Kaltmer
» INVERTER «

SCMREF THAI

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

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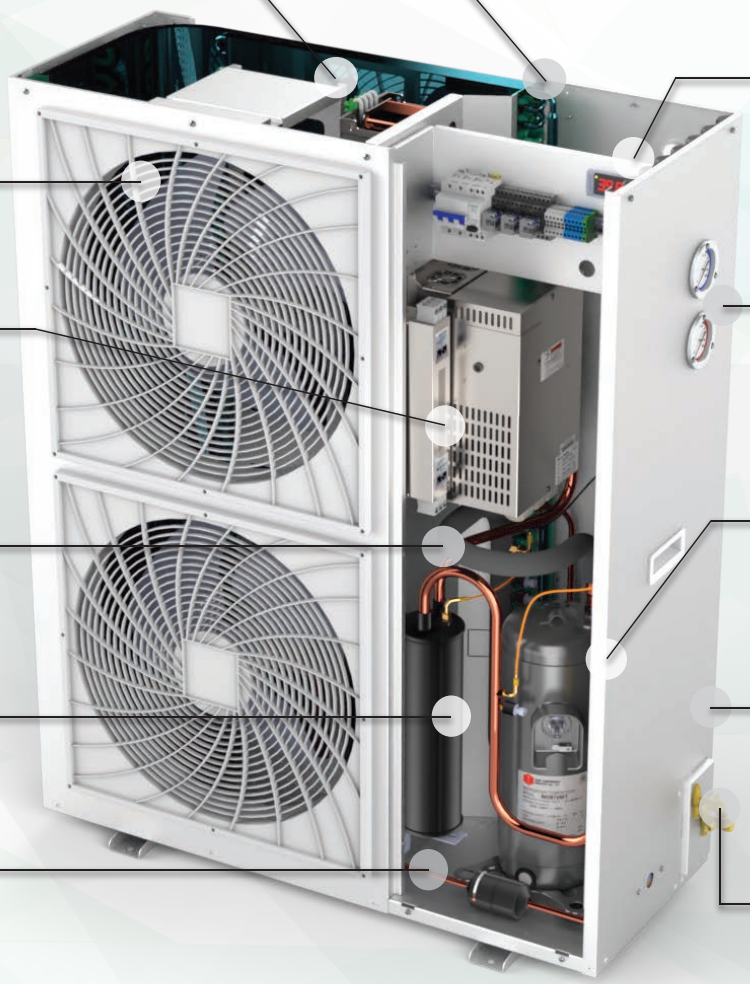
- Full Coil Coating Condenser Fin & Condenser Tube
- Fan Speed Control *
- EMI Filter * Corresponding to EMC Requirement
- Sound Insulation Casing
- Additional Oil Pre-charged
- Easy Access Front Door Design



- Phase Protection
- Discharge gas overheat Protection
- Hi/Low Pressure Protection
- Compressor minimum off time control
- X-web Communication **
- 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

**X-web communication feature

- 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

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SCMREF THAI

R404A Med Temp

Model	Ambient (°C)	Capacity (kw) @ 20 RPS — Evaporating Temp (°C)						Power Input (kw) @ 20 RPS — Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	32	0.98	1.20	1.48	1.80	2.15	2.59	0.47	0.48	0.49	0.50	0.50	0.52
	38	0.91	1.13	1.39	1.69	2.05	2.44	0.72	0.72	0.72	0.72	0.73	0.73
	43	0.83	1.03	1.28	1.57	1.90	2.28	0.81	0.80	0.80	0.80	0.80	0.80
CIV42	32	1.12	1.54	1.89	2.28	2.61	3.24	0.47	0.50	0.53	0.55	0.56	0.58
	38	1.11	1.43	1.78	2.16	2.60	3.10	0.83	0.85	0.87	0.89	0.90	0.90
	43	1.00	1.30	1.63	1.99	2.40	2.88	0.93	0.94	0.96	0.98	0.99	1.00
CIV66	32	2.03	2.57	3.21	3.96	4.81	5.76	1.15	1.13	1.11	1.10	1.09	1.08
	38	1.86	2.35	2.94	3.64	4.44	5.33	1.52	1.50	1.49	1.48	1.47	1.46
	43	1.69	2.14	2.70	3.35	4.10	4.95	1.65	1.63	1.61	1.60	1.59	1.58
CIV78	32	2.49	3.15	3.94	4.40	5.88	7.03	1.24	1.22	1.21	1.21	1.20	1.20
	38	2.25	2.87	3.60	4.44	5.40	6.47	1.67	1.66	1.66	1.66	1.67	1.67
	43	2.05	2.62	3.30	4.09	4.99	5.98	1.89	1.88	1.88	1.89	1.89	1.90

Model	Ambient (°C)	Capacity (kw) @ 60 RPS — Evaporating Temp (°C)						Power Input (kw) @ 60 RPS — Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	32	3.48	4.03	4.71	5.53	6.50	7.61	1.87	1.91	1.94	1.96	1.96	1.97
	38	2.88	3.44	4.14	4.99	5.97	7.11	2.04	2.07	2.10	2.13	2.16	2.18
	43	2.72	3.26	3.94	4.76	5.72	6.77	2.29	2.32	2.35	2.38	2.41	2.43
CIV42	32	3.77	4.77	5.83	6.99	8.30	9.77	2.05	2.15	2.25	2.36	2.44	2.51
	38	3.33	4.26	5.27	6.36	7.58	8.94	2.41	2.50	2.59	2.67	2.75	2.83
	43	2.99	3.86	4.80	5.81	6.95	8.22	2.67	2.74	2.82	2.91	2.99	3.08
CIV66	32	6.49	7.96	9.69	11.69	13.93	16.39	3.88	3.87	3.88	3.91	3.96	4.02
	38	5.92	7.25	8.85	10.69	12.77	15.07	4.32	4.32	4.34	4.38	4.45	4.52
	43	5.40	6.61	8.10	9.81	11.76	13.93	4.74	4.75	4.77	4.83	4.90	4.99
CIV78	32	7.49	9.15	11.14	13.47	16.07	18.94	4.32	4.34	4.38	4.43	4.52	4.62
	38	6.79	8.32	10.15	12.31	14.72	17.41	4.88	4.90	4.95	5.02	5.12	5.23
	43	6.13	7.56	9.29	11.31	13.58	16.10	5.41	5.43	5.49	5.57	5.68	5.80

Model	Ambient (°C)	Capacity (kw) @ 100 RPS — Evaporating Temp (°C)						Power Input (kw) @ 100 RPS — Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	32	4.99	5.91	7.09	8.48	10.05	11.84	3.46	3.60	3.72	3.84	3.92	4.02
	38	4.34	5.29	6.45	7.79	9.31	10.95	4.06	4.12	4.23	4.33	4.43	4.53
	43	4.08	4.94	5.99	7.22	8.61	10.03	4.55	4.64	4.72	4.80	4.88	4.96
CIV42	32	5.71	7.19	8.77	10.47	12.33	14.38	4.27	4.46	4.65	4.83	5.09	5.37
	38	5.03	6.41	7.87	9.43	11.12	13.00	4.78	5.01	5.25	5.52	5.80	6.09
	43	4.49	5.77	7.10	8.53	10.07	11.76	5.40	5.64	5.88	6.13	6.37	6.63
CIV66	32	10.20	12.29	14.76	17.59	20.77	24.22	7.14	7.27	7.45	7.67	7.93	8.22
	38	9.15	11.04	13.32	15.92	18.84	22.04	7.94	8.09	8.27	8.52	8.80	9.13
	43	8.19	9.92	12.01	14.44	17.13	20.10	8.70	8.86	9.07	9.32	9.65	10.00
CIV78	32	11.84	14.20	17.06	20.34	24.01	28.00	8.15	8.35	8.58	8.86	9.19	9.56
	38	10.61	12.76	15.40	18.42	21.77	25.45	9.14	9.34	9.56	9.86	10.24	10.66
	43	9.50	11.48	13.91	16.73	19.88	23.33	10.01	10.21	10.47	10.79	11.18	11.63

Note : The rating condition is based on a suction superheat of 15K. , Subcooling with the limits of the condensing unit

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R448A / R449A Med Temp

Model	Ambient (°C)	Capacity (kw) @ 20 RPS — Evaporating Temp (°C)						Power Input (kw) @ 20 RPS — Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	32	0.89	1.10	1.35	1.65	1.99	2.39	0.56	0.57	0.59	0.60	0.61	0.62
	38	0.83	1.02	1.26	1.55	1.87	2.24	0.63	0.64	0.66	0.67	0.68	0.69
	43	0.77	0.96	1.18	1.45	1.76	2.12	0.69	0.71	0.72	0.73	0.74	0.75
CIV42	32	1.05	1.36	1.69	2.07	2.52	3.05	0.71	0.73	0.74	0.76	0.77	0.78
	38	0.96	1.26	1.57	1.93	2.34	2.83	0.78	0.80	0.83	0.84	0.86	0.87
	43	0.88	1.16	1.45	1.78	2.18	2.64	0.85	0.88	0.90	0.92	0.94	0.96
CIV66	32	1.84	2.30	2.84	3.49	4.24	5.11	1.11	1.15	1.18	1.21	1.23	1.24
	38	1.69	2.11	2.62	3.23	3.93	4.76	1.22	1.26	1.30	1.33	1.36	1.38
	43	1.54	1.94	2.43	2.99	3.66	4.44	1.33	1.37	1.41	1.45	1.48	1.51
CIV78	32	2.19	2.79	3.52	4.37	5.33	6.38	1.21	1.25	1.28	1.31	1.32	1.33
	38	2.02	2.60	3.29	4.09	5.00	6.00	1.41	1.46	1.49	1.52	1.54	1.55
	43	1.88	2.42	3.07	3.84	4.71	5.66	1.61	1.66	1.70	1.73	1.74	1.75

Model	Ambient (°C)	Capacity (kw) @ 60 RPS — Evaporating Temp (°C)						Power Input (kw) @ 60 RPS — Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	32	2.86	3.43	4.16	5.03	6.04	7.19	1.54	1.59	1.63	1.67	1.70	1.73
	38	2.71	3.25	3.94	4.77	5.73	6.82	1.77	1.81	1.85	1.89	1.93	1.96
	43	2.59	3.09	3.74	4.54	5.45	6.49	1.98	2.03	2.06	2.10	2.14	2.18
CIV42	32	3.38	4.35	5.38	6.53	7.85	9.38	1.82	1.90	1.98	2.06	2.13	2.22
	38	3.07	3.97	4.93	6.00	7.22	8.65	2.03	2.13	2.22	2.31	2.39	2.49
	43	2.78	3.63	4.54	5.54	6.68	8.02	2.24	2.34	2.44	2.54	2.64	2.75
CIV66	32	5.63	6.99	8.58	10.44	12.56	14.97	2.86	3.01	3.15	3.29	3.42	3.56
	38	5.10	6.36	7.84	9.55	11.54	13.82	3.20	3.37	3.52	3.68	3.83	3.98
	43	4.62	5.81	7.19	8.81	10.68	12.82	3.52	3.69	3.86	4.03	4.20	4.37
CIV78	32	6.71	8.27	10.19	12.45	15.01	17.83	3.54	3.70	3.85	4.00	4.13	4.25
	38	6.22	7.70	9.53	11.67	14.09	16.76	4.01	4.20	4.37	4.54	4.70	4.84
	43	5.78	7.21	8.95	11.00	13.31	15.84	4.46	4.67	4.87	5.05	5.23	5.40

Model	Ambient (°C)	Capacity (kw) @ 100 RPS — Evaporating Temp (°C)						Power Input (kw) @ 100 RPS — Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	32	4.47	5.43	6.64	8.07	9.68	11.45	3.02	3.15	3.28	3.39	3.50	3.60
	38	4.13	5.02	6.16	7.50	9.02	10.68	3.49	3.62	3.73	3.86	3.97	4.08
	43	3.82	4.66	5.73	7.01	8.45	10.04	3.94	4.06	4.18	4.29	4.41	4.53
CIV42	32	5.23	6.69	8.22	9.91	11.80	13.98	3.27	3.46	3.65	3.84	4.04	4.27
	38	4.69	6.05	7.48	9.03	10.78	12.80	3.67	3.88	4.09	4.31	4.54	4.80
	43	4.22	5.51	6.85	8.29	9.95	11.84	4.05	4.28	4.50	4.74	4.99	5.28
CIV66	32	8.45	10.42	12.71	15.33	18.30	21.64	5.50	5.86	6.21	6.57	6.94	7.34
	38	7.56	9.39	11.51	13.94	16.71	19.85	6.19	6.57	6.95	7.35	7.76	8.20
	43	6.80	8.50	10.50	12.77	15.40	18.35	6.83	7.24	7.64	8.08	8.53	9.02
CIV78	32	10.88	13.12	15.90	19.15	22.80	26.78	6.86	7.26	7.67	8.10	8.56	9.06
	38	10.00	12.13	14.73	17.78	21.23	24.96	7.68	8.12	8.60	9.09	9.60	10.16
	43	9.25	11.27	13.75	16.65	19.87	-	8.43	8.93	9.45	9.99	10.59	-

Note : 1. The rating condition is based on a suction superheat of 11.1°C, Subcooling with the limits of the condensing unit
2. R448A & R449A are considered at dew point

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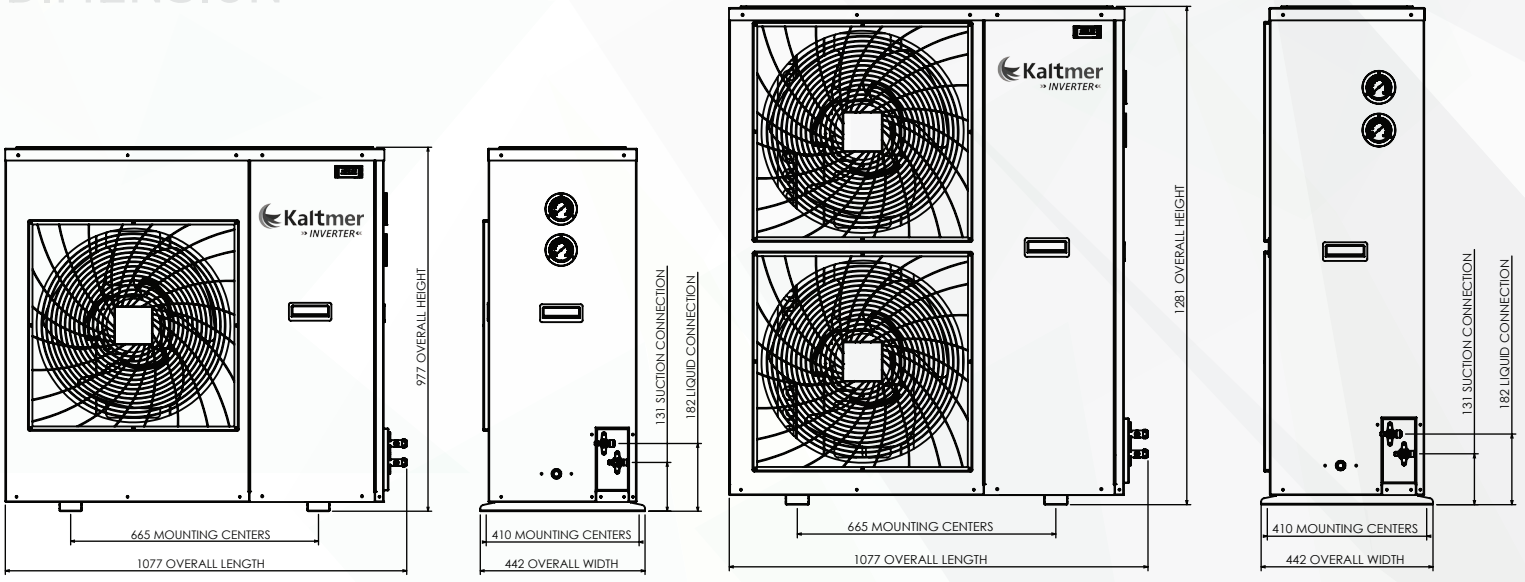
SCMREF THAI

TECHNICAL DATA

Model Name	CIV33	CIV42	CIV66	CIV78
COMPRESSOR				
Model	AGB33FG1MTS	AGB42FG1MTS	AGB66FG1MTS	AGB78FG1MTS
Rated Input Voltage	3PH AC 380-460V 50/60 Hz			
RLA Amps	6.7	8.4	13.3	15.2
MCC Amps	13.1	13.1	22.2	25.6
Oil Type	PVE 68			
Oil Pre-charge	0.6(Oil Seperator) / 1.9(Compressor)			
CONDENSER				
Airflow (m3/hr)	6,500	6,500	11,675	13,145
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			
Suction Size	7/8"	7/8"	7/8"	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 (5 uf Capacitor)
(2) All noise level rating are "Free Field" based at a distance of 2.0 meters and 100 RPS

DIMENSION



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