DAIKIN

ΤΡΙΚ-ΤΡΑΚ ΧΑΤΖΗΑΓΓΕΛΙΔΗΣ

Refrigeration

Technical Data

Scroll Condensing Unit - JEHSCU

EEDEN13-780A

JEHSCU

J&E Hall International for DAIKIN

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JEHSCU

J&E Hall International for DAIKIN

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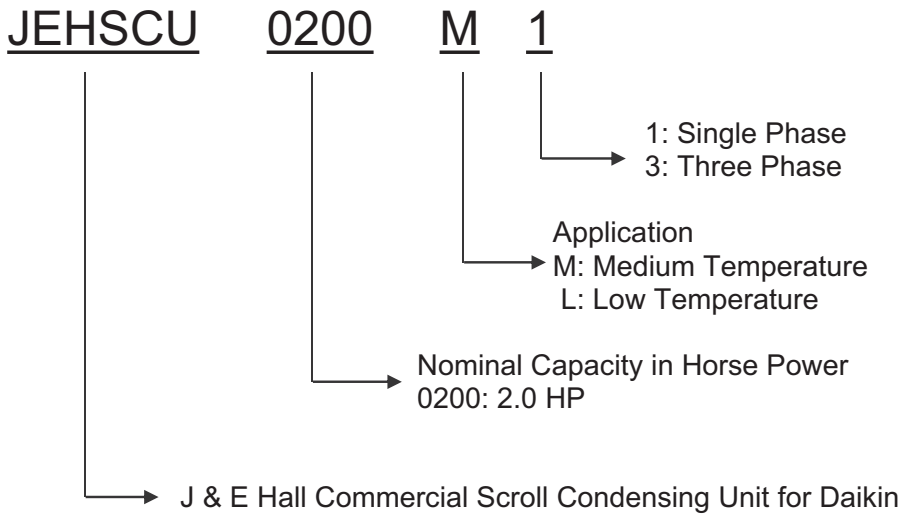
I Scroll Condensing Unit

1 Nomenclature



2 Product Overview

● R-134a ● R-404A

Capacity(kW) / Model	0.5	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Medium temperature*															
JEHSCU0200M1/3			◦	•											
JEHSCU0250M1/3			◦	•											
JEHSCU0300M1/3				◦	•										
JEHSCU0350M3				◦		•									
JEHSCU0400M3					◦		•								
JEHSCU0500M3						◦			•						
JEHSCU0600M3							◦			•					
JEHSCU0680M3							◦			•					
JEHSCU0800M3								◦					•		
JEHSCU1000M3										◦					•
Low temperature**															
JEHSCU0200L3		•													
JEHSCU0300L3		•													
JEHSCU0400L3			•												
JEHSCU0500L3				•											
JEHSCU0600L3				•											
JEHSCU0750L3					•										
JEHSCU0200L3						•									

* 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 9.

	Model	Series	Compressor			O/S[f]	Oil type	Electrical Data						Receiver	Connection		Dimensions			Weight (kg)	Sound pressure dB(A) at 1m[c]
			Type	Swept volume (m³/h)	Oil Charge (Liter)	Oil Charge (Liter)		Power Input	Nominal Current[a] (A)		Lock Rotor current (A)	MFA[b] (A)		Airflow (m³/h)	Volume (Liter)	Suction (inch)	Liquid (inch)	Width (mm)	Depth (mm)	Height (mm)		
									1[d]	2[e]		1[d]	2[e]									
Medium temperature	JEHSCU0200M1	2	ZB15KQE-PFJ	5.9	1.24	-	Oil A[g]	230V/1~/50Hz	8.28	-	58.0	15	15	2620	4.6	3/4	3/8	1108	478	650	88	50
	JEHSCU0200M3	2	ZB15KQE-TFD	5.9	1.24	-		400V/3~/50Hz	3.73	3.00	26.0	15	15	2620	4.6	3/4	3/8	1108	478	650	88	50
	JEHSCU0250M1	2	ZB19KQE-PFJ	6.8	1.30	-		230V/1~/50Hz	10.22	6.32	61.0	20	15	2620	4.6	3/4	3/8	1108	478	650	90	51
	JEHSCU0250M3	2	ZB19KQE-TFD	6.8	1.36	-		400V/3~/50Hz	4.72	3.42	32.0	15	15	2620	4.6	3/4	3/8	1108	478	650	90	51
	JEHSCU0300M1	2	ZB21KQE-PFJ	8.6	1.45	-		230V/1~/50Hz	13.25	7.57	82.0	25	20	2620	4.6	3/4	3/8	1108	478	650	92	54
	JEHSCU0300M3	2	ZB21KQE-TFD	8.6	1.45	-		400V/3~/50Hz	5.61	3.83	40.0	15	15	2620	4.6	3/4	3/8	1108	478	650	92	54
	JEHSCU0350M3	3	ZB26KQE-TFD	9.9	1.50	-		400V/3~/50Hz	6.63	4.64	46.0	15	15	6050	7.6	3/4	1/2	1332	556	884	114	55
	JEHSCU0400M3	3	ZB29KQE-TFD	11.4	1.36	-		400V/3~/50Hz	8.07	5.03	50.0	15	15	6050	7.6	7/8	1/2	1347	556	884	121	54
	JEHSCU0500M3	3	ZB38KQE-TFD	14.4	2.07	-		400V/3~/50Hz	10.45	6.43	65.5	20	15	6050	7.6	7/8	1/2	1347	556	884	126	55
	JEHSCU0600M3	3	ZB45KQE-TFD	17.1	1.89	-		400V/3~/50Hz	10.83	6.27	74.0	20	15	5180	7.6	7/8	1/2	1347	556	884	128	60
	JEHSCU0680M3	3	ZB48KQE-TFD	18.8	1.80	-		400V/3~/50Hz	10.97	8.63	101.0	20	20	5180	7.6	7/8	1/2	1347	556	884	129	60
	JEHSCU0800M3	4	ZB58KCE-TFD	22.1	2.50	-		400V/3~/50Hz	13.6	10.54	95.0	25	20	6770	14.0	1 1/8	1/2	1261	594	1435	201	64
	JEHSCU1000M3	4	ZB76KCE-TFD	29.1	3.20	-		400V/3~/50Hz	18.01	12.69	118.0	35	25	6770	14.0	1 3/8	1/2	1261	594	1435	201	64
Low temperature	JEHSCU0200L3	2	ZF06K4E-TFD	5.9	1.30	0.50	Oil B[h]	400V/3~/50Hz	3.29	-	26.0	15	-	2620	4.6	3/4	3/8	1108	478	650	94	47
	JEHSCU0300L3	2	ZF09K4E-TFD	8.0	1.50	0.50		400V/3~/50Hz	5.25	-	40.0	15	-	2620	4.6	3/4	3/8	1108	478	650	96	48
	JEHSCU0400L3	3	ZF13K4E-TFD	11.8	1.90	0.60		400V/3~/50Hz	6.03	-	51.5	15	-	6050	7.6	7/8	1/2	1347	556	884	129	55
	JEHSCU0500L3	3	ZF15K4E-TFD	14.5	1.90	0.60		400V/3~/50Hz	7.48	-	64.0	15	-	6050	7.6	7/8	1/2	1347	556	884	130	56
	JEHSCU0600L3	3	ZF18K4E-TFD	17.1	1.90	0.60		400V/3~/50Hz	7.66	-	74.0	15	-	6050	7.6	7/8	1/2	1347	556	884	130	61
	JEHSCU0750L3	4	ZF24K4E-TWD	20.9	4.10	0.60		400V/3~/50Hz	11.65	-	99.0	20	-	6770	14.0	1 3/8	1/2	1261	594	1435	218	61
	JEHSCU1000L3	4	ZF33K4E-TWD	28.8	4.10	0.60		400V/3~/50Hz	13.92	-	127.0	30	-	6770	14.0	1 3/8	1/2	1261	594	1435	218	62

[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] O/S = Oil Separator

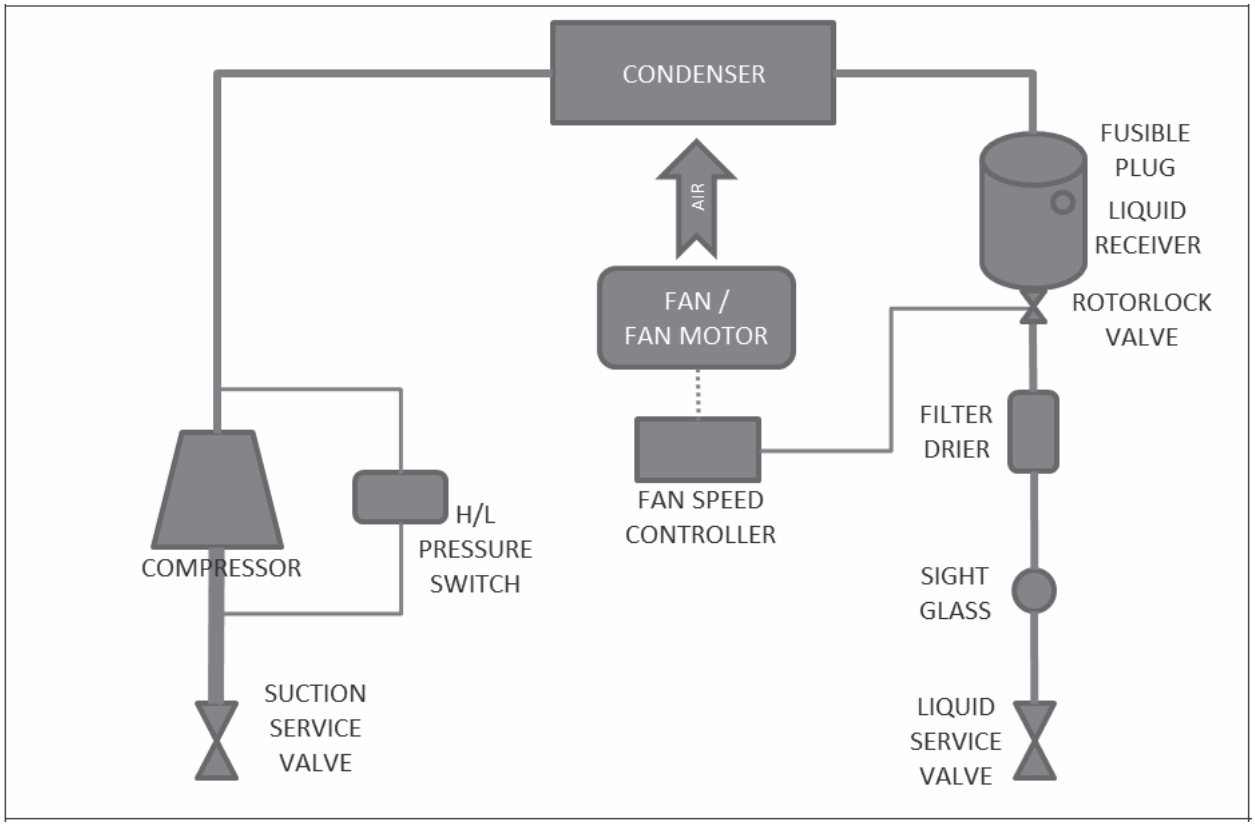
[g] Oil A = Polyester oil (Copeland Ultra 22 CC, Copeland Ultra 32 CC, Copeland Ultra 32-3MAF, Mobil EAL™ Arctic 22 CC, Uniqema Emkarate RL32CF)

[h] Oil B = Mobil Arctic 22CC

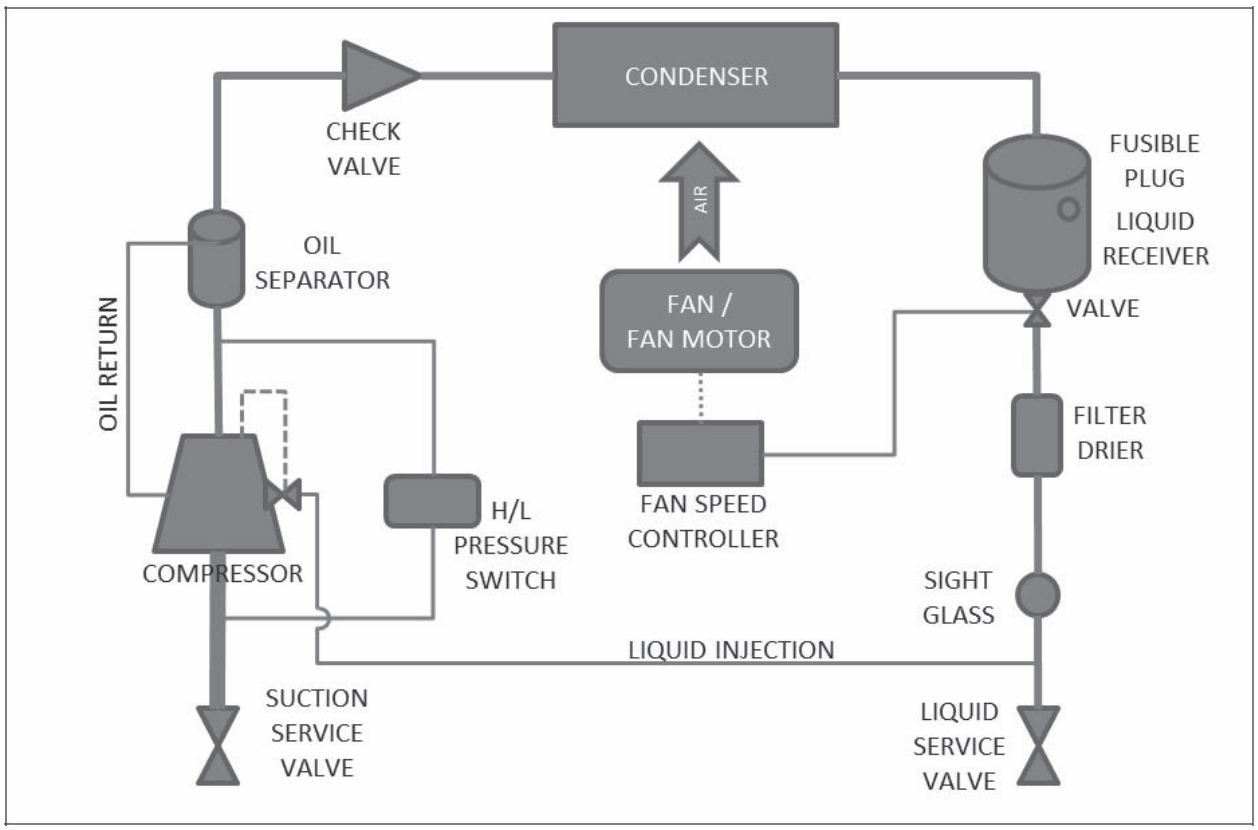
Note: condensing units are pre-charged with oil as stated in table

4 Product System Cycles

Series 2 & 3: Medium Temperature Models

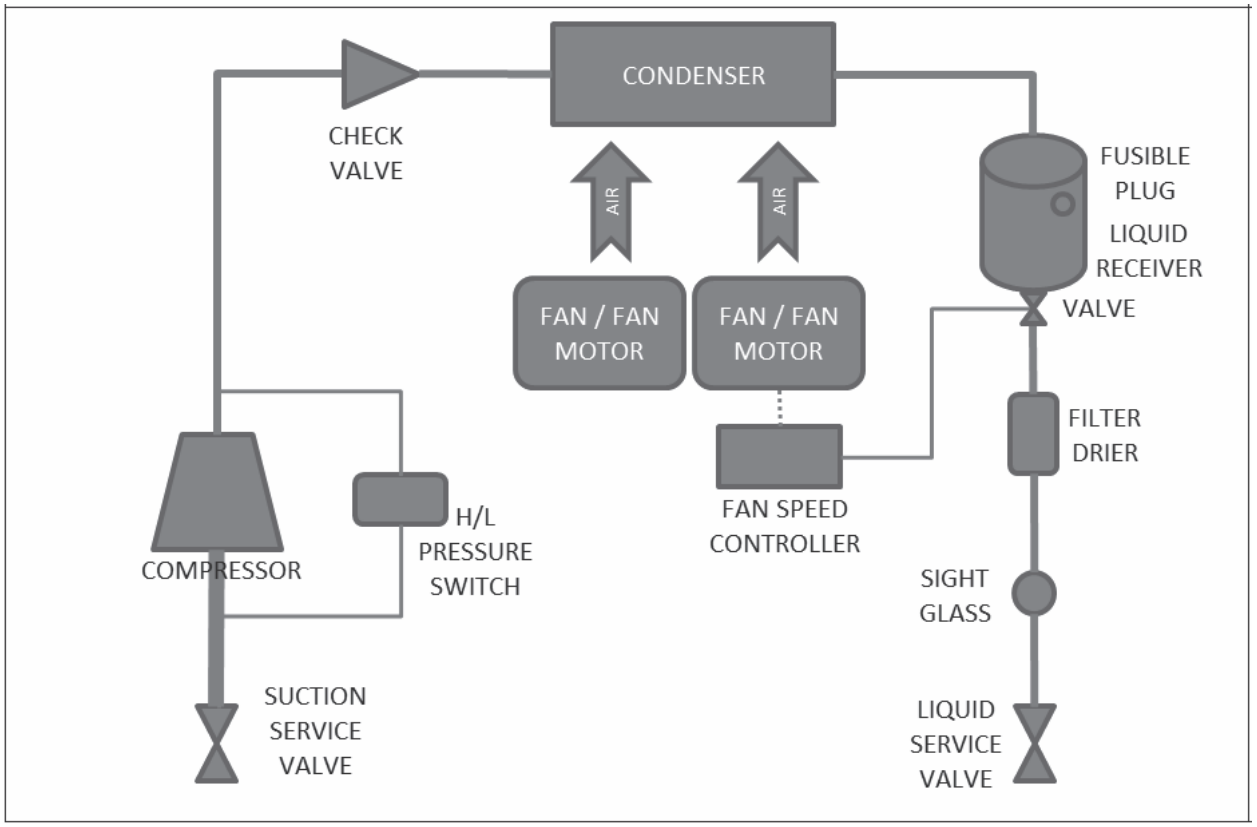


Series 2 & 3: Low Temperature Models

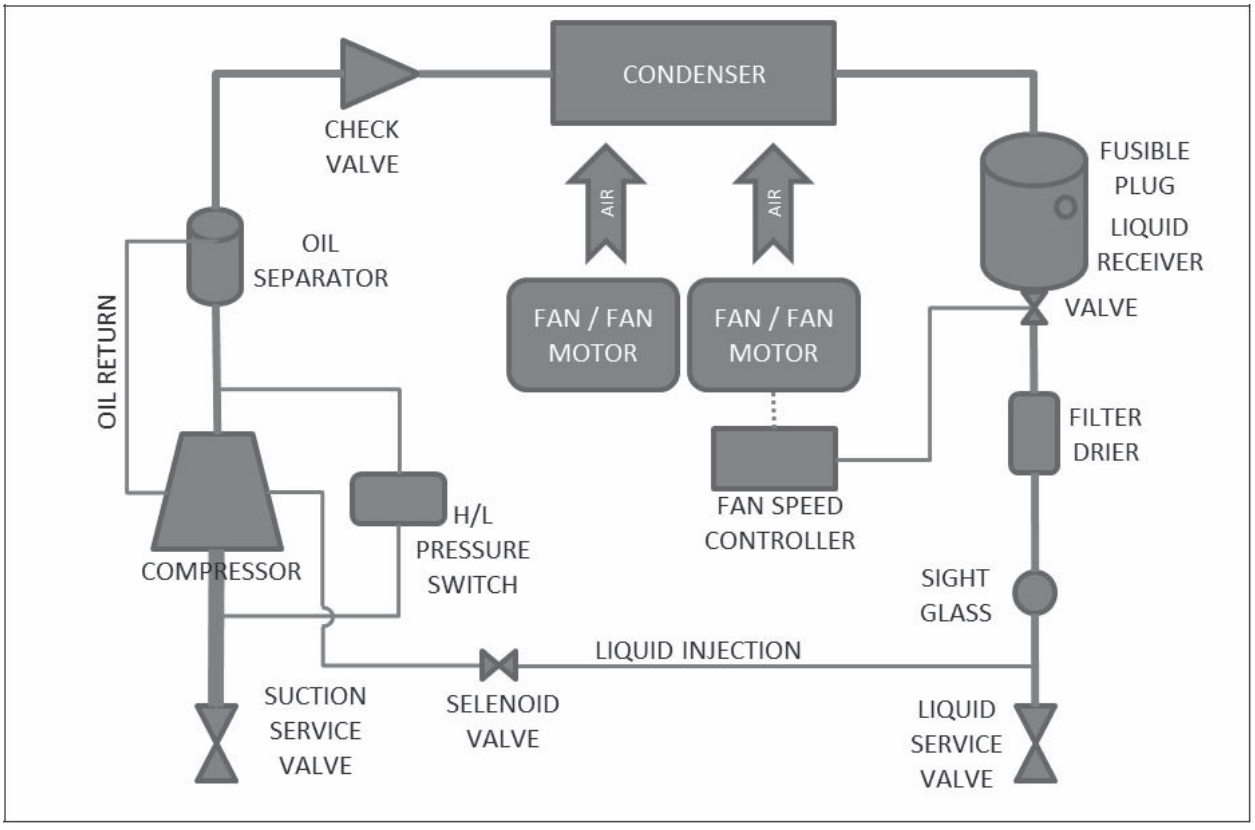


4 Product System Cycles

Series 4: Medium Temperature Models

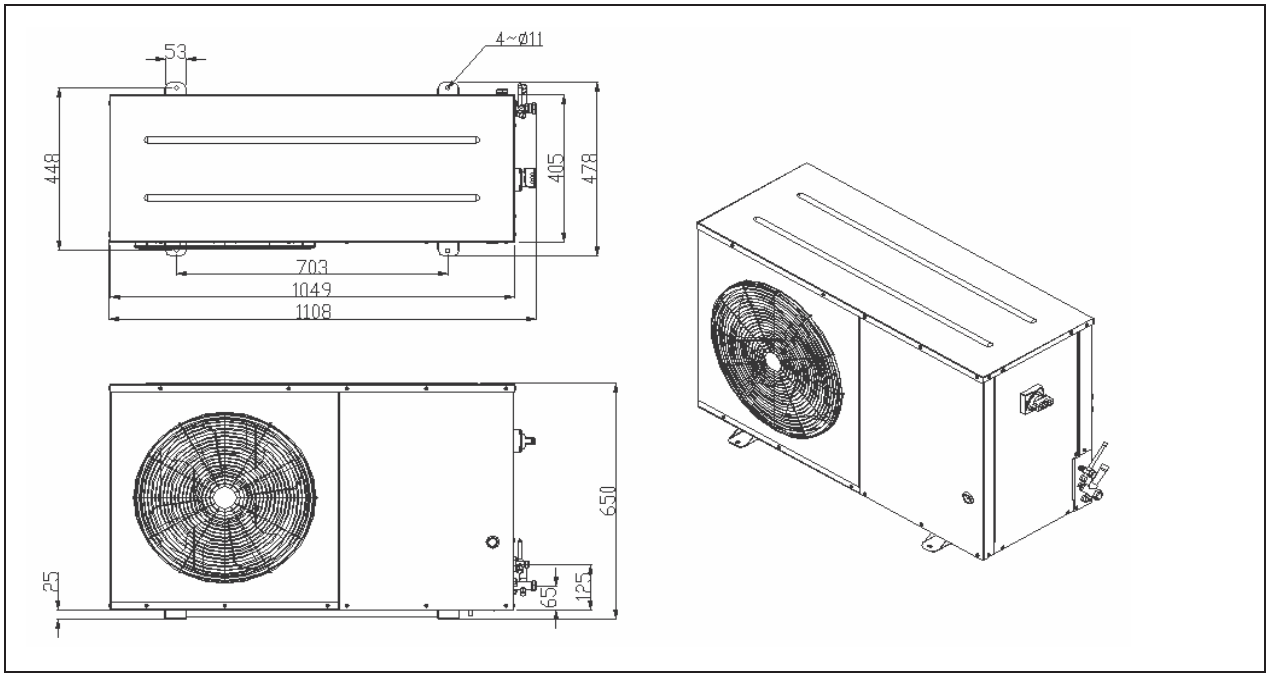


Series 4: Low Temperature Models

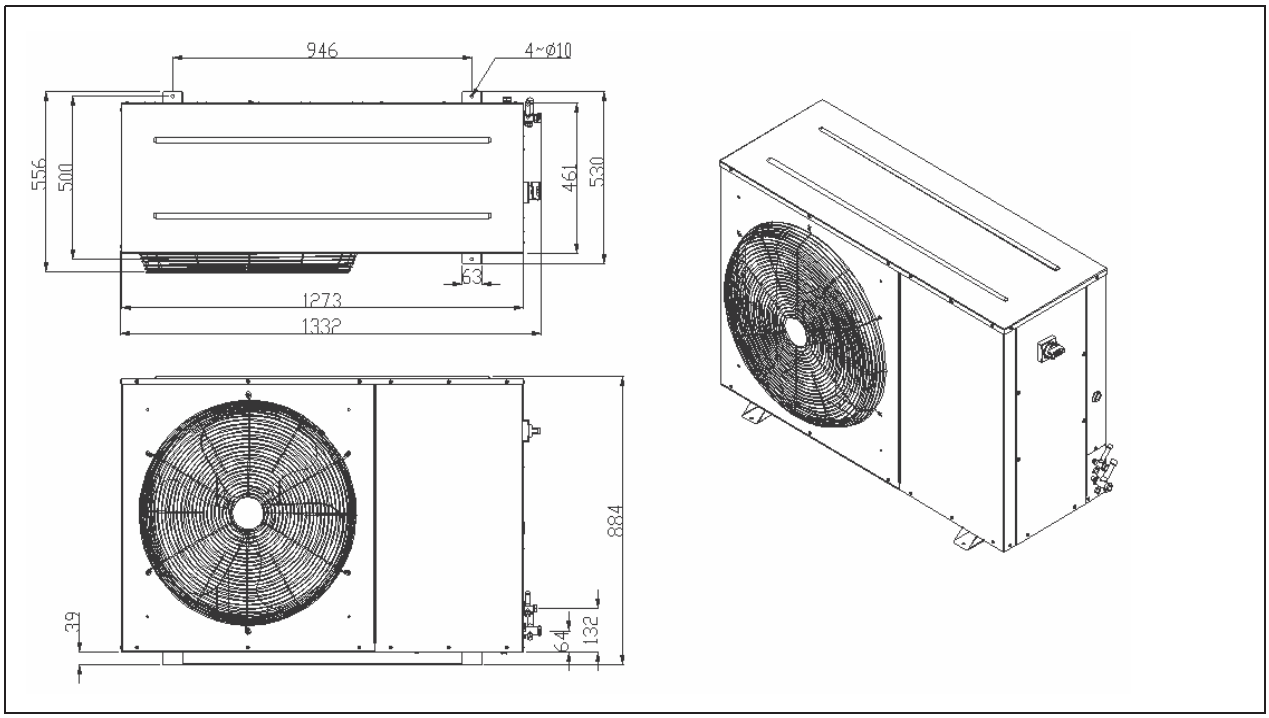


5 Outline Drawings

Series 2: JEHSCU0200M1, JEHSCU0250M1, JEHSCU0300M1, JEHSCU0200M3, JEHSCU0250M3, JEHSCU0300M3, JEHSCU0200L3, JEHSCU0300L3

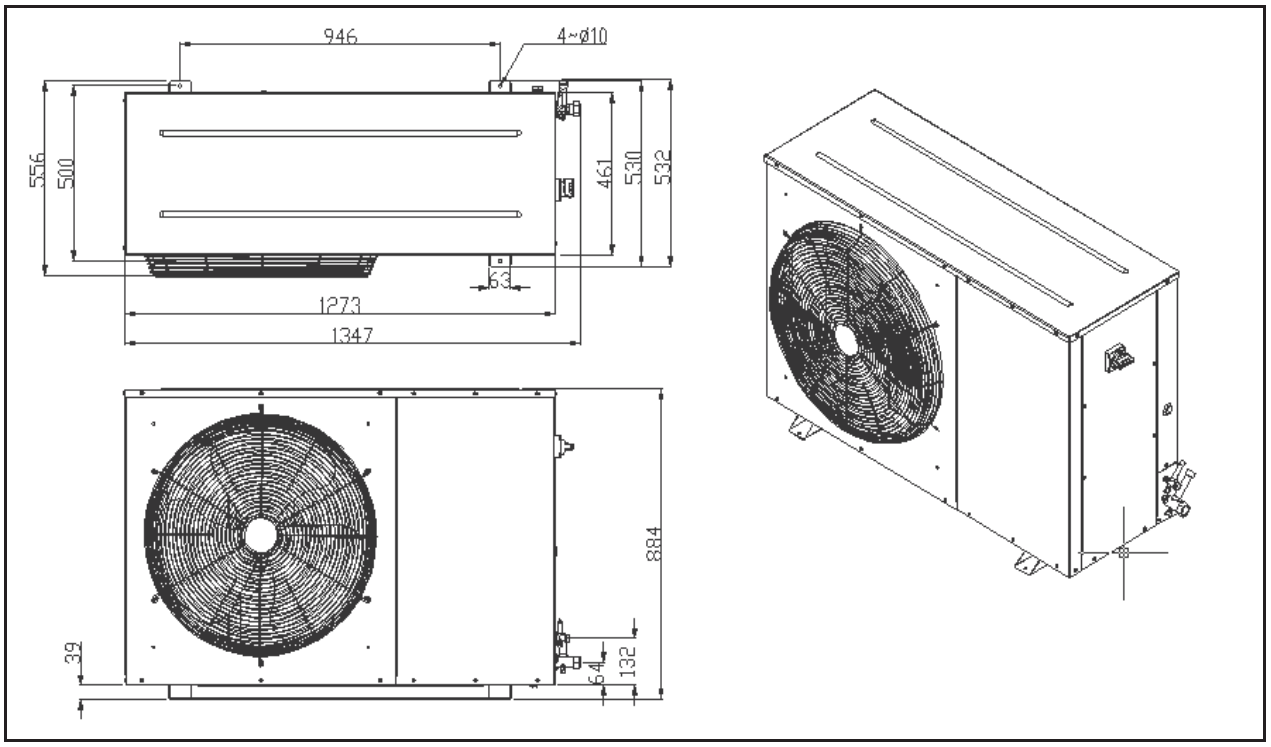


Series 3: JEHSCU0350M3

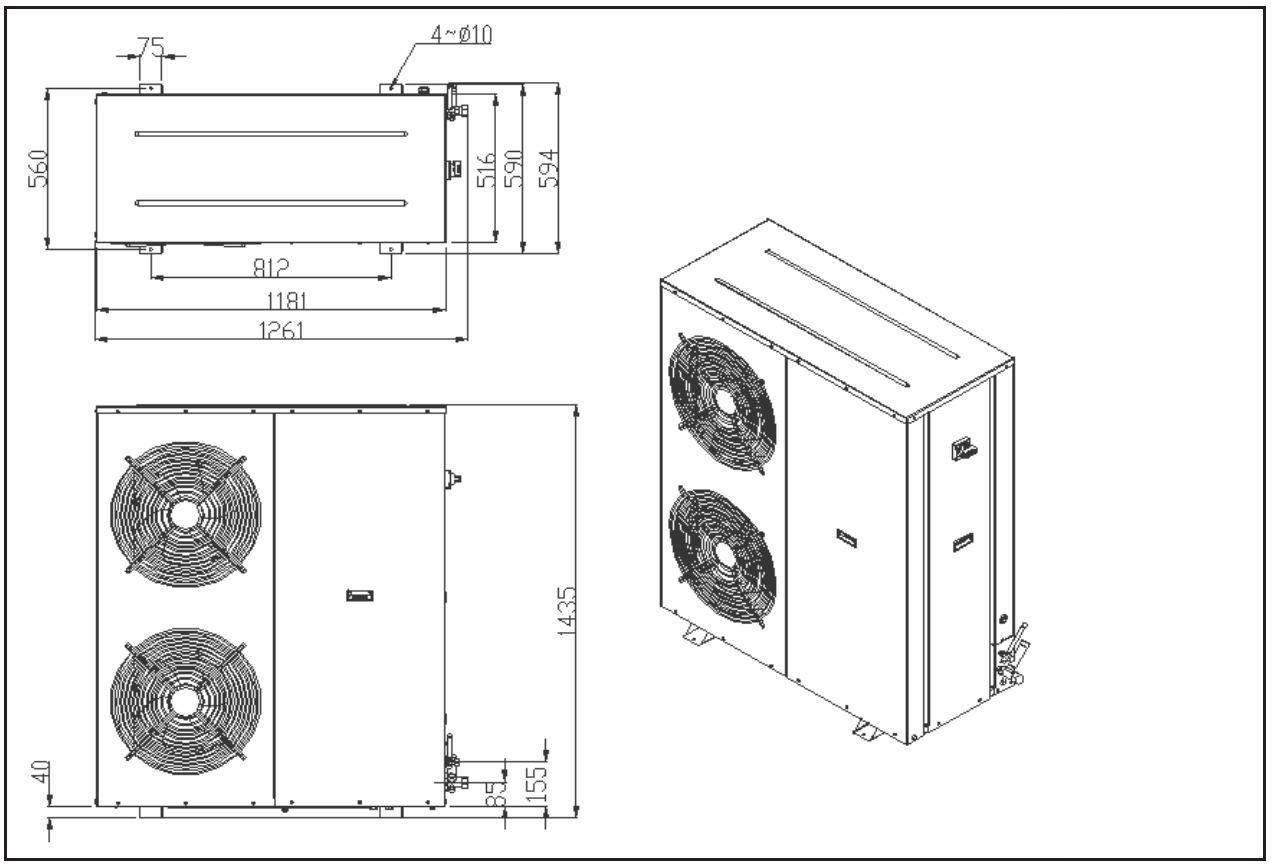


5 Outline Drawings

Series 3: JEHSCU0400M3, JEHSCU0500M3, JEHSCU0600M3, JEHSCU0680M3, JEHSCU0400L3, JEHSCU0500L3, JEHSCU0600L3



Series 4: JEHSCU0800M3, JEHSCU1000M3, JEHSCU0750L3, JEHSCU1000L3



6 Performance Data

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

Series	MODEL	HP	COMPRESSOR	TE / TA		-20	-15	-10	-5	0	5
Series 2	JEHSCU0200M1/3	2	ZB15KQE-PFJ ZB15KQE-TFD	27	CC (W)	2500	3050	3650	4350	5150	6019
					PC (W)	1460	1510	1560	1600	1630	1655
				32	CC (W)	2315	2820	3400	4050	4800	5617
					PC (W)	1590	1630	1680	1720	1760	1799
				38	CC (W)	2075	2545	3050	3700	4400	5197
					PC (W)	1770	1810	1860	1900	1940	1979
				43	CC (W)	1870	2310	2805	3400	4050	4782
					PC (W)	1930	1960	2010	2040	2080	2118
	JEHSCU0250M1/3	2.5	ZB19KQE-PFJ ZB19KQE-TFD	27	CC (W)	2750	3400	4100	4950	5850	6859
					PC (W)	1910	1940	1970	2000	2040	2077
				32	CC (W)	2595	3200	3900	4650	5550	6506
					PC (W)	2030	2060	2100	2130	2170	2208
				38	CC (W)	2395	2950	3600	4350	5250	6236
					PC (W)	2200	2240	2270	2300	2320	2336
				43	CC (W)	2200	2725	3350	4050	4900	5824
					PC (W)	2370	2410	2430	2450	2470	2478
	JEHSCU0300M1/3	3	ZB21KQE-PFJ ZB21KQE-TFD	27	CC (W)	3400	4200	5050	6100	7250	8529
					PC (W)	2480	2520	2570	2610	2670	2726
				32	CC (W)	3200	3950	4800	5800	6850	8040
					PC (W)	2630	2670	2730	2770	2830	2885
				38	CC (W)	3000	3700	4500	5400	6450	7590
					PC (W)	2830	2880	2930	2970	3020	3061
				43	CC (W)	2750	3450	4200	5102	6100	7199
					PC (W)	3040	3070	3120	3146	3180	3210
Series 3	JEHSCU0350M3	3.5	ZB26KQE-TFD	27	CC (W)	4250	5200	6300	7650	9100	10769
					PC (W)	2630	2660	2700	2730	2780	2826
				32	CC (W)	3950	4850	5900	7100	8500	10040
					PC (W)	2850	2890	2930	2970	3020	3067
				38	CC (W)	3550	4350	5300	6450	7700	9140
					PC (W)	3190	3230	3270	3310	3350	3390
				43	CC (W)	3150	3950	4850	5850	7100	8419
					PC (W)	3510	3540	3580	3610	3640	3669
	JEHSCU0400M3	4	ZB29KQE-TFD	27	CC (W)	4790	5900	7160	8610	10250	12056
					PC (W)	3040	3080	3130	3180	3230	3285
				32	CC (W)	4480	5500	6690	8040	9590	11298
					PC (W)	3280	3330	3390	3440	3500	3558
				38	CC (W)	4000	4940	6020	7260	8690	10261
					PC (W)	3670	3720	3780	3830	3880	3929
				43	CC (W)	3590	4460	5460	6640	8000	9509
					PC (W)	4020	4070	4130	4160	4200	4225
	JEHSCU0500M3	5	ZB38KQE-TFD	27	CC (W)	5850	7150	8650	10300	12250	14350
					PC (W)	3920	4010	4100	4190	4290	4387
				32	CC (W)	5400	6650	8050	9650	11450	13420
					PC (W)	4270	4350	4440	4520	4610	4698
				38	CC (W)	4850	5950	7200	8700	10350	12210
					PC (W)	4740	4840	4930	5020	5110	5194
				43	CC (W)	4350	5400	6600	7950	9550	11279
					PC (W)	5170	5250	5350	5450	5500	5572

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

6 Performance Data

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

Series	MODEL	HP	COMPRESSOR	TE / TA		-20	-15	-10	-5	0	5
Series 3	JEHSCU0600M3	6	ZB45KQE-TFD	27	CC (W)	6650	8100	9800	11700	13800	16130
					PC (W)	4560	4660	4770	4890	5030	5177
				32	CC (W)	6150	7550	9150	10900	12950	15150
					PC (W)	4940	5050	5150	5300	5400	5534
				38	CC (W)	5550	6800	8250	9850	11650	13620
					PC (W)	5450	5550	5700	5800	5950	6090
				43	CC (W)	-	6100	7450	8950	10750	-
					PC (W)	-	6050	6150	6300	6400	-
	JEHSCU0680M3	6.8	ZB48KQE-TFD	27	CC (W)	7150	8750	10500	12550	14750	17190
					PC (W)	5090	5210	5350	5500	5700	5908
				32	CC (W)	6700	8150	9850	11650	13800	16090
					PC (W)	5450	5600	5750	5950	6100	6290
				38	CC (W)	6000	7300	8850	10550	12400	14460
					PC (W)	6050	6200	6350	6550	6750	6980
				43	CC (W)	-	6650	8050	9650	11450	-
					PC (W)	-	6700	6850	7000	7200	-
Series 4	JEHSCU0800M3	8	ZB58KQE-TFD	27	CC (W)	8360	10500	12850	15350	18150	21106
					PC (W)	6010	6150	6350	6580	6830	7129
				32	CC (W)	7730	9770	12000	14350	16950	19686
					PC (W)	6450	6610	6800	7050	7300	7604
				38	CC (W)	6810	8730	10800	13000	15350	17837
					PC (W)	7120	7280	7480	7730	7990	8301
				43	CC (W)	-	7820	9820	11950	14300	-
					PC (W)	-	7890	8050	8250	8470	-
	JEHSCU1000M3	10	ZB76KQE-TFD	27	CC (W)	10600	12850	15300	17900	20700	-
					PC (W)	8320	8720	9170	9310	9840	-
				32	CC (W)	9770	11900	14200	16550	19100	-
					PC (W)	8930	9350	9810	9970	10500	-
				38	CC (W)	8660	10650	12750	15000	17450	-
					PC (W)	9810	10210	10660	10750	11250	-
				43	CC (W)	-	-	-	-	-	-
					PC (W)	-	-	-	-	-	-

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

6 Performance Data

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

Series	MODEL	HP	COMPRESSOR	TE / TA		-40	-35	-30	-25	-20
Series 2	JEHSCU0200L3	2	ZF06K4E-TFD	27	CC (W)	1075	1350	1665	2030	2450
					PC (W)	1390	1480	1580	1690	1800
				32	CC (W)	1000	1260	1560	1910	2310
					PC (W)	1480	1570	1670	1770	1890
				38	CC (W)	915	1160	1445	1780	2170
					PC (W)	1610	1690	1780	1870	1980
				43	CC (W)	840	1070	1345	1660	2035
					PC (W)	1720	1800	1880	1970	2070
	JEHSCU0300L3	3	ZF09K4E-TFD	27	CC (W)	1395	1760	2170	2630	3150
					PC (W)	1760	1830	1910	2020	2150
				32	CC (W)	1315	1645	2040	2480	3000
					PC (W)	1880	1950	2020	2120	2240
				38	CC (W)	1215	1535	1905	2335	2830
					PC (W)	2030	2080	2140	2230	2330
				43	CC (W)	1130	1435	1785	2200	2680
					PC (W)	2150	2200	2260	2330	2420
Series 3	JEHSCU0400L3	4	ZF13K4E-TFD	27	CC (W)	2070	2665	3350	4100	5000
					PC (W)	2200	2300	2420	2560	2720
				32	CC (W)	1940	2485	3100	3850	4700
					PC (W)	2360	2470	2590	2730	2880
				38	CC (W)	1780	2275	2860	3550	4350
					PC (W)	2580	2680	2790	2920	3050
				43	CC (W)	1655	2105	2640	3300	4050
					PC (W)	2770	2880	2980	3100	3230
	JEHSCU0500L3	5	ZF15K4E-TFD	27	CC (W)	2495	3200	4000	4900	5900
					PC (W)	2600	2790	3000	3220	3470
				32	CC (W)	2330	3000	3750	4600	5550
					PC (W)	2790	2990	3200	3420	3670
				38	CC (W)	2135	2745	3450	4250	5200
					PC (W)	3040	3230	3430	3640	3860
				43	CC (W)	1990	2490	3200	3950	4850
					PC (W)	3250	3510	3650	3850	4050
	JEHSCU0600L3	6	ZF18K4E-TFD	27	CC (W)	3050	3850	4700	5700	6850
					PC (W)	2980	3410	3630	3870	4140
				32	CC (W)	2850	3600	4400	5350	6450
					PC (W)	3190	3630	3840	4080	4340
				38	CC (W)	2620	3300	4100	5050	6100
					PC (W)	3430	3860	4060	4280	4510
				43	CC (W)	2395	3100	3850	4700	5750
					PC (W)	3930	4080	4270	4480	4700
Series 4	JEHSCU0750L3	7.5	ZF24K4E-TWD	27	CC (W)	3630	4610	5690	6880	8180
					PC (W)	4128	4458	4788	5148	5528
				32	CC (W)	3390	4320	5350	6490	7750
					PC (W)	4358	4698	5038	5398	5768
				38	CC (W)	3100	3990	4970	6070	7320
					PC (W)	4618	4968	5318	5658	6008
				43	CC (W)	2830	3680	4630	5690	6920
					PC (W)	4848	5218	5558	5888	6218

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

6 Performance Data

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

Series	MODEL	HP	COMPRESSOR	TE / TA		-40	-35	-30	-25	-20
Series 4	JEHSCU1000L3	10	ZF33K4E-TWD	27	CC (W)	5060	6330	7770	9380	11150
					PC (W)	5238	5728	6248	6808	7388
				32	CC (W)	4660	5850	7200	8720	10400
					PC (W)	5568	6098	6638	7188	7768
				38	CC (W)	4200	5300	6540	7950	9570
					PC (W)	5968	6528	7088	7648	8228
				43	CC (W)	3800	4820	5980	7310	8850
					PC (W)	6328	6918	7488	8048	8618

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

Series	MODEL	HP	COMPRESSOR	TE / TA		-15	-10	-5	0	5	10	15
Series 2	JEHSCU0200M1/3	2	ZB15KQE-PFJ ZB15KQE-TFD	27	CC (W)	1840	2305	2830	3450	4150	4950	5850
					PC (W)	931	953	992	1027	1066	1109	1150
				32	CC (W)	1735	2175	2680	3250	3950	4700	5550
					PC (W)	1016	1045	1086	1124	1160	1210	1250
				38	CC (W)	1610	2015	2490	3050	3700	4400	5200
					PC (W)	1128	1170	1210	1250	1300	1340	1390
				43	CC (W)	1505	1880	2330	2855	3450	4150	4900
					PC (W)	1230	1280	1330	1370	1420	1470	1520
	JEHSCU0250M1/3	2.5	ZB19KQE-PFJ ZB19KQE-TFD	27	CC (W)	2105	2625	3250	3900	4700	5600	6600
					PC (W)	1055	1088	1135	1180	1230	1290	1340
				32	CC (W)	1985	2475	3050	3700	4500	5350	6300
					PC (W)	1150	1200	1240	1290	1350	1400	1460
				38	CC (W)	1840	2285	2830	3450	4150	5000	5900
					PC (W)	1280	1340	1390	1450	1500	1560	1620
				43	CC (W)	1715	2125	2645	3250	3900	4700	5550
					PC (W)	1400	1480	1530	1590	1650	1710	1770
	JEHSCU0300M1/3	3	ZB21KQE-PFJ ZB21KQE-TFD	27	CC (W)	2600	3250	3950	4800	5750	6900	8000
					PC (W)	1310	1350	1420	1490	1570	1620	1750
				32	CC (W)	2450	3050	3750	4550	5450	6450	7550
					PC (W)	1430	1500	1560	1630	1720	1810	1900
				38	CC (W)	2265	2800	3450	4200	5050	6000	7050
					PC (W)	1600	1690	1740	1830	1910	2010	2110
				43	CC (W)	-	2595	3250	3950	4750	5650	6650
					PC (W)	-	1870	1920	2010	2090	2200	2300
Series 3	JEHSCU0350M3	3.5	ZB26KQE-TFD	27	CC (W)	3100	3900	4800	5900	7150	8550	10150
					PC (W)	1490	1510	1560	1600	1650	1710	1770
				32	CC (W)	2950	3700	4550	5600	6800	8150	9650
					PC (W)	1620	1660	1710	1760	1810	1860	1920
				38	CC (W)	2720	3400	4250	5200	6350	7600	9050
					PC (W)	1800	1860	1910	1960	2010	2070	2130
				43	CC (W)	2540	3200	4000	4900	5950	7150	8550
					PC (W)	1970	2050	2090	2150	2210	2270	2330

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

6 Performance Data

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

Series	MODEL	HP	COMPRESSOR	TA \ TE		-15	-10	-5	0	5	10	15
Series 3	JEHSCU0400M3	4	ZB29KQE-TFD	27	CC (W)	3600	4550	5600	6850	8250	9900	11700
					PC (W)	1700	1740	1800	1860	1930	2000	2070
				32	CC (W)	3400	4300	5300	6500	7850	9400	11100
					PC (W)	1860	1920	1980	2040	2110	2180	2260
				38	CC (W)	3150	3950	4950	6050	7300	8800	10400
					PC (W)	2070	2150	2210	2280	2350	2430	2510
				43	CC (W)	2950	3700	4600	5650	6850	8250	9800
					PC (W)	2270	2370	2430	2500	2580	2660	2740
	JEHSCU0500M3	5	ZB38KQE-TFD	27	CC (W)	4400	5450	6750	8200	9850	11700	13750
					PC (W)	2170	2230	2330	2430	2530	2650	2780
				32	CC (W)	4100	5150	6350	7750	9300	11100	13050
					PC (W)	2370	2470	2560	2670	2780	2900	3040
				38	CC (W)	3800	4750	5900	7200	8650	10350	12150
					PC (W)	2650	2790	2870	2990	3110	3240	3390
				43	CC (W)	-	4400	5500	6700	8100	9700	11450
					PC (W)	-	3090	3160	3290	3430	3560	3710
	JEHSCU0600M3	6	ZB45KQE-TFD	27	CC (W)	5250	6550	8050	9800	11700	13850	16100
					PC (W)	2390	2490	2620	2750	2890	3040	3210
				32	CC (W)	4950	6150	7600	9250	11100	13150	15300
					PC (W)	2630	2760	2890	3030	3180	3320	3520
				38	CC (W)	4550	5600	7000	8550	10250	12150	14200
					PC (W)	2960	3140	3250	3400	3560	3740	3930
				43	CC (W)	-	5150	6500	7950	9550	11350	13300
					PC (W)	-	3490	3580	3750	3930	4110	4310
	JEHSCU0680M3	6.8	ZB48KQE-TFD	27	CC (W)	5963	7389	8957	10712	12687	14851	16958
					PC (W)	2814	2982	3155	3346	3559	3801	3687
				32	CC (W)	5588	6928	8420	10082	11959	14015	15972
					PC (W)	3100	3311	3528	3758	3970	4201	4142
				38	CC (W)	5124	6363	7765	9304	11074	13012	14799
					PC (W)	3453	3715	3983	4266	4469	4681	4683
				43	CC (W)	-	5899	7224	8667	10340	12172	13813
					PC (W)	-	4047	4358	4683	4884	5082	5137
Series 4	JEHSCU0800M3	8	ZB58KQE-TFD	27	CC (W)	6700	8300	10150	12350	14600	17200	20100
					PC (W)	3270	3410	3600	3750	4010	4190	4320
				32	CC (W)	6300	7800	9550	11650	13750	16300	19000
					PC (W)	3600	3760	3960	4130	4400	4580	4730
				38	CC (W)	5800	7200	8850	10800	12750	15100	17700
					PC (W)	4030	4220	4440	4620	4910	5100	5250
				43	CC (W)	-	6700	8200	10050	11900	14100	16500
					PC (W)	-	4630	4880	5070	5360	5560	5760
	JEHSCU1000M3	10	ZB76KQE-TFD	27	CC (W)	8600	10550	12850	15400	18200	21300	24500
					PC (W)	4370	4610	4910	5240	5610	5910	6210
				32	CC (W)	8050	9900	12050	14450	17100	20000	23100
					PC (W)	4820	5080	5410	5760	6110	6460	6760
				38	CC (W)	7450	9100	11050	13300	15800	18500	21400
					PC (W)	5410	5710	6060	6410	6810	7160	7460
				43	CC (W)	-	8450	10250	12300	14600	17200	20000
					PC (W)	-	6260	6610	7010	7460	7810	8110

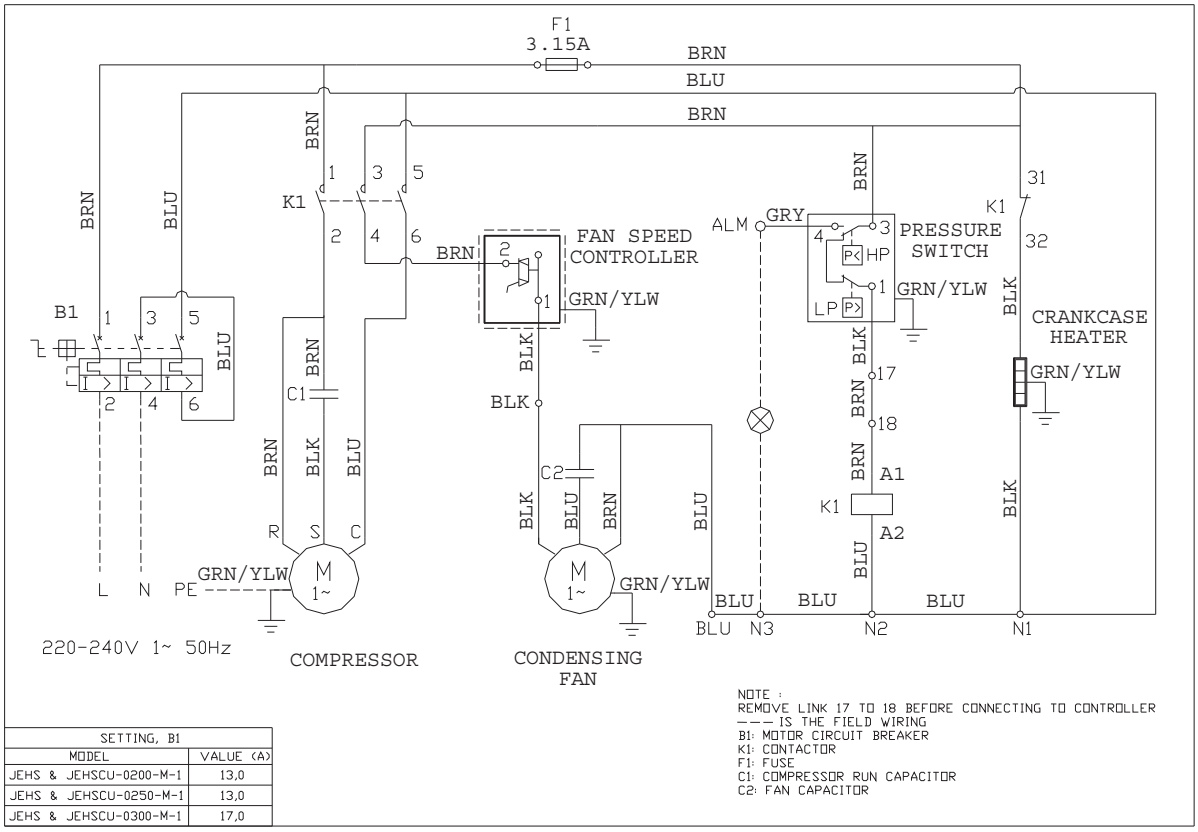
TE: Evaporating Temperature (ºC)
TA: Ambient Temperature (ºC)
CC: Cooling Capacity (W), ± 10%
PC: Power consumption (W), ± 10%

7 Electrical Data

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

Series 2 (230V/1~/50Hz)

JEHSCU0200M1, JEHSCU0250M1, JEHSCU0300M1

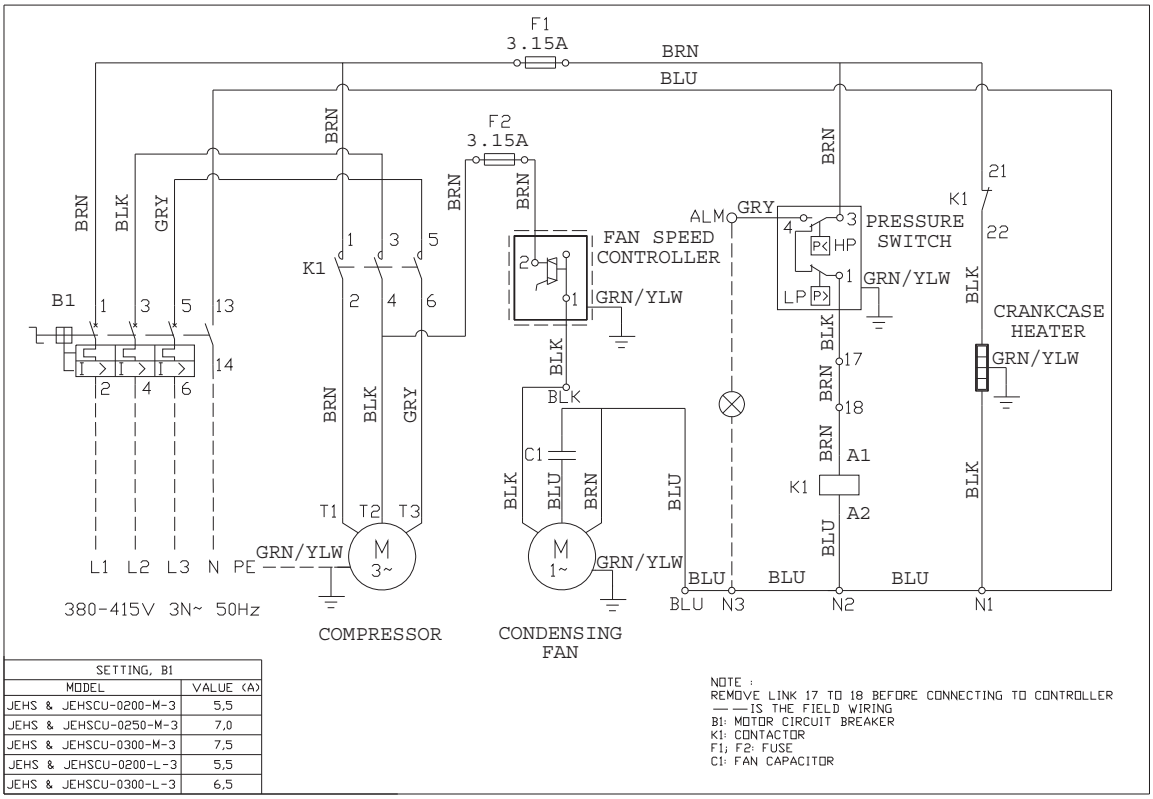


SETTING, B1	
MODEL	VALUE (A)
JEHS & JEHSCU-0200-M-1	13,0
JEHS & JEHSCU-0250-M-1	13,0
JEHS & JEHSCU-0300-M-1	17,0

7 Electrical Data

Series 2 (400V/3~/50Hz)

JEHSCU0200M3, JEHSCU0250M3, JEHSCU0300M3, JEHSCU0200L3, JEHSCU0300L3

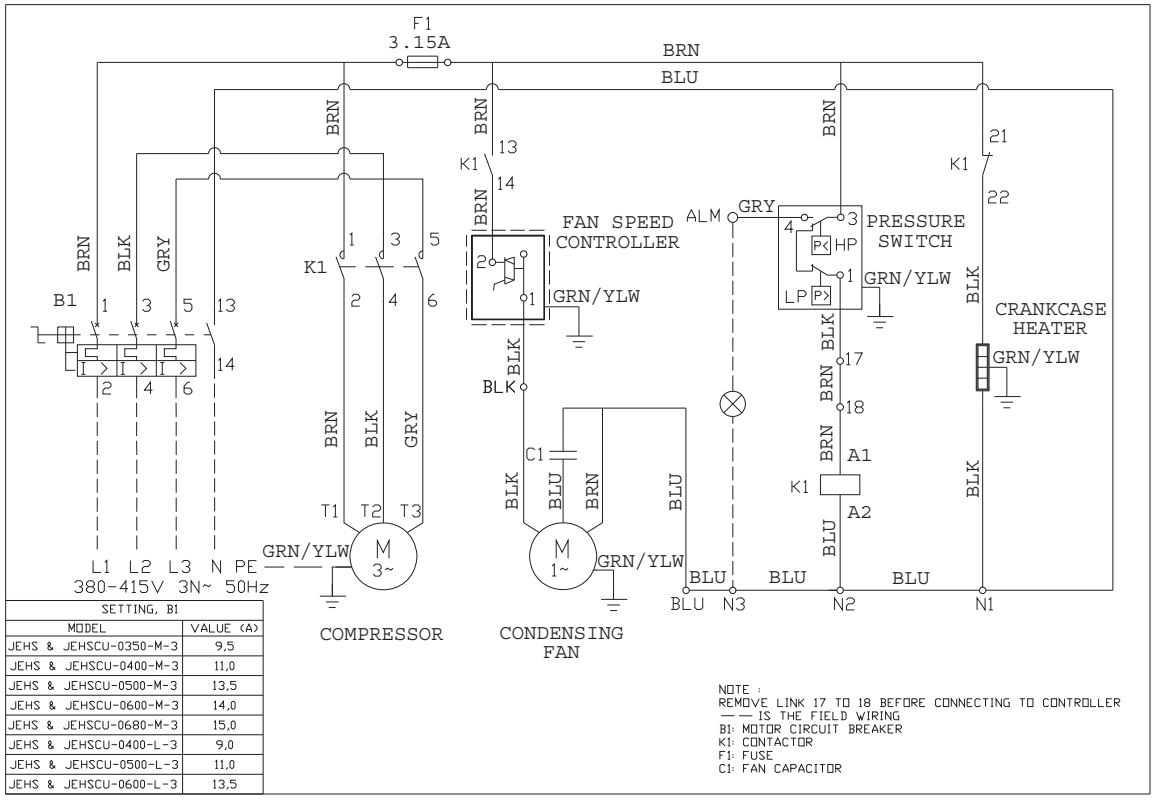


SETTING, B1	
MODEL	VALUE (A)
JEHS & JEHSCU-0200-M-3	5,5
JEHS & JEHSCU-0250-M-3	7,0
JEHS & JEHSCU-0300-M-3	7,5
JEHS & JEHSCU-0200-L-3	5,5
JEHS & JEHSCU-0300-L-3	6,5

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)

JEHSCU0350M3, JEHSCU0400M3, JEHSCU0500M3, JEHSCU0600M3, JEHSCU0680M3, JEHSCU0400L3, JEHSCU0500L3, JEHSCU0600L3

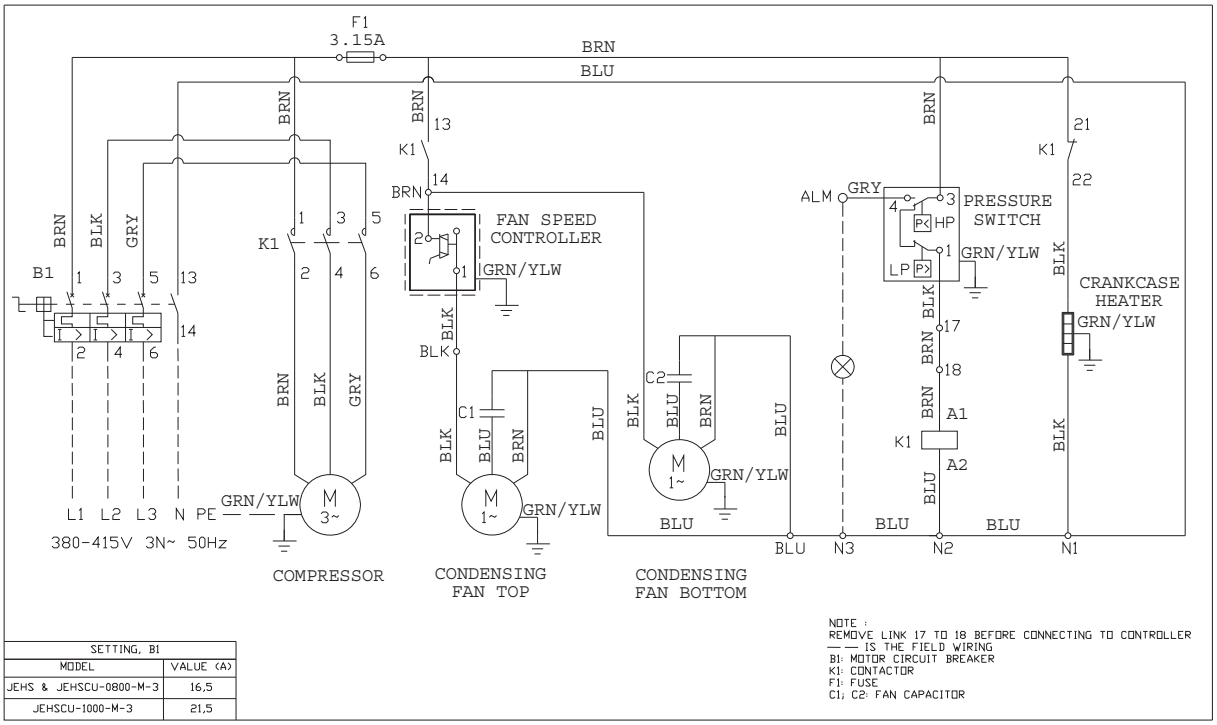


SETTING, B1	
MODEL	VALUE (A)
JEHS & JEHSCU-0350-M-3	9,5
JEHS & JEHSCU-0400-M-3	11,0
JEHS & JEHSCU-0500-M-3	13,5
JEHS & JEHSCU-0600-M-3	14,0
JEHS & JEHSCU-0680-M-3	15,0
JEHS & JEHSCU-0400-L-3	9,0
JEHS & JEHSCU-0500-L-3	11,0
JEHS & JEHSCU-0600-L-3	13,5

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

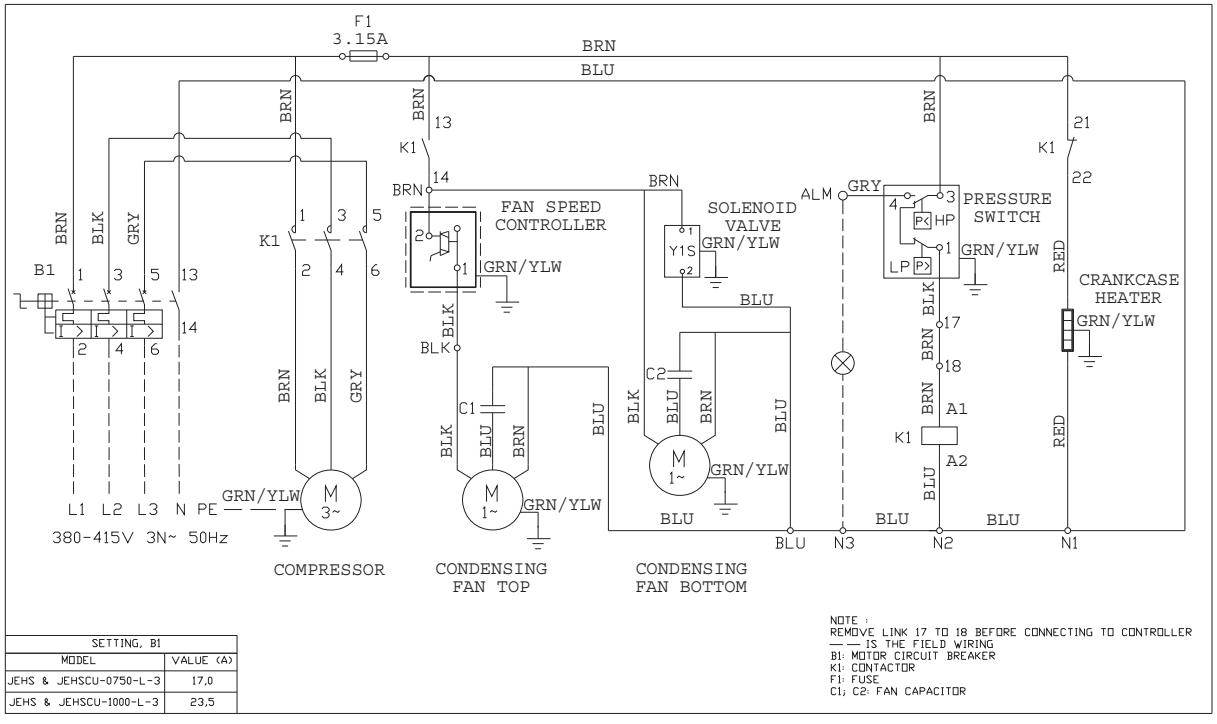
7 Electrical Data

Series 4 (400V/3~/50Hz)
JEHSCU0800M3, JEHSCU1000M3



SETTING, B1	
MODEL	VALUE (A)
JEHS & JEHSCU-0800-M-3	16,5
JEHSCU-1000-M-3	21,5

Series 4 (400V/3~/50Hz)
JEHSCU0750L3, JEHSCU1000L3



SETTING, B1	
MODEL	VALUE (A)
JEHS & JEHSCU-0750-L-3	17,0
JEHS & JEHSCU-1000-L-3	23,5

8 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.

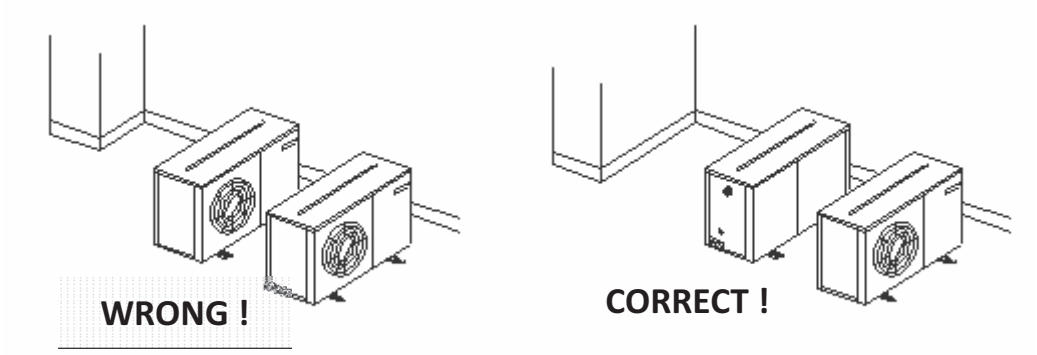
General Information

- 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.

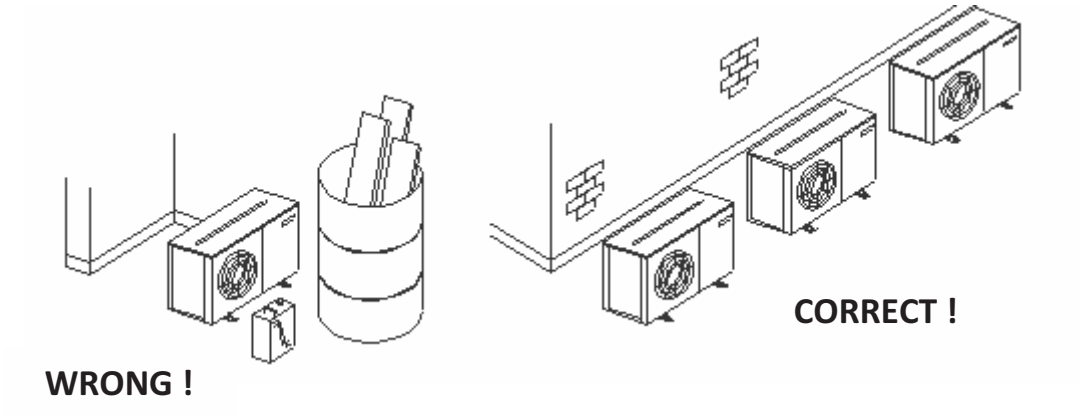
9 Installation & Commissioning

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.

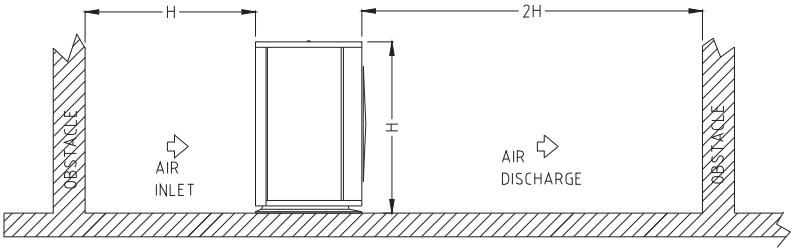


- The location must be well ventilated, so the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- To optimize the unit running conditions, the condenser coil must be cleaned at regular intervals.

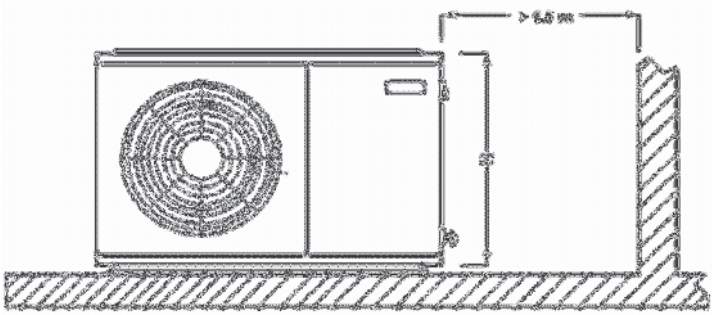
9 Installation & Commissioning

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.



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. JEHSCUXXXXLX), 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. JEHSCUXXXXMX) if the working suction pressure during start procedure especially after defrost cycle, is out of the limit, as refer to the table provided.

9 Installation & Commissioning

Recommend compressor working pressure range

Compressor Model	Med Temp ZB*KQE	Low Temp ZF*KQE	Med Temp ZB*KQE
Refrigerant	R404A	R404A	R134A
Working Pressure Range High Side, (barg)	7.14 - 27.6	7.14 - 24.6	6.6 - 22.6
Working Pressure Range Low Side, (barg)	1.98 - 7.14	0.29 - 6.0	0.6 - 3.8

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.

Test pressure	
High side	Low side
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.

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.

9 Installation & Commissioning

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 2, 3, 4	
Refrigerant	R404A	R134a
Cut Out (barg)	28	23
Cut Out (psig)	405	330

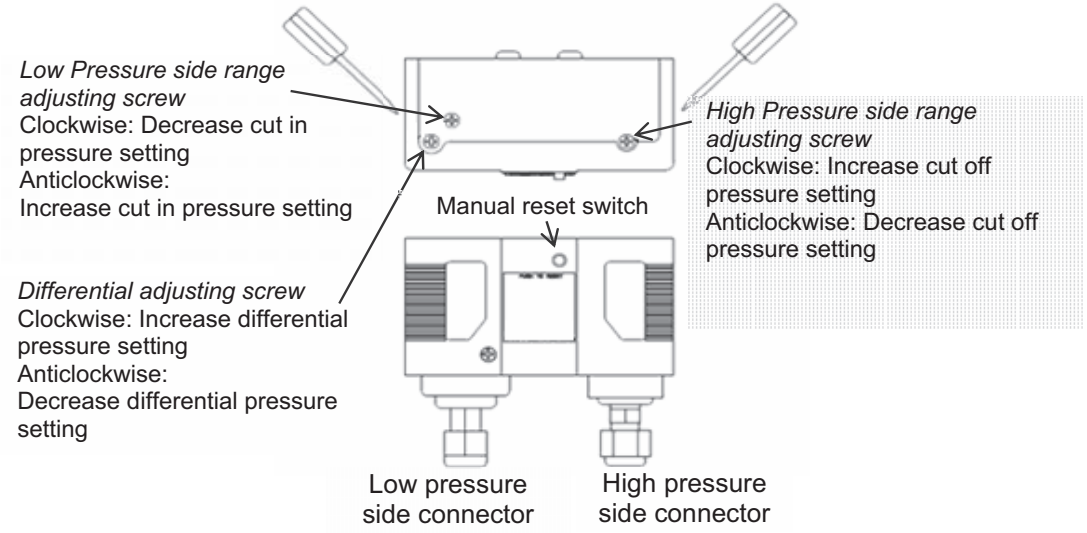
Low pressure safety (Auto reset)

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 2, 3, 4		
Refrigerant	R404A		R134a
Application	M*	L*	M*
Cut out (barg)	1.2	0.3	0.3
Cut out (psig)	18	5	5

*** M: Medium temperature; L: Low temperature**

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



9 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

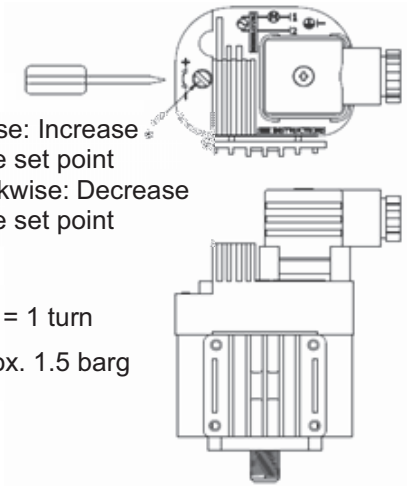
The fan speed controller controls the speed of the condenser's fan.

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	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.

Compressor electrical wiring

Important Note

Compressor wiring for 3 phases modals must be controlled. Supply phase sequence L1, L2 and L3 will affect the compressor rotating direction and damage the compressor.

Service technician should be present at initial start- up to verify that the supply power is properly phased and that compressor is rotating in the correct direction.

Verification of proper rotation direction is made by observing that suction pressure drops and discharge pressure rises when the compressor is energized. Reverse rotation of a scroll compressor also results in substantially reduced current draw. Suction temperature will be high, discharge temperature will be low and the compressor may be abnormal noisy.

10 Service & Maintenance

Important Note

Warning! - Disconnect the main 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

11 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 barg for R404A and > 8 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 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.

12 Trouble Shooting

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

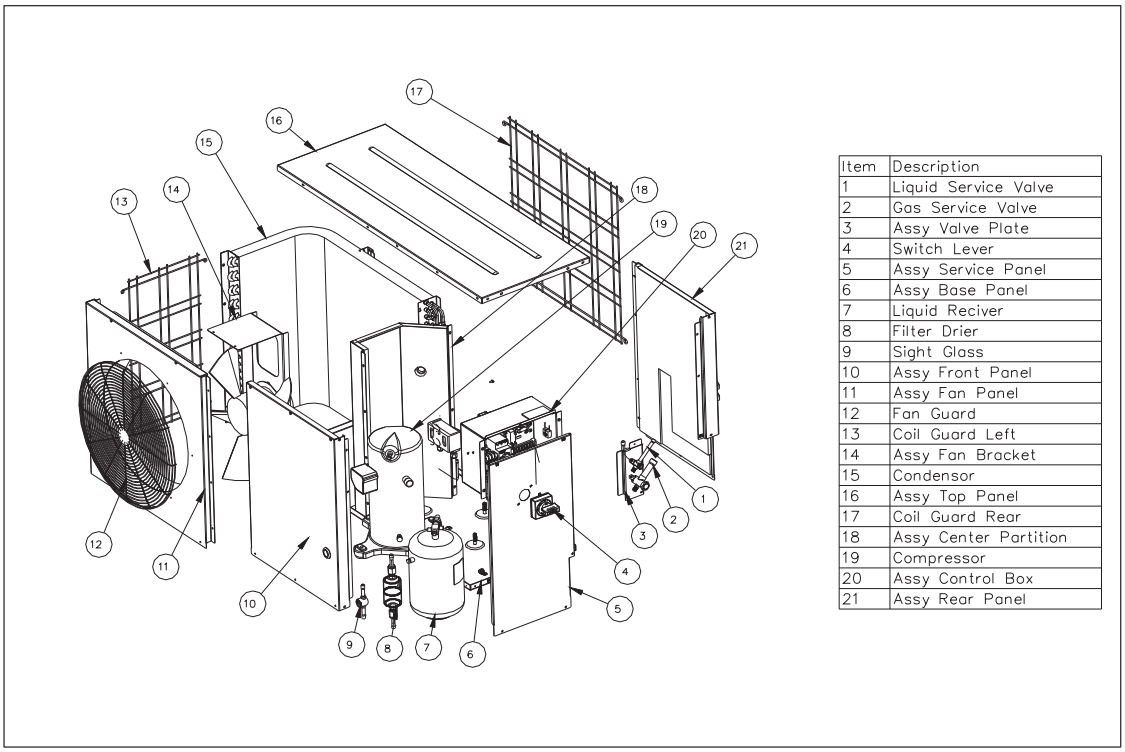
Failure	Possible Causes
Fan does not work	• Improper wiring • Fan motor faulty
Compressor does not start	• Improper wiring • Defective contactor or coil • System stopped because of tripped of safety device. • Defective start/run capacitor • Compressor faulty
Insufficient cooling	• Low refrigerant charge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

Important Note

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

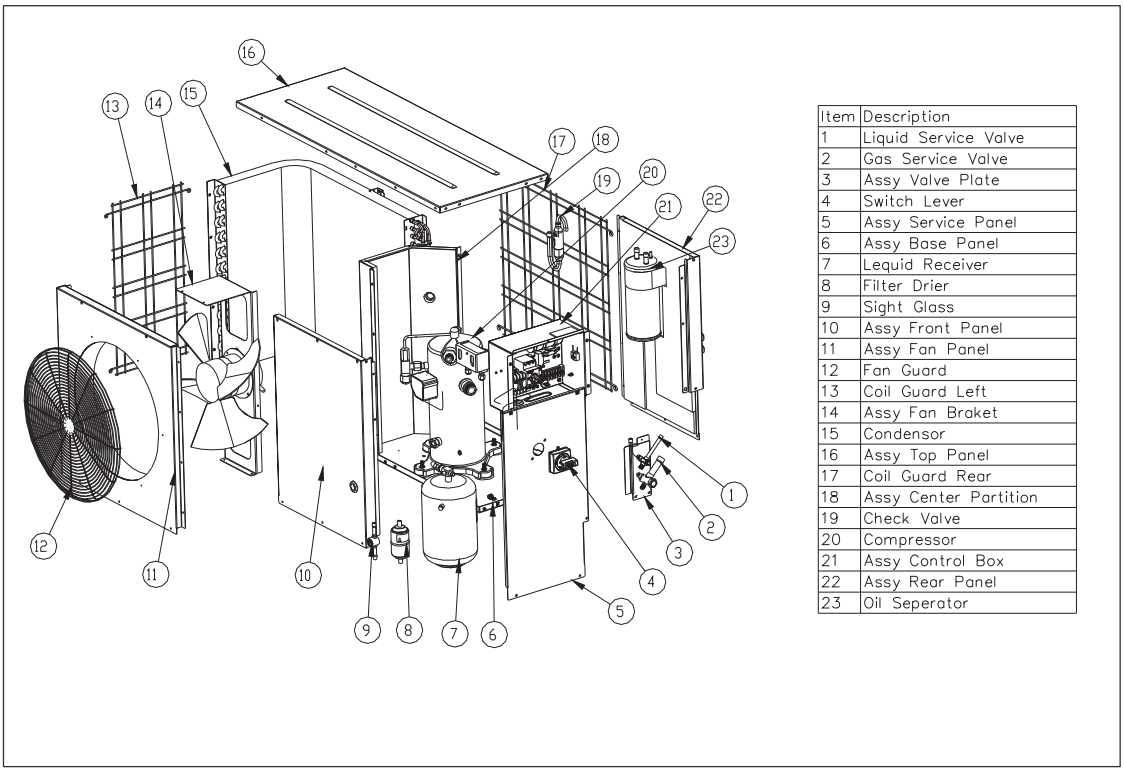
13 Exploded view of the condensing unit

Series 2 (230V/1~/50Hz): Medium temperature: JEHSCU0200M1, JEHSCU0250M1, JEHSCU0300M1
Series 2 (400V/3~/50Hz): Medium temperature: JEHSCU0200M3, JEHSCU0250M3, JEHSCU0300M3



Item	Description
1	Liquid Service Valve
2	Gas Service Valve
3	Assy Valve Plate
4	Switch Lever
5	Assy Service Panel
6	Assy Base Panel
7	Liquid Reciver
8	Filter Drier
9	Sight Glass
10	Assy Front Panel
11	Assy Fan Panel
12	Fan Guard
13	Coil Guard Left
14	Assy Fan Bracket
15	Condensor
16	Assy Top Panel
17	Coil Guard Rear
18	Assy Center Partition
19	Compressor
20	Assy Control Box
21	Assy Rear Panel

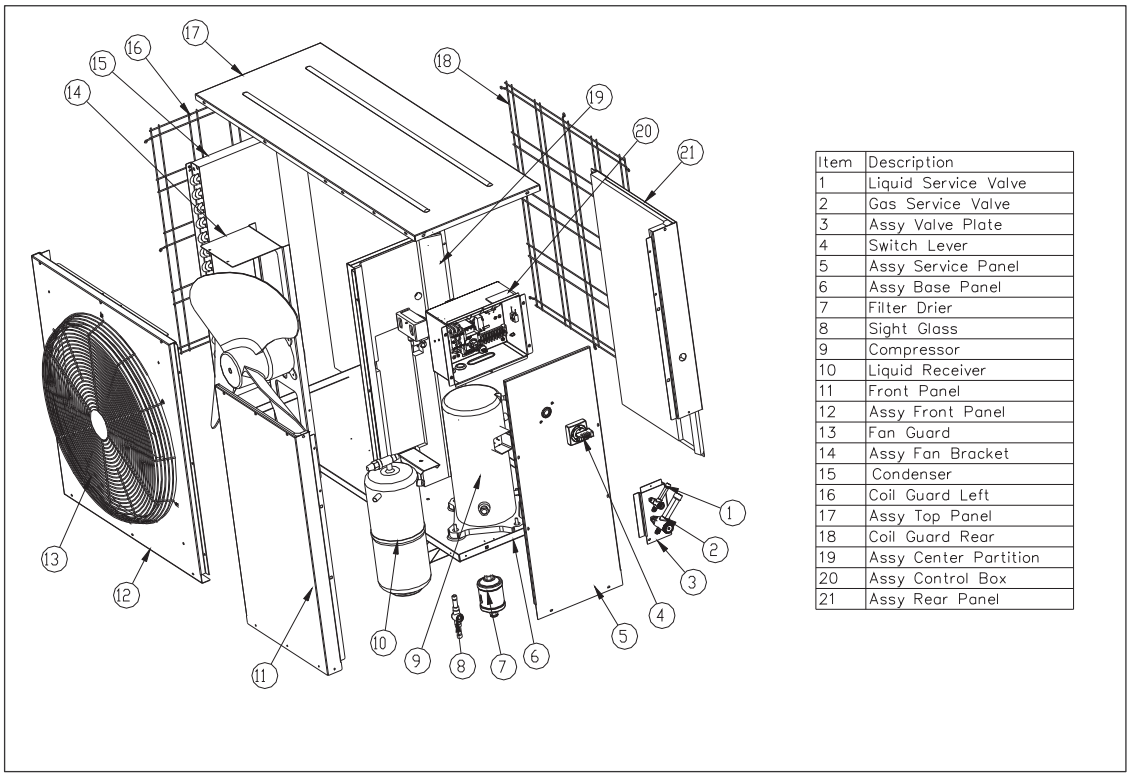
Series 2 (400V/3~/50Hz): Low temperature: JEHSCU0200L3, JEHSCU0300L3



Item	Description
1	Liquid Service Valve
2	Gas Service Valve
3	Assy Valve Plate
4	Switch Lever
5	Assy Service Panel
6	Assy Base Panel
7	Lequid Receiver
8	Filter Drier
9	Sight Glass
10	Assy Front Panel
11	Assy Fan Panel
12	Fan Guard
13	Coil Guard Left
14	Assy Fan Braket
15	Condensor
16	Assy Top Panel
17	Coil Guard Rear
18	Assy Center Partition
19	Check Valve
20	Compressor
21	Assy Control Box
22	Assy Rear Panel
23	Oil Seperator

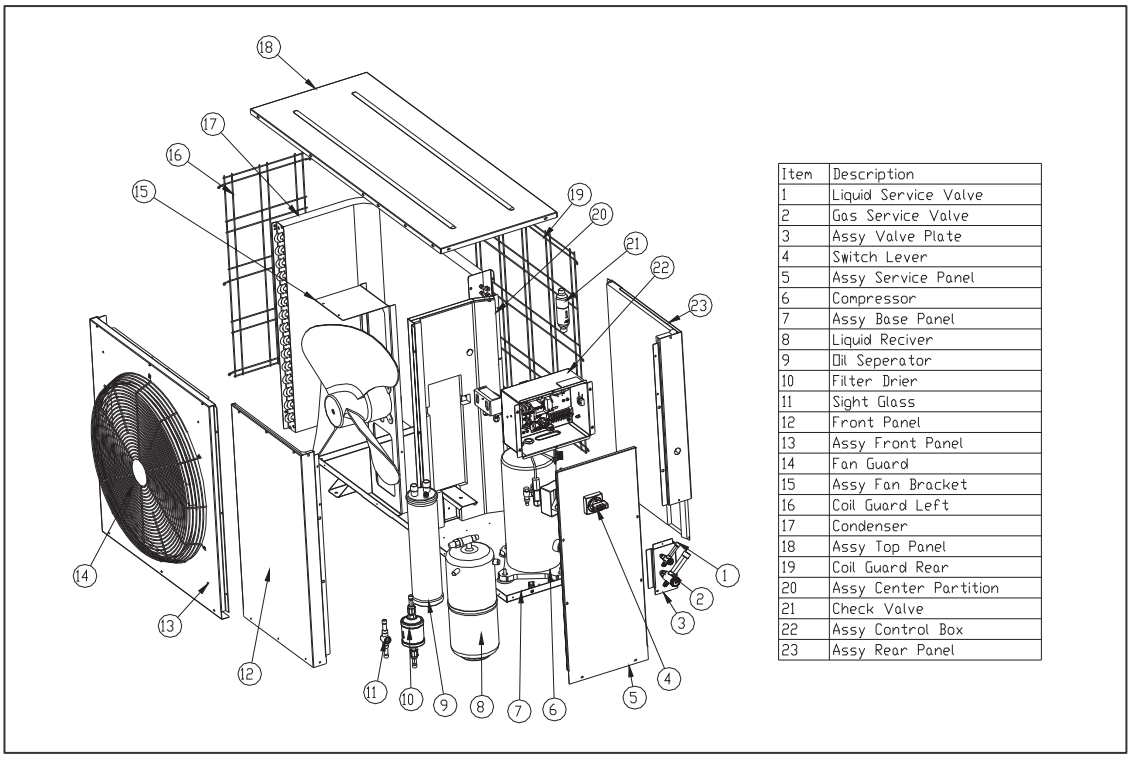
13 Exploded view of the condensing unit

Series 3 (400V/3~/50Hz): Medium temperature: JEHSCU0350M3, JEHSCU0400M3, JEHSCU0500M3, JEHSCU0600M3, JEHSCU0680M3



Item	Description
1	Liquid Service Valve
2	Gas Service Valve
3	Assy Valve Plate
4	Switch Lever
5	Assy Service Panel
6	Assy Base Panel
7	Filter Drier
8	Sight Glass
9	Compressor
10	Liquid Receiver
11	Front Panel
12	Assy Front Panel
13	Fan Guard
14	Assy Fan Bracket
15	Condenser
16	Coil Guard Left
17	Assy Top Panel
18	Coil Guard Rear
19	Assy Center Partition
20	Assy Control Box
21	Assy Rear Panel

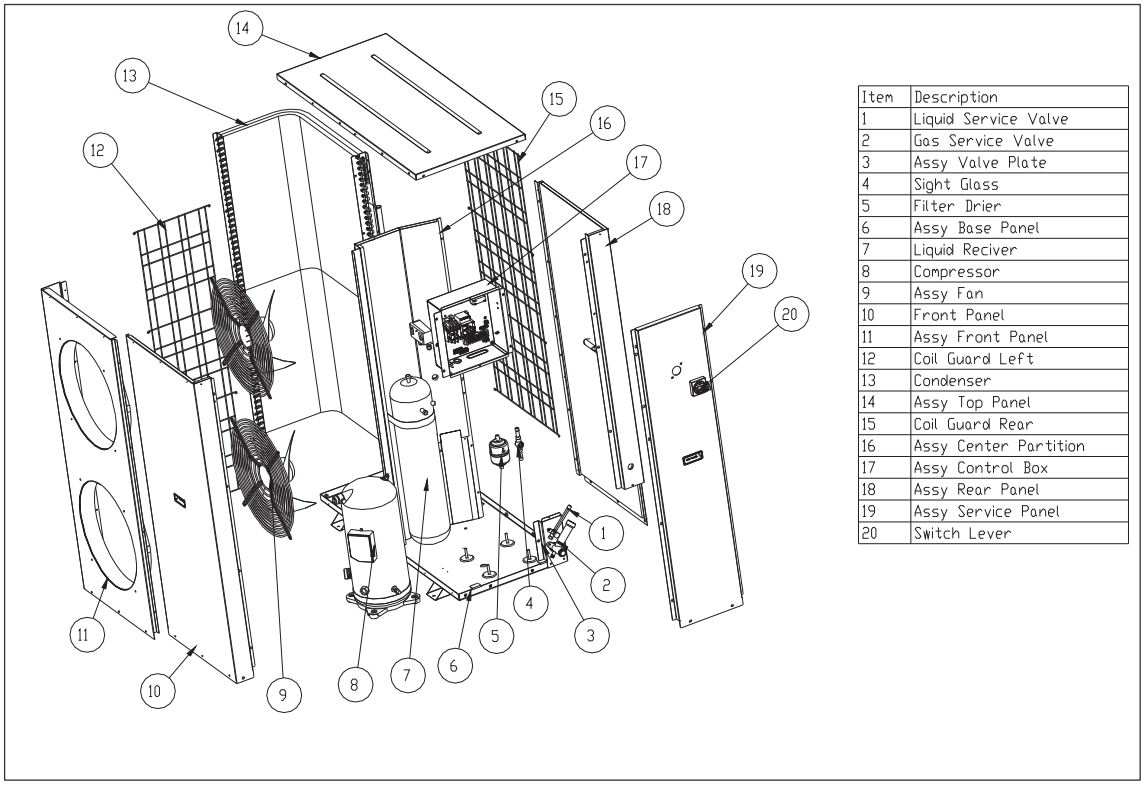
Series 3 (400V/3~/50Hz): Low temperature: JEHSCU0400L3, JEHSCU0500L3, JEHSCU0600L3



Item	Description
1	Liquid Service Valve
2	Gas Service Valve
3	Assy Valve Plate
4	Switch Lever
5	Assy Service Panel
6	Compressor
7	Assy Base Panel
8	Liquid Reciver
9	Oil Seperator
10	Filter Drier
11	Sight Glass
12	Front Panel
13	Assy Front Panel
14	Fan Guard
15	Assy Fan Bracket
16	Coil Guard Left
17	Condenser
18	Assy Top Panel
19	Coil Guard Rear
20	Assy Center Partition
21	Check Valve
22	Assy Control Box
23	Assy Rear Panel

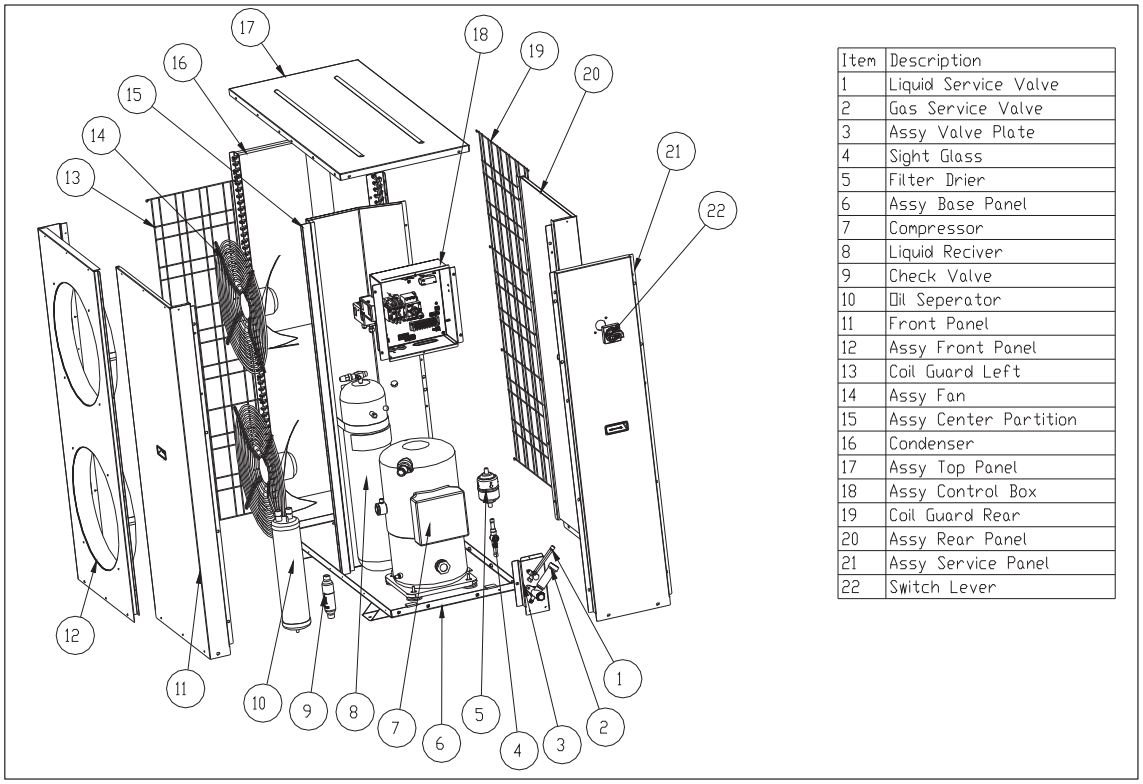
13 Exploded view of the condensing unit

Series 4 (400V/3~/50Hz): Medium temperature: JEHSCU0800M3, JEHCSU1000M3



Item	Description
1	Liquid Service Valve
2	Gas Service Valve
3	Assy Valve Plate
4	Sight Glass
5	Filter Drier
6	Assy Base Panel
7	Liquid Reciver
8	Compressor
9	Assy Fan
10	Front Panel
11	Assy Front Panel
12	Coil Guard Left
13	Condenser
14	Assy Top Panel
15	Coil Guard Rear
16	Assy Center Partition
17	Assy Control Box
18	Assy Rear Panel
19	Assy Service Panel
20	Switch Lever

Series 4 (400V/3~/50Hz): Low temperature: JEHSCU0750L3, JEHSCU1000L3

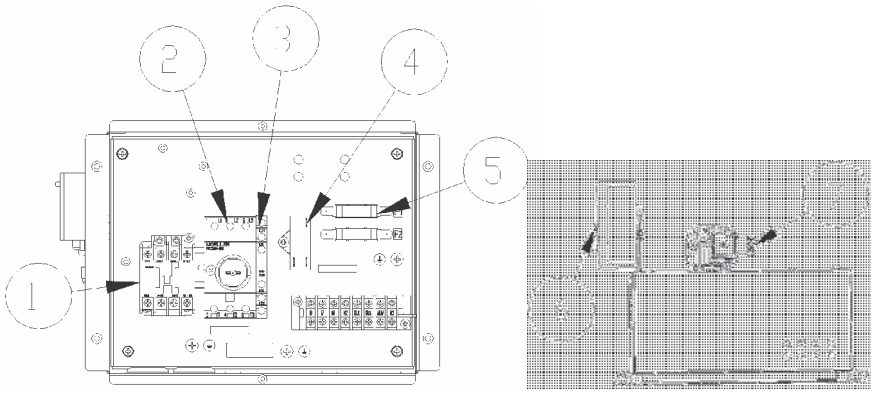


Item	Description
1	Liquid Service Valve
2	Gas Service Valve
3	Assy Valve Plate
4	Sight Glass
5	Filter Drier
6	Assy Base Panel
7	Compressor
8	Liquid Reciver
9	Check Valve
10	Oil Seperator
11	Front Panel
12	Assy Front Panel
13	Coil Guard Left
14	Assy Fan
15	Assy Center Partition
16	Condenser
17	Assy Top Panel
18	Assy Control Box
19	Coil Guard Rear
20	Assy Rear Panel
21	Assy Service Panel
22	Switch Lever

14 Exploded view of the control box

SERIES 2 CONTROL BOX (SINGLE PHASE)

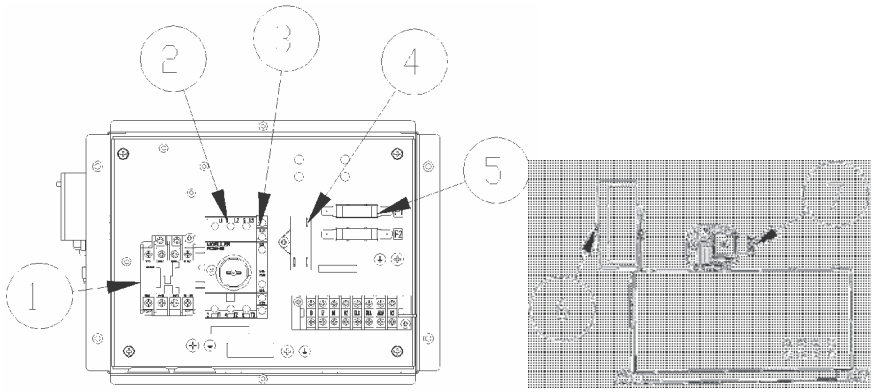
Model: JEHSCU0200M1 JEHSCU0250M1, JEHSCU0300M1



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

SERIES 2 CONTROL BOX (THREE PHASE)

Model: JEHSCU0200M3 JEHSCU0250M3, JEHSCU0300M3, JEHSCU0200L3, JEHSCU0300L3

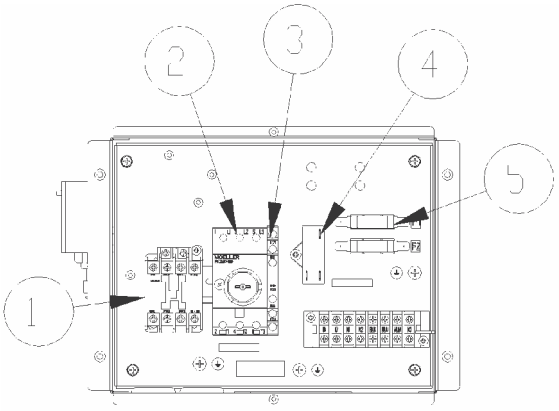


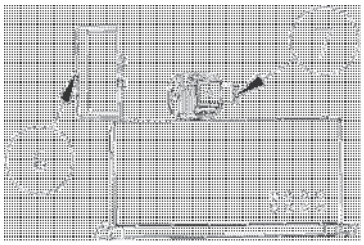
Item	Description
1	CONTACTOR
2	MOTOR CIRCUIT BRAKER
3	AUXILLARY CONTACTOR
4	FAN CAPACITOR
5	FUSE 3.15 A
6	H/L PRESS.SWITCH
7	FAN SPEED CONTROLLER

14 Exploded view of the control box

SERIES 3 CONTROL BOX (THREE PHASE)

Models: JEHSCU0350M3, JEHSCU0400M3, JEHSCU0500M3, JEHSCU0600M3, JEHSCU0680M3, JEHSCU0400L3, JEHSCU0500L3, JEHSCU0600L3

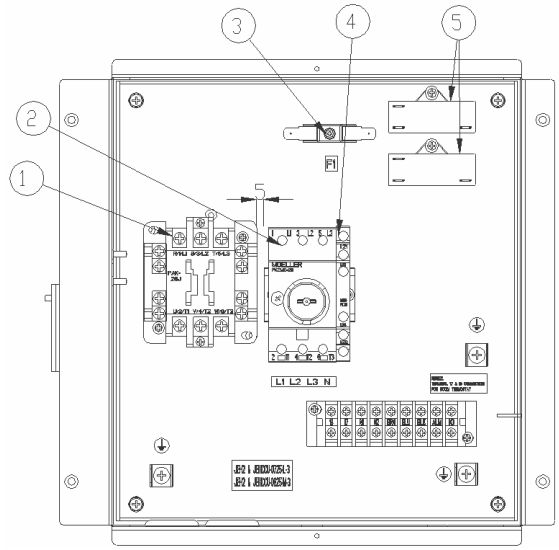


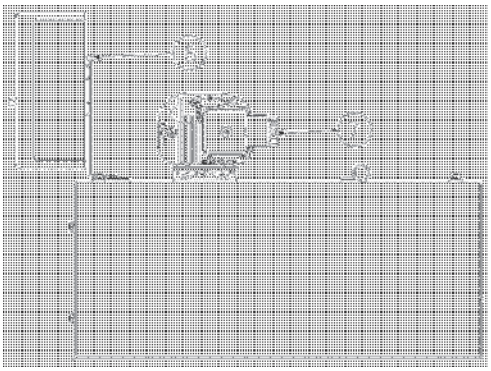


Item	Description
1	CONTACTOR
2	MOTOR CIRCUIT BRAKER
3	AUXILLARY CONTACTOR
4	FAN CAPACITOR
5	FUSE 3.15 A
6	H/L PRESS.SWITCH
7	FAN SPEED CONTROLLER

SERIES 4 CONTROL BOX (THREE PHASE)

Models: JEHSCU0800M3, JEHSCU1000M3, JEHSCU0750L3, JEHSCU1000L3





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

15 Declaration of Conformity

J&E/DOC/001-10(5)

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
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verklaren onder onze uitsluitende verantwoordelijkheid de producten
declaramos sobre nuestra sola responsabilidad que los productos
dichiariamo sotto nostra sola responsabilità che i prodotti
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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 Maschinheit der Abkühlung
Unità condensate 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 μοντέλου:	*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 déclaration, 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 conormi 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 Chang
Issue Date: 30 April 2012

15 Declaration of Conformity

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Declaration of Conformity

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Déclaration de Conformité
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Overensstemmelseserklæring
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BANTING, 42700 BANTING, SELANGOR DARUL EHSAN, MALAYSIA.

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

JEHSCU-0200-M-1	JEHSCU-0200-M-3	JEHSCU-0250-M-1
JEHSCU-0250-M-3	JEHSCU-0300-M-1	JEHSCU-0300-M-3
JEHSCU-0350-M-3	JEHSCU-0400-M-3	JEHSCU-0500-M-3
JEHSCU-0600-M-3	JEHSCU-0680-M-3	JEHSCU-0800-M-3
JEHSCU-1000-M-3		
JEHSCU-0200-L-3	JEHSCU-0300-L-3	JEHSCU-0400-L-3
JEHSCU-0500-L-3	JEHSCU-0600-L-3	JEHSCU-0750-L-3
JEHSCU-1000-L-3		

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The present publication supersedes EEDEN13-780
Prepared in Belgium by Lannoo (www.lannooprint.be), a company whose concern for the environment is set in the EMAS and ISO 14001 systems.
Responsible Editor: Daikin Europe N.V., Zandvoordestraat 300, B-8400 Oostende