Innovative Engineering

CONDENSING UNITS CATALOGUE
ESM-ESL-EMP (60Hz)

DESIGNED WITH PASSION AND
BUILT TO PERFORM

Applicable for all HFC refrigerants

Product nomenclature

E	SM	032	T	401	C8	OS	EL	R6	V
1	2	3	4	5	6	7	8	9	10

1 E : EKA-KOOL

2 SM : Medium temperature application. Horizontal air direction

SL : Low temperature application. Horizontal air direction

MP : Medium/Low temperature application. Upward air direction

3 Compressor code

4 T : Tandem unit

T1 : Tandem standby unit

5 Fan code

6 Condenser code

7 OS : Oil separator

8 EL : with Electrical components

9 Receiver

10 Voltage

Voltage code:
V1: 230V 1ph 50/60Hz
V2: 230V 1ph 50Hz;
V3: 400V 3ph 50Hz
V4: 460V 3ph 60Hz;
V5: 220V 3ph 60Hz

Designed with Passion

EKA-KOOL's CDUs are dsigned to meet the toughest operation conditions and built to perform optimally. The EKA-KOOL's CDUs are designed to operate up to +50C ambient temperature. The CDUs are expected to provide the best solution to the food and beverage industries.

Total Solution

EKA-KOOL's CDUs and evaporators made up the total solution for your needs. Easy selection and efforts-less installation. Connect 2 pipes, fill refrigerant and switch the power on. All components are pre-fitted. Your refrigeration needs are met and sastified

Best Investment

EKA-KOOL's CDUs are cost-competitive, provide substantial energy saving, operating costs savings and long lifespan of refrigeration systems. The systems require very low maintenance, also contributing to savings.

Built to Perform

EKA-KOOL provides 100% factory tested condensing units to our customers with premium quality. Reliable compressors, controls and other components.

Technical Support by Experts

EKA-KOOL support all customers with technical expertise. We stand for high standard of design and project management and implementation.

ESM/EMP
Performance data R404A/R507

Model	Ambient Temperature	Evaporating Temperature									
220V/3PH/60Hz	^{0}C	+ 10	+ 7.5	+ 5	0	-5	-10	-15	-20	-25	-30
ESM.018.351-A4	28	6.17	5.75	5.25	4.46	3.84	3.01	2.29	1.70	1.15	0.64
	32	5.80	5.39	4.92	4.15	3.53	2.79	2.12	1.55	1.04	0.58
	36	5.56	5.14	4.69	3.92	3.21	2.51	1.89	1.38	0.93	0.52
	40	5.06	4.67	4.27	3.56	2.92	2.26	1.70	1.24	0.84	0.46
	43	4.78	4.42	4.03	3.37	2.76	2.16	1.61	1.16	0.77	0.42
	46	4.56	4.21	3.80	3.17	2.60	2.03	1.53	1.12	0.74	0.41
Power input	36	2.33	2.25	2.21	2.11	2.00	1.87	1.72	1.55	1.35	1.12
ESM.022.401-A6	28	8.17	7.58	6.97	5.92	5.08	4.12	3.26	2.52	1.85	1.29
	32	7.68	7.11	6.53	5.50	4.70	3.81	3.02	2.30	1.67	1.17
	36	7.36	6.8	6.22	5.19	4.27	3.43	2.70	2.05	1.49	1.04
	40	6.70	6.16	5.66	4.72	3.89	3.09	2.43	1.85	1.34	0.93
	43	6.33	5.82	5.35	4.47	3.67	2.95	2.29	1.72	1.24	0.85
	46	6.04	5.55	5.04	4.21	3.46	2.78	2.18	1.66	1.19	0.82
Power input	36	3.15	2.94	2.90	2.61	2.37	2.19	2.00	1.81	1.61	1.42
ESM.028.401-B7	28	10.12	9.49	8.67	7.50	6.51	5.38	4.33	3.44	2.60	1.84
	32	9.51	8.89	8.13	6.97	6.02	4.97	4.01	3.14	2.35	1.66
	36	9.12	8.5	7.74	6.58	5.47	4.48	3.58	2.80	2.10	1.48
	40	8.30	7.71	7.04	5.99	4.98	4.03	3.22	2.52	1.89	1.32
	43	7.84	7.28	6.66	5.66	4.70	3.85	3.04	2.35	1.74	1.20
	46	7.48	6.95	6.27	5.33	4.43	3.63	2.90	2.27	1.68	1.17
Power input	36	3.58	3.49	3.39	3.19	2.97	2.75	2.50	2.27	2.02	1.75
ESM.032.401-B8	28	11.32	10.57	9.74	8.32	7.21	5.92	4.72	3.78	2.81	2.00
	32	10.64	9.91	9.14	7.74	6.67	5.47	4.37	3.44	2.54	1.80
	36	10.20	9.44	8.70	7.30	6.06	4.93	3.90	3.07	2.27	1.61
	40	9.28	8.59	7.92	6.64	5.51	4.44	3.51	2.76	2.04	1.43
	43	8.77	8.11	7.48	6.28	5.21	4.24	3.30	2.58	1.91	1.32
	46	8.36	7.74	7.05	5.91	4.91	3.99	3.16	2.49	1.82	1.27
Power input	36	4.12	3.99	3.85	3.59	3.31	3.02	2.64	2.42	2.13	1.84
ESM.036.401-B8	28	13.2	12.20	11.31	9.29	8.31	6.73	5.37	4.21	3.12	2.17
	32	12.43	11.43	10.61	8.64	7.68	6.23	4.97	3.83	2.82	1.96
	36	11.89	10.89	10.10	8.15	6.98	5.61	4.44	3.42	2.52	1.75
	40	10.82	9.91	9.19	7.42	6.35	5.05	4.00	3.08	2.27	1.56
	43	10.23	9.37	8.69	7.01	6.00	4.82	3.75	2.87	2.12	1.44
	46	9.75	8.93	8.18	6.60	5.65	4.54	3.60	2.77	2.02	1.38
Power input	36	4.89	4.69	4.48	4.14	3.70	3.34	2.99	2.64	2.32	2.00

ESM/EMP
Performance data R404A/R507

Model	Ambient Temperature	Evaporating Temperature									
220V/3PH/60Hz	^{0}C	+ 10	+ 7.5	+ 5	0	-5	-10	-15	-20	-25	-30
ESM.040.402-A12	28	15.44	14.24	13.22	11.29	9.34	7.67	6.10	4.75	3.50	2.44
	32	14.27	13.23	12.18	10.31	8.78	7.22	5.75	4.44	3.27	2.26
	36	13.66	12.60	11.60	9.73	7.98	6.50	5.13	3.96	2.92	2.02
	40	12.43	11.47	10.56	8.85	7.26	5.85	4.62	3.56	2.63	1.80
	43	11.61	10.84	9.74	8.17	6.62	5.40	4.31	3.33	2.42	1.64
	46	11.20	10.33	9.40	7.88	6.46	5.27	4.16	3.21	2.34	1.60
Power input	36	5.78	5.52	5.29	4.85	4.44	4.03	3.66	3.29	2.93	2.58
ESM.050.402-B15	28	19.5	18.0	16.70	14.22	11.79	9.61	7.64	5.94	4.32	3.05
	32	18.1	16.9	15.68	13.24	10.97	8.87	7.00	5.45	3.96	2.80
	36	17.3	15.9	14.65	12.26	10.08	8.14	6.42	4.95	3.60	2.52
	40	15.8	14.6	13.38	11.18	9.19	7.41	5.84	4.50	3.28	2.24
	43	14.84	13.70	12.60	10.42	8.57	6.92	5.46	4.16	2.99	2.04
	46	13.64	12.58	11.57	9.44	7.76	6.27	4.94	3.81	2.77	1.94
Power input	36	6.14	5.95	5.77	5.40	5.03	4.66	4.28	3.88	3.46	3.01
ESM.056.402-B15	28	21.20	19.64	18.41	15.75	13.06	10.73	8.56	6.64	4.88	3.39
	32	19.70	18.42	17.28	14.67	12.14	9.91	7.84	6.08	4.48	3.11
	36	18.8	17.4	16.15	13.58	11.16	9.09	7.19	5.53	4.07	2.80
	40	17.17	15.9	14.74	12.38	10.18	8.27	6.54	5.03	3.70	2.49
	43	16.13	14.95	13.89	11.54	9.49	7.73	6.11	4.65	3.38	2.27
	46		13.73	12.76	10.46	8.59	7.00	5.54	4.26	3.13	2.16
Power input	36	7.08	6.83	6.58	6.12	5.68	5.22	4.75	4.27	3.75	3.19
ESM.064.402-C17	28	23.66	21.79	20.39	17.50	14.61	11.97	9.58	7.51	5.52	3.97
	32	21.99	20.44	19.14	16.30	13.59	11.05	8.77	6.89	5.06	3.64
	36	20.94	19.3	17.89	15.09	12.49	10.14	8.05	6.26	4.60	3.28
	40	19.16	17.6	16.33	13.76	11.39	9.23	7.33	5.70	4.19	2.92
	43	18.01	16.58	15.39	12.83	10.62	8.62	6.84	5.26	3.82	2.66
	46		15.23	14.13	11.62	9.62	7.81	6.20	4.82	3.54	2.53
Power input	36	8.00	7.73	7.43	6.89	6.36	5.84	5.31	4.76	4.19	3.58
ESM.072.502-B22	28	28.14	25.88	24.05	20.54	17.05	13.92	11.14	8.74	6.61	4.73
	32	26.15	24.27	22.58	19.13	15.85	12.86	10.20	8.01	6.06	4.34
	36	24.90	22.9	21.10	17.71	14.57	11.80	9.36	7.28	5.51	3.91
	40	22.78	21.0	19.26	16.15	13.29	10.74	8.52	6.62	5.01	3.48
	43	21.41	19.69	18.15	15.05	12.38	10.03	7.96	6.12	4.57	3.17
	46	19.67	18.09	16.67	13.64	11.22	9.09	7.21	5.61	4.24	3.01
Power input	36	9.78	9.52	9.24	8.68	7.96	7.56	6.99	6.36	5.77	5.12

ESM/EMP
Performance data R404A/R507

Model	Ambient Temperature	Evaporating Temperature									
220V/3PH/60Hz	ºC	+ 10	+ 7.5	+ 5	0	-5	-10	-15	-20	-25	-30
ESM.080.502-B22	28	30.40	28.05	26.16	22.49	18.84	15.48	12.60	9.97	7.67	5.70
	32	28.25	26.31	24.56	20.94	17.52	14.30	11.54	9.14	7.03	5.23
	36	26.90	24.8	22.95	19.39	16.10	13.12	10.59	8.31	6.39	4.71
	40	24.61	22.7	20.95	17.68	14.68	11.94	9.64	7.56	5.81	4.19
	43	23.13	21.35	19.74	16.48	13.69	11.15	9.00	6.98	5.30	3.82
	46		19.61	18.13	14.93	12.40	10.10	8.15	6.40	4.92	3.63
Power input	36	11.67	11.30	10.92	10.17	9.44	8.74	8.00	7.25	6.47	5.67
ESM.100.502-C25	28	35.0	32.6	30.00	25.65	22.12	18.12	14.54	11.41	8.51	5.96
	32	32.8	30.5	28.13	23.85	20.26	16.76	13.46	10.39	7.68	5.39
	36	31.5	29.1	26.79	22.50	18.59	15.10	12.02	9.28	6.86	4.81
	40	28.81	26.6	24.46	20.52	16.95	13.74	10.94	8.44	6.24	4.28
	43	27.08	25.00	23.04	19.35	15.99	12.99	10.22	7.80	5.69	3.90
	46		24.71	22.77	19.13	15.80	12.53	9.86	7.61	5.49	3.85
Power input	36	12.43	12.08	11.73	11.03	10.34	9.63	8.89	8.11	7.29	6.39
EMP.125.502-C28	28	42.5	39.8	36.85	31.82	27.83	22.99	18.73	15.13	11.72	8.70
	32	39.9	37.3	34.55	29.58	25.50	21.27	17.34	13.78	10.58	7.86
	36	38.3	35.5	32.90	27.91	23.39	19.16	15.48	12.30	9.45	7.02
	40	35.04	32.5	30.04	25.45	21.33	17.44	14.09	11.19	8.60	6.25
	43	32.93	30.53	28.29	24.00	20.12	16.48	13.16	10.33	7.84	5.69
	46		30.18	27.97	23.72	19.88	15.90	12.69	10.09	7.56	5.62
Power input	36	16.16	15.63	15.08	14.06	13.04	12.05	11.06	10.06	9.05	8.05
EMP.160.632-B45	28	56.0	55.6	48.22	41.60	35.93	30.12	24.58	20.04	15.82	12.00
	32	52.6	52.1	45.20	38.68	33.19	27.86	22.75	18.24	14.29	10.84
	36	50.45	49.62	43.05	36.49	30.45	25.10	20.31	16.29	12.76	9.68
	40	46.16	45.4	39.30	33.28	27.77	22.84	18.48	14.82	11.61	8.62
	43	43.39	42.67	37.02	31.38	25.88	21.34	17.26	13.68	10.59	7.84
	46		42.18	36.59	31.02	25.88	20.83	16.65	13.36	10.21	7.74
Power input	36	23.40	22.58	21.79	20.26	18.82	17.43	16.09	14.80	13.56	12.38

ESM/EMP
Performance data R404A/R507

Model	Ambient Temperature	Evaporating Temperature									
220V/3PH/60Hz	ºC	+ 10	+ 7.5	+ 5	0	-5	-10	-15	-20	-25	-30
EMP.100T.632-C55	28	71.0	66.2	60.92	52.08	44.55	36.79	29.54	23.17	17.27	12.10
	32	66.7	62.1	57.11	48.42	41.15	34.03	27.34	21.10	15.60	10.93
	36	63.93	59.10	54.39	45.68	37.75	30.66	24.41	18.84	13.93	9.76
	40	58.50	54.1	49.66	41.66	34.43	27.90	22.21	17.14	12.68	8.69
	43	54.98	50.83	46.78	39.28	32.09	26.06	20.75	15.83	11.56	7.91
	46		50.24	46.23	38.83	32.09	25.45	20.02	15.45	11.14	7.81
Power input	36	20.90	28.12	27.42	26.02	24.64	23.22	21.74	20.18	18.54	16.74
EMP.125T.633-B75	28	89.6	83.8	77.64	67.04	58.15	48.44	39.47	31.88	24.69	18.34
	32	84.1	78.5	72.79	62.33	53.72	44.81	36.53	29.03	22.30	16.57
	36	80.68	74.80	69.32	58.81	49.28	40.37	32.62	25.92	19.91	14.79
	40	73.82	68.4	63.29	53.63	44.95	36.74	29.68	23.58	18.12	13.16
	43	69.38	64.33	59.62	50.57	41.89	34.31	27.72	21.77	16.53	11.98
	46	68.58	63.58	58.92	49.99	41.89	33.51	26.75	21.25	15.93	11.83
Power input	36	35.06	34.00	32.90	30.86	28.82	26.84	24.86	22.86	20.84	18.84
EMP.160T.633-C88	28	111.2	110.3	95.71	82.57	71.32	59.79	48.78	39.77	31.41	23.83
	32	104.4	103.4	89.73	76.78	65.88	55.30	45.15	36.22	28.37	21.52
	36	100.14	98.50	85.45	72.43	60.44	49.82	40.32	32.34	25.33	19.21
	40	91.63	90.1	78.02	66.06	55.12	45.34	36.69	29.43	23.05	17.10
	43	86.12	84.71	73.49	62.29	51.38	42.35	34.27	27.16	21.02	15.56
	46		83.72	72.64	61.57	51.38	41.35	33.06	26.52	20.26	15.37
Power input	36	44.82	43.18	41.60	38.54	35.66	32.88	30.20	27.62	25.14	22.78

ESL/EMP
Performance data R404A/R507

Model	Ambient Temperature	Evaporating Temperature							
220V/3PH/60Hz	^{0}C	-10	-15	-20	-25	-30	-35	-40	-45
ESL.048.301-B4	28	4.24	3.44	2.77	2.18	1.63	1.17	0.76	0.40
	32	3.75	3.06	2.47	1.94	1.45	1.04	0.68	0.35
	36	3.59	2.94	2.37	1.86	1.39	1.00	0.65	0.34
	40	3.12	2.53	2.04	1.60	1.20	0.86	0.56	0.29
	43	2.84	2.29	1.85	1.45	1.08	0.78	0.51	
	46	2.51	2.03	1.64	1.28	0.96	0.69	0.45	
Power input	36	2.48	2.26	2.01	1.74	1.45	1.15	0.86	0.56
ESL.068.401-A6	28	6.53	5.34	4.35	3.46	2.67	2.00	1.40	0.68
	32	5.78	4.75	3.88	3.08	2.38	1.78	1.25	0.60
	36	5.53	4.56	3.72	2.96	2.28	1.71	1.20	0.58
	40	4.81	3.92	3.20	2.55	1.96	1.47	1.03	0.50
	43	4.37	3.56	2.90	2.31	1.78	1.33	0.94	
	46	3.87	3.15	2.57	2.04	1.57	1.18	0.83	
Power input	36	3.88	3.53	3.14	2.78	2.44	2.12	1.82	1.48
ESL.096.401-B7	28	8.80	7.11	5.69	4.42	3.21	2.23	1.45	0.71
	32	7.80	6.34	5.06	3.94	2.86	1.99	1.29	0.64
	36	7.46	6.08	4.86	3.78	2.74	1.91	1.24	0.61
	40	6.49	5.23	4.18	3.25	2.36	1.64	1.07	
	43	5.89	4.74	3.79	2.95	2.14	1.49	0.97	
	46	5.22	4.20	3.35	2.61	1.89	1.32	0.86	
Power input	36	5.25	4.61	4.01	3.44	2.88	2.37	1.89	1.51
ESL.108.401-B8	28	10.15	8.15	6.59	5.11	3.84	2.75	1.83	0.98
	32	8.99	7.26	5.87	4.55	3.42	2.45	1.63	0.88
	36	8.60	6.97	5.63	4.37	3.28	2.35	1.56	0.84
	40	7.48	5.99	4.84	3.76	2.82	2.02	1.34	
	43	6.79	5.44	4.39	3.41	2.56	1.83	1.22	
	46	6.02	4.81	3.88	3.02	2.26	1.62	1.08	
Power input	36	6.02	5.22	4.57	3.92	3.35	2.84	2.40	2.00
ESL.136.402-A12	28	12.90	10.55	8.46	6.66	5.07	3.65	2.43	1.38
	32	11.42	9.40	7.53	5.93	4.51	3.25	2.17	1.23
	36	10.93	9.02	7.23	5.69	4.33	3.12	2.08	1.18
	40	9.51	7.76	6.22	4.89	3.72	2.68	1.79	
	43	8.63	7.04	5.64	4.44	3.38	2.43	1.62	
	46	7.65	6.22	4.99	3.93	2.99	2.15	1.44	
Power input	36	8.13	7.14	6.25	5.42	4.67	3.99	3.36	2.80

ESL/EMP
Performance data R404A/R507

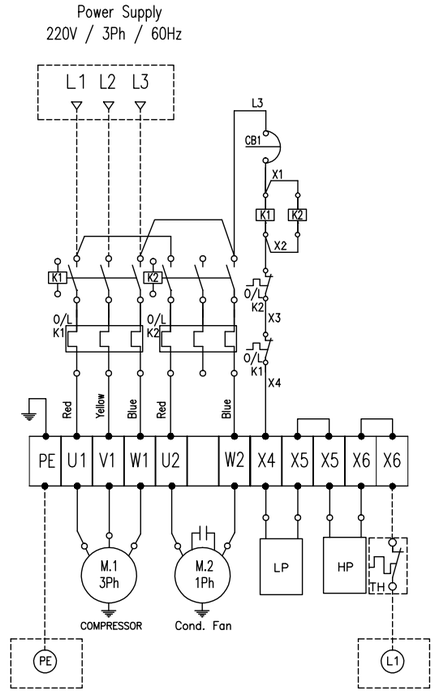
Model	Ambient Temperature	Evaporating Temperature							
220V/3PH/60Hz	^{0}C	-10	-15	-20	-25	-30	-35	-40	-45
ESL.215.402-B15	28	18.59	15.17	12.19	9.77	7.49	5.53	3.83	2.34
	32	16.46	13.51	10.86	8.70	6.67	4.93	3.41	2.08
	36	15.75	12.97	10.42	8.35	6.40	4.73	3.27	2.00
	40	13.70	11.15	8.96	7.18	5.50	4.07	2.81	1.72
	43	12.44	10.12	8.13	6.51	4.99	3.69	2.55	
	46	11.03	8.95	7.19	5.68	4.35	3.22	2.22	
Power input	36	11.24	10.04	8.82	7.66	6.54	5.49	4.56	3.64
ESL.271.502-C25	28	27.97	22.62	18.25	14.27	11.07	8.18	5.84	3.77
	32	24.77	20.14	16.26	12.71	9.86	7.28	5.20	3.36
	36	23.70	19.33	15.60	12.20	9.46	6.99	4.99	3.22
	40	20.62	16.62	13.42	10.49	8.14	6.01	4.29	2.77
	43	18.72	15.08	12.17	9.52	7.38	5.45	3.89	
	46	16.59	13.34	10.76	8.42	6.53	4.82	3.44	
Power input	36	14.88	13.43	11.98	10.67	9.39	8.23	7.06	5.92
Tandem Units. 2 compressors in Series									
EMP.215T.502-C31	28	38.10	31.11	24.99	20.03	15.35	11.34	7.84	4.80
	32	33.74	27.71	22.26	17.84	13.67	10.10	6.99	4.27
	36	32.29	26.59	21.36	17.12	13.12	9.70	6.70	4.10
	40	28.09	22.87	18.37	14.72	11.28	8.34	5.77	3.53
	43	25.51	20.74	16.66	13.35	10.23	7.56	5.23	
	46	22.60	18.35	14.74	11.64	8.92	6.59	4.56	
Power input	36	22.78	20.38	17.94	15.62	13.38	11.28	9.42	7.58
EMP.271T.632-B45	28	54.67	44.21	35.68	27.91	21.64	15.99	11.41	7.37
	32	48.42	39.38	31.78	24.85	19.27	14.24	10.17	6.56
	36	46.33	37.79	30.50	23.85	18.49	13.67	9.76	6.30
	40	40.31	32.50	26.23	20.51	15.91	11.75	8.39	5.41
	43	36.60	29.48	23.79	18.60	14.43	10.66	7.61	
	46	32.43	26.08	21.04	16.46	12.76	9.43	6.73	
Power input	36	30.50	27.60	24.70	22.08	19.52	17.20	14.86	12.58

Complete System Solution

Model 220V/3PH/60Hz	Nominal HP	kW[1]	Room Temp	Evap	Ordering Code	
			°C		With heaters	Without heaters
ESM.018.351-A4	1.5	3.21	+1 to +3	EKA1.030-15	ESM018-01-CT-E	ESM018-01-CT-0
		0.91	-18 to - 20	EKA1.025-13-E	ESM018-20-CT-E	
ESM.022.401-A6	1.8	4.27	+1 to +3	EKA1.030-16	ESM022-01-CT-E	ESM022-01-CT-0
		1.45	-18 to - 20	EKA1.025-15-E	ESM022-20-CT-E	
ESM.028.401-B7	2.3	5.47	+1 to +3	EKA1.040-14	ESM028-01-CT-E	ESM028-01-CT-0
		2.05	-18 to - 20	EKA1.030-13-E	ESM028-20-CT-E	
ESM.032.401-B8	2.7	6.06	+1 to +3	EKA1.040-14	ESM032-01-CT-E	ESM032-01-CT-0
		2.11	-18 to - 20	EKA1.030-14-E	ESM032-20-CT-E	
ESM.036.401-C9	3.0	6.98	+1 to +3	EKA1.030-24	ESM036-01-CT-E	ESM036-01-CT-0
		2.32	-18 to - 20	EKA1.030-14-E	ESM036-20-CT-E	
ESM.040.402-A12	3.3	7.98	+1 to +3	EKA1.030-25	ESM040-01-CT-E	ESM040-01-CT-0
		2.63	-18 to - 20	EKA1.030-15-E	ESM040-20-CT-E	
ESM.050.402-B15	4.2	10.08	+1 to +3	EKA1.030-35	ESM050-01-CT-E	ESM050-01-CT-0
		3.31	-18 to - 20	EKA1.030-16-E	ESM050-20-CT-E	
ESM.056.402-B15	4.7	11.16	+1 to +3	EKA1.030-35	ESM056-01-CT-E	ESM056-01-CT-0
		3.72	-18 to - 20	EKA1.025-26-E	ESM056-20-CT-E	
ESM.064.402-C17	5.3	12.49	+1 to +3	EKA1.030-36	ESM064-01-CT-E	ESM064-01-CT-0
		4.30	-18 to - 20	EKA1.025-35-E	ESM064-20-CT-E	
ESM.072.502-B22	6.0	14.57	+1 to +3	EKA1.040-26	ESM072-01-CT-E	ESM072-01-CT-0
		5.19	-18 to - 20	EKA1.030-25-E	ESM072-20-CT-E	
ESM.080.502-B22	6.7	16.10	+1 to +3	EKA1.040-26	ESM080-01-CT-E	ESM080-01-CT-0
		6.05	-18 to - 20	EKA1.030-25-E	ESM080-20-CT-E	
ESM.100.502-C25	8.3	18.59	+1 to +3	EKA1.040-34	ESM0100-01-CT-E	ESM0100-01-CT-0
		6.55	-18 to - 20	EKA1.030-26-E	ESM0100-20-CT-E	
EMP.125.502-C28	10.4	23.39	+1 to +3	EKA1.050-24	EMP0125-01-CT-E	EMP0125-01-CT-0
		9.11	-18 to - 20	EKA1.030-36-E	EMP0125-20-CT-E	
EMP.160.632-B45	13.3	30.45	+1 to +3	EKA1.050-26	EMP0160-01-CT-E	EMP0160-01-CT-0
		12.15	-18 to - 20	EKA1.040-26-E	EMP0160-20-CT-E	
EMP.100T.632-C55	16.7	35.75	+1 to +3	EKA1.050-34 2 x circuit	EMP0100T-01-CT-E	EMP0100T-01-CT-0
		13.24	-18 to - 20	EKA1.040-26-E 2 x circuit	EMP0100T-20-CT-E	
EMP.125T.633-B75	20.8	49.28	+1 to +3	EKA1.050-36 2 x circuits	EMP0125-01-CT-E	EMP0125-01-CT-0
		18.75	-18 to - 20	EKA1.040-36-E 2 x circuits	EMP0125-20-CT-E	
EMP.160T.633-C88	26.7	60.44	+1 to +3	EKA1.050-26. 2 units	EMP0160T-01-CT-E	EMP0160T-01-CT-0
		24.35	-18 to - 20	EKA1.050-26-E 2xcircuit	EMP0160T-20-CT-E	

1: Capacity in kW at +36C ambient temperature. R507a

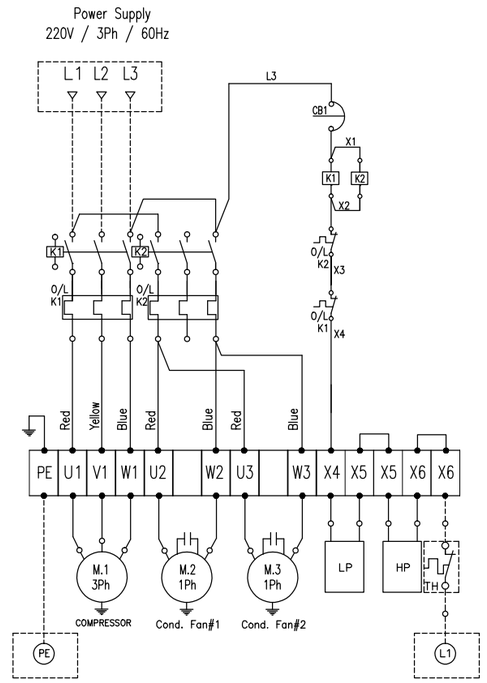
Electrical wiring diagram:



Item	Description
K1	Magnetic Contactor for Compressor
K2	Magnetic Contactor for Condenser fan
M1	Compressor
M2	Condenser fan
O/L K1	Overload Compressor
O/L K2	Overload Condenser fan
LP	Low Pressure Control
HP	High Pressure Control
CB1	Circuit Control Breaker
TH	Temperature Control (By Customer)

ESM.018.351-A4
ESM.022.401-A6
ESM.028.401-B7
ESM.032.401-B8
ESM.036.401-C9
ESL.048.301-B4
ESL.068.401-A6
ESL.096.401-B7

Factory wiring
Customer wiring
By Customer

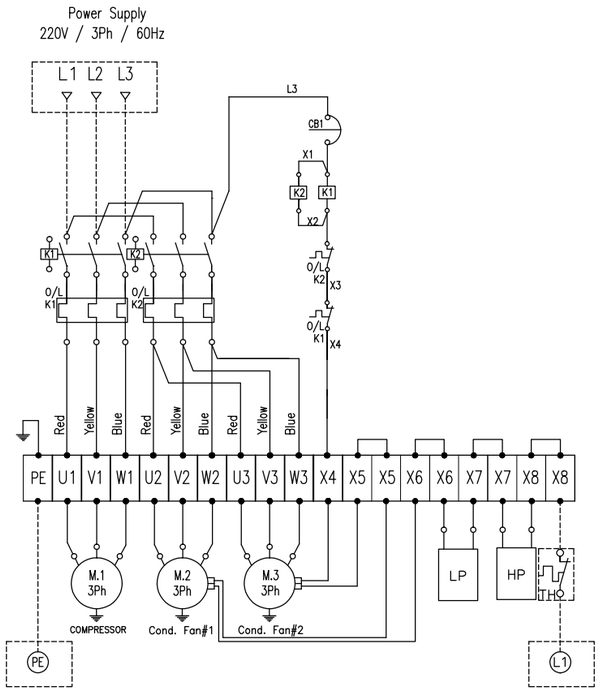


Item	Description
K1	Magnetic Contactor for Compressor
K2	Magnetic Contactor for Condenser fan
M1	Compressor
M2	Condenser fan #1
M3	Condenser fan #2
O/L K1	Overload Compressor
O/L K2	Overload Condenser fan
LP	Low Pressure Control
HP	High Pressure Control
CB1	Circuit Control Breaker
TH	Temperature Control (By Customer)

ESM.040.402-A12
ESM.050.402-B15
ESM.056.402-B15
ESM.064.402-C17
ESL.136.402-A12
ESL.215.402-B15

Factory wiring
Customer wiring
By Customer

Electrical wiring diagram:

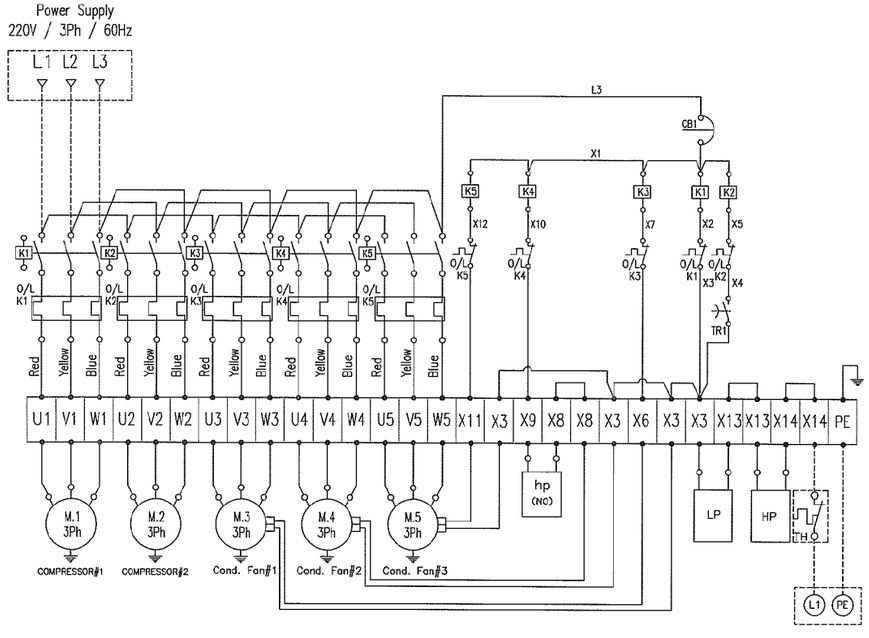


Item	Description
K1	Magnetic Contactor for Compressor
K2	Magnetic Contactor for Condenser fan
M1	Compressor
M2	Condenser fan #1
M3	Condenser fan #2
O/L K1	Overload Compressor
O/L K2	Overload Condenser fan
LP	Low Pressure Control
HP	High Pressure Control
CB1	Circuit Control Breaker
TH	Temperature Control (By Customer)

ESM.072.502-B22
ESM.080.502-B22
ESM.100.502-C25
EMP.125.502-C28
ESL.271.502-C25

Factory wiring
Customer wiring
By Customer

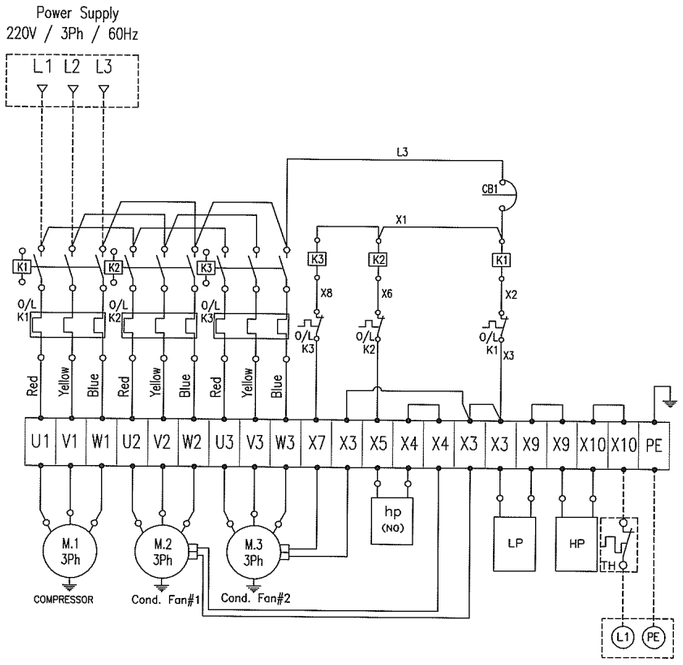
Electrical wiring diagram:



Item	Description
K1	Magnetic Contactor for Compressor #1
K2	Magnetic Contactor for Compressor #2
K3	Magnetic Contactor for Condenser fan #1
K4	Magnetic Contactor for Condenser fan #2
K5	Magnetic Contactor for Condenser fan #3
M1	Compressor #1
M2	Compressor #2
M3	Condenser fan #1
M4	Condenser fan #2
M5	Condenser fan #3
O/L K1	Overload Compressor #1
O/L K2	Overload Compressor #2
O/L K3	Overload Condenser fan #1
O/L K4	Overload Condenser fan #2
O/L K5	Overload Condenser fan #3
TR1	Relay on make timer
LP	Low Pressure Control
HP	High Pressure Control
hp(on)	High Pressure Control for Condenser fan #2
CB1	Circuit Control Breaker
TH	Temperature Control (By Customer)

EMP.125T.633-B75
EMP.160T.633-C88

Factory wiring
Customer wiring
By Customer



Item	Description
K1	Magnetic Contactor for Compressor
K2	Magnetic Contactor for Condenser fan #1
K3	Magnetic Contactor for Condenser fan #2
M1	Compressor
M2	Condenser fan #1
M3	Condenser fan #2
O/L K1	Overload Compressor
O/L K2	Overload Condenser fan #1
O/L K3	Overload Condenser fan #2
LP	Low Pressure Control
HP	High Pressure Control
hp(on)	High Pressure Control for Condenser fan #2
CB1	Circuit Control Breaker
TH	Temperature Control (By Customer)

EMP.125.502-C28
EMP.160.632-B45

Factory wiring
Customer wiring
By Customer

Dimension

Model	Unit Dimensions. mm			Condenser Fan mm	Liquid Receiver L	Sound Pressure at 10m dB(A)	Weight kg	Figure
	L	W	H					
ESM.018.351-A4	1105	455	595	1 x 350	3,4	38	110	1
ESM.022.401-A6	1105	455	695	1 x 400	3,4	42	121	1
ESM.028.401-B7	1105	455	695	1 x 400	6	42	133	1
ESM.032.401-B8	1105	455	845	1 x 400	6	42	134	1
ESM.036.401-C9	1105	455	845	1 x 400	6	42	135	1
ESM.040.402-A12	1205	555	1300	2 x 400	6	46	216	2
ESM.050.402-B15	1205	555	1300	2 x 400	6	46	225	2
ESM.056.402-B15	1205	555	1300	2 x 400	6	46	227	2
ESM.064.402-C17	1205	555	1300	2 x 400	11	46	231	2
ESM.072.502-B22	1205	555	1600	2 x 500	11	52	240	3
ESM.080.502-B22	1205	555	1600	2 x 500	11	52	240	3
ESM.100.502-C25	1205	555	1600	2 x 500	13	55	280	3
EMP.125.502-C28	1535	760	1410	2 x 500	13	55	284	4
EMP.160.632-B45	2235	760	1420	2 x 630	13	59	329	5
EMP.100T.632-C55	2235	760	1420	2 x 630	23	59	380	5
EMP.125T.633-B75	3690	760	1420	3 x 630	30	61	448	6
EMP.160T.633-C88	3690	760	1420	3 x 630	30	61	478	6

Model	Unit Dimensions. mm			Condenser Fan mm	Liquid Receiver L	Sound Pressure at 10m dB(A)	Weight kg	Figure
	L	W	H					
ESL.048.301-B4	1105	455	595	1 x 300	3,4	38	121	1
ESL.068.401-A6	1105	455	695	1 x 400	3,4	40	133	1
ESL.096.401-B7	1105	455	695	1 x 400	6	43	145	1
ESL.108.401-B8	1105	455	845	1 x 400	6	46	145	1
ESL.136.402-A12	1205	555	1295	2 x 400	6	46	225	2
ESL.215.402-B15	1205	555	1295	2 x 400	11	55	252	2
ESL.271.502-C25	1205	555	1600	2 x 500	13	55	284	2
EMP.215T.502-C31	1840	760	1410	2 x 500	25 L	58	324	4
EMP.271T.632-B45	2235	760	1410	2 x 630	30 L	58	388	5

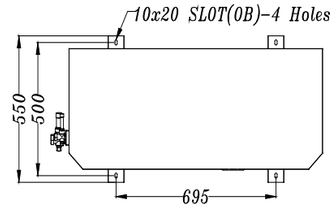
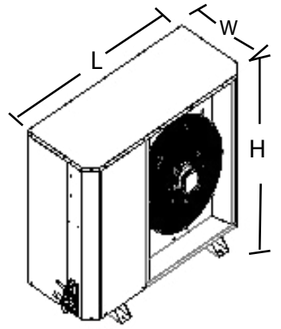


Figure 1



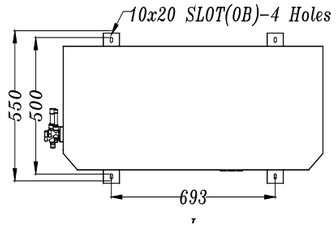
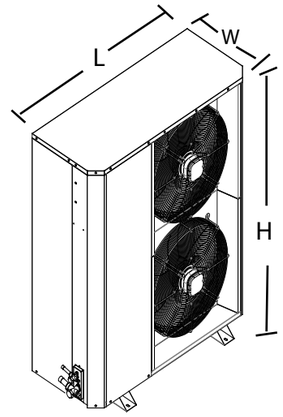


Figure 2



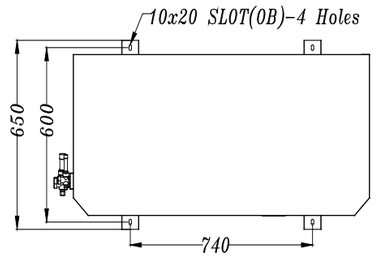
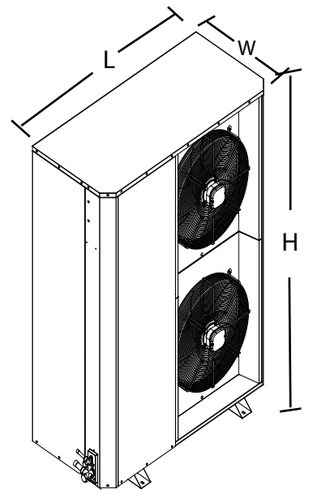


Figure 3



Dimension

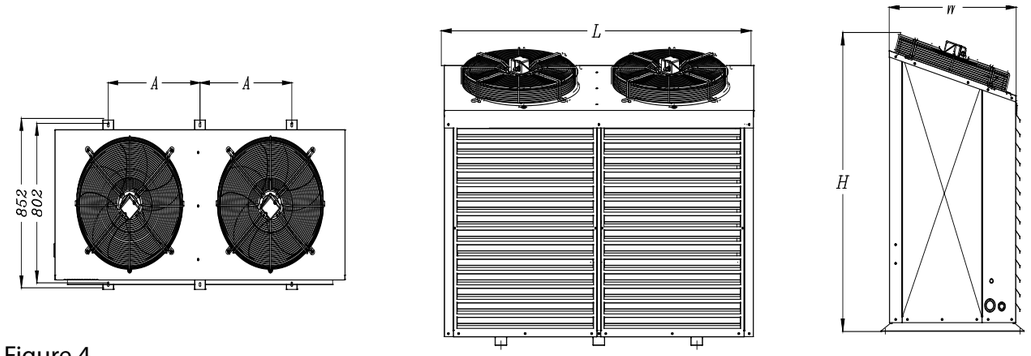


Figure 4

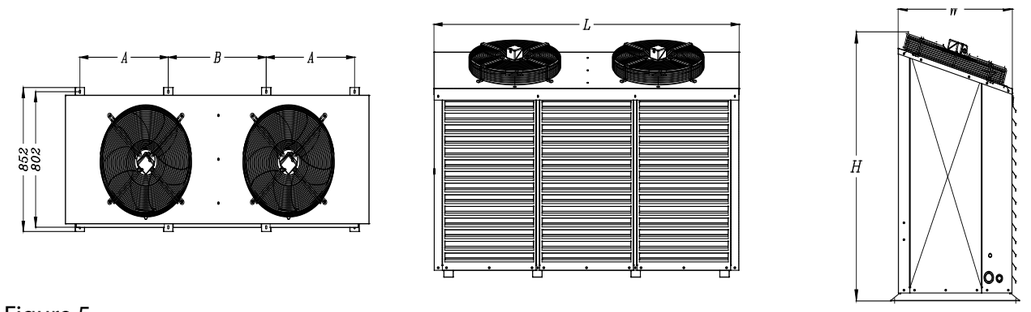


Figure 5

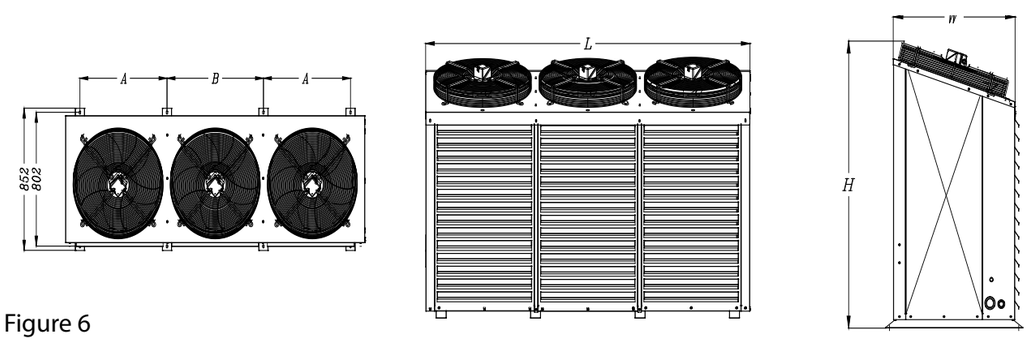


Figure 6

General specification EKA-KOOL Condensing Units

All* EKA-KOOL *products are ISO 9001:2008 certified and all production processes undergo quality control procedures. All staff are well trained within their scope of competence and the company lives up to all authority regulations. The company respects local culture and value bringing harmony between work and private lives.

Capacity

All our capacities are calculated on R507A
Our technical team are ready to support you on all technical issues at info@eka-kool.com

Compressors

Reliable compressors from reputable manufactuers

Condenser Coils

Fins are made of high quality aluminium alloy and mechanically expanded onto high grade copper tube. Tube sizes is 3/8" and 1/2" Fin spacing 2.5mm All coils are leak tested with dry nitrogen ensuring leak free coils. All condensing units are delivered with a holding charge of dry nitrogen once the leak test has been approved by our quality control department

Casing

Robust and strong supported zink steel coated casing. Individual fan segments for optimal air distribution and fan control. Casing design with angle corners of 45 degree for easy welding of inlet and out connections during installation

Fan Motors

Powerfull, low noise, internal rotor., axial fan motors in protection class IP44 for all fan diameters 250mm - 400mm and IP54 for all fan diameters 500mm-1000mm.
Winding temperature class for all motors is THCI 155 (IEC 60085). Electrical dimensioning is conducted according to regulation of rotating electrical machines DIN EN 60034-1 and internal balance with protection guard grill according to EN294.

Single phase 230V 50/60HZ for all fans 250mm-400mm with optional of 3 phase 220V/60Hz.
Three phase 400V 50Hz or 480V 60Hz for all fans 500mm-1000mm optional available for all other voltages of 4poles. 6poles. Reliability and low power consumption.
Please refer to the nameplate for more information.
Admissible air temperature -40 °C to +60 °C .
All fans are pre-wired to the wheather proof terminal box. tested and approved by electrical department at factory to secure safety and optimal operation of the motors.

Sound

Comply to standard procedure for calculation of sound pressure level according to EN13487.

Pakaging

All EKA-KOOL's condensing units delivered packaged in instalation position.

Accessories

Fan motors. fan blade (rotors). electrical heaters. drain tray. feet for floor mounting. wall brackets. electrical box.
Please consult with our technical department for more information

Your Success is Our Success

EKA-KOOL®. the specialist in fin & tube heat exchangers technology proundly present to the market its unique design commercial line serving the refrigeration and air-conditioning industries.
EKA-KOOL® stands for efficiency. value for your investment. true performer and a trustworthy partner to your business.






EKA-KOOL Pte Ltd
60 Tessensohn Road
#02-01A Club CSC @ Tessensohn
Singapore 217664
Telephone +84903788664
Email: info@eka-kool.com
Literature no. CDU012129-E1-01

www.eka-kool.com