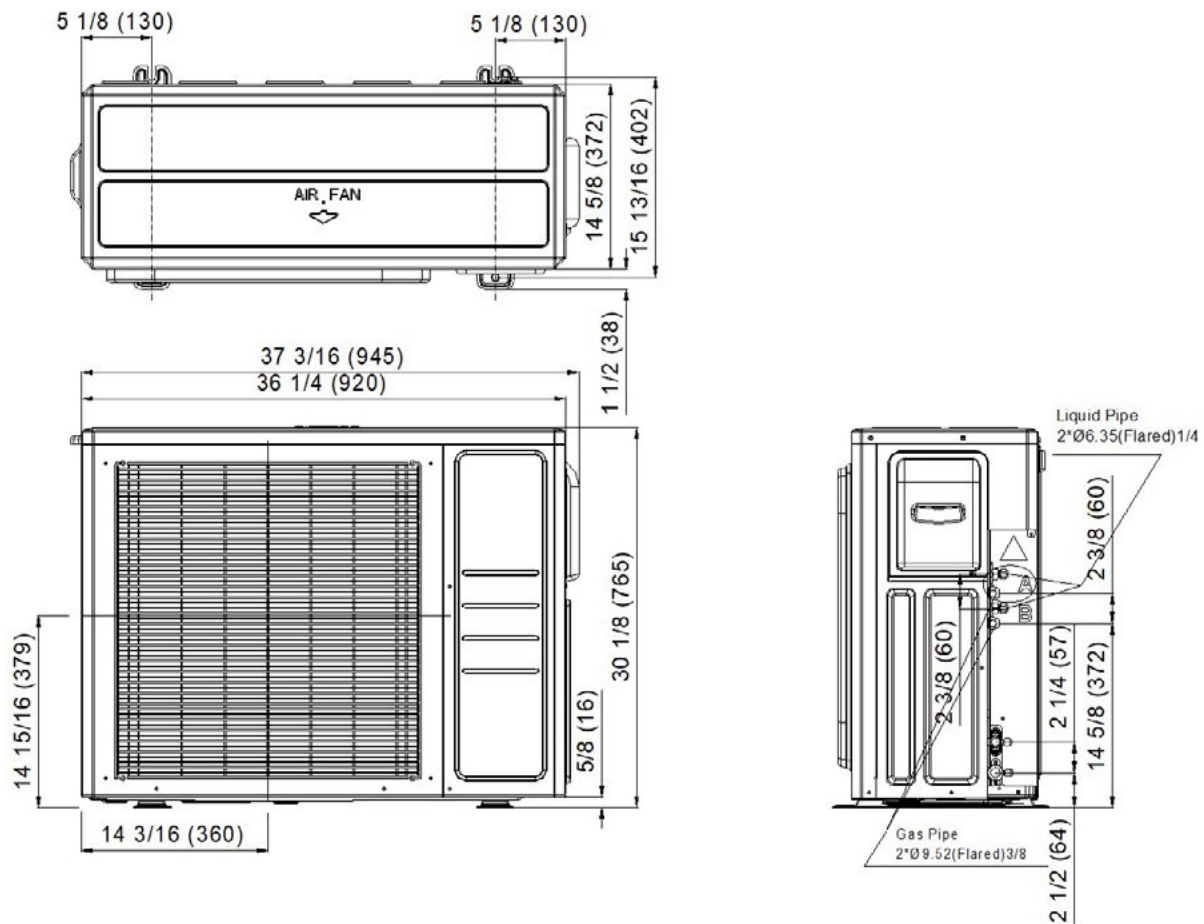
Cooling Capacity Data (Ducted)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	64 / 53			68 / 57			72 / 61			77 / 64			80 / 67			82 / 70			86 / 72		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
14°F (-10°C)	12,584	678	18.56	14,805	771	19.21	16,092	829	19.42	16,939	863	19.63	17,463	881	19.83	17,987	898	20.02	18,886	952	19.83
32°F (0°C)	13,108	714	18.37	15,422	811	19.01	16,763	872	19.22	17,645	908	19.42	18,191	927	19.62	18,736	946	19.82	19,673	1,002	19.63
50°F (10°C)	13,514	751	17.99	15,899	854	18.62	17,281	918	18.82	18,191	956	19.02	18,753	976	19.22	19,316	995	19.41	20,282	1,055	19.22
68°F (20°C)	13,249	835	15.87	15,587	949	16.43	16,942	1,020	16.61	17,834	1,063	16.78	18,386	1,084	16.96	18,937	1,106	17.12	19,884	1,172	16.96
86°F (30°C)	12,863	994	12.94	15,133	1,129	13.40	16,449	1,214	13.55	17,315	1,265	13.69	17,850	1,291	13.83	18,386	1,317	13.96	19,305	1,396	13.83
95°F (35°C)	12,250	1,212	10.11	14,412	1,377	10.46	15,666	1,481	10.58	16,490	1,543	10.69	17,000	1,574	10.80	17,510	1,606	10.91	18,386	1,702	10.80
104°F (40°C)	11,760	1,285	9.15	13,836	1,460	9.48	15,039	1,570	9.58	15,830	1,635	9.68	16,320	1,669	9.78	16,810	1,702	9.88	17,650	1,804	9.78
110°F (43°C)	11,055	1,323	8.35	13,006	1,504	8.65	14,137	1,617	8.74	14,881	1,684	8.84	15,341	1,719	8.93	15,801	1,753	9.01	16,591	1,858	8.93
115°F (46°C)	9,949	1,297	7.67	11,705	1,474	7.94	12,723	1,584	8.03	13,393	1,651	8.11	13,807	1,684	8.20	14,221	1,718	8.28	14,932	1,821	8.20

Heating and cooling capacities and power usage are measured under the assumption of indoor humidity of 46%.

*Cooling capacities under low ambient temperatures below 23°F (-5°C) are tested when using wind baffle on outdoor unit.

2Q20RT2BEA

Note: Dimensions are shown in inches (millimeters)

SUBMITTAL REVISION HISTORY

03-24-25: Submittal release.