

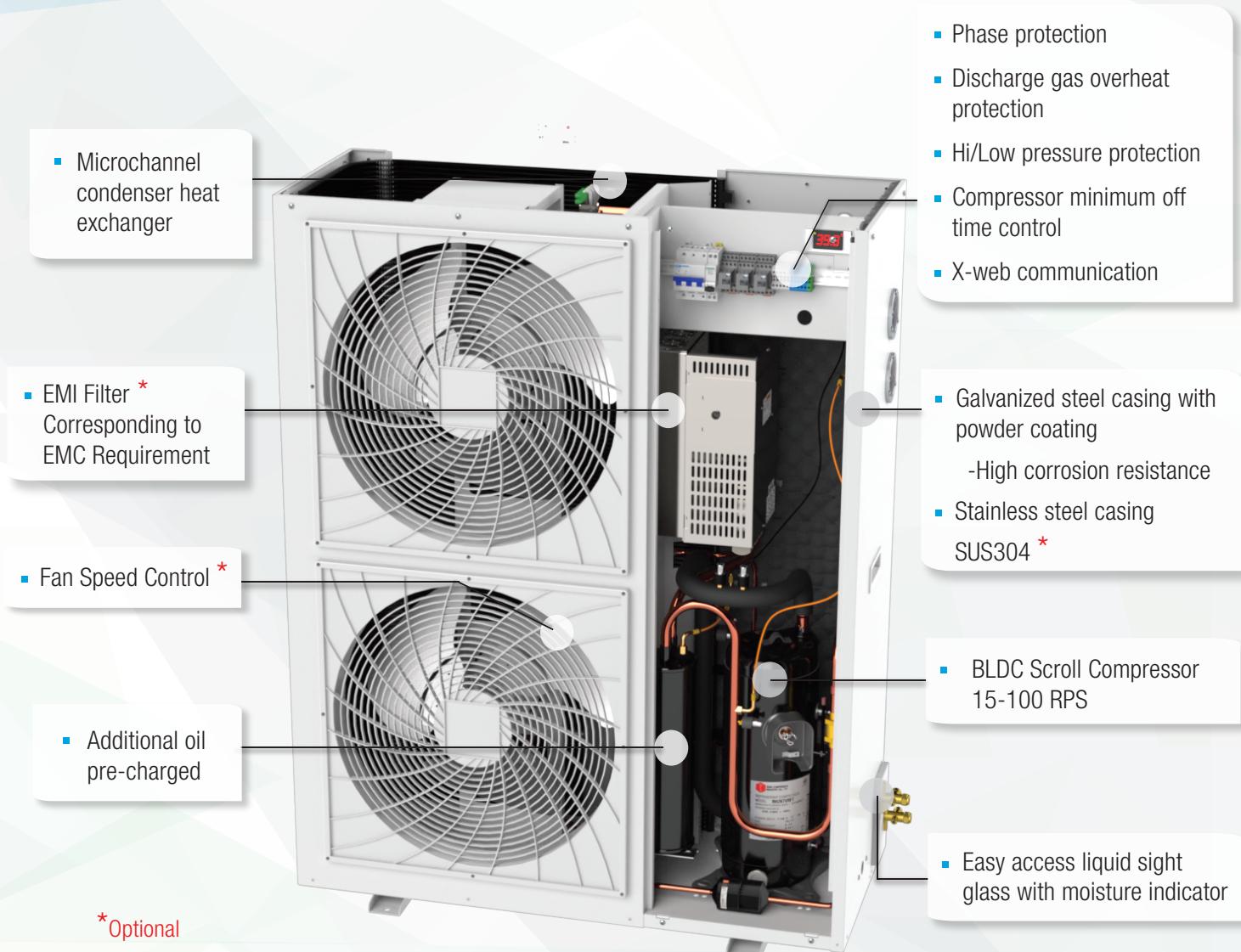
# CIV Microchannel Series

## Condensing Units

With BLDC Inverter Scroll



- Microchannel condenser
- Generous low noise level condensers
- X-web communication feature
- Slim profile, Suitable for Limited Space
- User Friendly Digital Controller with LED Display
- High efficiency BLDC scroll compressor
- Better energy efficiency
- Easy Access to Service
- Low Noise
- Fully wired in a waterproof powder coated enclosure



## Microchannel Benefits

- Improve heat transfer efficiency
- Low refrigerant charge
- No risk of galvanic corrosion
- Low weight
- Easy cleaning

## Inverter Benefits

- Precision Temperature Control
- High Efficiency
- Humidity Control



# CIV Microchannel Series Condensing Units

With BLDC Inverter Scroll

## R404A Medium Temp

5.0 10 HP

Model	Ambient (°C)	Capacity (Watts) @20Hz						Power Input (Watts) @20Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	1.10	1.32	1.60	1.92	2.30	2.72	0.76	0.76	0.77	0.77	0.78	0.78
	38	0.96	1.18	1.44	1.76	2.12	2.53	0.84	0.84	0.84	0.84	0.84	0.85
	43	0.86	1.07	1.32	1.62	1.97	2.36	0.92	0.92	0.91	0.91	0.91	0.91
CIVM600	32	1.25	1.58	1.94	2.35	2.81	3.33	0.88	0.89	0.91	0.92	0.92	0.92
	38	1.11	1.43	1.78	2.16	2.60	3.09	0.96	0.97	0.99	1.00	1.01	1.02
	43	1.01	1.31	1.64	2.00	2.42	2.89	1.04	1.05	1.07	1.09	1.10	1.11
CIVM800	32	2.11	2.67	3.33	4.10	4.98	5.96	1.62	1.60	1.59	1.57	1.56	1.55
	38	1.94	2.45	3.07	3.79	4.62	5.54	1.76	1.74	1.72	1.71	1.69	1.69
	43	1.78	2.24	2.82	3.50	4.29	5.16	1.88	1.86	1.84	1.83	1.82	1.81
CIVM1000	32	2.57	3.25	4.06	4.99	6.05	7.21	1.72	1.70	1.69	1.69	1.68	1.68
	38	2.35	2.98	3.73	4.61	5.59	6.68	1.91	1.90	1.90	1.90	1.91	1.91
	43	2.15	2.74	3.44	4.26	5.18	6.21	2.13	2.12	2.12	2.13	2.13	2.14

Model	Ambient (°C)	Capacity (Watts) @60Hz						Power Input (Watts) @60Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	3.15	3.80	4.61	5.58	6.70	7.96	1.86	1.91	1.96	2.00	2.03	2.05
	38	3.09	3.70	4.45	5.36	6.41	7.59	2.14	2.18	2.21	2.24	2.26	2.28
	43	2.96	3.52	4.23	5.08	6.06	7.17	2.40	2.42	2.45	2.47	2.48	2.50
CIVM600	32	3.89	4.93	6.06	7.30	8.67	10.23	2.31	2.39	2.46	2.53	2.60	2.66
	38	3.51	4.49	5.54	6.70	7.97	9.41	2.57	2.65	2.74	2.82	2.90	2.98
	43	3.18	4.10	5.08	6.16	7.36	8.71	2.83	2.92	3.00	3.09	3.19	3.28
CIVM800	32	6.80	8.32	10.14	12.23	14.57	17.18	4.07	4.07	4.08	4.10	4.14	4.19
	38	6.24	7.64	9.32	11.26	13.46	15.90	4.52	4.52	4.54	4.57	4.62	4.69
	43	5.73	7.02	8.59	10.42	12.50	14.81	4.94	4.94	4.97	5.01	5.07	5.15
CIVM1000	32	7.79	9.49	11.55	13.92	16.59	19.57	4.57	4.59	4.63	4.70	4.79	4.88
	38	7.09	8.66	10.58	12.80	15.31	18.08	5.13	5.16	5.21	5.28	5.39	5.51
	43	6.45	7.93	9.73	11.82	14.20	16.85	5.66	5.70	5.76	5.85	5.96	6.08

Model	Ambient (°C)	Capacity (Watts) @100Hz						Power Input (Watts) @100Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	5.14	6.22	7.53	9.06	10.78	12.69	3.58	3.72	3.85	3.95	4.04	4.11
	38	4.67	5.67	6.89	8.31	9.90	11.67	4.14	4.26	4.36	4.44	4.52	4.60
	43	4.25	5.17	6.30	7.62	9.11	10.73	4.68	4.76	4.83	4.90	4.98	5.06
CIVM600	32	6.09	7.70	9.39	11.22	13.22	15.43	4.35	4.55	4.76	4.97	5.19	5.41
	38	5.44	6.92	8.50	10.17	12.02	14.05	4.91	5.11	5.32	5.55	5.79	6.04
	43	4.88	6.26	7.71	9.27	10.98	12.86	5.42	5.63	5.84	6.09	6.34	6.62
CIVM800	32	10.70	12.87	15.50	18.50	21.88	25.54	7.38	7.53	7.69	7.91	8.15	8.46
	38	9.68	11.67	14.09	16.88	20.00	23.45	8.16	8.32	8.51	8.75	9.03	9.35
	43	8.74	10.60	12.84	15.46	18.40	21.67	8.93	9.08	9.30	9.56	9.87	10.21
CIVM1000	32	12.29	14.72	17.65	21.01	24.76	28.85	8.58	8.80	9.05	9.36	9.73	10.16
	38	11.10	13.32	16.02	19.12	22.60	26.41	9.58	9.80	10.06	10.40	10.80	11.28
	43	10.03	12.09	14.58	17.48	20.76	24.34	10.46	10.69	10.98	11.34	11.78	12.29

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



# CIV Microchannel Series Condensing Units

With BLDC Inverter Scroll

## R407F Medium Temp

5.0 10 HP

Model	Ambient (°C)	Capacity (Watts) @20Hz						Power Input (Watts) @20Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	0.93	1.19	1.49	1.85	2.26	2.72	0.71	0.73	0.74	0.75	0.77	0.78
	38	0.78	1.04	1.35	1.71	2.12	2.59	0.77	0.80	0.82	0.83	0.84	0.85
	43	0.67	0.93	1.24	1.59	2.01	2.47	0.81	0.85	0.88	0.90	0.90	0.92
CIVM600	32	1.05	1.42	1.81	2.26	2.76	3.33	0.82	0.85	0.88	0.89	0.91	0.92
	38	0.91	1.27	1.67	2.10	2.60	3.17	0.88	0.92	0.96	0.99	1.01	1.02
	43	0.79	1.14	1.53	1.96	2.46	3.02	0.91	0.98	1.03	1.07	1.09	1.12
CIVM800	32	1.78	2.39	3.10	3.94	4.89	5.96	1.52	1.53	1.54	1.53	1.53	1.54
	38	1.58	2.17	2.87	3.69	4.62	5.67	1.61	1.65	1.67	1.68	1.69	1.69
	43	1.38	1.95	2.64	3.43	4.37	5.40	1.66	1.73	1.77	1.80	1.81	1.83
CIVM1000	32	2.17	2.91	3.78	4.80	5.94	7.21	1.61	1.63	1.64	1.65	1.66	1.68
	38	1.91	2.64	3.49	4.48	5.59	6.85	1.75	1.80	1.84	1.87	1.90	1.92
	43	1.67	2.38	3.21	4.17	5.28	6.49	1.88	1.97	2.04	2.09	2.12	2.15

Model	Ambient (°C)	Capacity (Watts) @60Hz						Power Input (Watts) @60Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	2.66	3.41	4.30	5.36	6.57	7.96	1.74	1.83	1.90	1.95	2.00	2.04
	38	2.52	3.27	4.17	5.21	6.41	7.78	1.96	2.07	2.15	2.21	2.25	2.29
	43	2.31	3.06	3.95	4.98	6.17	7.49	2.11	2.25	2.35	2.42	2.47	2.51
CIVM600	32	3.28	4.42	5.65	7.01	8.51	10.22	2.17	2.29	2.39	2.48	2.56	2.65
	38	2.86	3.98	5.19	6.51	7.98	9.64	2.35	2.52	2.66	2.78	2.89	3.00
	43	2.47	3.56	4.74	6.03	7.49	9.11	2.50	2.71	2.88	3.04	3.16	3.30
CIVM800	32	5.74	7.46	9.45	11.74	14.30	17.17	3.82	3.90	3.96	4.01	4.08	4.17
	38	5.08	6.76	8.72	10.95	13.48	16.29	4.14	4.29	4.41	4.50	4.60	4.71
	43	4.46	6.11	8.02	10.21	12.73	15.49	4.36	4.59	4.77	4.92	5.03	5.18
CIVM1000	32	6.57	8.51	10.77	13.37	16.29	19.56	4.28	4.39	4.49	4.59	4.71	4.87
	38	5.77	7.67	9.90	12.45	15.33	18.53	4.70	4.90	5.06	5.20	5.36	5.54
	43	5.01	6.89	9.08	11.58	14.46	17.62	4.99	5.29	5.53	5.74	5.92	6.12

Model	Ambient (°C)	Capacity (Watts) @100Hz						Power Input (Watts) @100Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	4.34	5.58	7.02	8.70	10.58	12.68	3.35	3.57	3.74	3.86	3.98	4.10
	38	3.80	5.02	6.44	8.08	9.92	11.96	3.79	4.04	4.23	4.37	4.50	4.62
	43	3.31	4.50	5.88	7.47	9.28	11.22	4.13	4.42	4.64	4.81	4.94	5.09
CIVM600	32	5.14	6.90	8.76	10.77	12.98	15.43	4.07	4.36	4.62	4.86	5.11	5.39
	38	4.42	6.13	7.95	9.90	12.04	14.40	4.50	4.85	5.17	5.46	5.76	6.07
	43	3.80	5.44	7.20	9.08	11.18	13.45	4.78	5.23	5.61	5.97	6.30	6.66
CIVM800	32	9.03	11.54	14.45	17.77	21.48	25.53	6.92	7.21	7.47	7.73	8.03	8.43
	38	7.88	10.33	13.19	16.41	20.02	24.02	7.47	7.91	8.26	8.62	8.99	9.40
	43	6.80	9.22	11.99	15.15	18.74	22.66	7.88	8.43	8.92	9.38	9.80	10.28
CIVM1000	32	10.37	13.20	16.46	20.18	24.31	28.84	8.05	8.43	8.79	9.15	9.58	10.13
	38	9.03	11.79	14.99	18.60	22.63	27.06	8.77	9.31	9.78	10.24	10.75	11.33
	43	7.80	10.51	13.61	17.13	21.14	25.45	9.23	9.92	10.54	11.13	11.69	12.37

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

[www.scmrefthai.com](http://www.scmrefthai.com)

a member of **BEIJER REF**





# CIV Microchannel Series Condensing Units

With BLDC Inverter Scroll

## R448A Medium Temp

5.0 ▶ 10 ▶ HP

Model	Ambient (°C)	Capacity (Watts) @20Hz						Power Input (Watts) @20Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	0.89	1.10	1.35	1.65	1.99	2.38	0.68	0.69	0.71	0.72	0.73	0.74
	38	0.83	1.02	1.26	1.54	1.87	2.24	0.75	0.76	0.77	0.79	0.80	0.81
	43	0.77	0.96	1.18	1.45	1.76	2.11	0.81	0.82	0.84	0.85	0.86	0.87
CIVM600	32	1.05	1.36	1.69	2.07	2.52	3.04	0.82	0.85	0.86	0.88	0.89	0.90
	38	0.96	1.25	1.57	1.92	2.34	2.83	0.90	0.92	0.94	0.96	0.98	0.99
	43	0.88	1.15	1.45	1.78	2.17	2.64	0.97	1.00	1.02	1.04	1.06	1.08
CIVM800	32	1.72	2.16	2.71	3.36	4.12	4.96	1.37	1.40	1.42	1.44	1.44	1.44
	38	1.59	2.01	2.53	3.15	3.87	4.67	1.49	1.53	1.55	1.57	1.57	1.57
	43	1.48	1.87	2.37	2.96	3.64	4.42	1.62	1.66	1.68	1.70	1.71	1.70
CIVM1000	32	2.19	2.79	3.52	4.36	5.32	6.36	1.45	1.49	1.52	1.55	1.57	1.58
	38	2.02	2.59	3.28	4.08	4.99	5.98	1.65	1.70	1.74	1.76	1.78	1.80
	43	1.87	2.41	3.06	3.83	4.69	5.64	1.85	1.90	1.94	1.97	1.99	2.00

Model	Ambient (°C)	Capacity (Watts) @60Hz						Power Input (Watts) @60Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	2.86	3.42	4.15	5.02	6.03	7.17	1.67	1.71	1.76	1.80	1.83	1.86
	38	2.71	3.24	3.93	4.75	5.72	6.80	1.89	1.94	1.98	2.02	2.06	2.09
	43	2.58	3.09	3.74	4.53	5.44	6.47	2.10	2.15	2.19	2.23	2.27	2.31
CIVM600	32	3.37	4.34	5.36	6.51	7.82	9.34	1.94	2.03	2.11	2.19	2.26	2.35
	38	3.06	3.96	4.91	5.97	7.19	8.61	2.16	2.26	2.35	2.44	2.53	2.63
	43	2.77	3.62	4.52	5.51	6.66	7.98	2.36	2.47	2.57	2.67	2.77	2.88
CIVM800	32	5.51	6.84	8.40	10.22	12.27	14.56	3.38	3.50	3.61	3.70	3.78	3.85
	38	5.15	6.39	7.87	9.58	11.53	13.70	3.77	3.91	4.03	4.14	4.23	4.32
	43	4.83	5.99	7.39	9.03	10.88	12.97	4.15	4.30	4.44	4.55	4.66	4.76
CIVM1000	32	6.67	8.22	10.13	12.37	14.89	17.67	3.81	3.97	4.13	4.28	4.44	4.57
	38	6.18	7.65	9.47	11.59	13.98	16.60	4.29	4.48	4.65	4.84	5.01	5.17
	43	5.75	7.17	8.90	10.92	13.18	15.69	4.74	4.94	5.15	5.35	5.56	5.74

Model	Ambient (°C)	Capacity (Watts) @100Hz						Power Input (Watts) @100Hz					
		Evaporating Temp (°C)						Evaporating Temp (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CIVM500	32	4.45	5.41	6.62	8.04	9.64	11.39	3.16	3.29	3.42	3.53	3.65	3.75
	38	4.11	5.00	6.13	7.47	8.98	10.63	3.63	3.76	3.89	4.00	4.12	4.24
	43	3.81	4.65	5.71	6.97	8.41	9.97	4.08	4.20	4.33	4.45	4.57	4.70
CIVM600	32	5.21	6.65	8.18	9.84	11.71	13.87	3.40	3.60	3.79	3.99	4.20	4.43
	38	4.67	6.02	7.43	8.97	10.70	12.69	3.80	4.02	4.24	4.46	4.70	4.97
	43	4.20	5.48	6.80	8.24	9.86	11.74	4.18	4.41	4.65	4.89	5.16	5.45
CIVM800	32	8.75	10.71	13.03	15.68	18.70	22.06	6.14	6.46	6.78	7.11	7.43	7.75
	38	8.10	9.94	12.11	14.62	17.43	20.58	6.87	7.22	7.58	7.92	8.28	8.63
	43	7.53	9.29	11.33	13.69	16.37	19.34	7.58	7.95	8.34	8.71	9.07	9.44
CIVM1000	32	10.78	12.99	15.72	18.90	22.47	26.36	7.18	7.61	8.04	8.51	9.01	9.54
	38	9.89	11.99	14.55	17.54	20.89	24.54	8.01	8.48	8.98	9.51	10.07	10.67
	43	9.14	11.13	13.57	16.39	19.56	22.98	8.78	9.31	9.85	10.45	11.07	11.76

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

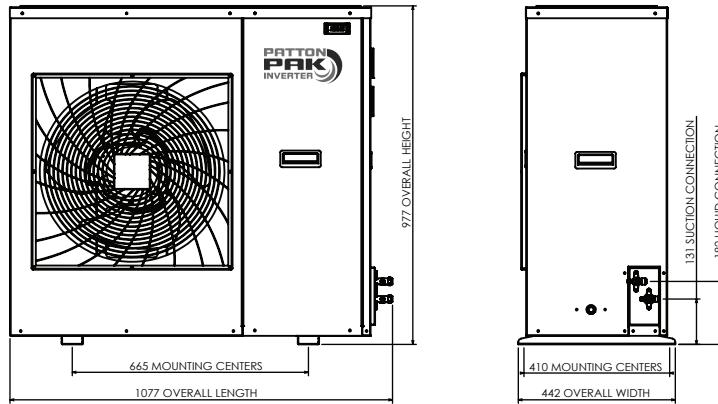
# Technical Data

Model Name	CIVM500	CIVM600 COMPRESSOR	CIVM800	CIVM1000
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	13.08	13.08	21.5	23.75
Oil Type		PVE 68		
Oil Pre-charge		1.9 L		
CONDENSER				
Airflow (m³/hr)	5,200	5,200	8,700	8,700
No. Fan Motor (1)	1 x 20"	1 x 20"	2 x 20"	2 x 20"
Total Watts	236	236	472	472
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)	100	103	120	130

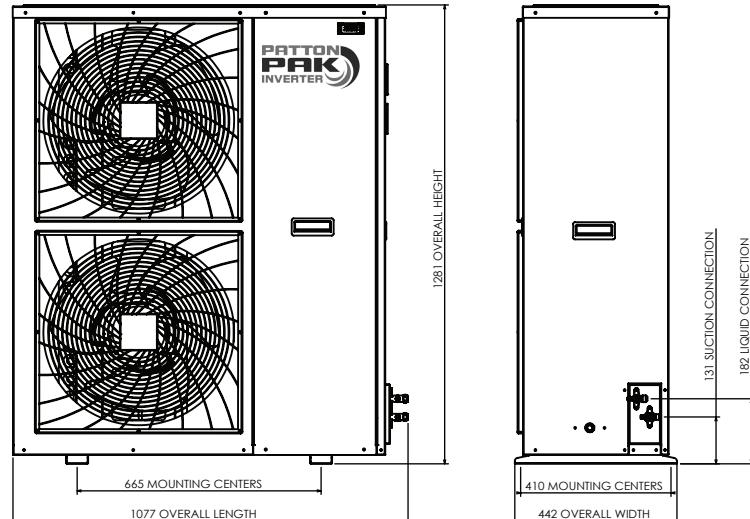
Note : 1. All Fan 220-240V/1PH/50Hz (5 uf Capacitor)

## Dimension

CIVM500  
CIVM600



CIVM800  
CIVM1000



Products, specifications and technical data contained in this document are subject to change without prior notice.