



- Factory Applied Condenser Fin & Tube "Blue Coil Coat" Corrosion Protection
- High Efficiency BLDC Scroll Compressor
- Slim profile, Suitable for Limited Space
- Web monitoring readiness
- Easy Access to Service
- Low Noise
- User Friendly Digital Controller with LED Display

■ Full Coil Coating
Condenser Fin &
Condenser Tube

■ Fan Speed Control *

■ EMI Filter *
Corresponding to
EMC Requirement

■ Sound Insulation
Casing

■ Additional Oil
Pre-charged

■ Easy Access Front
Door Design

■ Phase Protection
■ Discharge gas overheat
Protection
■ Hi/Low Pressure Protection
■ Compressor minimum off
time control
■ Web monitoring readiness **

■ Suction/Discharge Pressure
Gauge *

■ BLDC Scroll Compressor
20-100 RPS

■ Galvanized Steel Casing with
Powder Coating

■ Easy Access Liquid Sight
Glass with Moisture Indicator

*Optional

**Web monitoring readiness

- Remote parameter setting
- Real-time suction pressure, discharge temperature, operating duty, running status, alarm status

Inverter Benefits

■ Precision Temperature Control

Unnoticeable swing in temperature because of its adaptation of capacity to match with any variable conditions automatically

■ High Efficiency

Deliver only the energy needed to satisfy the cooling condition, thereby saving both energy and cash

■ Humidity Control

Enjoy greater comfortable climate with desired level of humidity at a glance

R404A Med Temp

Capacity (Watts) @20Hz								Power Input (Watts) @20Hz					
Model	Ambient (°C)	Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
KIV33	32	1.09	1.32	1.60	1.92	2.29	2.71	0.64	0.65	0.65	0.66	0.66	0.67
	38	0.95	1.17	1.44	1.75	2.11	2.52	0.72	0.73	0.73	0.73	0.73	0.73
	43	0.86	1.07	1.32	1.62	1.96	2.35	0.80	0.80	0.80	0.80	0.80	0.80
KIV42	32	1.24	1.58	1.94	2.34	2.80	3.32	0.76	0.78	0.79	0.80	0.81	0.81
	38	1.11	1.43	1.77	2.16	2.59	3.08	0.84	0.86	0.87	0.89	0.90	0.91
	43	1.01	1.31	1.63	1.99	2.40	2.87	0.92	0.94	0.95	0.97	0.99	1.00
KIV66	32	2.09	2.64	3.29	4.05	4.91	5.87	1.63	1.62	1.60	1.59	1.59	1.58
	38	1.92	2.42	3.03	3.73	4.54	5.45	1.77	1.75	1.74	1.73	1.72	1.71
	43	1.75	2.22	2.78	3.45	4.21	5.08	1.90	1.88	1.87	1.86	1.85	1.85
KIV78	32	2.56	3.23	4.03	4.95	5.99	7.13	1.73	1.71	1.71	1.71	1.71	1.71
	38	2.33	2.96	3.70	4.56	5.52	6.60	1.93	1.92	1.92	1.93	1.94	1.95
	43	2.13	2.71	3.41	4.21	5.12	6.12	2.15	2.15	2.15	2.16	2.17	2.19

Capacity (Watts) @60Hz								Power Input (Watts) @60Hz					
Model	Ambient (°C)	Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
KIV33	32	3.15	3.80	4.60	5.56	6.67	7.91	1.76	1.81	1.87	1.91	1.94	1.96
	38	3.08	3.68	4.43	5.33	6.36	7.52	2.05	2.09	2.12	2.15	2.18	2.20
	43	2.95	3.50	4.20	5.03	6.00	7.09	2.31	2.33	2.35	2.38	2.40	2.42
KIV42	32	3.86	4.89	6.00	7.22	8.56	10.07	2.21	2.30	2.37	2.45	2.53	2.60
	38	3.48	4.45	5.48	6.60	7.86	9.26	2.48	2.56	2.66	2.75	2.84	2.93
	43	3.14	4.05	5.01	6.06	7.23	8.55	2.75	2.83	2.93	3.02	3.12	3.22
KIV66	32	6.62	8.07	9.79	11.77	13.95	16.38	4.22	4.23	4.27	4.32	4.40	4.49
	38	6.05	7.38	8.96	10.79	12.85	15.12	4.68	4.70	4.74	4.81	4.90	5.02
	43	5.54	6.75	8.22	9.94	11.87	14.01	5.10	5.14	5.19	5.27	5.38	5.51
KIV78	32	7.64	9.29	11.27	13.56	16.11	18.91	4.68	4.72	4.79	4.88	5.00	5.15
	38	6.92	8.46	10.29	12.42	14.82	17.45	5.27	5.31	5.39	5.50	5.63	5.80
	43	6.27	7.71	9.45	11.46	13.75	16.25	5.81	5.86	5.95	6.07	6.21	6.38

Capacity (Watts) @100Hz								Power Input (Watts) @100Hz					
Model	Ambient (°C)	Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
KIV33	32	5.08	6.14	7.43	8.91	10.59	12.43	3.53	3.68	3.81	3.92	4.02	4.11
	38	4.61	5.58	6.77	8.15	9.69	11.40	4.11	4.23	4.33	4.43	4.53	4.61
	43	4.18	5.08	6.17	7.46	8.88	10.46	4.65	4.74	4.82	4.90	4.99	5.07
KIV42	32	5.99	7.56	9.21	10.96	12.90	15.01	4.32	4.53	4.75	4.99	5.23	5.48
	38	5.34	6.79	8.30	9.91	11.68	13.63	4.88	5.10	5.33	5.58	5.84	6.12
	43	4.77	6.12	7.52	9.01	10.63	12.44	5.42	5.63	5.87	6.13	6.42	6.72
KIV66	32	10.15	12.14	14.52	17.20	20.20	23.41	7.81	8.01	8.25	8.57	8.93	9.37
	38	9.09	10.89	13.05	15.55	18.33	21.35	8.64	8.87	9.16	9.50	9.90	10.37
	43	8.13	9.79	11.79	14.12	16.70	19.54	9.46	9.71	10.02	10.40	10.86	11.37
KIV78	32	11.86	14.12	16.86	19.97	23.43	27.18	8.95	9.22	9.54	9.93	10.38	10.91
	38	10.63	12.71	15.21	18.08	21.28	24.76	9.97	10.24	10.57	11.00	11.49	12.08
	43	9.53	11.45	13.78	16.45	19.45	22.71	10.87	11.15	11.50	11.96	12.49	13.13

Note : The rating condition is based on a suction superheat of 10 K. , Subcooling with the limits of the condensing unit

R448A / R449A Med Temp

Capacity (Watts) @20Hz								Power Input (Watts) @20Hz					
Model	Ambient (°C)	Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
KIV33	32	0.89	1.10	1.35	1.64	1.99	2.38	0.56	0.58	0.59	0.60	0.61	0.62
	38	0.83	1.02	1.26	1.54	1.86	2.23	0.63	0.64	0.66	0.67	0.68	0.69
	43	0.77	0.95	1.18	1.45	1.76	2.11	0.69	0.71	0.72	0.73	0.75	0.76
KIV42	32	1.05	1.35	1.69	2.07	2.51	3.03	0.71	0.73	0.75	0.76	0.78	0.79
	38	0.96	1.25	1.56	1.91	2.33	2.81	0.78	0.81	0.83	0.85	0.87	0.88
	43	0.88	1.15	1.44	1.78	2.16	2.62	0.85	0.88	0.91	0.93	0.95	0.97
KIV66	32	1.71	2.14	2.69	3.33	4.08	4.90	1.38	1.41	1.44	1.46	1.46	1.46
	38	1.58	1.99	2.50	3.12	3.82	4.61	1.51	1.54	1.57	1.59	1.60	1.60
	43	1.47	1.85	2.34	2.92	3.60	4.35	1.63	1.67	1.70	1.73	1.74	1.74
KIV78	32	2.17	2.77	3.49	4.33	5.27	6.31	1.46	1.51	1.54	1.57	1.60	1.61
	38	2.01	2.57	3.26	4.05	4.94	5.92	1.67	1.72	1.76	1.79	1.82	1.83
	43	1.86	2.39	3.04	3.79	4.64	5.58	1.87	1.92	1.96	2.00	2.03	2.04

Capacity (Watts) @60Hz								Power Input (Watts) @60Hz					
Model	Ambient (°C)	Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
KIV33	32	2.84	3.41	4.13	4.99	5.99	7.11	1.56	1.61	1.66	1.70	1.74	1.77
	38	2.70	3.23	3.91	4.73	5.67	6.74	1.79	1.84	1.89	1.93	1.97	2.01
	43	2.57	3.07	3.71	4.49	5.40	6.41	2.01	2.05	2.10	2.15	2.19	2.23
KIV42	32	3.34	4.30	5.31	6.43	7.71	9.20	1.84	1.93	2.02	2.10	2.19	2.28
	38	3.03	3.92	4.86	5.89	7.09	8.46	2.06	2.16	2.26	2.36	2.45	2.57
	43	2.74	3.58	4.46	5.43	6.55	7.85	2.26	2.38	2.48	2.59	2.70	2.82
KIV66	32	5.40	6.68	8.19	9.92	11.86	14.03	3.49	3.64	3.77	3.90	4.02	4.13
	38	5.04	6.23	7.64	9.27	11.11	13.17	3.90	4.06	4.22	4.37	4.51	4.63
	43	4.71	5.83	7.16	8.71	10.47	12.43	4.30	4.47	4.65	4.81	4.96	5.11
KIV78	32	6.58	8.08	9.95	12.11	14.55	17.19	3.90	4.09	4.28	4.46	4.64	4.83
	38	6.08	7.51	9.28	11.31	13.62	16.11	4.39	4.61	4.82	5.04	5.25	5.47
	43	5.65	7.02	8.70	10.64	12.82	15.20	4.85	5.09	5.34	5.58	5.82	6.06

Capacity (Watts) @100Hz								Power Input (Watts) @100Hz					
Model	Ambient (°C)	Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
KIV33	32	4.41	5.35	6.54	7.92	9.49	11.19	3.10	3.23	3.37	3.51	3.63	3.76
	38	4.06	4.94	6.04	7.35	8.83	10.43	3.58	3.72	3.85	3.99	4.12	4.25
	43	3.76	4.58	5.62	6.86	8.25	9.78	4.04	4.17	4.30	4.43	4.58	4.72
KIV42	32	5.13	6.55	8.03	9.64	11.44	13.50	3.34	3.55	3.76	3.98	4.21	4.48
	38	4.58	5.91	7.28	8.76	10.43	12.36	3.75	3.98	4.21	4.46	4.72	5.01
	43	4.12	5.38	6.66	8.05	9.62	11.42	4.13	4.38	4.64	4.90	5.19	5.51
KIV66	32	8.43	10.26	12.40	14.86	17.59	20.58	6.49	6.89	7.31	7.73	8.17	8.63
	38	7.75	9.47	11.49	13.76	16.30	19.08	7.29	7.74	8.18	8.65	9.13	9.62
	43	7.17	8.80	10.69	12.83	15.22	17.85	8.07	8.55	9.03	9.52	10.03	10.53
KIV78	32	10.46	12.57	15.17	18.15	21.45	25.03	7.48	7.97	8.48	9.05	9.68	10.35
	38	9.56	11.56	13.99	16.79	19.87	23.20	8.34	8.88	9.47	10.11	10.83	11.59
	43	8.82	10.71	13.00	15.64	18.55	21.66	9.14	9.75	10.41	11.12	11.91	12.78

Note : 1. The rating condition is based on a suction superheat of 10 K, Subcooling with the limits of the condensing unit
 2. R448A & R449A are considered at dew point

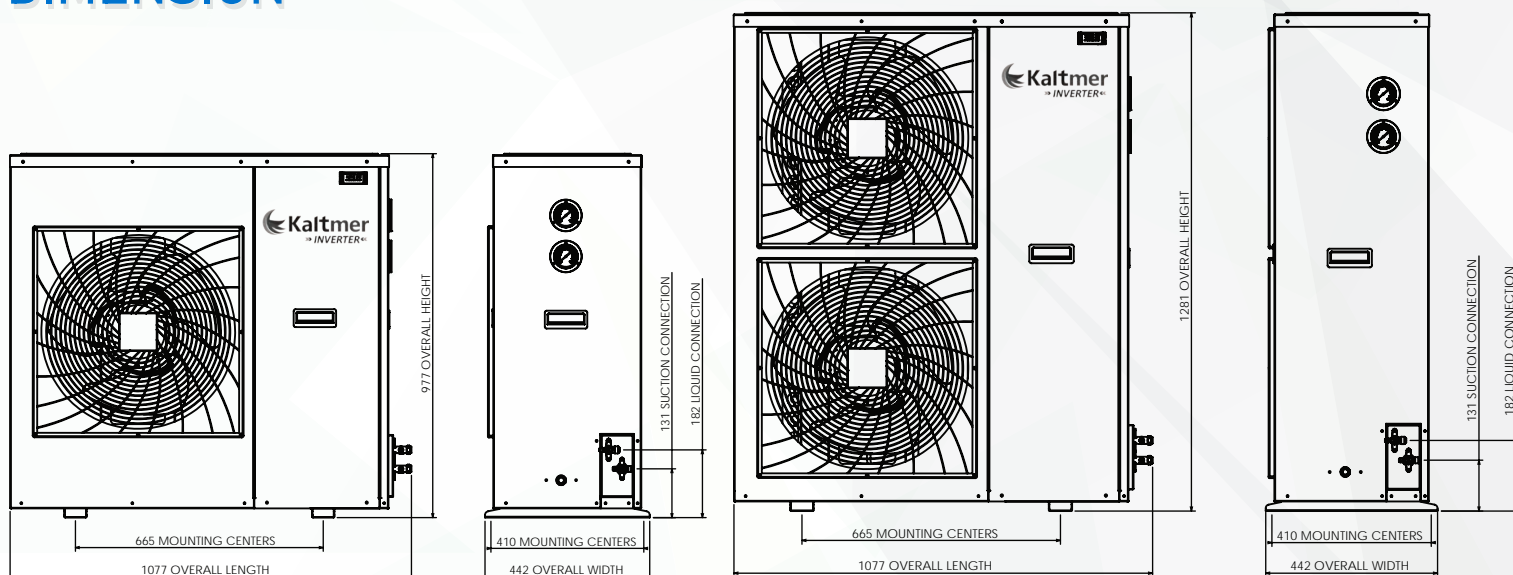
TECHNICAL DATA

Model Name	KIV33	KIV42	KIV66	KIV78
COMPRESSOR				
Model	ADB33FCAMTS	ADB42FCAMTS	ADB66FDAMTS	ADB78FDAMTS
Voltage	3PH AC 380-460V 50/60 Hz			
RLA Amps	7.5	9.1	13.3	15.2
MCC Amps	13.1	13.1	21.5	23.8
Oil Type	PVE 68			
Oil Pre-charge	1.9 L			
CONDENSER				
Airflow (m3/hr)	4,880	4,880	8,600	9,690
No. Fan Motor (1)	1 x 20"	1 x 20"	2 x 20"	2 x 20"
Total Watts	118	118	236	236
Receiver (litre)	7.9	7.9	7.9	7.9
Suction size	7/8"	7/8"	1-1/8"	1-1/8"
Liquid size	1/2"	1/2"	1/2"	5/8"
Weight (kg)	105	108	130	140
Noise level (dBA) (2)	63	63	64	64

Note : (1) All fans 220-240V / 1PH / 50Hz

(2) All noise level rating are "Free Field" based at a distance of 2.0 meters and 100 RPS

DIMENSION





SCMREF THAI

"Quality we care, United we are"