DAIKIN

ΤΡΙΚ-ΤΡΑΚ ΧΑΤΖΗΑΓΓΕΛΙΔΗΣ

Refrigeration

Technical Data

Reciprocating Condensing Unit - JEHCCU

EEDEN13-780A

JEHCCU

J&E Hall International for DAIKIN

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JEHCCU

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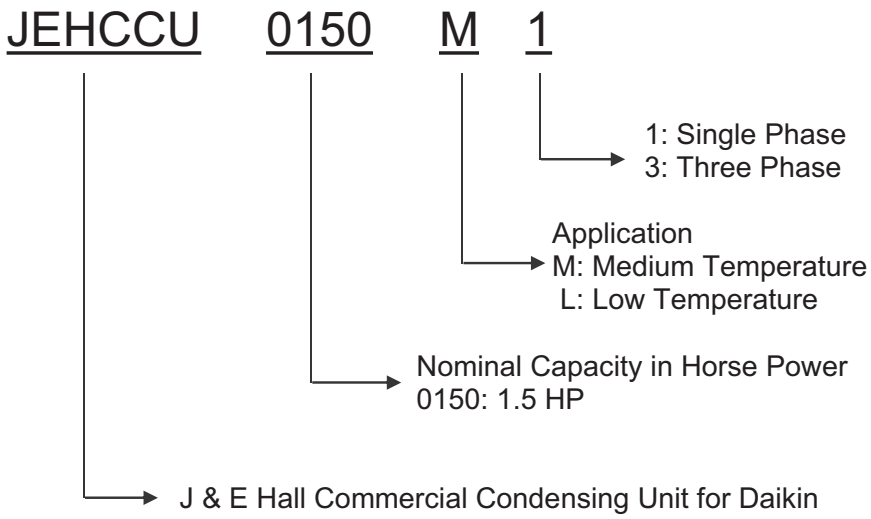
I Reciprocating Condensing Unit

1 Nomenclature



2 Product Overview

● R404 ● R134a ● R407C

Capacity(kW) / Model	0.5	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Medium temperature*															
JEHCCU0050M1	●														
JEHCCU0088M1		●													
JEHCCU0150M1/3		● ●	●												
JEHCCU0225M1/3		●		● ●											
JEHCCU0300M1/3			●		● ●										
JEHCCU0400M3				●		●	●								
JEHCCU0500M3					●			●	●						
JEHCCU0600M3						●		●	●						
JEHCCU0675M3							●		●	●					
JEHCCU0825M3								●		●		●			
JEHCCU1000M3									●					● ●	
Low temperature*															
JEHCCU0075L1	●														
JEHCCU0175L1/3	●														
JEHCCU0225L1/3		●													
JEHCCU0350L3		●													
JEHCCU0400L3			●												
JEHCCU0725L3					●										
JEHCCU0825L3						●									

* Evaporation temperature = -10°C, Outside ambient temperature = 32°C

** Evaporation temperature = -35°C, Outside ambient temperature = 32°C

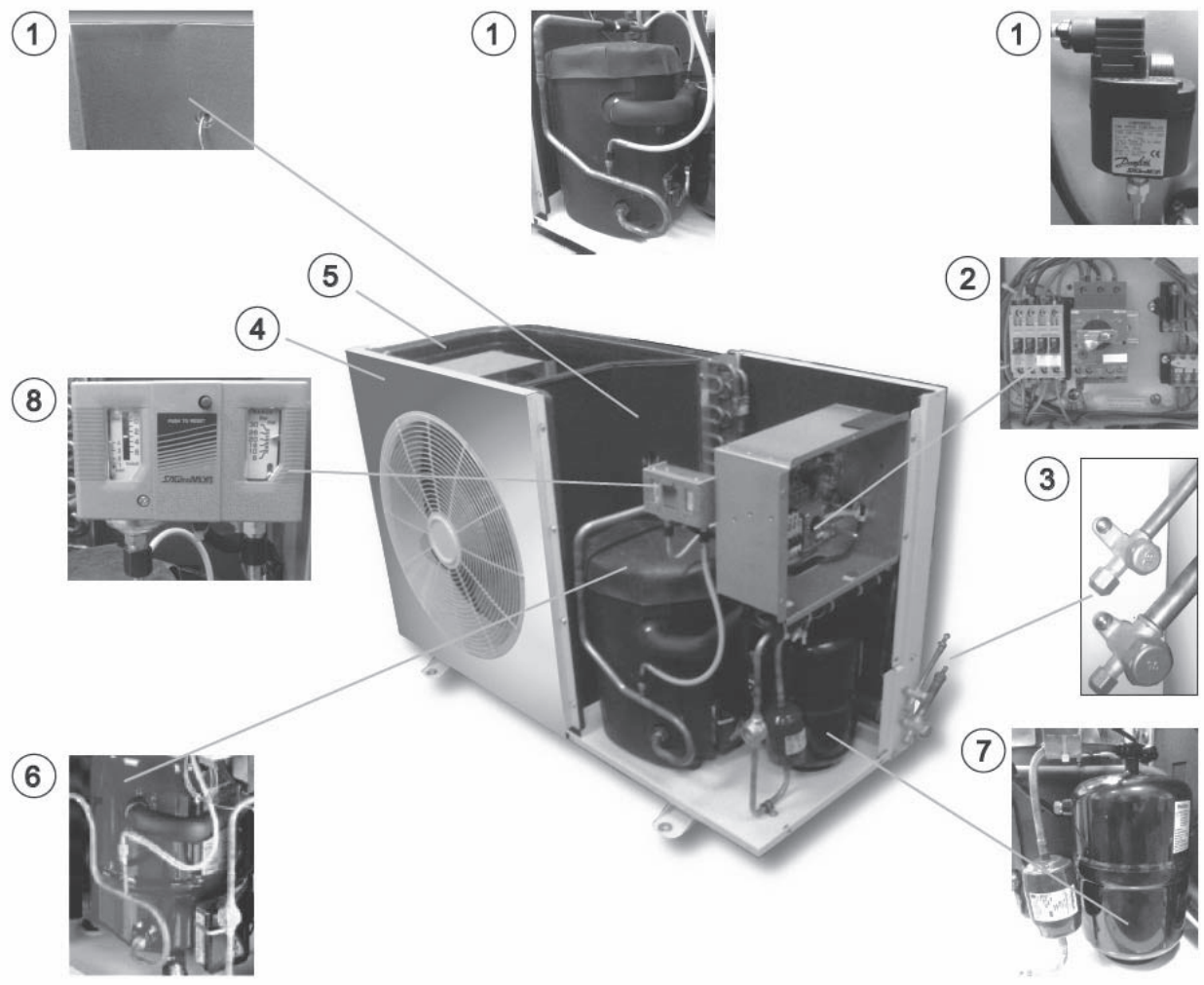
Note: Detailed Capacity Data refer to page 12.

3 Standard Product Configuration

1) Low sound emissions thanks to a sound proofing lining on the housing, a compressor jacket and fan speed controller (Note: except series 1 condensing unit)
2) IP54 rated switch box, with main power switch, magnetic contactor and overcurrent switch
3) External shut off valves for quick installation and easy access and maintenance
4) Weather proof housing made of epoxy coated steel
5) Condenser coil with anti-corrosion treatment "blue fin"
6) Reliable reciprocating compressor for medium and low temperature models with oil sight glass (Note: except series 1 condensing unit)
   Crankcase heater
7) Liquid receiver with fusible plug
8) Dual pressure switch
9) Oil separator and check valve for low temperature models (Note: except series 1 condensing unit)
   Sight glass and filter drier
   Flare adapter for filter drier

Designed for Environmental friendly refrigerant R404A (available for all range condensing units) or R134a and R407C (available for medium temperature application series 2, 3 & 4 condensing units).

Fully factory tested and filled up with nitrogen.



4 Specifications

	Model	Series	Compressor		Oil Charge (Liter)	O/S[g]	Oil Type	Electrical Data							Airflow (m³/h)	Receiver	Connection		Dimensions			Weight (kg)	Sound pressure dB(A) at 1m[c]
			Type	Swept volume m³/h		Oil Charge (Liter)		Power Input	Nominal Current[a] (A)			Lock Rotor current (A)	MFA[b] (A)				Volume (Litre)	Suction (inch)	Liquid (inch)	Width (mm)	Depth (mm)	Height (mm)		
									1[d]	2[e]	3[f]		1[d]	2[e]	3[f]									
Medium temperature	JEHCCU0050M1	1	SC10MLX	1.79	0.60	-	Oil A[h]	230V/1~/50Hz	3.85	-	-	18.4	15	-	-	1910	1.2	3/8	1/4	884	430	489	46	49
	JEHCCU0088M1	1	SC18MLX	3.08	0.60	-		230V/1~/50Hz	4.62	-	-	23.4	15	-	-	1910	1.2	3/8	1/4	884	430	489	46	49
	JEHCCU0150M1	2	MTZ18-5VM	5.26	0.95	-	Oil B[i]	230V/1~/50Hz	7.23	5.30	5.70	40.0	15	15	15	3040	4.6	1/2	3/8	1104	478	650	82	57
	JEHCCU0150M3	2	MTZ18-4VM	5.26	0.95	-		400V/3~/50Hz	3.33	2.54	3.05	20.0	15	15	15	3040	4.6	1/2	3/8	1104	478	650	82	57
	JEHCCU0225M1	2	MTZ28-5VM	8.36	0.95	-		230V/1~/50Hz	11.64	8.26	9.66	51.0	25	20	20	2620	4.6	1/2	3/8	1104	478	650	89	56
	JEHCCU0225M3	2	MTZ28-4VM	8.36	0.95	-		400V/3~/50Hz	4.65	3.41	4.14	23.0	15	15	15	2620	4.6	1/2	3/8	1104	478	650	89	56
	JEHCCU0300M1	2	MTZ36-5VM	10.52	0.95	-		230V/1~/50Hz	15.87	10.76	10.13	60.0	30	25	25	2620	4.6	5/8	3/8	1104	478	650	89	57
	JEHCCU0300M3	2	MTZ36-4VM	10.52	0.95	-		400V/3~/50Hz	5.57	3.91	5.12	30.0	15	15	15	2620	4.6	5/8	3/8	1104	478	650	89	57
	JEHCCU0400M3	3	MTZ50-4VM	14.90	1.80	-		400V/3~/50Hz	6.97	5.28	6.24	48.5	15	15	15	6050	7.6	7/8	1/2	1347	556	884	122	57
	JEHCCU0500M3	3	MTZ64-4VM	18.94	1.80	-		400V/3~/50Hz	8.93	6.78	7.77	64.0	20	20	20	6050	7.6	7/8	1/2	1347	556	884	122	60
	JEHCCU0600M3	3	MTZ72-4VM	21.04	1.80	-		400V/3~/50Hz	9.80	6.62	8.53	80.0	20	20	20	5180	7.6	7/8	1/2	1347	556	884	126	60
	JEHCCU0675M3	3	MTZ81-4VM	23.63	1.80	-		400V/3~/50Hz	11.44	8.23	10.22	80.0	20	20	20	5180	7.6	1 1/8	1/2	1352	556	884	126	62
	JEHCCU0825M3	4	MTZ100-4VM	29.80	3.90	-		400V/3~/50Hz	13.62	9.82	12.04	90.0	25	25	25	6770	14.0	1 1/8	1/2	1261	594	1435	205	62
	JEHCCU1000M3	4	MTZ125-4VM	37.49	3.90	-		400V/3~/50Hz	15.49	9.52	13.17	105.0	30	25	30	6770	14.0	1 1/8	1/2	1261	594	1435	205	62
Low temperature	JEHCCU0075L1	1	SC18CLX	3.08	0.60	-	Oil A[h]	230V/1~/50Hz	3.99	-	-	20.0	15	-	-	1910	1.2	3/8	1/4	884	430	489	46	50
	JEHCCU0175L1	2	NTZ48-5VM	8.40	0.95	0.50	Oil B[i]	230V/1~/50Hz	5.07	-	-	37.0	15	-	-	3040	4.6	5/8	3/8	1104	478	650	86	55
	JEHCCU0175L3	2	NTZ48-4VM	8.40	0.95	0.50		400V/3~/50Hz	2.71	-	-	16.0	15	-	-	3040	4.6	5/8	3/8	1104	478	650	86	55
	JEHCCU0225L1	2	NTZ68-5VM	11.80	0.95	0.50		230V/1~/50Hz	9.81	-	-	53.0	20	-	-	2620	4.6	5/8	3/8	1104	478	650	92	58
	JEHCCU0225L3	2	NTZ68-4VM	11.80	0.95	0.50		400V/3~/50Hz	4.05	-	-	25.0	15	-	-	2620	4.6	5/8	3/8	1104	478	650	92	58
	JEHCCU0350L3	3	NTZ96-4VM	16.70	1.80	0.60		400V/3~/50Hz	4.41	-	-	32.0	15	-	-	6050	7.6	7/8	1/2	1347	556	884	125	58
	JEHCCU0400L3	3	NTZ136-4VM	23.60	1.80	0.60		400V/3~/50Hz	7.21	-	-	51.0	15	-	-	6050	7.6	1 1/8	1/2	1352	556	884	130	58
	JEHCCU0725L3	4	NTZ215-4VM	37.50	3.90	0.60		400V/3~/50Hz	8.72	-	-	74.0	25	-	-	6770	14.0	1 1/8	1/2	1261	594	1435	203	61
	JEHCCU0825L3	4	NTZ271-4VM	47.30	3.90	0.60		400V/3~/50Hz	10.88	-	-	96.0	25	-	-	6770	14.0	1 1/8	1/2	1261	594	1435	203	60

[a] Refer to condition: Outside ambient temperature= 32°C, Evaporation temperature = -10°C (medium temperature application); -35°C (low temperature application)

[b] MFA = Maximum Fuse Amps

[c] Sound pressure level measured in anechoic room

[d] refer to condensing unit charge with R404A

[e] refer to condensing unit charge with R134a

[f] refer to condensing unit charge with R407C

[g] O/S = Oil Separator

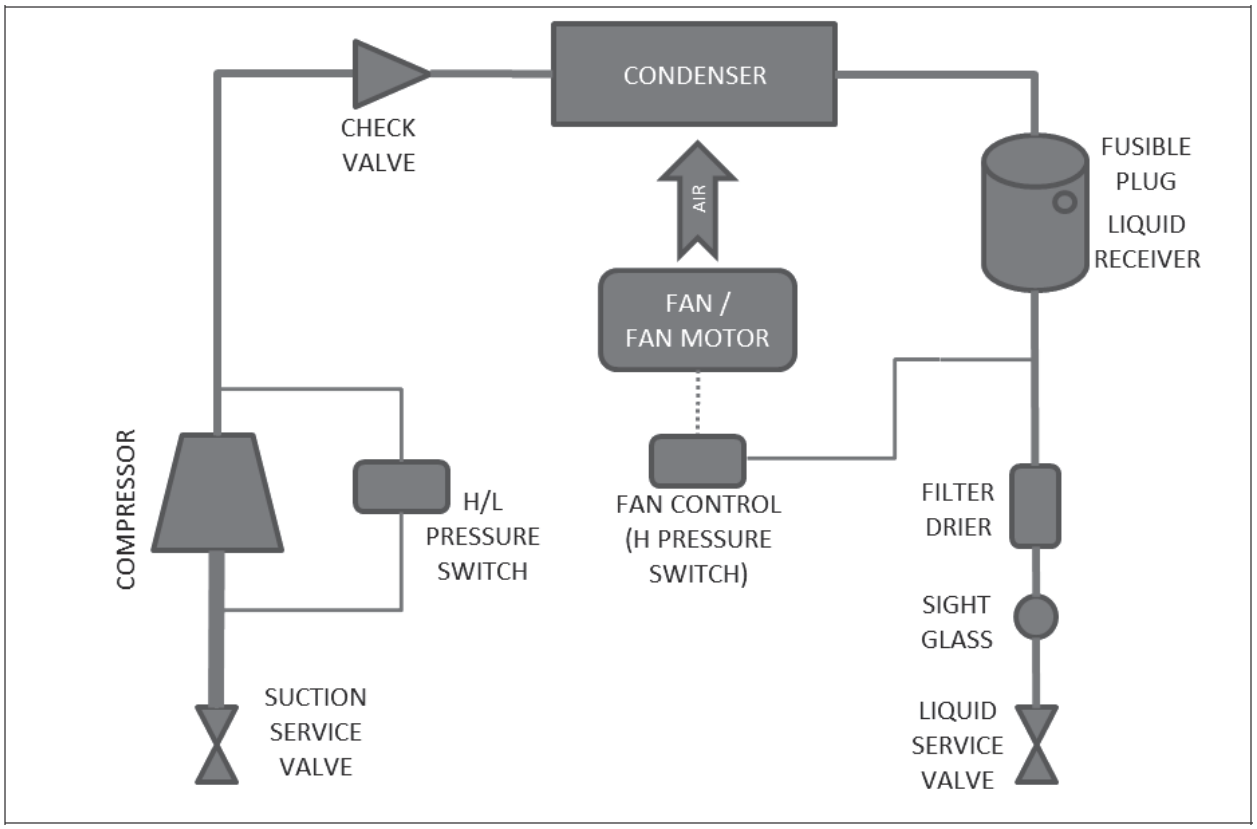
[h] Oil A = Polyester oil (Emkarate RL32H)

[i] Oil B = Polyester oil 160PZ

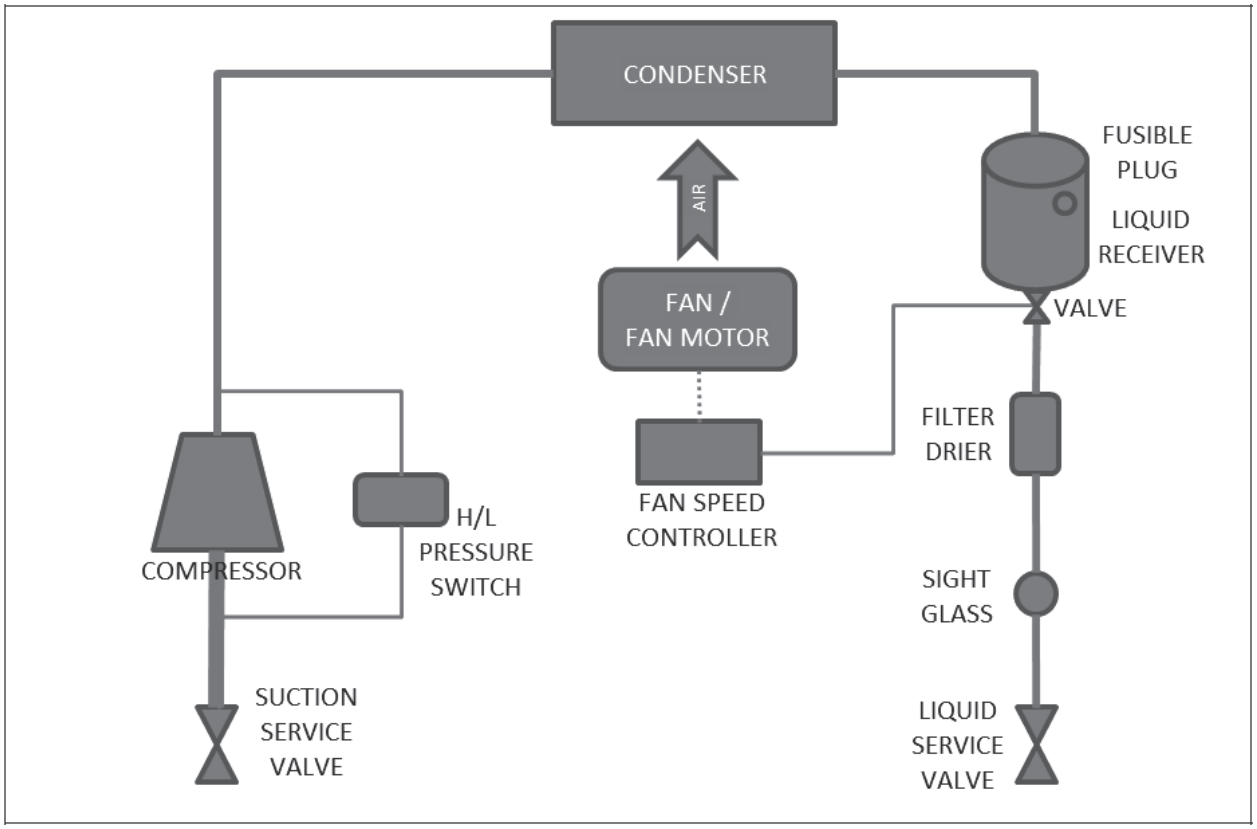
Note: condensing units are pre-charged with oil as stated in table

5 Product System Cycles

Series 1: Medium & Low Temperature Models

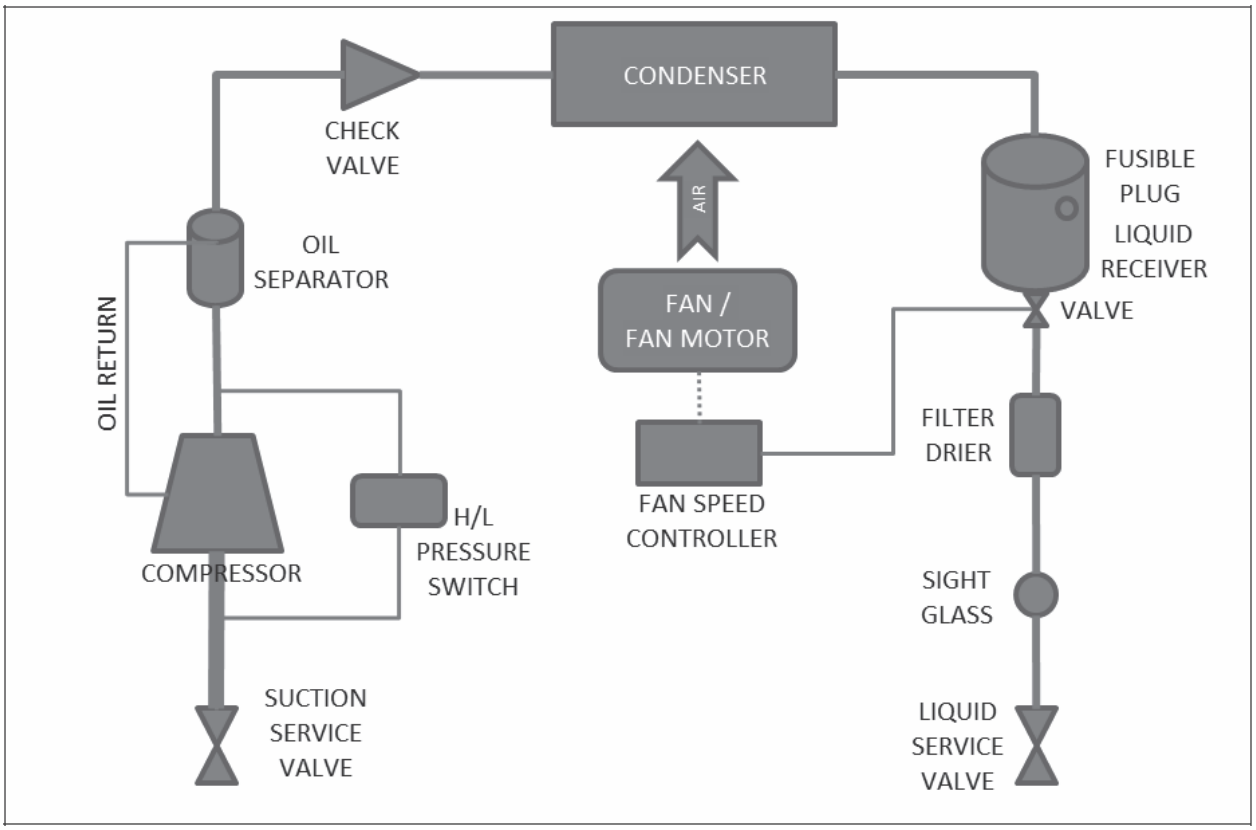


Series 2 & 3: Medium Temperature Models

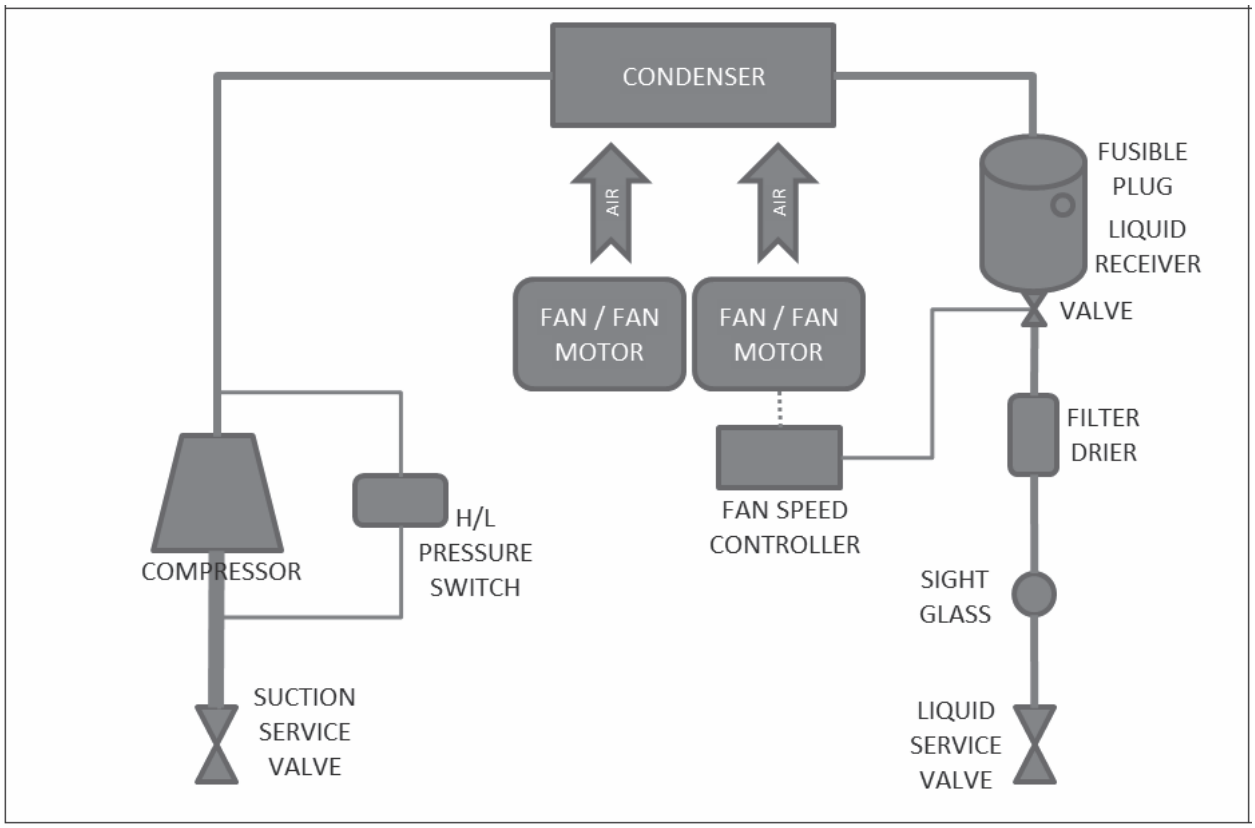


5 Product System Cycles

Series 2 & 3: Low Temperature Models

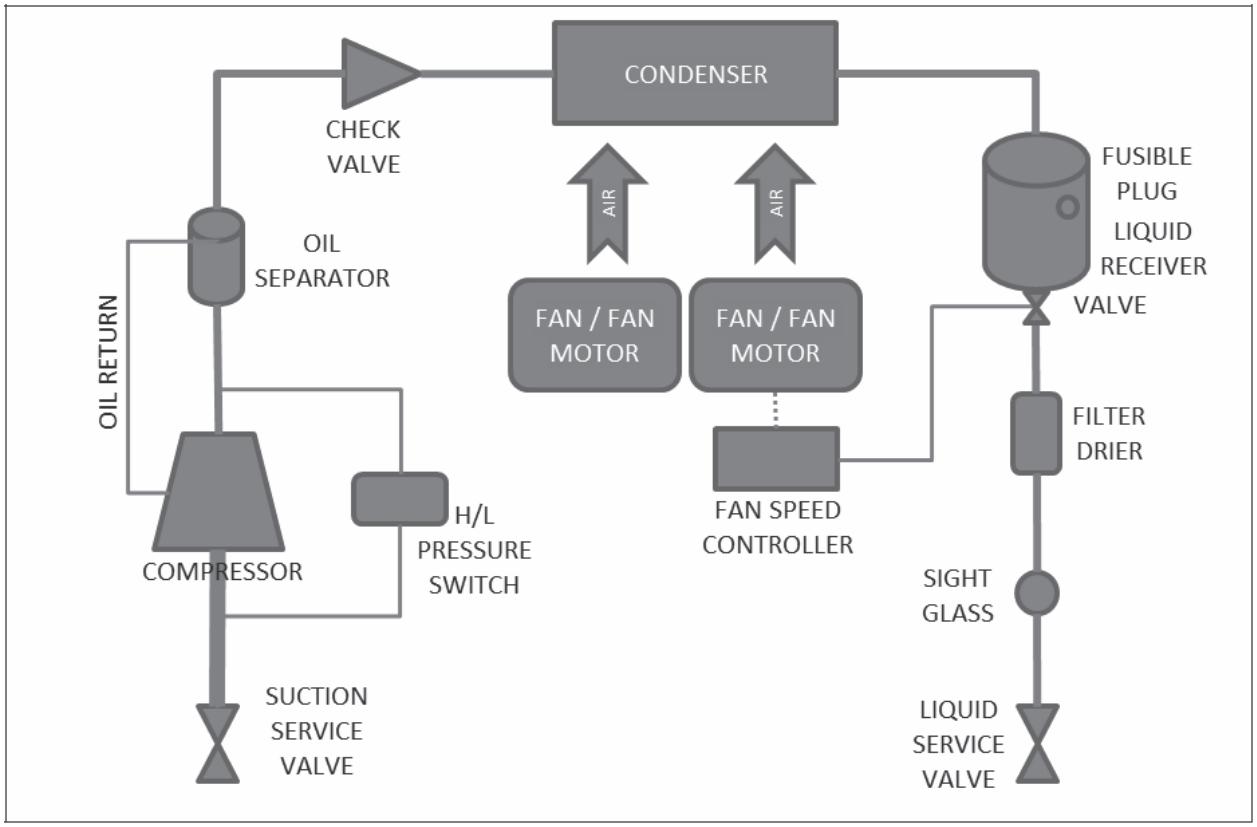


Series 4: Medium Temperature Models



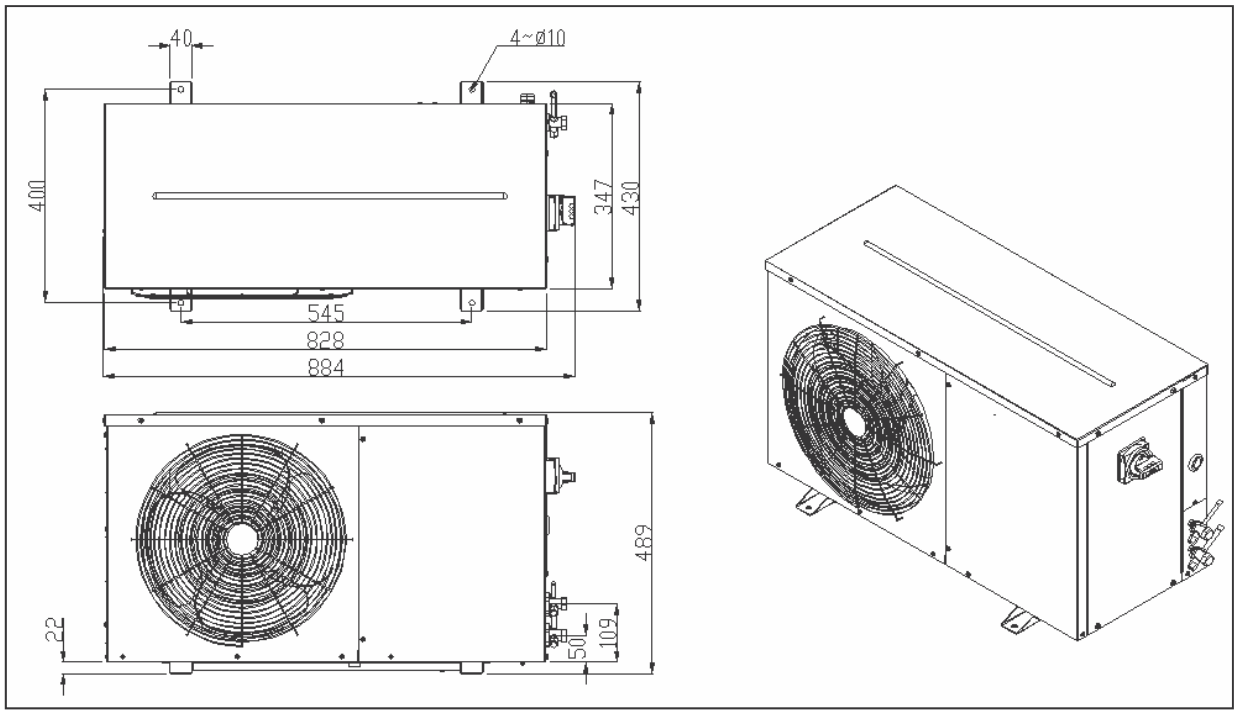
5 Product System Cycles

Series 4: Low Temperature Models



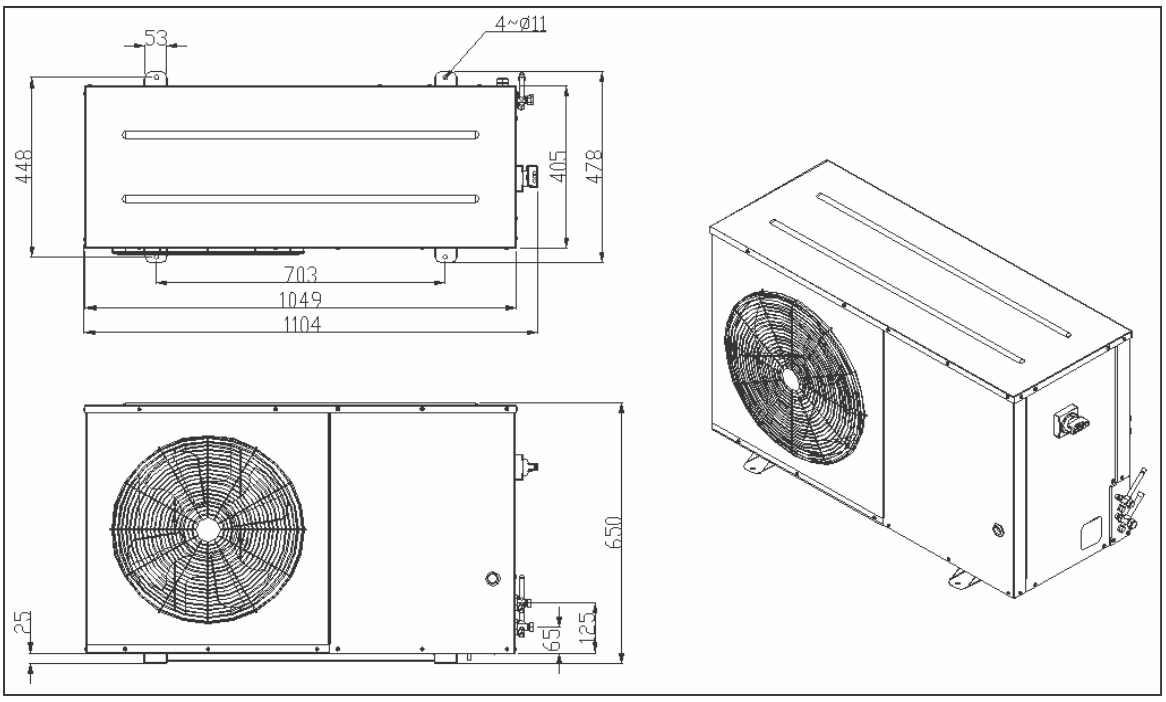
6 Outline Drawings

Series 1 (230V/1~/50Hz): **Medium temperature:** JEHCCU0050M1, JEHCCU0088M1,
Low temperature: JEHCCU0075L1



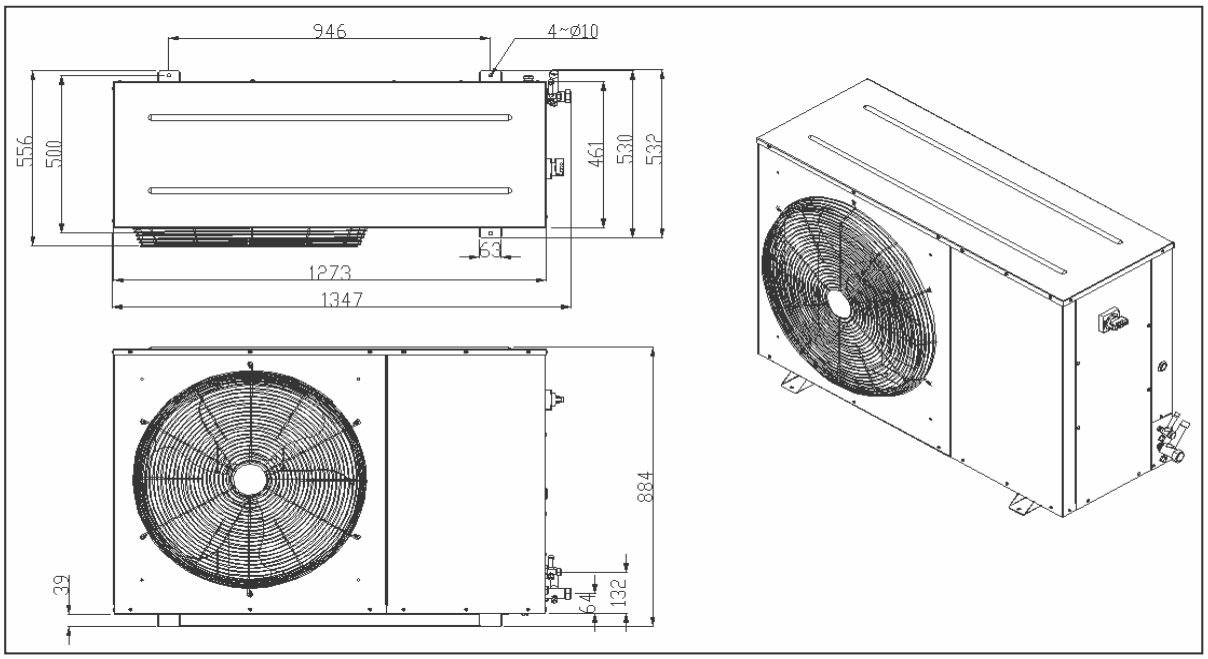
Series 2 (230V/1~/50Hz): **Medium temperature:** JEHCCU0150M1, JEHCCU0225M1, JEHCCU0300M1
Low temperature: JEHCCU0225L1, JEHCCU0175L1

Series 2 (400V/3~/50Hz): **Medium temperature:** JEHCCU0150M3, JEHCCU0225M3, JEHCCU0300M3
Low temperature: JEHCCU0225L3, JEHCCU0175L3

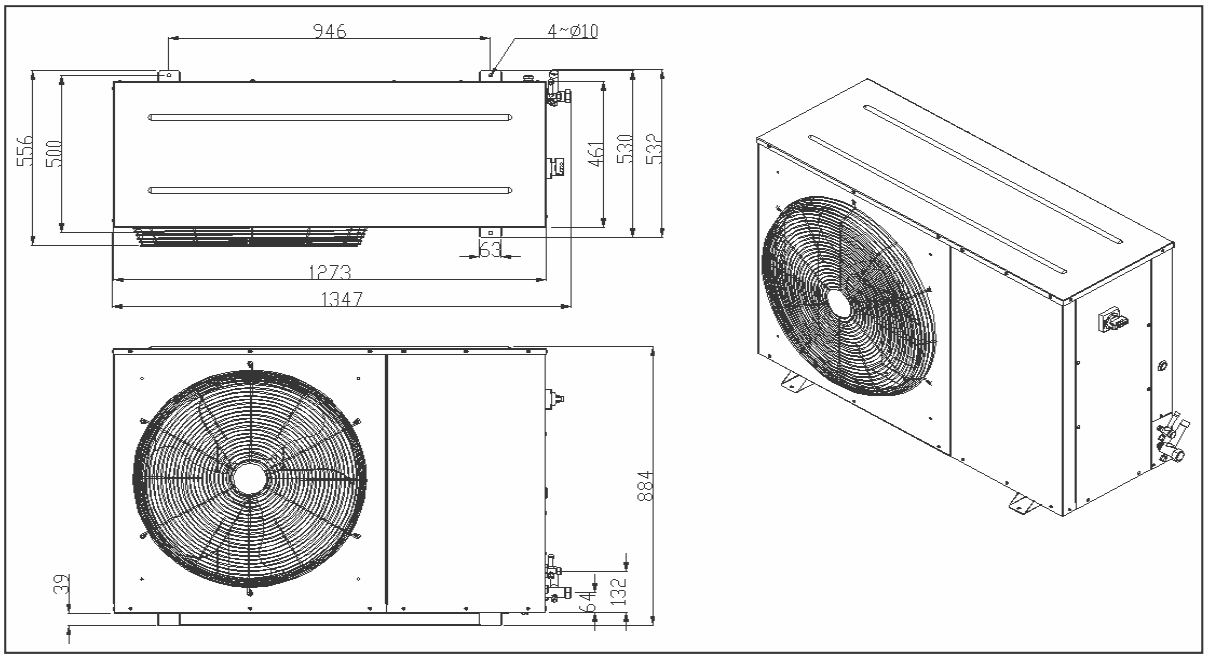


6 Outline Drawings

Series 3 (400V/3~/50Hz): Medium temperature: JEHCCU0400M3, JEHCCU0500M3, JEHCCU0600M3,
Low temperature: JEHCCU0350L3

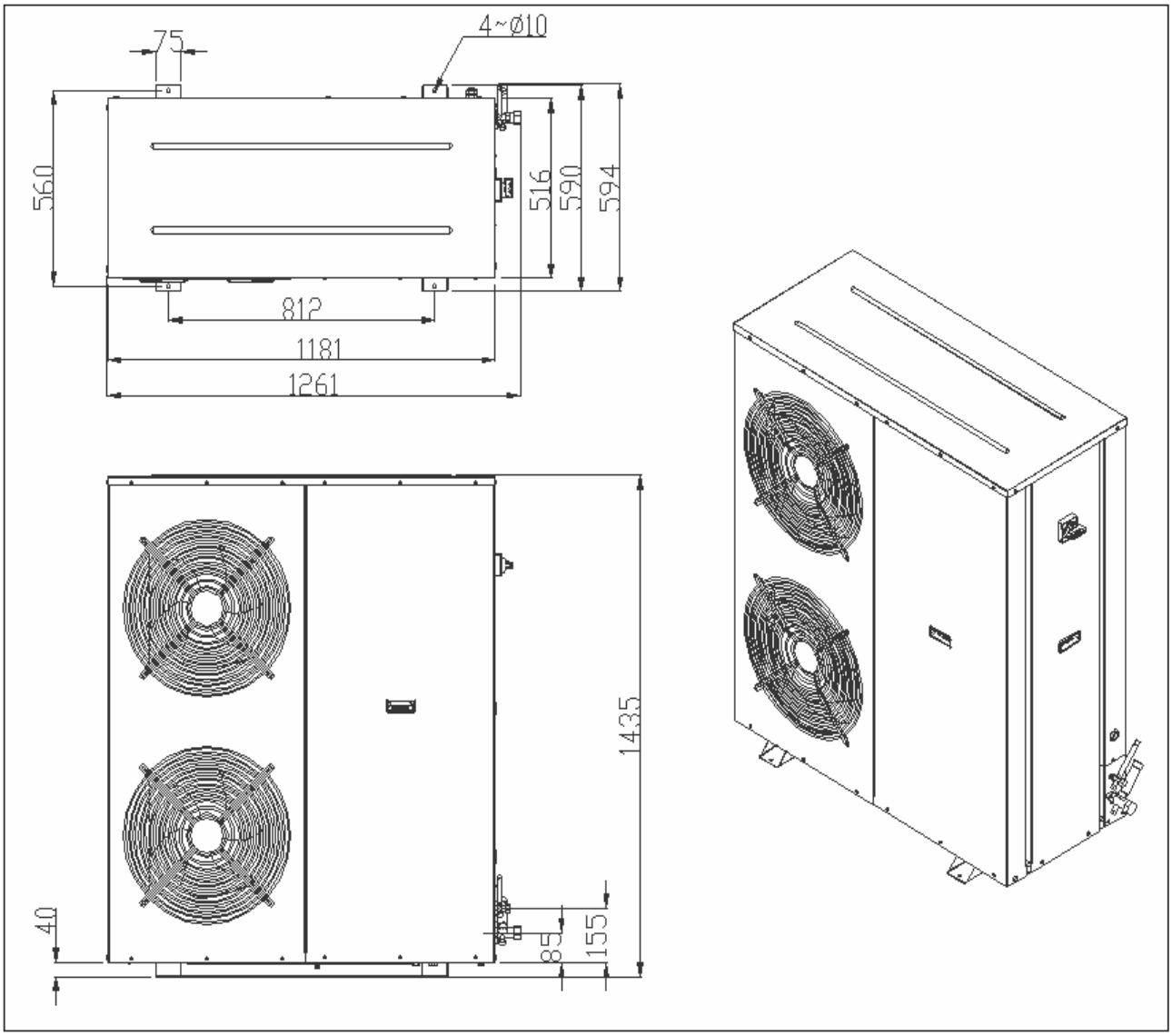


Series 3 (400V/3~/50Hz): Medium temperature: JEHCCU0675M3
Low temperature: JEHCCU0400L3



6 Outline Drawings

Series 4 (400V/3~/50Hz): Medium temperature: JEHCCU0825M3, JEHCCU1000M3
Low temperature: JEHCCU0725L3, JEHCCU0825L3



7 Performance Data

R404A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

MODEL			HP	TE / TA		-45	-40	-35	-30	-25	-20	-15	-10	-5	0
MEDIUM TEMPERATURE	Series 1	JEHCCU0050M1	0.5	27	CC (W)	-	-	-	-	-	694	851	1037	1254	1500
					PC (W)	-	-	-	-	-	492	530	570	611	654
				32	CC (W)	-	-	-	-	-	532	686	871	1085	1330
					PC (W)	-	-	-	-	-	509	548	590	633	679
				38	CC (W)	-	-	-	-	-	391	543	725	937	1179
					PC (W)	-	-	-	-	-	526	569	614	661	710
				43	CC (W)	-	-	-	-	-	246	397	576	786	1026
					PC (W)	-	-	-	-	-	542	587	634	683	735
		JEHCCU0088M1	0.88	27	CC (W)	-	-	-	-	-	1057	1320	1619	1952	2321
					PC (W)	-	-	-	-	-	781	847	918	993	1073
				32	CC (W)	-	-	-	-	-	990	1214	1478	1782	2126
					PC (W)	-	-	-	-	-	790	859	933	1011	1094
				38	CC (W)	-	-	-	-	-	868	1065	1302	1579	1896
					PC (W)	-	-	-	-	-	798	871	949	1031	1118
				43	CC (W)	-	-	-	-	-	787	951	1158	1408	-
					PC (W)	-	-	-	-	-	806	882	963	1049	-
	Series 2	JEHCCU0150M1 JEHCCU0150M3	1.5	27	CC (W)	-	-	-	649	961	1338	1780	2287	2859	3496
					PC (W)	-	-	-	853	945	1040	1137	1237	1339	1444
				32	CC (W)	-	-	-	558	837	1180	1589	2062	2601	3204
					PC (W)	-	-	-	856	959	1063	1169	1276	1385	1495
				38	CC (W)	-	-	-	431	679	987	1355	1783	2271	2819
					PC (W)	-	-	-	865	973	1084	1197	1313	1431	1552
				43	CC (W)	-	-	-	334	552	828	1163	1555	2006	2515
					PC (W)	-	-	-	870	987	1105	1226	1349	1474	1602
		JEHCCU0225M1 JEHCCU0225M3	2.25	27	CC (W)	-	-	-	1172	1722	2341	3031	3790	4620	5519
					PC (W)	-	-	-	1189	1394	1597	1799	1999	2198	2395
				32	CC (W)	-	-	-	977	1491	2074	2728	3451	4245	5108
					PC (W)	-	-	-	1197	1409	1621	1831	2041	2249	2457
				38	CC (W)	-	-	-	819	1293	1826	2420	3073	3787	4560
					PC (W)	-	-	-	1199	1418	1637	1859	2081	2306	2531
				43	CC (W)	-	-	-	649	1087	1583	2135	2743	3408	4131
					PC (W)	-	-	-	1204	1429	1656	1886	2120	2355	2592
		JEHCCU0300M1 JEHCCU0300M3	3	27	CC (W)	-	-	-	1681	2306	3036	3871	4811	5856	7006
					PC (W)	-	-	-	1689	1936	2193	2460	2737	3024	3321
				32	CC (W)	-	-	-	1524	2120	2815	3611	4506	5502	6597
					PC (W)	-	-	-	1716	1957	2213	2484	2770	3071	3387
				38	CC (W)	-	-	-	1281	1869	2546	3314	4171	5119	6156
					PC (W)	-	-	-	1787	2015	2262	2530	2817	3125	3452
				43	CC (W)	-	-	-	1106	1673	2324	3058	3877	4777	5764
					PC (W)	-	-	-	1827	2046	2290	2559	2852	3170	3513

TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

7 Performance Data

R404A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

MODEL			HP	TE / TA		-45	-40	-35	-30	-25	-20	-15	-10	-5	0
MEDIUM TEMPERATURE	Series 3	JEHCCU0400M3	4	27	CC (W)	-	-	-	2434	3338	4434	5735	7248	8983	10946
					PC (W)	-	-	-	2155	2450	2737	3016	3288	3551	3807
				32	CC (W)	-	-	-	2201	3042	4059	5265	6672	8288	10115
					PC (W)	-	-	-	2159	2471	2777	3077	3369	3654	3934
				38	CC (W)	-	-	-	1868	2630	3548	4637	5912	7376	9052
					PC (W)	-	-	-	2154	2493	2827	3155	3476	3791	4098
				43	CC (W)	-	-	-	1597	2293	3130	4129	5304	6678	8247
					PC (W)	-	-	-	2138	2502	2861	3214	3559	3894	4223
		JEHCCU0500M3	5	27	CC (W)	-	-	-	3055	4125	5413	6929	8683	10676	12916
					PC (W)	-	-	-	2609	3037	3463	3890	4318	4752	5191
				32	CC (W)	-	-	-	2732	3737	4943	6364	8017	9901	12035
					PC (W)	-	-	-	2593	3047	3501	3955	4410	4868	5330
				38	CC (W)	-	-	-	2318	3242	4342	5632	4311	8844	10782
					PC (W)	-	-	-	2552	3043	3535	4027	4525	5018	5520
				43	CC (W)	-	-	-	1974	2830	3848	5045	6438	8052	9878
					PC (W)	-	-	-	2499	3024	3549	4074	4598	5122	5650
		JEHCCU0600M3	6	27	CC (W)	-	-	-	3326	4604	6076	7744	9606	11664	13916
					PC (W)	-	-	-	3053	3517	4001	4505	5029	5573	6137
				32	CC (W)	-	-	-	2979	4181	5568	7140	8897	10839	12966
					PC (W)	-	-	-	3147	3608	4093	4604	5139	5700	6285
				38	CC (W)	-	-	-	2471	3635	4943	6397	7995	9739	11627
					PC (W)	-	-	-	3222	3680	4173	4701	5264	5862	6495
				43	CC (W)	-	-	-	2093	3199	4431	5787	7273	8880	10616
					PC (W)	-	-	-	3302	3757	4254	4792	5371	5990	6653
		JEHCCU0675M3	6.75	27	CC (W)	-	-	-	3656	5119	6756	8569	10556	12719	15056
					PC (W)	-	-	-	3242	3840	4447	5065	5692	6330	6977
				32	CC (W)	-	-	-	3172	4593	6164	7885	9756	11777	13948
					PC (W)	-	-	-	3279	3911	4548	5190	5837	6489	7146
				38	CC (W)	-	-	-	2694	4060	5546	7152	8878	10724	12690
					PC (W)	-	-	-	3453	4047	4666	5310	5979	6673	7392
				43	CC (W)	-	-	-	2244	3567	4987	6500	8107	9809	11606
					PC (W)	-	-	-	3532	4134	4766	5424	6113	6829	7575
	Series 4	JEHCCU0825M3	8.25	27	CC (W)	-	-	-	3832	5545	7467	9600	11942	14495	17257
					PC (W)	-	-	-	4227	4916	5601	6282	6959	7632	8301
				32	CC (W)	-	-	-	3322	4982	6816	8826	11010	13370	15904
					PC (W)	-	-	-	4340	5013	5696	6389	7092	7805	8528
				38	CC (W)	-	-	-	2809	4349	6043	7893	9897	12057	14371
					PC (W)	-	-	-	4504	5148	5817	6511	7230	7974	8743
				43	CC (W)	-	-	-	-	3800	5396	7121	8966	-	-
					PC (W)	-	-	-	-	5251	5914	6615	7356	-	-
		JEHCCU1000M3	10	27	CC (W)	-	-	-	5786	7709	9811	12094	14556	17199	20021
					PC (W)	-	-	-	5365	6158	7000	7893	8835	9828	10870
				32	CC (W)	-	-	-	4952	6931	9020	11219	13528	15947	18476
					PC (W)	-	-	-	5504	6286	7127	8029	8990	10012	11093
				38	CC (W)	-	-	-	4351	6155	8073	10107	12255	14519	16897
					PC (W)	-	-	-	5627	6424	7281	8198	9175	10212	11309
				43	CC (W)	-	-	-	-	5433	7286	9215	11217	-	-
					PC (W)	-	-	-	-	6546	7407	8336	9329	-	-

TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

7 Performance Data

R404A Low temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

		MODEL	HP	TE / TA		-45	-40	-35	-30	-25	-20	-15	-10	-5	0
LOW TEMPERATURE	Series 1	JEHCCU0075L1	0.75	27	CC (W)	245	365	500	650	815	995	-	-	-	-
					PC (W)	430	494	564	638	718	802	-	-	-	-
				32	CC (W)	175	289	418	562	721	895	-	-	-	-
					PC (W)	440	506	577	653	734	820	-	-	-	-
				38	CC (W)	104	209	329	464	614	779	-	-	-	-
					PC (W)	452	520	592	670	752	840	-	-	-	-
				43	CC (W)	39	124	251	379	522	680	-	-	-	-
					PC (W)	462	531	605	684	768	857	-	-	-	-
	Series 2	JEHCCU0175L1 JEHCCU0175L3	1.75	27	CC (W)	455	738	1051	1394	1767	2170	-	-	-	-
					PC (W)	513	720	937	1164	1401	1648	-	-	-	-
				32	CC (W)	363	643	947	1277	1631	2011	-	-	-	-
					PC (W)	551	756	971	1196	1431	1676	-	-	-	-
				38	CC (W)	-	492	800	1132	1490	1872	-	-	-	-
					PC (W)	-	793	995	1212	1444	1691	-	-	-	-
				43	CC (W)	-	384	688	1013	1360	1730	-	-	-	-
					PC (W)	-	827	1023	1236	1466	1712	-	-	-	-
		JEHCCU0225L1 JEHCCU0225L3	2.25	27	CC (W)	829	1253	1718	2222	2767	3351	-	-	-	-
					PC (W)	1147	1348	1579	1840	2131	2452	-	-	-	-
				32	CC (W)	762	1139	1567	2044	2572	3149	-	-	-	-
					PC (W)	1248	1443	1667	1922	2206	2521	-	-	-	-
				38	CC (W)	-	1017	1410	1868	2391	2979	-	-	-	-
					PC (W)	-	1449	1689	1955	2245	2561	-	-	-	-
				43	CC (W)	-	907	1267	1702	2213	2800	-	-	-	-
					PC (W)	-	1507	1749	2014	2302	2615	-	-	-	-
	Series 3	JEHCCU0350L3	3.5	27	CC (W)	996	1506	2141	2901	3786	4796	-	-	-	-
					PC (W)	1298	1621	1953	2296	2648	3011	-	-	-	-
				32	CC (W)	789	1252	1845	2567	3420	4402	-	-	-	-
					PC (W)	1363	1687	2021	2365	2719	3083	-	-	-	-
				38	CC (W)	-	1080	1603	2272	3085	4044	-	-	-	-
					PC (W)	-	1779	2101	2438	2790	3157	-	-	-	-
				43	CC (W)	-	869	1344	1973	2753	3688	-	-	-	-
					PC (W)	-	1849	2168	2504	2856	3225	-	-	-	-
		JEHCCU0400L3	4	27	CC (W)	1629	2354	3200	4165	5251	6456	-	-	-	-
					PC (W)	2097	2554	3047	3574	4137	4734	-	-	-	-
				32	CC (W)	1347	2020	2824	3757	4821	6014	-	-	-	-
					PC (W)	2109	2567	3065	3603	4181	4799	-	-	-	-
				38	CC (W)	-	1749	2495	3396	4452	5663	-	-	-	-
					PC (W)	-	2578	3079	3625	4216	4852	-	-	-	-
				43	CC (W)	-	1457	2160	3030	4071	5279	-	-	-	-
					PC (W)	-	2589	3094	3650	4254	4908	-	-	-	-
	Series 4	JEHCCU0725L3	7.25	27	CC (W)	2363	3485	4717	6059	7511	9073	-	-	-	-
					PC (W)	2768	3454	4220	5066	5992	6998	-	-	-	-
				32	CC (W)	2026	3070	4245	5549	6984	8548	-	-	-	-
					PC (W)	2803	3497	4272	5126	6061	7075	-	-	-	-
				38	CC (W)	-	2563	3716	5014	6457	8045	-	-	-	-
					PC (W)	-	3551	4318	5169	6106	7127	-	-	-	-
				43	CC (W)	-	2145	3256	4530	5964	7562	-	-	-	-
					PC (W)	-	3594	4363	5219	6161	7190	-	-	-	-
		JEHCCU0825L3	8.25	27	CC (W)	3293	4813	6469	8259	10185	12245	-	-	-	-
					PC (W)	3967	4796	5726	6755	7885	9114	-	-	-	-
				32	CC (W)	2890	4276	5818	7514	9366	11372	-	-	-	-
					PC (W)	4037	4868	5805	6846	7993	9244	-	-	-	-
				38	CC (W)	-	3713	5111	6694	8462	10415	-	-	-	-
					PC (W)	-	4931	5877	6932	8098	9373	-	-	-	-
				43	CC (W)	-	3203	4485	5977	7673	9574	-	-	-	-
					PC (W)	-	4995	5948	7014	8197	9493	-	-	-	-

TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

7 Performance Data

R134a (Rating Condition: Superheat 10K, Sub cooling 0K)

		MODEL	HP	TE / TA		-30 P.F	-25 P.F	-20 P.F	-15 P.F	-10 P.F	-5 P.F	0 P.F	5 P.F	10 P.F	15 P.F
MEDIUM TEMPERATURES	Series 2	JEHCCU0150M1 JEHCCU0150M3	1.5	27	CC (W)	-	-	-	-	-	1826	2355	2934	3563	4242
					PC (W)	-	-	-	-	-	801	853	905	959	1013
				32	CC (W)	-	-	-	842	1229	1671	2168	2720	3327	3989
					PC (W)	-	-	-	721	775	831	889	949	1011	1075
				38	CC (W)	-	-	-	761	1091	1481	1931	2441	3011	3641
					PC (W)	-	-	-	738	800	864	932	1002	1076	1152
		JEHCCU0225M1 JEHCCU0225M3	2.25	27	CC (W)	-	-	-	-	-	2823	3634	4559	5600	6755
					PC (W)	-	-	-	-	-	1163	1280	1403	1533	1670
				32	CC (W)	-	-	-	1436	1958	2595	3347	4214	5196	6293
					PC (W)	-	-	-	973	1082	1197	1320	1449	1586	1730
				38	CC (W)	-	-	-	1310	1763	2330	3013	3810	4723	5750
					PC (W)	-	-	-	1002	1113	1234	1365	1506	1657	1818
		JEHCCU0300M1 JEHCCU0300M3	3	27	CC (W)	-	-	-	-	3160	3998	4942	5990	7144	8402
					PC (W)	-	-	-	-	1456	1609	1772	1945	2128	2321
				32	CC (W)	-	-	-	2279	2948	3721	4600	5583	6672	7865
					PC (W)	-	-	-	1353	1510	1677	1854	2041	2238	2445
				38	CC (W)	-	-	-	1941	2584	3332	4185	5143	6206	7374
					PC (W)	-	-	-	1396	1570	1754	1948	2152	2366	2590
	Series 3	JEHCCU0400M3	4	27	CC (W)	-	-	-	-	-	-	7143	8888	10865	13093
					PC (W)	-	-	-	-	-	-	2208	2348	2484	2617
				32	CC (W)	-	-	-	2938	3934	5129	6536	8167	10029	12127
					PC (W)	-	-	-	1753	1948	2130	2301	2464	2622	2777
				38	CC (W)	-	-	-	2562	3475	4568	5860	7363	9085	11042
					PC (W)	-	-	-	1773	1998	2211	2412	2605	2792	2974
		JEHCCU0500M3	5	27	CC (W)	-	-	-	-	-	6540	8346	10389	12664	15159
					PC (W)	-	-	-	-	-	2505	2736	2969	3209	3461
				32	CC (W)	-	-	-	3292	4546	6021	7718	9639	11781	14130
					PC (W)	-	-	-	2056	2322	2583	2844	3108	3379	3662
				38	CC (W)	-	-	-	2877	4045	5412	6984	8761	10747	12936
					PC (W)	-	-	-	2074	2373	2669	2967	3269	3579	3900
		JEHCCU0600M3	6	27	CC (W)	-	-	-	-	6092	7814	9762	11934	14332	16954
					PC (W)	-	-	-	-	2658	2947	3267	3616	3996	4405
				32	CC (W)	-	-	-	4309	5680	7272	9083	11115	13366	15838
					PC (W)	-	-	-	2413	2717	3046	3400	3779	4183	4612
				38	CC (W)	-	-	-	3811	5052	6507	8178	10063	12164	14479
					PC (W)	-	-	-	2429	2765	3126	3512	3923	4359	4820
		JEHCCU0675M3	6.75	27	CC (W)	-	-	-	-	6653	8519	10625	12971	15557	18383
					PC (W)	-	-	-	-	2878	3188	3532	3912	4326	4776
				32	CC (W)	-	-	-	4667	6153	7879	9845	12051	14497	17183
					PC (W)	-	-	-	2634	2945	3292	3673	4090	4541	5028
				38	CC (W)	-	-	-	4355	5676	7242	9053	11109	13410	15956
					PC (W)	-	-	-	2675	3030	3421	3846	4307	4802	5333
	Series 4	JEHCCU0825M3	8.25	27	CC (W)	-	-	-	-	7728	9922	12380	15104	18092	21346
					PC (W)	-	-	-	-	3955	4369	4829	5335	5888	6487
				32	CC (W)	-	-	-	5322	7083	9110	11401	13958	16779	19866
					PC (W)	-	-	-	3654	4067	4523	5024	5568	6157	6789
				38	CC (W)	-	-	-	4796	6349	8172	10265	12628	15261	18164
					PC (W)	-	-	-	3720	4187	4694	5243	5833	6465	7137
		JEHCCU1000M3	10	27	CC (W)	-	-	-	7256	9494	11993	14751	17770	21048	24587
					PC (W)	-	-	-	4354	4855	5388	5952	6548	7175	7834
				32	CC (W)	-	-	-	6615	8667	10980	13552	16385	19477	22830
					PC (W)	-	-	-	4381	4935	5517	6129	6769	7439	8137
				38	CC (W)	-	-	-	5875	7701	9792	12148	14769	17655	20806
					PC (W)	-	-	-	4388	5005	5648	6316	7010	7729	8474

TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

7 Performance Data

R134a (Rating Condition: Superheat 10K, Sub cooling 0K)

MODEL			HP	TE / TA		-30 P.F	-25 P.F	-20 P.F	-15 P.F	-10 P.F	-5 P.F	0 P.F	5 P.F
MEDIUM TEMPERATURES	Series 2	JEHCCU0150M1 JEHCCU0150M3	1.5	27	CC (W)	-	-	-	1408	1969	2642	3415	4306
					PC (W)	-	-	-	948	1041	1122	1196	1262
				32	CC (W)	-	-	-	1285	1815	2448	3173	4006
					PC (W)	-	-	-	960	1063	1155	1240	1317
				38	CC (W)	-	-	-	1122	1614	2183	2870	3647
					PC (W)	-	-	-	969	1087	1198	1295	1385
				43	CC (W)	-	-	-	-	1452	2001	2628	3362
					PC (W)	-	-	-	-	1103	1225	1339	1442
		JEHCCU0225M1 JEHCCU0225M3	2.25	27	CC (W)	-	-	-	2390	3273	4310	5491	6830
					PC (W)	-	-	-	1428	1616	1787	1945	2089
				32	CC (W)	-	-	-	2222	3059	4037	5152	6424
					PC (W)	-	-	-	1441	1648	1842	2023	2189
				38	CC (W)	-	-	-	1997	2781	3680	4723	5779
					PC (W)	-	-	-	1447	1679	1903	2113	2339
				43	CC (W)	-	-	-	-	2529	3394	4359	5460
					PC (W)	-	-	-	-	1697	1943	2182	2409
		JEHCCU0300M1 JEHCCU0300M3	3	27	CC (W)	-	-	-	3387	4429	5630	6990	8528
					PC (W)	-	-	-	1923	2178	2408	2616	2798
				32	CC (W)	-	-	-	3237	4233	5376	6672	8115
					PC (W)	-	-	-	1942	2218	2472	2703	2912
				38	CC (W)	-	-	-	2987	3986	5033	6307	7691
					PC (W)	-	-	-	1963	2263	2554	2801	3032
				43	CC (W)	-	-	-	-	4124	5281	5977	7297
					PC (W)	-	-	-	-	2821	3082	2887	3144
	Series 3	JEHCCU0400M3	4	27	CC (W)	-	-	-	4621	6159	7981	10108	12564
					PC (W)	-	-	-	2524	2801	3043	3259	3454
				32	CC (W)	-	-	-	4320	5766	7474	9465	11767
					PC (W)	-	-	-	2560	2874	3154	3405	3632
				38	CC (W)	-	-	-	3895	5243	6774	8665	10791
					PC (W)	-	-	-	2592	2957	3295	3584	3854
				43	CC (W)	-	-	-	-	4784	6266	7984	10000
					PC (W)	-	-	-	-	3008	3384	3726	4030
		JEHCCU0500M3	5	27	CC (W)	-	-	-	5774	7602	9766	12289	15193
					PC (W)	-	-	-	3104	3481	3824	4146	4457
				32	CC (W)	-	-	-	5417	7137	9182	11574	14344
					PC (W)	-	-	-	3141	3560	3944	4302	4644
				38	CC (W)	-	-	-	-	6544	8364	10629	13171
					PC (W)	-	-	-	-	3643	4096	4502	4902
				43	CC (W)	-	-	-	-	6043	7798	9851	12276
					PC (W)	-	-	-	-	3695	4189	4657	5096
		JEHCCU0600M3	6	27	CC (W)	-	-	-	6100	8165	10567	13323	16446
					PC (W)	-	-	-	3486	3983	4481	4976	5464
				32	CC (W)	-	-	-	5701	7660	9940	12544	15511
					PC (W)	-	-	-	3523	4041	4567	5099	5628
				38	CC (W)	-	-	-	-	7032	9076	11518	14209
					PC (W)	-	-	-	-	4109	4683	5259	5855
				43	CC (W)	-	-	-	-	6471	8422	10638	13195
					PC (W)	-	-	-	-	4165	4769	5396	6032

TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

7 Performance Data

R134a (Rating Condition: Superheat 10K, Sub cooling 0K)

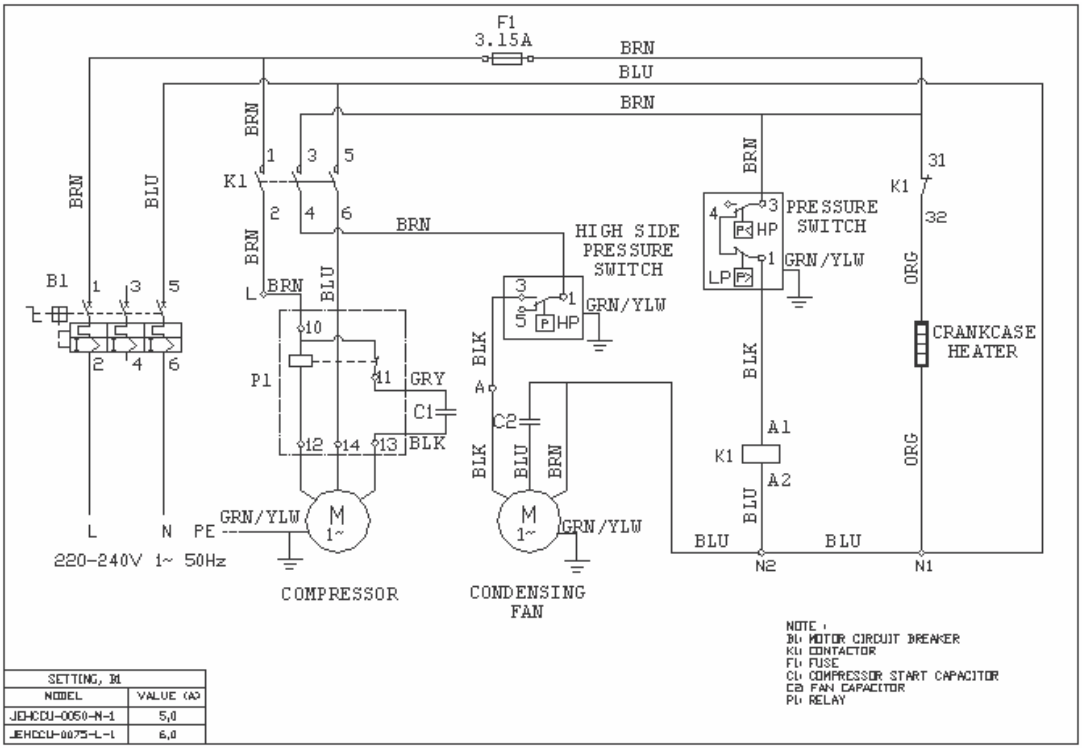
MODEL			HP	TE / TA		-30 P.F	-25 P.F	-20 P.F	-15 P.F	-10 P.F	-5 P.F	0 P.F	5 P.F
MEDIUM TEMPERATURES	Series 3	JEHCCU0675M3	6.75	27	CC (W)	-	-	-	7120	9406	12040	15027	18402
					PC (W)	-	-	-	4274	4814	5290	5805	6277
				32	CC (W)	-	-	-	6766	8930	11422	14253	17438
					PC (W)	-	-	-	4320	4906	5462	5997	6521
				38	CC (W)	-	-	-	-	8254	10971	13184	16085
					PC (W)	-	-	-	-	5014	5559	6245	6848
				43	CC (W)	-	-	-	-	-	9866	12262	14909
					PC (W)	-	-	-	-	-	5769	6442	7118
	Series 4	JEHCCU0825M3	8.25	27	CC (W)	-	-	-	7714	10463	13676	17341	21501
					PC (W)	-	-	-	5031	5680	6282	6858	7420
				32	CC (W)	-	-	-	7286	9867	12862	16284	20144
					PC (W)	-	-	-	5061	5764	6430	7073	7708
				38	CC (W)	-	-	-	-	9090	11826	15057	18621
					PC (W)	-	-	-	-	5851	6597	7306	8019
				43	CC (W)	-	-	-	-	8374	10973	13910	17149
					PC (W)	-	-	-	-	5905	6715	7507	8306
		JEHCCU1000M3	10	27	CC (W)	-	-	-	10528	13730	17374	21396	25812
					PC (W)	-	-	-	6392	7297	8180	9073	9993
				32	CC (W)	-	-	-	-	13038	16336	20027	24130
					PC (W)	-	-	-	-	7393	8374	9368	10383
				38	CC (W)	-	-	-	-	12040	15219	18736	22542
					PC (W)	-	-	-	-	7495	8551	9620	10726
				43	CC (W)	-	-	-	-	-	14096	17310	20793
					PC (W)	-	-	-	-	-	8692	9862	11071

TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

8 Electrical Data

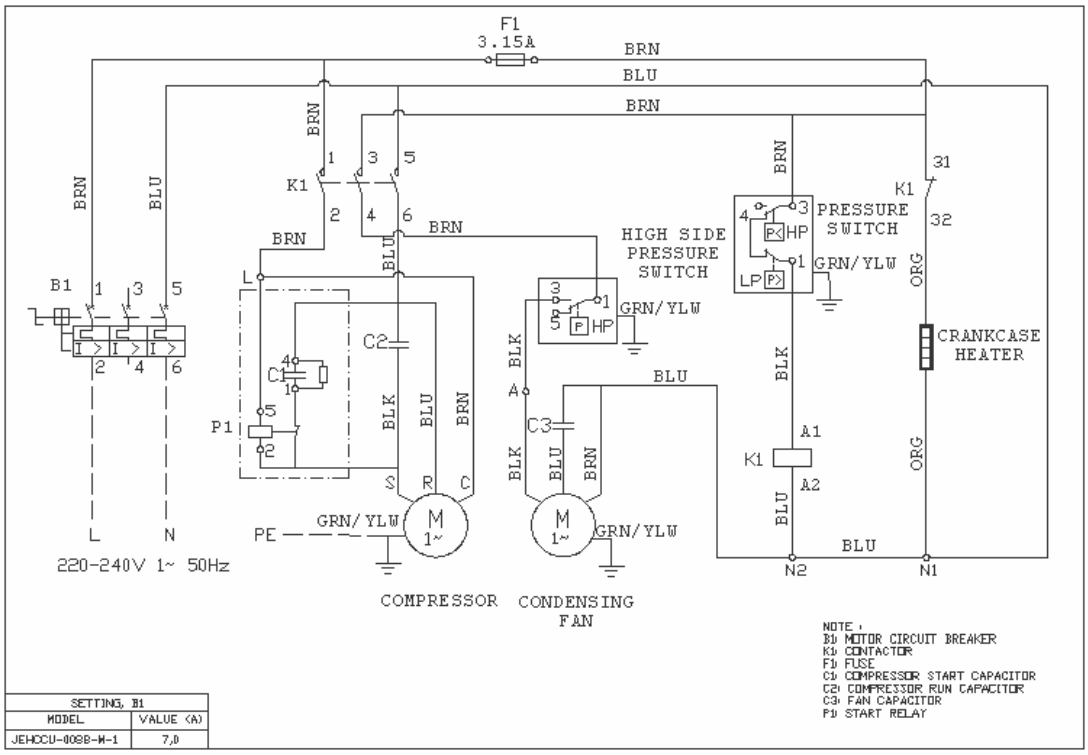
Important Note: All wiring and connections to the condensing unit must be made in accordance to the local codes.

Series 1 (230V/1~/50Hz): **Medium temperature:** JEHCCU0050M1 **Low Temperature:** JEHCCU0075L1



SETTING, B1	
MODEL	VALUE (A)
JEHCCU-0050-M-1	5,0
JEHCCU-0075-L-1	6,0

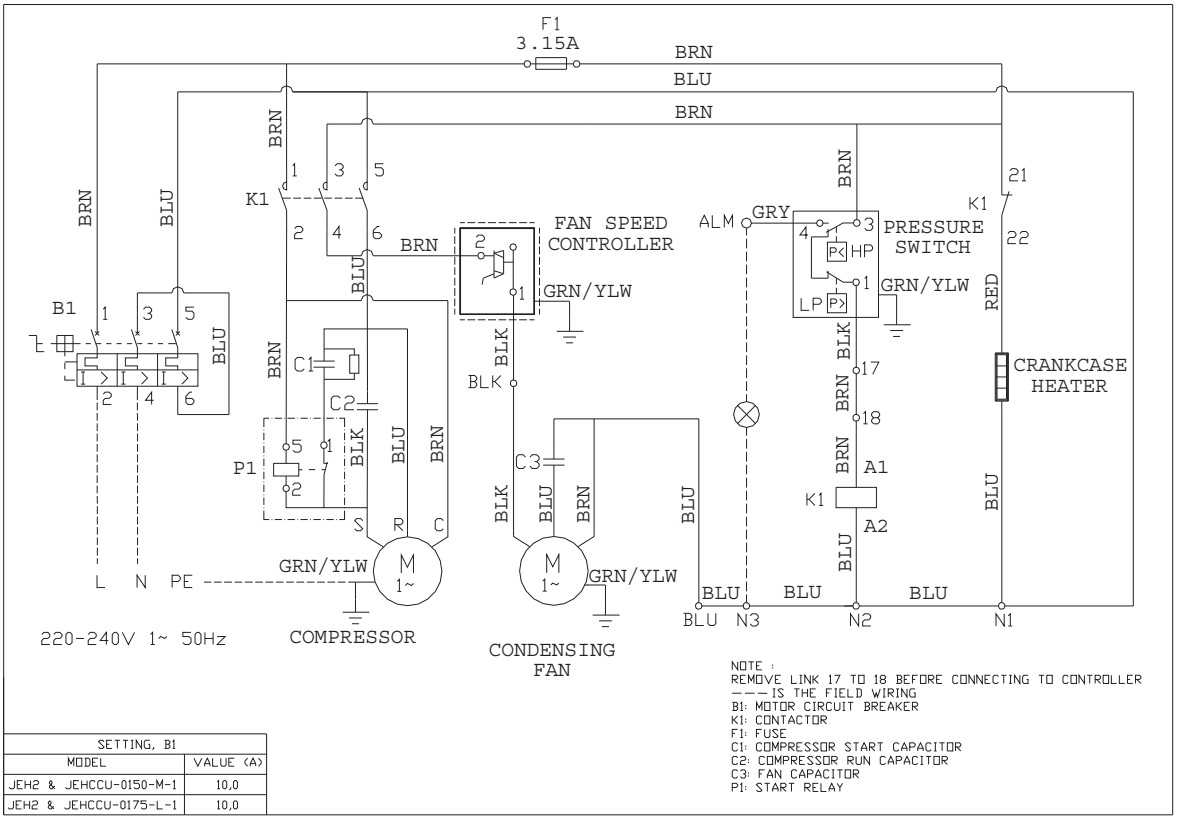
Series 1 (230V/1~/50Hz): **Medium temperature:** JEHCCU0088M1



SETTING, B1	
MODEL	VALUE (A)
JEHCCU-0088-M-1	7,0

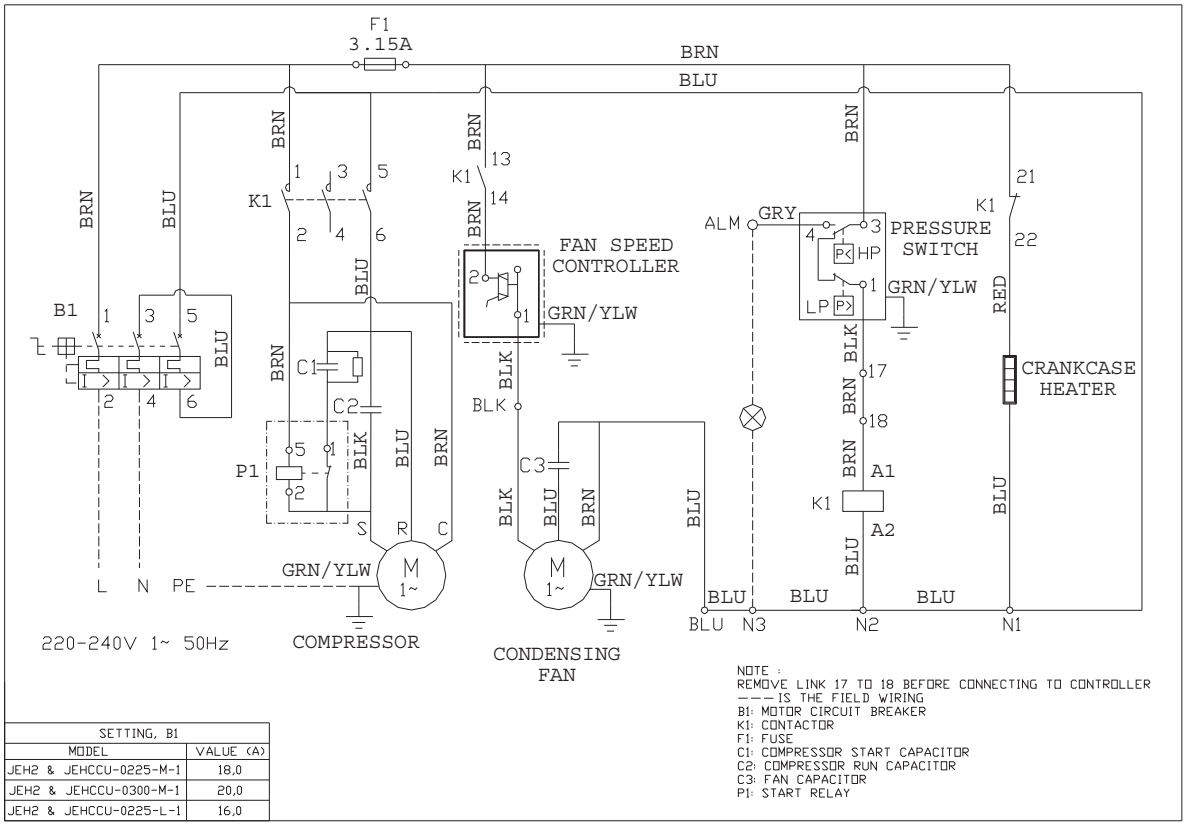
8 Electrical Data

Series 2 (230V/1~/50Hz): **Medium temperature:** JEHCCU0150M1 **Low Temperature:** JEHCCU0175L1



SETTING, B1	
MODEL	VALUE (A)
JEH2 & JEHCCU-0150-M-1	10,0
JEH2 & JEHCCU-0175-L-1	10,0

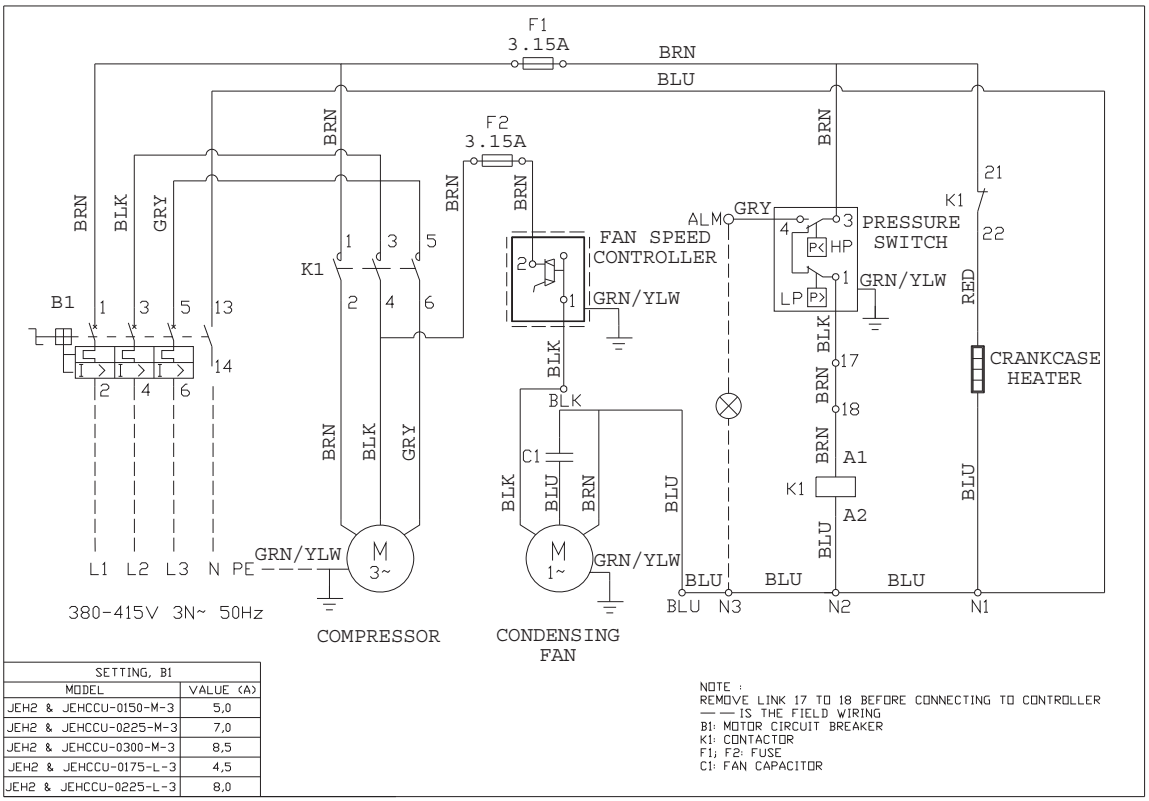
Series 2 (230V/1~/50Hz): **Medium temperature:** JEHCCU0225M1, JEHCCU0300M1 **Low Temperature:** JEHCCU0225L1



SETTING, B1	
MODEL	VALUE (A)
JEH2 & JEHCCU-0225-M-1	18,0
JEH2 & JEHCCU-0300-M-1	20,0
JEH2 & JEHCCU-0225-L-1	16,0

8 Electrical Data

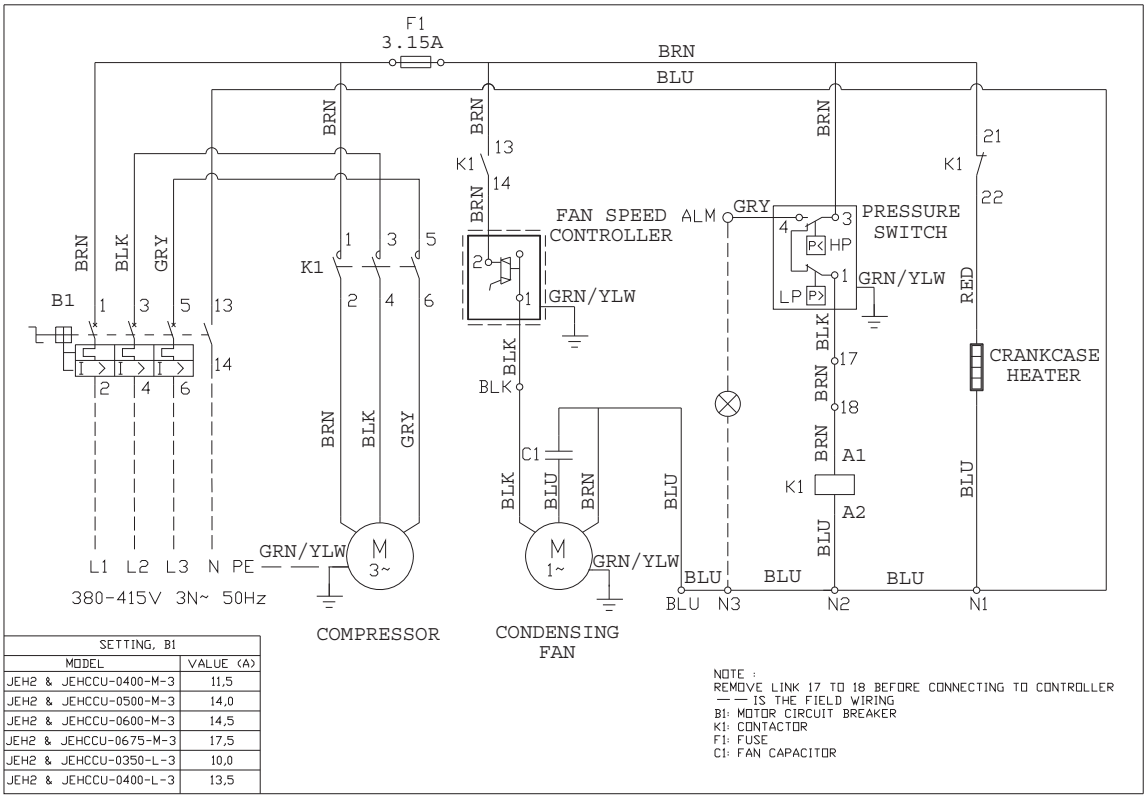
Series 2 (400V/3~/50Hz): Medium temperature: JEHCCU0150M3, JEHCCU0225M3, JEHCCU0300M3
Low Temperature: JEHCCU0175L3, JEHCCU0225L3



SETTING, B1	
MODEL	VALUE (A)
JEH2 & JEHCCU-0150-M-3	5,0
JEH2 & JEHCCU-0225-M-3	7,0
JEH2 & JEHCCU-0300-M-3	8,5
JEH2 & JEHCCU-0175-L-3	4,5
JEH2 & JEHCCU-0225-L-3	8,0

NOTE :
REMOVE LINK 17 TO 18 BEFORE CONNECTING TO CONTROLLER
— — IS THE FIELD WIRING
B1: MOTOR CIRCUIT BREAKER
K1: CONTACTOR
F1; F2: FUSE
C1: FAN CAPACITOR

Series 3 (400V/3~/50Hz): Medium temperature: JEHCCU0400M3, JEHCCU0500M3, JEHCCU0600M3, JEHCCU0675M3
Low Temperature: JEHCCU0350L3, JEHCCU0400L3

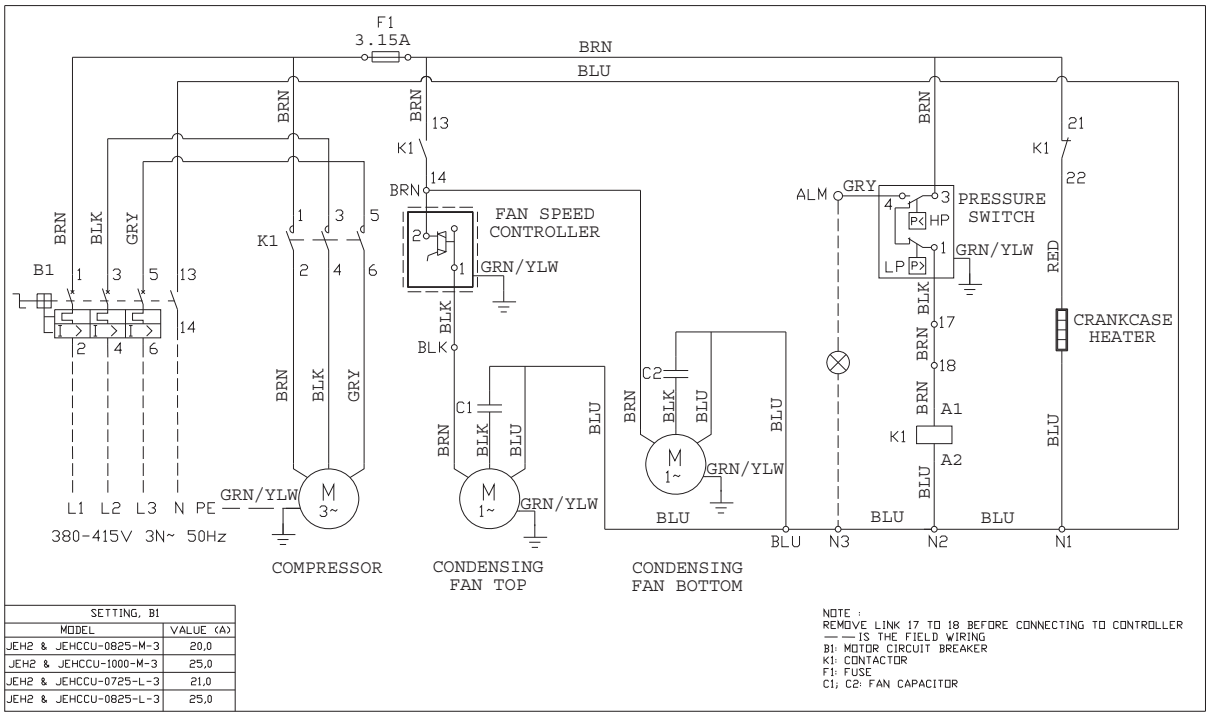


SETTING, B1	
MODEL	VALUE (A)
JEH2 & JEHCCU-0400-M-3	11,5
JEH2 & JEHCCU-0500-M-3	14,0
JEH2 & JEHCCU-0600-M-3	14,5
JEH2 & JEHCCU-0675-M-3	17,5
JEH2 & JEHCCU-0350-L-3	10,0
JEH2 & JEHCCU-0400-L-3	13,5

NOTE :
REMOVE LINK 17 TO 18 BEFORE CONNECTING TO CONTROLLER
— — IS THE FIELD WIRING
B1: MOTOR CIRCUIT BREAKER
K1: CONTACTOR
F1: FUSE
C1: FAN CAPACITOR

8 Electrical Data

Series 4 (400V/3~/50Hz): Medium temperature: JEHCCU0825M3, JEHCCU1000M3
Low Temperature: JEHCCU0725L3, JEHCCU0825L3



SETTING, B1	
MODEL	VALUE (A)
JEH2 & JEHCCU-0825-M-3	20,0
JEH2 & JEHCCU-1000-M-3	25,0
JEH2 & JEHCCU-0725-L-3	21,0
JEH2 & JEHCCU-0825-L-3	25,0

9 Safety and Health

Important Note

Only a qualified refrigeration engineer who is familiar with refrigeration systems and components, including all controls should perform the installation and start-up of the system. To avoid potential injury, use care when working around coil surfaces or sharp edges of metal cabinets. All piping and electrical wiring should be installed in accordance with all applicable codes, ordinances and local by-laws.

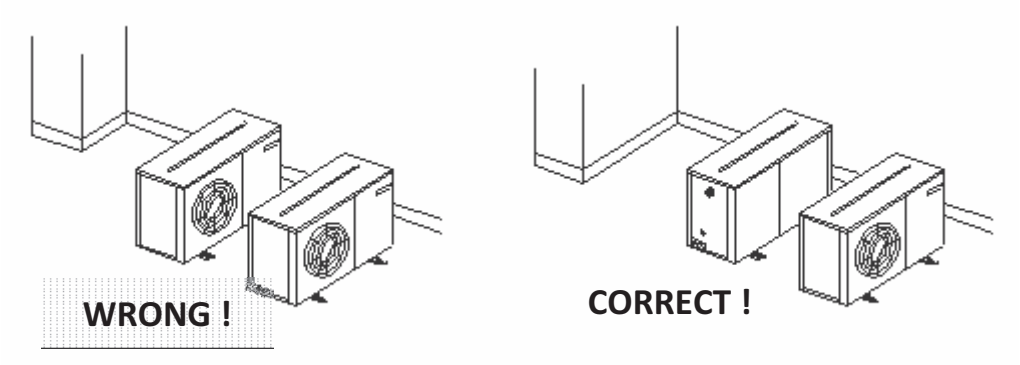
General Information

- Ensure the unit received is the correct model for the intended application.
- Ensure refrigerant, voltage, are suitable for the proposed application and environment.
- Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.
- The condensing unit is delivered with a nitrogen holding charge.
- The condensing unit contains moving machinery and electrical power hazards. May cause severe injury or death. Disconnect and shut off power before installation or service of the equipment.
- Refrigerant release into the atmosphere is illegal. Proper evacuation, handling and leak testing procedures must be observed at all times.
- Units must be earthed and no maintenance work should be attempted prior to disconnecting the electrical supply.
- The electrical covers and condenser fan guard must remain fitted at all times.
- Use of the condensing unit outside of design conditions and application for which units were intended may be unsafe and be detrimental to the unit, regardless short or long term operation.
- The condensing units are not designed to withstand loads or stresses from other equipment or personnel. Such extraneous loads or stress may cause failure/leak/injury.
- Wherever possible the system should be installed to utilize a pump down configuration.
- After installation, the system should be allowed to run for 3 - 4 hours. The oil level should be checked after 3 - 4 hours run time and topped up as necessary. The oil level should not be lower than quarter of the compressor oil sight glass.

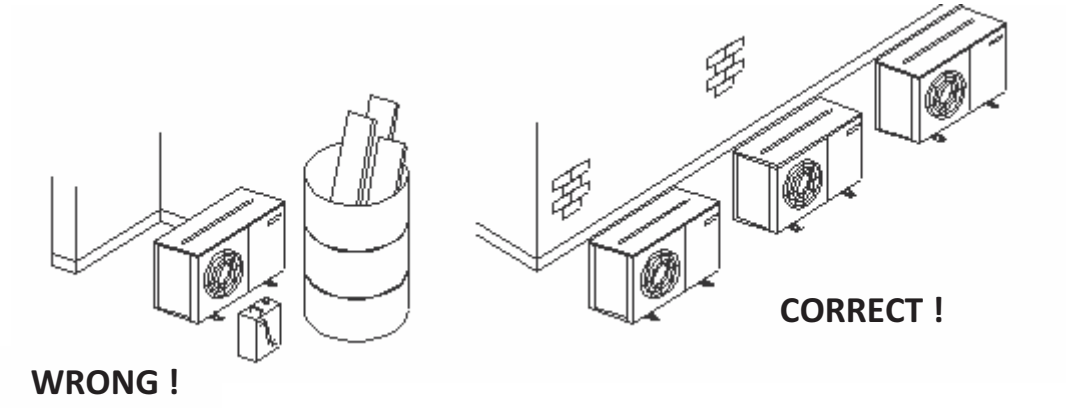
10 Installation & Commissioning

Unit site location

- In order to achieve maximum cooling capacity, the installation location for condensing unit should be carefully selected.
- Install the condensing unit in such a way so that hot air distributed by the condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



- Ensure that there is no obstruction of air flow into or out of the unit. Remove obstacles which block air intake or discharge.

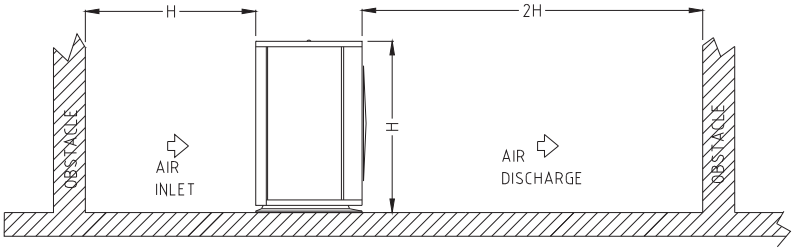


- The location must be well ventilated, so the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- To optimize the unit running conditions, the condenser coil must be cleaned at regular intervals.

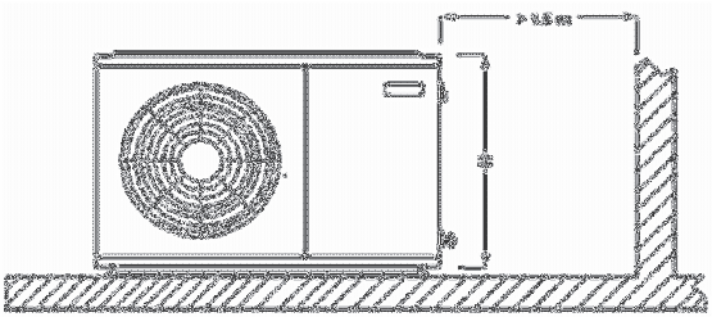
10 Installation & Commissioning

Installation Clearance

- The installation location should allow sufficient space for air flow and maintenance around the unit.

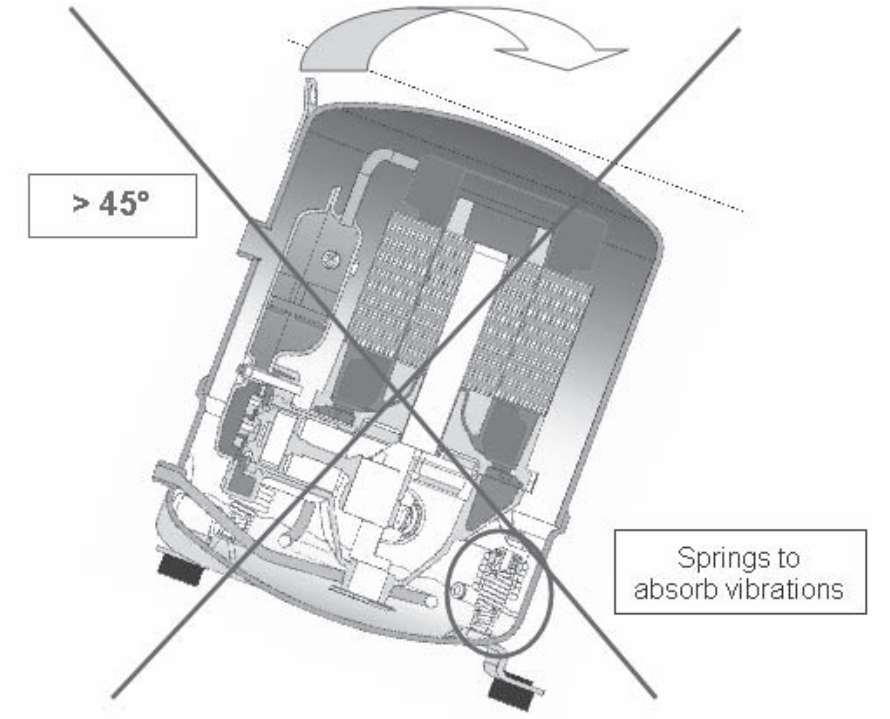


- To allow sufficient space for doing service or installation.



Compressor handling

To ensure compressor reliability, the condensing unit and the compressor must not be tilt greater than an angle of 45°.
Otherwise, the component can fall from its 3 compressor housing springs, which results in noisy vibrations during operation and possible to breakdown.



10 Installation & Commissioning

Field Piping

Important Note

Line sizing should only be determined by qualified personnel. All local codes of practice must be observed in the installation of refrigerant piping

To ensure satisfactory operation and performance, the following points should be noted for field piping arrangements,

- Couples one indoor unit with one outdoor condensing unit only.
- Release all the pre-charged nitrogen before pipework connection.
- Connecting pipe size for suction and liquid line must same as attaches to the condensing unit. Correct line sizing will minimize the pressure drop and maintain sufficient gas velocity for proper oil return.
- Pipework routes must be as simple and as short as possible. Avoid low points on pipework where oil can accumulate.
- Use only clean, dehydrated refrigeration grade copper tube with large radius elbows. The piping shall be kept with enough bending radius.
- Braze without over filling to ensure there is no excess solder into the tube.
- To prevent oxidation, blow nitrogen through pipework when brazing.
- Install insulation on all suction lines after pressure test.
- Adequately support all pipe work at a maximum of 2 meter intervals.
- For the condition where the outdoor condensing unit is above the indoor unit, the height difference between units shall be less than 25 m and install oil trap on suction pipe every 4 m height. The suction pipe must always be fitted with U-trap at the bottom.
- For the condition where the outdoor condensing unit is below the indoor unit, the height difference between units shall be less than 4 m. Pipe trap shall be installed upward on outlet of indoor unit (suction pipe).
- The recommended piping length is 25 m or less.
- In horizontal pipework, suction pipe is not required any liquid trap.
- Additional oil might be required if piping length exceeds 20m or with many oil traps. Check the oil level of the compressor to decide to add the oil after minimum 2 hours operation.
- For systems operating with low evaporating temperature units (eg. JEHCCUXXXXLX), we recommend using an expansion valve fitted with MOP (Maximum Operation Pressure), to protect the compressor against high pressures in suction during the start procedure especially after defrosts cycle.

Nevertheless, it is recommended as well to install the MOP (Maximum Operation Pressure), expansion valve for medium evaporating temperature units (eg. JEHCCUXXXXMX) if the working suction pressure during start procedure especially after defrost cycle, is out of the limit, as refer to the table provided.

10 Installation & Commissioning

Recommend compressor working pressure range

Compressor Model	Medium Temp			Low Temp
	MTZ	MTZ	MTZ	NTZ
Refrigerant	R404A	R407C	R134a	R404A
Working Pressure Range High Side (barg)	13.2 - 27.7	12.5 - 29.4	7.9 - 22.6	13.2 – 27.7
Working Pressure Range Low Side (barg)	1.0 - 7.2	1.4 - 6.6	0.6 - 4.7	0.1 – 3.3

Pressure testing

- Make sure that both service valves are closed
- When running a pressure test on field piping, always use an inert, dry gas such as Nitrogen
- The pressure differential between the high and low side should not exceed 30 barg (435 psig)
- Test pressures shall be as shown follows.

Series	Test pressure	
	High side	Low side
1	24 barg (350 psig)	12 barg (175 psig)
2, 3, 4	28 barg (405 psig)	19 barg (275 psig)

- If there is pressure drop, check the leakage portion.

Vacuum - moisture removal

Important Note

Moisture prevents proper functioning of the compressor and the refrigeration system

Air and moisture reduce service life and increase condensing pressure causing abnormally high discharge temperatures likely to destroy the oil's lubricating properties. The risk of acid formation is also increased by air and moisture and copper plating can be generated in this way. All these phenomena can be cause mechanical and electrical failure.

10 Installation & Commissioning

Important Note

Ensure that a good quality vacuum pump is used to pull a vacuum of 0.67 mbar.abs (-1.0 barg) or less. Ensure that no pressure increase during 1 hour or more after stop vacuuming. If pressure increase, there is moisture or leakage along the pipeline.

Safety pressure switch settings

The pressure switch fitted to condensing units with auto reset for low pressure and manual reset for high pressure are NOT factory preset.

High pressure safety (Manual reset)

The high pressure safety switch is required to stop the compressor, should the discharge pressure exceed the values shown in the following table. The high pressure switch can be set to lower values depending on the application and the ambient conditions

Model	Series 1	Series 2, 3, 4	
Refrigerant	R404A	R404A/ R407C	R134a
Cut Out (barg)	24	28	23
Cut Out (psig)	350	405	330

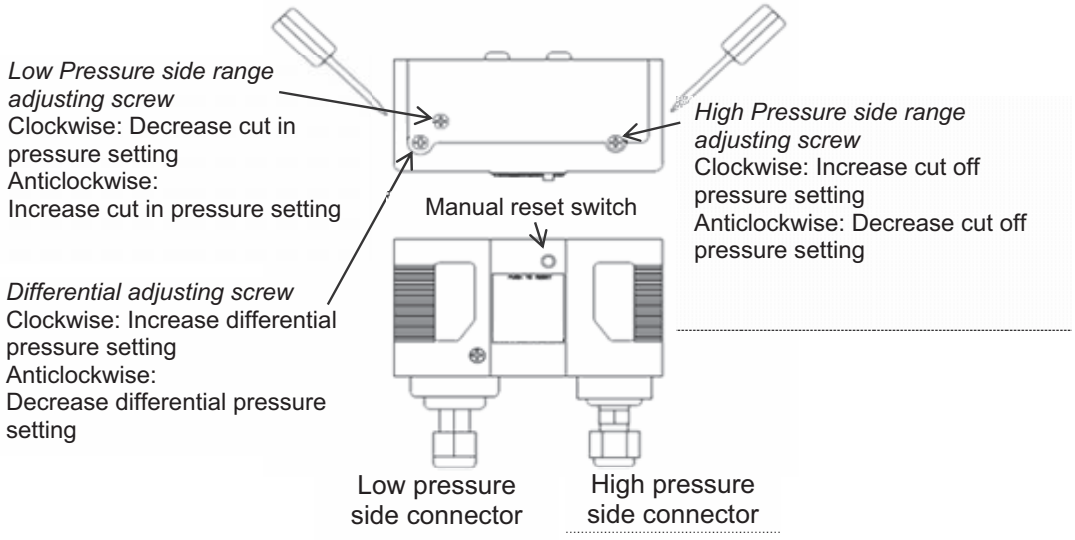
Low pressure safety (Auto reset)

The low pressure safety switch is recommended to avoid compressor operation at too lower suction pressure and vacuum condition. The low pressure safety cut should never be set below value as shown in the following table.

Model	Series 1	Series 2, 3, 4	
Refrigerant	R404A	R404A/ R407C	R134a
Cut Out (barg)	24	28	23
Cut Out (psig)	350	405	330

* M: Medium temperature; L: Low temperature

Low pressure cut off pressure = Setting of the cut in - Setting of the differential



10 Installation & Commissioning

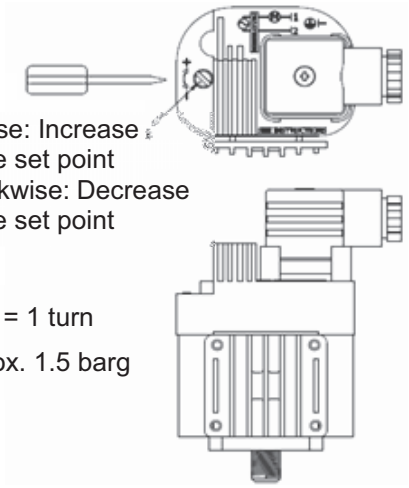
Important Note

There must be no more than 10 compressor starts per hour. A higher number reduces the service life of the compressor. If necessary, use an anti-short-cycle timer in the control circuit. Minimum a 3 minute runtime after each start of compressor and a 3 minute idle time after each stop are recommended. Only during the pump down cycle may the compressor run for much shorter intervals.

Fan speed controller setting
(Note: not applicable for JEHCCU0050M1, JEHCCU0088M1 and JEHCCU0075L1)

The fan speed controller controls the speed of the condenser's fan.
It keeps the condensing pressure at a steady level by changing the speed of the fan according to the required condensing pressure.
Factory setting is 19 barg and the operation during low pressure is "cut off" mode.
Recommend setting for range setting pointer/ range adjusting screw as table below:

Refrigerant	R404A/ R407C	R134a
Setting (barg)	19	10



Commissioning of the Condensing Unit
Please make sure that all manual service valves are fully open when starting the system for the first time. This includes external shut off valves as well as liquid receiver valve in the unit.

11 Service & Maintenance

Important Note

Warning! - Disconnect the mains electrical supply before servicing or opening the unit

Warning! - Ensure there is no refrigerant in refrigerant circuit before dismantle it

Warning! - If the supply cord is damaged, it must be replaced by the qualified service agent in order to avoid a hazard.

The condensing units are designed to give long life operation with minimum maintenance. However, they should be routinely checked and the following service schedule is recommended under normal circumstances:

The removal of the top, side and front panels ensures that all parts are accessible.

1. Compressor - Inspect at regular intervals
   - Check for refrigerant leaks on all joints and fittings.
   - Ensure that no abnormal noise or vibration is detected during test run.
   - Check the compressor oil levels and top up if required. The oil level should not be lower than quarter of the compressor oil sight glass.

2. Condenser Fan Motor & Blade - Clean and inspect at regular intervals
   - Check for abnormal noise, vibration and fan imbalance.
   - Ensure that the fan motor is clean and spins freely.
   - Check that the condenser fan blade is clean and free from restriction.
   - Note: The Fan Motor is pre-lubricated and factory sealed so no maintenance is necessary.

3. Condenser Coil - Clean and inspect at regular intervals
   - Check and remove the dirt and debris between the fins using a suitable chemical coil cleaner.
   - Check and remove any obstacles which may hinder the airflow through the condenser coil.

4. Power Supply - Inspect at regular intervals
   - Check the running current and voltage for the condensing unit.
   - Check the electrical wiring and tighten the wires onto the terminal blocks if necessary.

Under normal circumstances:

- Clean condenser coil every three months
- Carry out leak test every month
- Examine electrical cables and enclosures each year
- Check and verify operation of all safety devices every three months, ensure crankcase heater is operational
- Check sight glass and operating conditions
- Check security of compressor mountings and the bolts that hold down the unit each year

12 Checkpoints

- Ensure the high low pressure controls are configured properly.
- Ensure crankcase heater is energized minimum 12 hours prior to start up and permanently energized.
- Check the refrigerant is correct for intended use
- Check all electrical connections.
- Check all electrical termination and circuits are correct.
- Check compressor oil level via compressor sight glass, the oil level should not be lower than quarter of sight glass.
- Ensure fan motor and fan blades are installed properly.
- Check the TXV capacity sizing based on indoor unit capacity. Check TXV applicable refrigerant. Check position and condition of the sensing bulb fixing
- Observed the system pressures during the charging and initial operation process.
- Ensure that suction pressure will decrease, discharge pressure will increase. No abnormal noise from the compressor.
- Continue to charge the system until sight glass is clear. Make sure that high pressure is > 14.2 barg for R404A, > 15.0 barg for R407C and > 7.9 barg for R134a when doing this charge adjustment operation. Continuous flow of clear refrigerant through the sight glass, with perhaps an occasional bubble at very high temperature indicates the refrigerant is at optimum.
- Check the compressor's discharge and suction pressure, ensure it's within operating range. Discharge temperature should be within 50 to 90 °C and pressure should be around 15 to 26 barg (for system charged with R404A and R407C) and 8 to 16 barg (for system charged with R134a).
- Check the current of condensing unit and ensure it below the isolator setting value.
- Check condenser fan, ensure warm air blowing off the condenser coil.
- Check evaporator blower, ensure it's discharging cool air.
- Check suction superheat and adjust expansion valve to prevent liquid flood back to the compressor. Recommended 5 to 20 K of suction superheat.
- Do not leave the system unattended until the system has reached its normal operating condition and the oil charge has properly adjusted itself to maintain the proper level in the sight glass.
- Check periodically the compressor performance and all the moving components during the first day of operation.
- Check the liquid line sight glass and expansion valve operation. If there is an indication that the system is low on refrigerant, thoroughly check the system for leaks before adding refrigerant.

13 Trouble Shooting

This troubleshooting guide describes some common condensing unit failure. Consult qualified personnel before any corrective actions are taken.

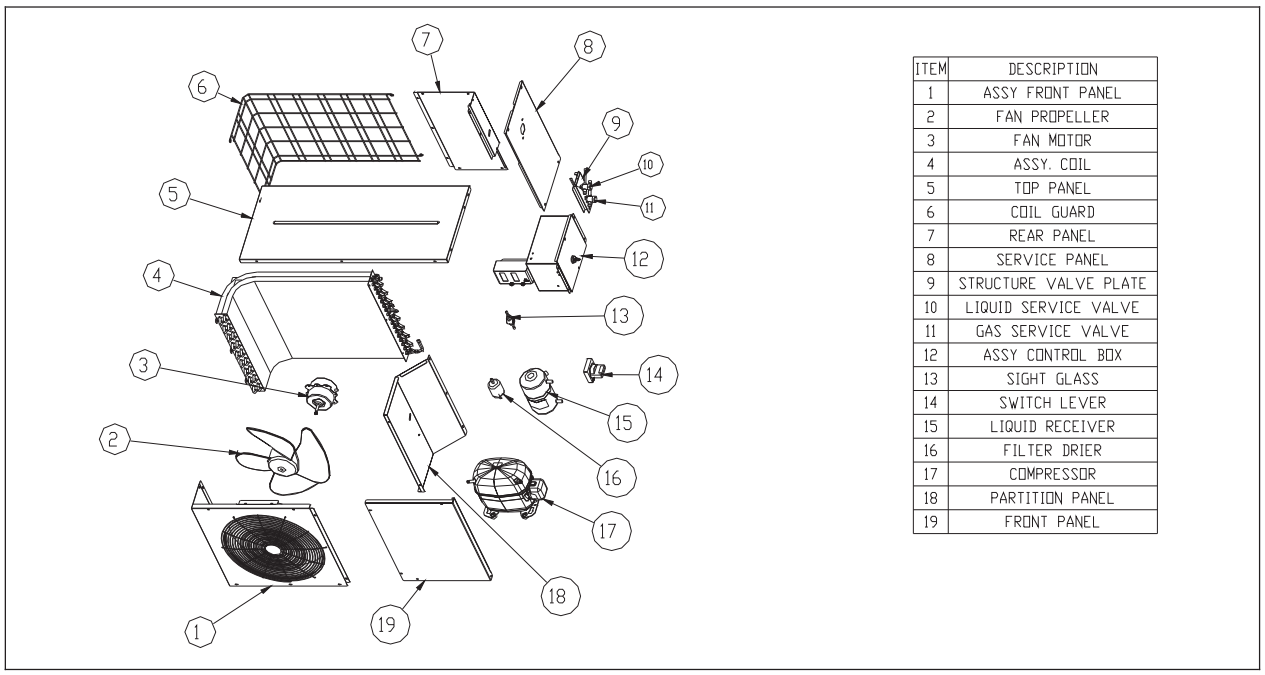
Failure	Possible Causes
Fan does not work	• Improper wiring • Fan motor faulty
Compressor does not start	• Improper wiring • Defective contactor or coil • System stopped because of tripped of safety device. • Defective start/run capacitor • Compressor faulty
Insufficient cooling	• Low refrigerant charge • Condenser coil dirty • Obstacle blocking air inlet/outlet • Improper thermostat setting

Important Note

Warning! - Immediately shut off power of the unit if there is any event of accident or breakdown.

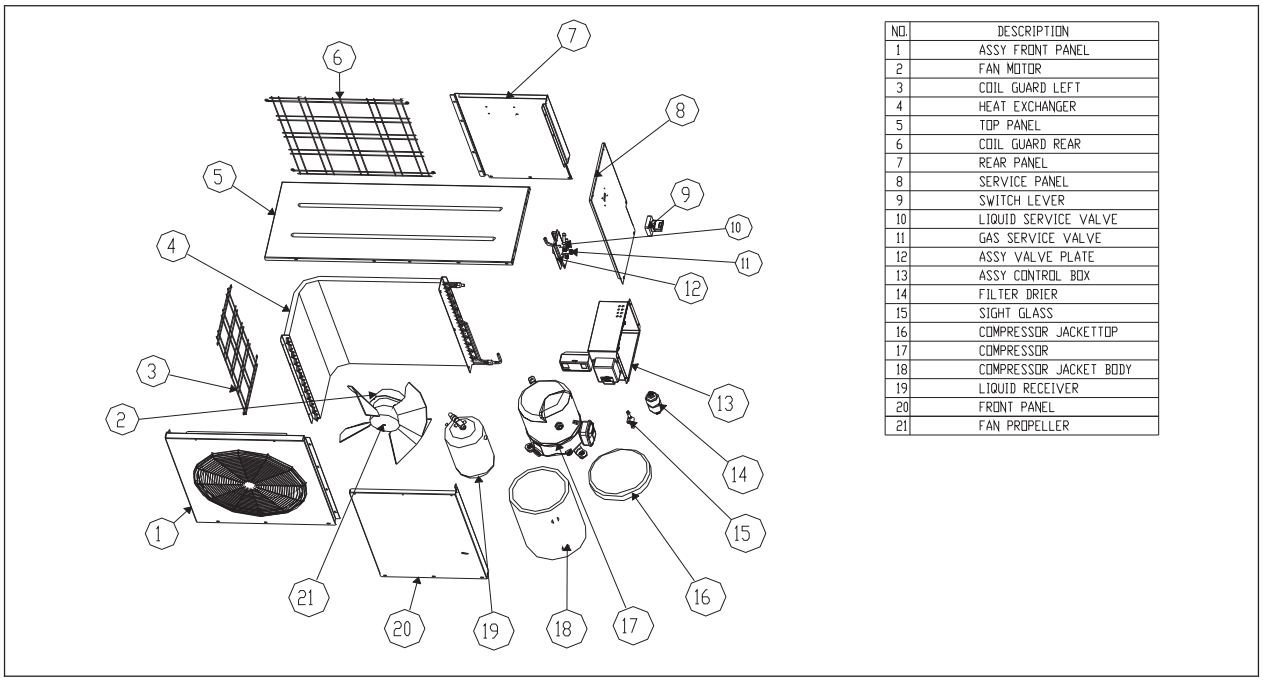
14 Exploded view of the condensing unit

Series 1 (230V/1~/50Hz): Medium temperature: JEHCCU0050M1, JEHCCU088M1
Low temperature: JEHCCU0075L1



ITEM	DESCRIPTION
1	ASSY FRONT PANEL
2	FAN PROPELLER
3	FAN MOTOR
4	ASSY. COIL
5	TOP PANEL
6	COIL GUARD
7	REAR PANEL
8	SERVICE PANEL
9	STRUCTURE VALVE PLATE
10	LIQUID SERVICE VALVE
11	GAS SERVICE VALVE
12	ASSY CONTROL BOX
13	SIGHT GLASS
14	SWITCH LEVER
15	LIQUID RECEIVER
16	FILTER DRIER
17	COMPRESSOR
18	PARTITION PANEL
19	FRONT PANEL

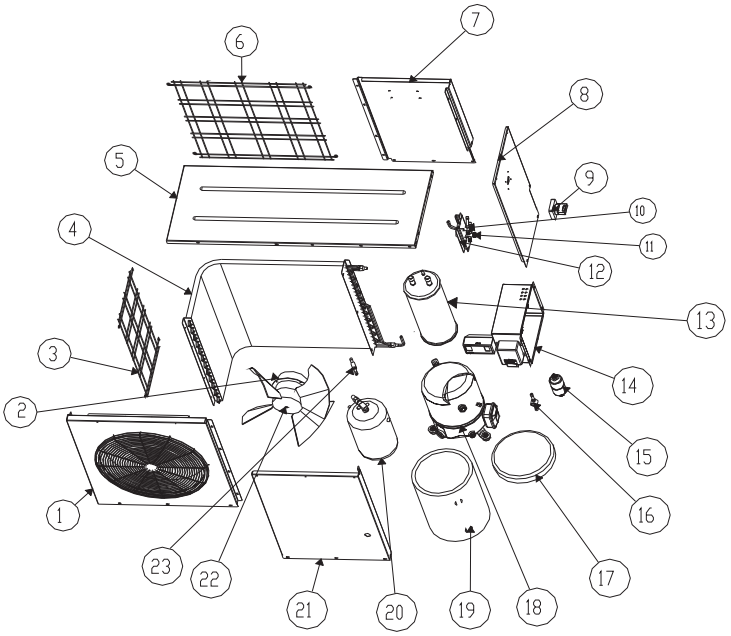
Series 2 (230V/1~/50Hz): Medium temperature:JEHCCU0150M1, JEHCCU0225M1, JEHCCU0300M1
Series 2 (400V/3~/50Hz): Medium temperature: JEHCCU0150M3, JEHCCU0225M3, JEHCCU0300M3



NO.	DESCRIPTION
1	ASSY FRONT PANEL
2	FAN MOTOR
3	COIL GUARD LEFT
4	HEAT EXCHANGER
5	TOP PANEL
6	COIL GUARD REAR
7	REAR PANEL
8	SERVICE PANEL
9	SWITCH LEVER
10	LIQUID SERVICE VALVE
11	GAS SERVICE VALVE
12	ASSY VALVE PLATE
13	ASSY CONTROL BOX
14	FILTER DRIER
15	SIGHT GLASS
16	COMPRESSOR JACKETTOP
17	COMPRESSOR
18	COMPRESSOR JACKET BODY
19	LIQUID RECEIVER
20	FRONT PANEL
21	FAN PROPELLER

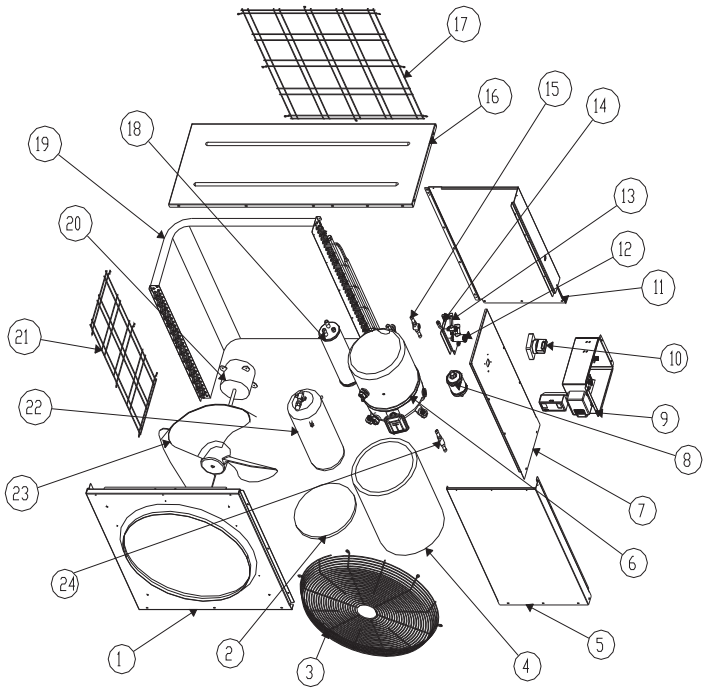
14 Exploded view of the condensing unit

Series 2 (230V/1~/50Hz): Low temperature: JEHCCU0225L1, JEHCCU-0175L1
Series 2 (400V/3~/50Hz): Low temperature: JEHCCU0225L3, JEHCCU-0175L3



NO.	DESCRIPTION
1	ASSY FRONT PANEL
2	FAN MOTOR
3	COIL GUARD LEFT
4	HEAT EXCHANGER
5	TOP PANEL
6	COIL GUARD REAR
7	REAR PANEL
8	SERVICE PANEL
9	SWITCH LEVER
10	LIQUID SERVICE VALVE
11	GAS SERVICE VALVE
12	ASSY VALVE PLATE
13	OIL SEPARATOR
14	ASSY CONTRL BOX
15	FILTER DRIER
16	SIGHT GLASS
17	COMPRESSOR JACKET TOP
18	COMPRESSOR
19	COMPRESSOR JACKET BODY
20	LIQUID RECEIVER
21	FRONT PANEL
22	FAN PROPELLER
23	CHECK VALVE

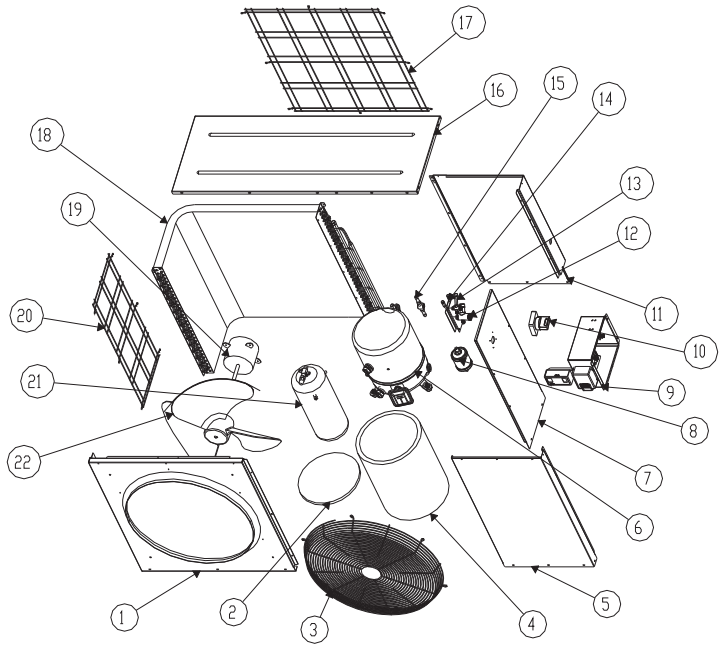
Series 3 (400V/3~/50Hz): Low temperature: JEHCCU0350L3, JEHCCU0400L3



NO.	DESCRIPTION
1	ASSY FRONT PANEL
2	COMPRESSOR JACKET TOP
3	FAN GUARD
4	COMPRESSOR JACKET BODY
5	FRONT PANEL
6	COMPRESSOR
7	SERVICE PANEL
8	FILTER DRIER
9	ASSY CONTROL BOX
10	SWITCH LEVER
11	REAR PANEL
12	GAS SERVICE VALVE
13	LIQUID SERVICE VALVE
14	ASSY VALVE PLATE
15	SIGHT GLASS
16	TOP PANEL
17	COIL GUARD REAR
18	OIL SEPARATOR
19	HEAT EXCHANGER
20	FAN MOTOR
21	COIL GUARD LEFT
22	LIQUID RECEIVER
23	FAN PROPELLER
24	CHECK VALVE

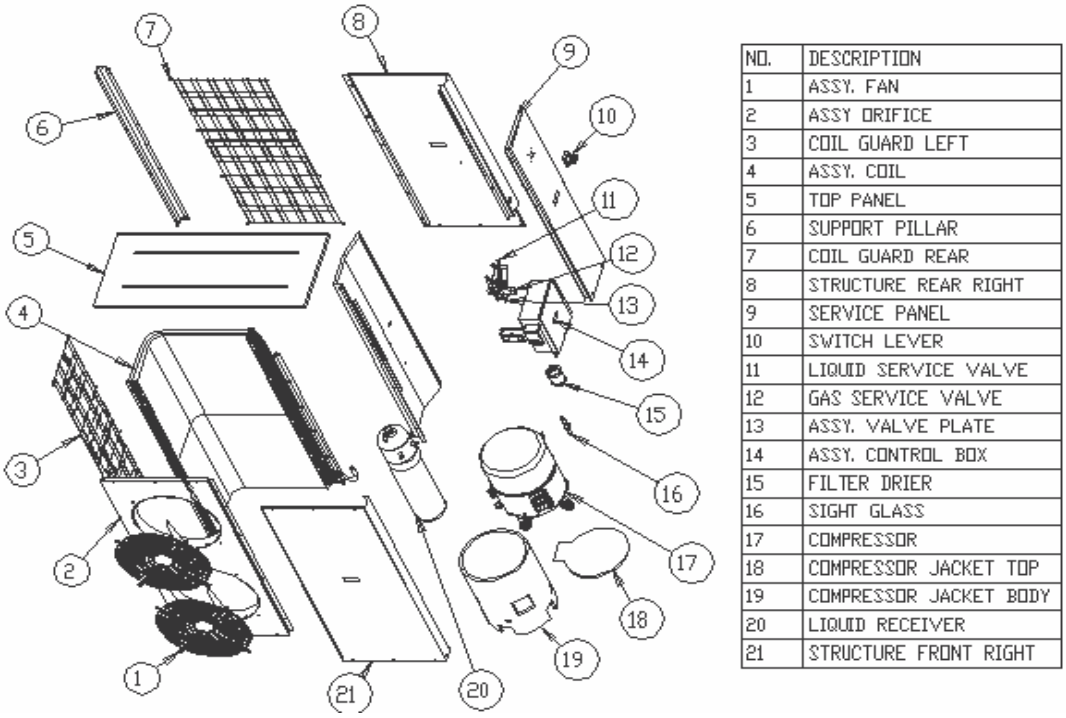
14 Exploded view of the condensing unit

Series 3 (400V/3~/50Hz): Medium temperature: JEHCCU0400M3, JEHCCU0500M3, JEHCCU0600M3, JEHCCU0675M3



NO.	DESCRIPTION
1	ASSY FRONT PANEL
2	COMPRESSOR JACKET TOP
3	FAN GUARD
4	COMPRESSOR JACKET BODY
5	FRONT PANEL
6	COMPRESSOR
7	SERVICE PANEL
8	FILTER DRIER
9	ASSY CONTROL BOX
10	SWITCH LEVER
11	REAR PANEL
12	GAS SERVICE VALVE
13	LIQUID SERVICE VALVE
14	ASSY VALVE PLATE
15	SIGHT GLASS
16	TOP PANEL
17	COIL GUARD REAR
18	HEAT EXCHANGER
19	FAN MOTOR
20	COIL GUARD LEFT
21	LIQUID RECEIVER
22	FAN PROPELLER

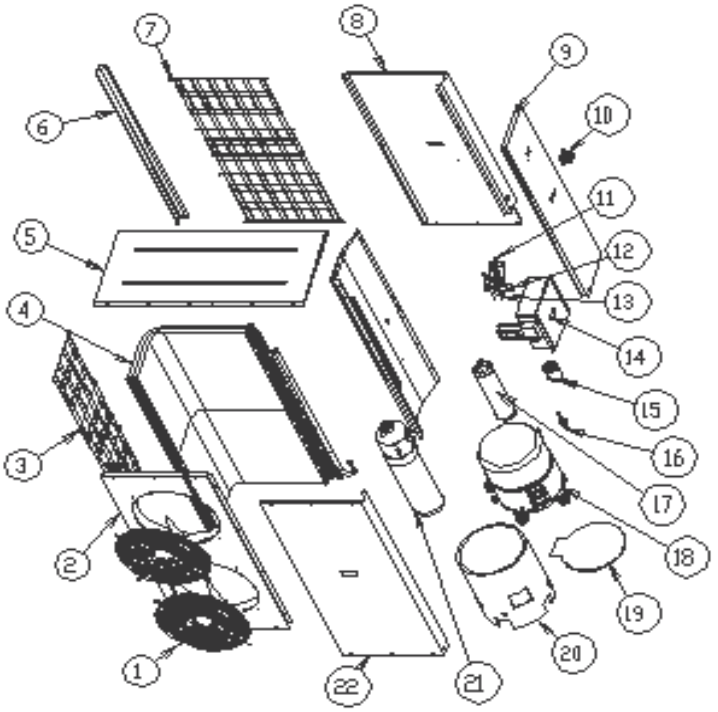
Series 4 (400V/3~/50Hz): Medium temperature: JEHCCU0825M3, JEHCCU1000M3



NO.	DESCRIPTION
1	ASSY. FAN
2	ASSY ORIFICE
3	COIL GUARD LEFT
4	ASSY. COIL
5	TOP PANEL
6	SUPPORT PILLAR
7	COIL GUARD REAR
8	STRUCTURE REAR RIGHT
9	SERVICE PANEL
10	SWITCH LEVER
11	LIQUID SERVICE VALVE
12	GAS SERVICE VALVE
13	ASSY. VALVE PLATE
14	ASSY. CONTROL BOX
15	FILTER DRIER
16	SIGHT GLASS
17	COMPRESSOR
18	COMPRESSOR JACKET TOP
19	COMPRESSOR JACKET BODY
20	LIQUID RECEIVER
21	STRUCTURE FRONT RIGHT

14 Exploded view of the condensing unit

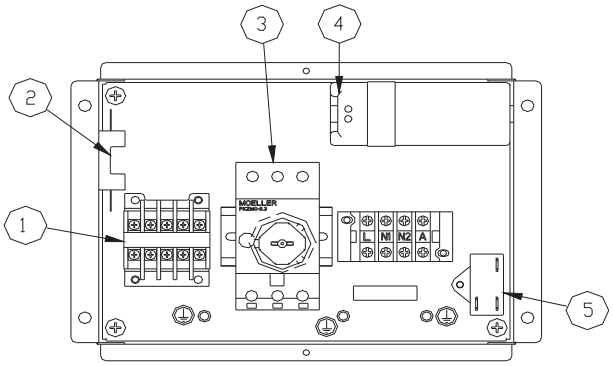
Series 4 (400V/3~/50Hz): Low temperature: JEHCCU0725L3, JEHCCU0825L3



NO.	DESCRIPTION
1	ASSY. FAN
2	ASSY ORIFICE
3	COIL GUARD LEFT
4	ASSY. COIL
5	TOP PANEL
6	SUPPORT PILLAR
7	COIL GUARD REAR
8	STRUCTURE REAR RIGHT
9	SERVICE PANEL
10	SWITCH LEVER
11	LIQUID SERVICE VALVE
12	GAS SERVICE VALVE
13	ASSY. VALVE PLATE
14	ASSY. CONTROL BOX
15	FILTER DRIER
16	SIGHT GLASS
17	OIL SEPARATOR
18	COMPRESSOR
19	COMPRESSOR JACKET TOP
20	COMPRESSOR JACKET BODY
21	LIQUID RECEIVER
22	STRUCTURE FRONT RIGHT

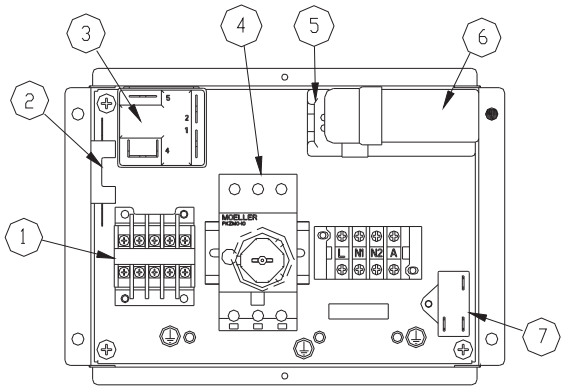
15 Exploded view of the control box

SERIES 1 CONTROL BOX (SINGLE PHASE)
Model: JEHCCU0050M1 & JEHCCU0075L1



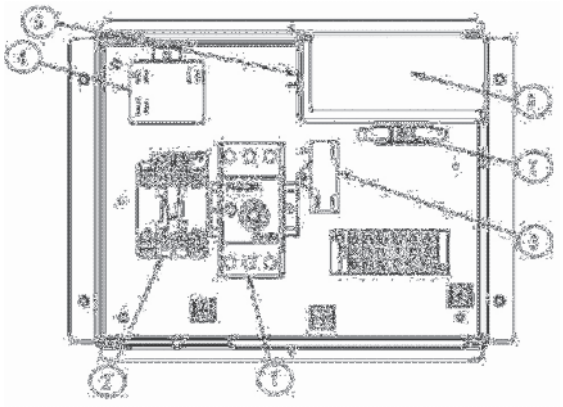
Item	Description
1	CONTACTOR
2	FUSE 3.15 A
3	ISOLATOR
4	START CAPACITOR
5	FAN CAPACITOR

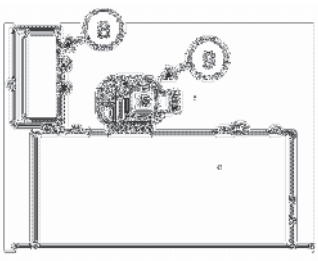
SERIES 1 CONTROL BOX (SINGLE PHASE)
Model: JEHCCU0088M1



Item	Description
1	CONTACTOR
2	FUSE 3.15 A
3	START RELAY
4	ISOLATOR
5	START CAPACITOR
6	RUN CAPACITOR
7	FAN CAPACITOR

SERIES 2 CONTROL BOX (SINGLE PHASE)
Model: JEHCCU0150M1, JEHCCU0175L1, JEHCCU0225L1, JEHCCU0225M1, JEHCCU0300M1



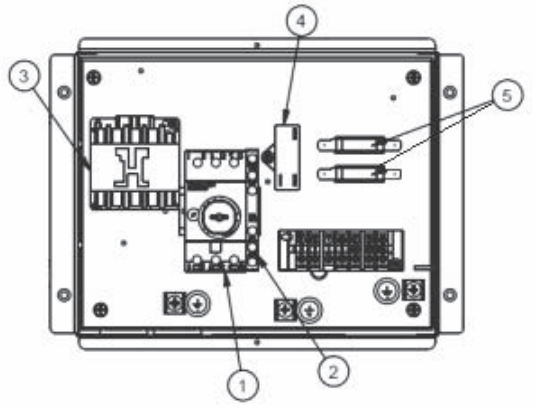


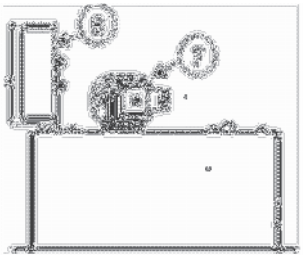
Item	Description
1	ISOLATOR
2	CONTACTOR
3	FAN CAPACITOR
4	START RELAY
5	RUN CAPACITOR
6	START CAPACITOR
7	FUSE 3.15 A
8	H/L PRESS.SWITCH
9	FAN SPEED CONTROLLER

15 Exploded view of the control box

SERIES 2 CONTROL BOX (THREE PHASE)

Model: JEHCCU0150M3, JEHCCU0175L3, JEHCCU0225L3, JEHCCU0225M3, JEHCCU0300M3

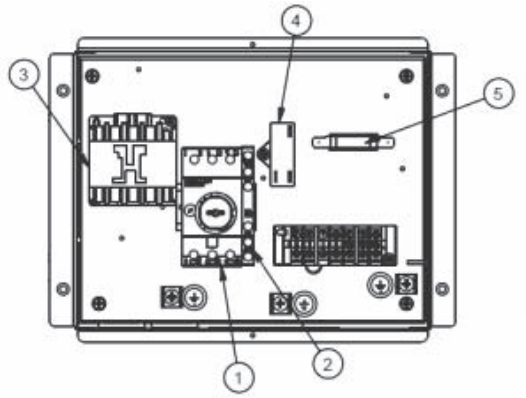


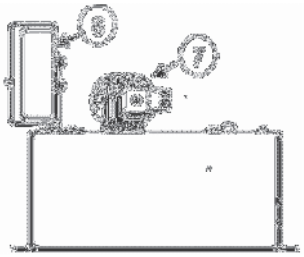


Item	Description
1	ISOLATOR
2	AUXILLARY CONTACTOR
3	CONTACTOR
4	FAN CAPACITOR
5	FUSE 3.15 A
6	H/L PRESS.SWITCH
7	FAN SPEED CONTROLLER

SERIES 3 CONTROL BOX (THREE PHASE)

Models: JEHCCU0350L3, JEHCCU0400L3, JEHCCU0400M3, JEHCCU0500M3, JEHCCU0600M3, JEHCCU0675M3

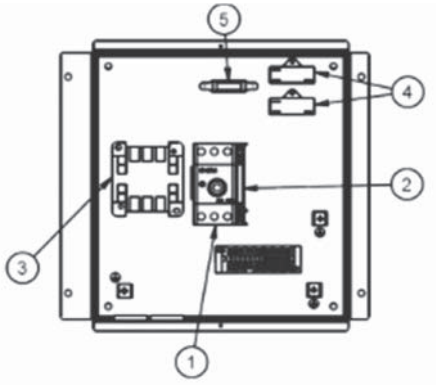


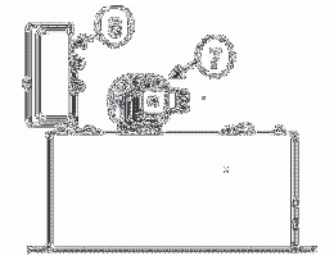


Item	Description
1	ISOLATOR
2	AUXILLARY CONTACTOR
3	CONTACTOR
4	FAN CAPACITOR
5	FUSE 3.15 A
6	H/L PRESS.SWITCH
7	FAN SPEED CONTROLLER

SERIES 4 CONTROL BOX (THREE PHASE)

Models: JEHCCU0725L3, JEHCCU0825L3, JEHCCU0825M3, JEHCCU1000M3





Item	Description
1	ISOLATOR
2	AUXILLARY CONTACTOR
3	CONTACTOR
4	FAN CAPACITOR
5	FUSE 3.15 A
6	H/L PRESS.SWITCH
7	FAN SPEED CONTROLLER

16 Declaration of Conformity

J&E/DOC/001-09(2)

CE

Declaration of Conformity

Konformitätsbescheinigung
Déclaration de Conformité
Conformiteitsverklaring
Declaracion de Conformidad
Dichiarazione di Conformità
Overensstemmelseserklæring
Declaração de Conformidade
Δήλωση Συμμόρφωσης

J & E HALL REFRIGERATION SDN. BHD.

LOT 10, JALAN PERUSAHAAN 8, KAWASAN PERUSAHAAN PEKAN BANTING, 42700 BANTING, SELANGOR DARUL EHSAN, MALAYSIA.

declare under our sole responsibility that the products
bescheinigen auf unsere eigene Verantwortung, daß die Produkten
déclarons sous notre seule responsabilité que les produits
verklaren onder onze uitsluitende verantwoordelijkheid de producten
declaramos sobre nuestra sola responsabilidad que los productos
dichiariamo sotto nostra sola responsabilità che i prodotti
erklærer som eneansvarlige, at produktet
declaramos sob a nossa responsabilidade exclusiva que os produtos
δηλώνει υπό την αποκλειστική της ευθύνη ότι τα προϊόντα

COMMERCIAL REFRIGERATION CONDENSING UNIT
Unidad que condensa comercial de la refrigeración
Unité de condensation commerciale de réfrigération
Commerciële condenserende koel-unit
Kommerzielle kondensierende Maseinheit der Abkühlung
Unità condensante commerciale di refrigerazione
kølekondenseringsenheden til kommercielt brug
Unidade de condensação de refrigeração
Εμπορική Μονάδα Συμπύκνωσης Ψύξης

Model Designations:	See Appendix 1 overleaf
Baumuster-Bezeichnungen:	*Sehen sie anhang 1 umseitig*
Désignations Modèles:	*Voir l'annexe 1 au verso*
Aanduidingen Model:	*Zie ommezijde voor bijlage 1*
Designaciones Modelo:	*Vea el apendice 1 a la vuelta*
ndicazioni de Modello:	*Veda overleaf l'appendice 1*
modelbetegnelse:	*se appendiks 1 på bagsiden*
Designações do modelo:	*Ver Apêndice 1 verso*
Ονομασίες μοντέλων:	*Βλ. Παράρτημα 1 στο πίσω μέρος της σελίδας*

which this declaration relates is in conformity with the requirements of the following directives
auf diese Bescheinigung sich beziehen, sind den Vorschriften der Normen entsprechend
auxquels se réfèrent cette declaration, sont conformes aux prescriptions des directives
waarop deze verklaring betrekking heeft, in overeenstemming is/zijn met de eisen van de volgende richtlijnen
a los cuales se refieren esta declaracion, son conformes a las prescripciones de las directivas
alla quale si riferisce questa dichiarazione, sono conformi alle prescrizioni delle direttive
som denne erklæring vedrører, er i overensstemmelse med kravene fremsat i følgende direktiver
que esta declaração está conforme os requerimentos das seguintes directrizes
τα οποία αφορά αυτή η δήλωση συμμορφώνονται με τις απαιτήσεις των παρακάτω οδηγιών

Electromagnetic Compatibility Directive	**2004/108/EC**
Machinery Directive *	**2006/42/EC**

The conformity was checked for EMC & MD in accordance with the following harmonised EN standard:
Die Konformität wurde auf EMC u. MD in Übereinstimmung mit dem folgenden harmonisierten en-Standard überprüft:
La conformité a été vérifiée pour EMC et MD conformément aux normes EN-harmonisées:
De conformiteit is gecontroleerd voor EMC en MD in overeenstemming met de volgende geharmoniseerde EN-norm:
La conformidad se repasa para EMC y MD de acuerdo con el siguiente EN-armonizadas:
La conformità è stata controllata per EMC e MD in conformità con il seguente standard armonizzato dell' EN:
Overensstemmelsen blev tjekket for EMC & MD i henhold til den harmoniserede EN-standard:
A conformidade foi verificada por EMC & MD de acordo com a norma harmonizada EN seguinte:
Η συμμόρφωση ελέγχθηκε ως προς τις οδηγίες EMC και MD σύμφωνα με το παρακάτω εναρμονισμένο πρότυπο EN:

EMC	**EN 61000-6-1(2001)**	Immunity for residential, commercial and light-industrial environments
	EN 61000-6-3(2001)	Emission standards for residential, commercial and light-industrial environments
MD	**EN 60335-1**	Safety of Household and Similar Electrical Appliances: Part I
	EN 60335-2-89	Safety of Household and Similar Electrical Appliances: Part II

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J & E HALL REFRIGERATION SDN. BHD
General Manager

Teh Yeow Chon
Issue Date: 30 April 2012

16 Declaration of conformity

J&E/DOC/001-09(2)

CE

Declaration of Conformity
Konformitätsbescheinigung
Déclaration de Conformité
Conformiteitsverklaring
Declaracion de Conformidad
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BANTING, 42700 BANTING, SELANGOR DARUL EHSAN, MALAYSIA.

Model Designations:
Baumuster-Bezeichnungen:
Designation Modeles:
Aanduidingen Model:
Disignaciones Modelo:
Indicazionu de Modello:
modelbetegnelse:
Designações do modelo:
Ονομασιες μοντέλου:

JEHCCU0050M1	JEHCCU0088M1	JEHCCU0150M1	JEHCCU0150M3
JEHCCU0225M1	JEHCCU0225M3	JEHCCU0300M1	JEHCCU0300M3
JEHCCU0400M3	JEHCCU0500M3	JEHCCU0600M3	JEHCCU0675M3
JEHCCU0825M3	JEHCCU1000M3		
JEHCCU0075L1	JEHCCU0175L1	JEHCCU0175L3	JEHCCU0225L1
JEHCCU0225L3	JEHCCU0350L3	JEHCCU0400L3	JEHCCU0725L3
JEHCCU0825L3			

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