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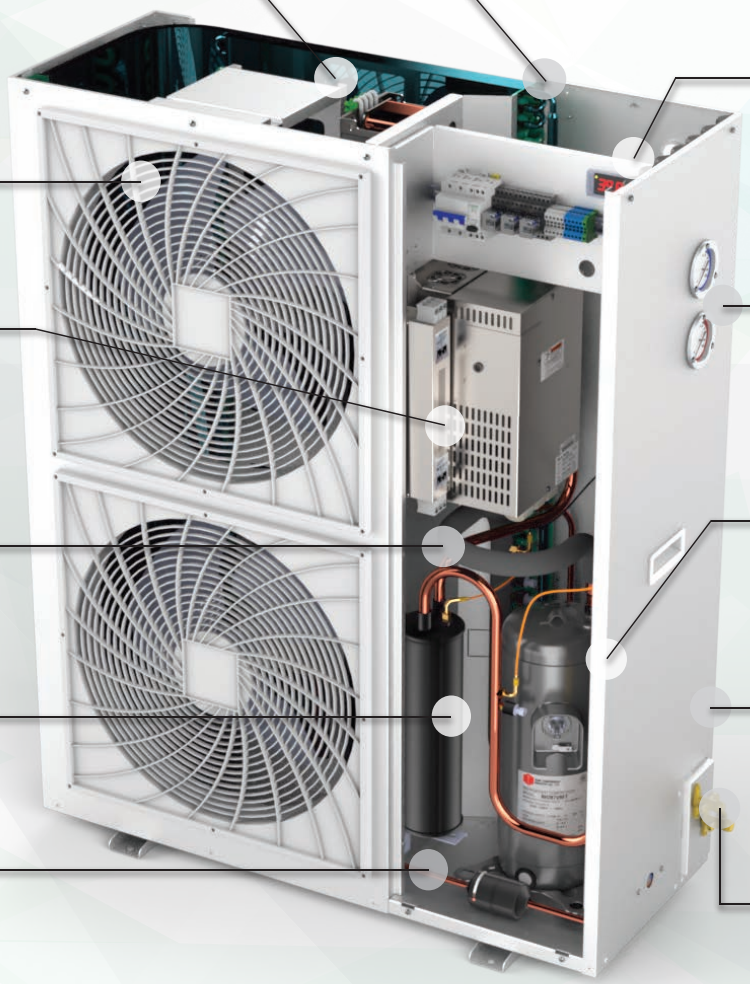
- Full Coil Coating Condenser Fin & Condenser Tube
- Fan Speed Control *
- EMI Filter * Corresponding to EMC Requirement
- Sound Insulation Casing
- Additional Oil Pre-charged
- Easy Access Front Door Design



- 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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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
CIV33	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
CIV42	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
CIV66	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
CIV78	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
CIV33	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
CIV42	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
CIV66	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
CIV78	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
CIV33	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
CIV42	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
CIV66	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
CIV78	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

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R448A / R449A Med Temp

Model	Ambient (°C)	Capacity (Watts) @20Hz Evaporating Temp (°C)						Power Input (Watts) @20Hz Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	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
CIV42	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
CIV66	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
CIV78	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

Model	Ambient (°C)	Capacity (Watts) @60Hz Evaporating Temp (°C)						Power Input (Watts) @60Hz Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	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
CIV42	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
CIV66	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
CIV78	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

Model	Ambient (°C)	Capacity (Watts) @100Hz Evaporating Temp (°C)						Power Input (Watts) @100Hz Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIV33	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
CIV42	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
CIV66	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
CIV78	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

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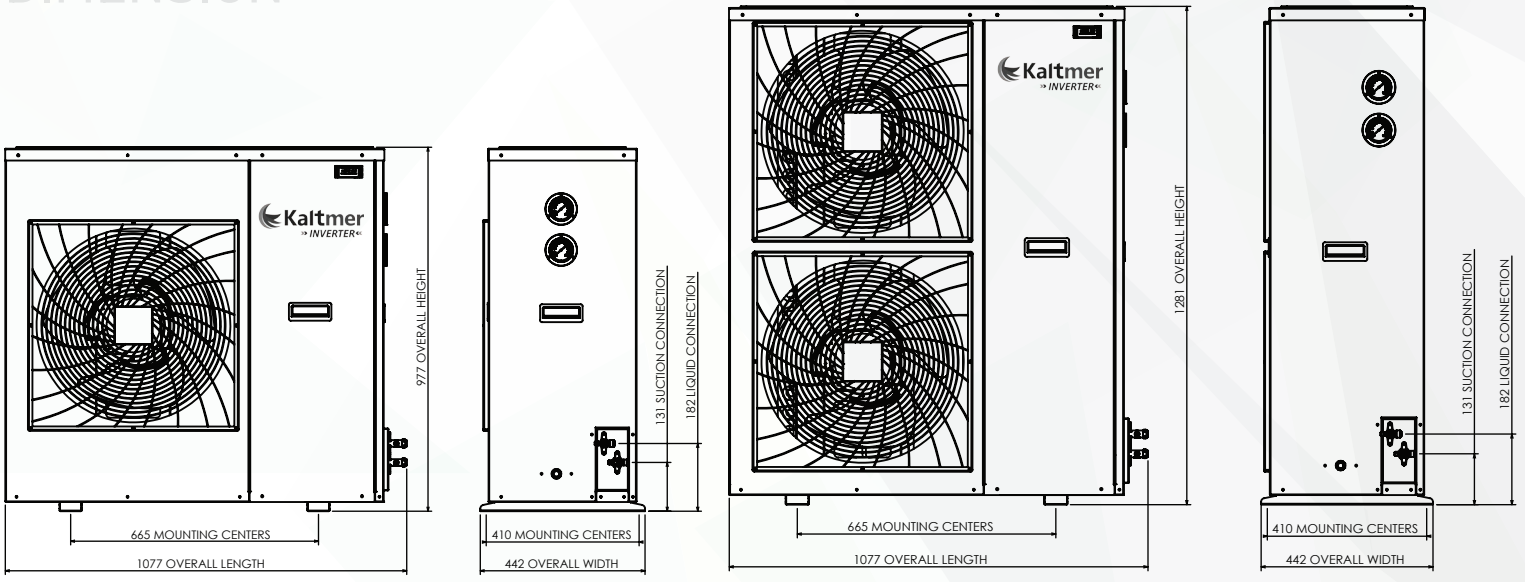
TECHNICAL DATA

Model Name	CIV33	CIV42	CIV66	CIV78
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 (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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