

WONGSO

MULTIPURPOSE CONDENSING UNIT

WMCU SERIES



Made with the best quality and high standard of quality control, **WONGSO** introduces a new product "**WMCU SERIES**" condensing unit combine with efficiency and reliability with easy installation and maintenance.

WONGSO "WMCU SERIES" has been designed for low and medium temperature. start with capacity from **0.5 HP to 15 HP**, believe that product will suit customer's requirement.

STANDARD PRODUCT

- Semi hermetic Bitzer compressor
- Galvanized steel casing
- Axial fan IP 54 made in Germany
- Accessories :
 - Flexible hose discharge pipe
 - Receiver tank
 - Check valve discharge pipe
 - High low pressure switch
 - Solenoid valve, filter drier, sight glass & ball valve
 - Suction accumulator
 - Oil separator
 - High low pressure gauge

OPTIONAL

- Semi hermetic compressor above 15 HP
- Aluminium or stainless steel casing
- Coated aluminium fin or copper fin
- Semi hermetic : Copeland, Bock, Frascold, Dorin, etc.
- Scroll hermetic : Danfoss, Copeland
- Hermetic piston : Tecumseh, Maneurop



Medium Temperature Performance Data



Performance data 50 Hz based on 20°C suction gas temperature with liquid subcooling

Model	Compressor			TE	TA	Capacity R404a (kW)							Fan Condensing Unit			Receiver Tank	Connection		Net Weight	Dimension Figure	
	Type	HP	Max. Operating Current (A)			8	-5	-10	-15	-20	-25	-30	Current (A)	Power (kW)	Air Flow (m³/h)	ltr	Suction	Liquid	Kgs		
WMCU-0005-M	2KES-05Y	0.5	4.5/2.8	27	Q	2.72	2.34	1.96	1.64	1.34	1.06	0.81	0.3	0.063	1520	1.5	1/2	3/8	160	A	
					P	0.99	0.92	0.85	0.78	0.71	0.64	0.57									
					Q	2.40	2.13	1.79	1.48	1.2	0.94	0.71									
					P	1.04	0.96	0.88	0.8	0.73	0.65	0.57									
					Q	1.97	1.68	1.41	1.13	0.92	0.703	0.51									
					P	1.15	1.05	0.95	0.86	0.76	0.66	0.56									
WMCU-0007-M	2IES-07Y	0.7	6.4/3.7	27	Q	3.32	2.89	2.48	2.09	1.73	1.4	1.1	0.3	0.098	1520	1.5	1/2	3/8	160	A	
					P	1.46	1.32	1.2	1.09	0.99	0.87	0.76									
					Q	3.03	2.64	2.26	1.9	1.57	1.26	0.98									
					P	1.52	1.38	1.25	1.12	1	0.88	0.76									
					Q			1.79	1.49	1.22	0.96	0.725									
					P			1.34	1.19	1.04	0.89	0.75									
WMCU-0020-M	2HES-2Y	2	7.8/4.5	27	Q	4.51	3.92	3.35	2.82	2.33	1.89	1.49	0.3	0.063	2570	4.8	5/8	1/8	160	A	
					P	1.81	1.65	1.51	1.37	1.23	1.09	0.96									
					Q	4.14	3.58	3.06	2.57	2.12	1.71	1.34									
					P	1.88	1.72	1.56	1.4	1.25	1.1	0.96									
					Q			2.88	2.45	2.04	1.66	1.31									0.995
					P			1.84	1.65	1.47	1.29	1.11									0.94
WMCU-0032-M	2DES-3Y	3	15.0/9.6	27	Q	10.82	9.32	7.95	6.65	5.49	4.44	3.51	1.1	0.25	4390	7.8	7/8	1/2	195	A	
					P	3.46	3.18	2.90	2.62	2.35	2.08	1.82									
					Q	9.95	8.58	7.29	6.11	5.04	4.07	3.2									
					P	3.63	3.33	3.02	2.73	2.43	2.14	1.86									
					Q	8	6.9	5.86	4.89	4.01	3.21	2.48									
					P	3.93	3.58	3.23	2.88	2.54	2.2	1.88									
WMCU-0040-M	2CES-4Y	4	17.4/10.0	27	Q	13.7	11.77	10	8.38	6.92	5.61	4.45	1.1	0.25	4350	7.8	7/8	1/2	195	A	
					P	4.15	3.83	3.51	3.19	2.88	2.57	2.27									
					Q	12.04	10.87	9.23	7.73	6.38	5.16	4.08									
					P	4.38	4.03	3.68	3.34	2.99	2.66	2.33									
					Q	10.23	8.81	7.48	6.25	5.13	4.12	3.22									
					P	4.81	4.4	3.99	3.58	3.18	2.78	2.40									
WMCU-0050-M	4FES-5Y	5	18.8/10.8	27	Q	14.68	12.58	10.64	8.88	7.3	5.9	4.58	1.1	0.25	4390	7.8	7/8	1/2	210	A	
					P	4.49	4.17	3.84	3.51	3.17	2.83	2.50									
					Q	13.5	11.58	9.81	8.19	6.74	5.44	4.31									
					P	4.72	4.38	4.02	3.66	3.30	2.94	2.58									
					Q	10.85	9.34	7.95	6.64	5.46	4.4	3.48									
					P	5.13	4.74	4.33	3.92	3.50	3.08	2.67									
WMCU-0060-M	4EES-6Y	6	23.7/13.6	27	Q	17.31	14.94	12.71	10.88	9.02	7.16	5.7	1.4/0.94	0.8/0.55	7600/5600	7.8	1 1/8	1/2	260	B	
					P	5.96	5.47	4.97	4.48	4.01	3.54	3.08									
					Q	15.9	13.74	11.7	9.82	8.13	6.57	5.22									
					P	6.23	5.70	5.18	4.66	4.14	3.64	3.16									
					Q	12.75	11.05	9.45	7.91	6.52	5.27	4.15									
					P	6.70	6.11	5.52	4.93	4.35	3.78	3.23									
WMCU-0070-M	4DES-7Y	7	28.7/16.3	27	Q	21.2	18.27	15.54	13.04	10.78	8.77	7	1.4/0.77	0.72/0.47	8600/5450	15	1 1/8	5/8	265	B	
					P	7.04	6.48	5.91	5.35	4.79	4.25	3.73									
					Q	19.57	16.88	14.34	12.03	9.94	8.07	6.42									
					P	7.39	6.78	6.17	5.57	4.97	4.39	3.83									
					Q	15.89	13.73	11.68	9.79	8.07	6.52	5.15									
					P	8.03	7.34	6.65	5.99	5.27	4.61	3.97									
WMCU-0090-M	4CES-9Y	9	35.1/20.2	27	Q	25.35	21.85	18.56	15.57	12.87	10.46	8.34	1.4/0.77	0.72/0.47	7700/4900	15	1 1/8	5/8	265	B	
					P	8.80	8.02	7.26	6.51	5.79	5.09	4.42									
					Q	23.45	20.2	17.14	14.35	11.84	9.6	7.62									
					P	9.23	8.39	7.75	7.07	6.39	5.23	4.32									
					Q	19.12	16.5	14.03	11.71	9.62	7.75	6.09									
					P	10.10	9.09	8.15	7.22	6.33	5.47	4.66									
WMCU-0120-M	4FES-12Y	12	29.1	27	Q	29.75	25.8	22.1	18.6	15.41	12.52	9.96	2.7/1.88	1.36/1.1	14200/11200	15	1 1/8	5/8	350	C	
					P	11.2	10.1	9.06	7.94	6.96	6.03	5.16									
					Q	27.3	23.7	20.3	17.03	14.09	11.42	9.04									
					P	11.7	10.5	9.31	8.2	7.15	6.16	5.24									
					Q			16.32	13.7	11.27	9.05	7.08									
					P			9.94	8.7	7.52	6.42	5.38									
WMCU-0150-M	4FES-15Y	15	28.7	27	Q	39.45	33.55	28.35	23.3	18.93	15.09	11.75	2.7/1.8	1.46/1.1	13550/10100	15	1 1/8	7/8	355	C	
					P	11.7	10.7	9.62	8.59	7.56	6.6	5.65									
					Q	36.35	30.85	25.8	21.2	17.25	13.68	10.57									
					P	12.3	11.1	10	8.88	7.78	6.72	5.7									
					Q	29.5	25	20.8	17.03	13.67	10.69	8.11									
					P	13.4	12	10.7	9.56	8.1	6.86	5.72									

TE : Evaporating Temperature (°C)

TA : Ambient Temperature (°C)

Q : Cooling Capacity (kW)

P : Power Input (kW)

Low Temperature Performance Data



Performance data 50 Hz based on 20°C suction gas temperature with liquid subcooling

Model	Compressor			TE TA	Capacity R404a (kW)						Fan Condensing Unit			Receiver Tank	Connection		Net Weight	Dimension Figure		
	Type	HP	Max. Operating Current (A)		-5	-10	-15	-20	-25	-30	Current (A)	Power (kW)	Air Flow (cmh)	ltr	Suction	Liquid	Kgs			
WMCU-0018-L	2HE5-1Y	1	6.7/3.8	27	Q	3.83	3.28	2.76	2.29	1.85	1.46	0.3	0.068	1520	1.5	5/8	3/8	180	A	
					P	1.68	1.51	1.35	1.21	1.07	0.94									
					32	Q	3.5	2.99	2.52	2.07	1.67									1.31
						P	1.75	1.56	1.39	1.23	1.08									0.94
					43	Q	2.79	2.45	1.98	1.62	1.28									0.975
						P	1.89	1.63	1.46	1.27	1.09									0.91
WMCU-0028-L	2DE5-2Y	2	13.4/7.5	27	Q	7.9	6.87	5.88	4.94	4.06	3.26	0.58	0.13	2200	4.8	7/8	3/8	190	A	
					P	3.55	3.17	2.82	2.48	2.16	1.86									
					32	Q	7.21	6.27	5.37	4.5	3.7									2.96
						P	3.66	3.27	2.89	2.54	2.2									1.86
					43	Q	4.94	4.22	3.53	2.88	2.27									
						P	3.41	3.00	2.6	2.23	1.88									
WMCU-0038-L	4FE5-3Y	3	16.5/9.5	27	Q	13.55	9.9	8.15	6.93	5.65	4.52	1.1	0.25	4200	7.8	3/8	1/2	195	A	
					P	4.50	4.09	3.68	3.29	2.91	2.54									
					32	Q	10.59	9.09	7.68	6.38	5.2									4.16
						P	4.68	4.25	3.83	3.41	3.00									2.61
					43	Q	8.44	7.27	6.16	5.13	4.18									3.34
						P	5.00	4.53	4.05	3.58	3.12									2.68
WMCU-0048-L	4EE5-4Y	4	21.2/12.2	27	Q	13.54	11.73	10	8.58	6.89	5.55	1.1	0.25	4200	7.8	1 1/8	1/2	210	A	
					P	6.03	5.41	4.82	4.25	3.71	3.20									
					32	Q	12.4	10.75	9.17	7.69	6.32									5.09
						P	6.25	5.61	4.98	4.38	3.81									3.27
					43	Q	8.58	7.34	6.16	5.06	4.06									
						P	5.94	5.25	4.59	3.96	3.36									
WMCU-0058-L	4DE5-5Y	5	25.2/14.3	27	Q	17.09	14.67	12.41	10.33	8.46	6.79	1.1	0.25	4350	13	1 1/8	1/2	210	A	
					P	6.92	6.24	5.58	4.95	4.34	3.77									
					32	Q	15.72	13.3	11.42	9.51	7.77									6.23
						P	7.22	6.49	5.79	5.12	4.48									3.86
					43	Q	12.57	10.91	9.23	7.68	6.26									3.99
						P	7.76	6.95	6.17	5.41	4.68									3.99
WMCU-0068-L	4CE5-6Y	6	30.8/17.7	27	Q	19.47	16.79	14.27	11.83	9.8	7.89	1.4/0.94	0.8/0.55	7600/5600	13	1 1/8	1/2	255	A	
					P	8.54	7.64	6.78	5.97	5.20	4.48									
					32	Q	17.91	15.45	13.12	10.96	8.98									7.2
						P	8.84	7.90	7.00	6.14	5.33									4.56
					43	Q	10.61	8.84	7.21	5.74										
						P	7.38	6.42	5.52	4.68										
WMCU-0088-L	4TE5-8Y	8	19.9	27	Q	24.5	21.15	17.93	14.94	12.21	9.75	1.4/0.77	0.72/0.47	8600/5450	13	1 3/8	5/8	310	B	
					P	10.7	9.43	8.25	7.17	6.16	5.24									
					32	Q	22.45	19.36	16.42	13.66	11.13									8.85
						P	11.1	9.75	8.51	7.36	6.3									5.32
					43	Q	15.49	13.12	10.87	8.79	6.91									
						P	10.4	9.01	7.73	6.54	5.45									
WMCU-0108-L	4PE5-12Y	10	22.7	27	Q	28.1	24.1	20.35	16.89	13.72	10.87	1.4/0.77	0.72/0.47	7700/4900	13	1 3/8	5/8	315	B	
					P	11.7	10.4	9.1	7.9	6.78	5.74									
					32	Q	25.65	22.05	18.59	15.37	12.42									9.78
						P	12.1	10.6	9.3	8.04	6.86									5.76
					43	Q	17.48	14.7	12.07	9.65	7.47									
						P	11.1	9.57	8.18	6.87	5.66									
WMCU-0128-L	4NE5-14Y	12	28.6	27	Q	34.15	29.35	24.8	20.65	16.82	13.41	2.7/1.88	1.56/1.1	14200/11200	24	1 3/8	7/8	315	B	
					P	14.1	12.6	11.1	9.7	8.39	7.17									
					32	Q	31.5	26.9	22.7	18.85	15.32									12.17
						P	14.5	12.9	11.6	9.91	8.54									7.23
					43	Q	21.45	18.08	14.85	12.05	9.45									
						P	13.5	11.8	10.1	8.6	7.16									
WMCU-0138-L	4IE-15Y	13	30.8	27	Q	42.5	36.35	30.61	25.45	20.75	16.54	2.7/1.9	1.56/1.1	13550/10200	25	1 5/8	7/8	390	C	
					P	15.7	13.8	12.3	10.9	9.64	8.4									
					32	Q	39.25	33.55	28.2	23.4	19									15.09
						P	15.9	14.1	12.8	11.3	9.87									8.54
					43	Q	32	27.35	22.95	18.91	15.23									11.93
						P	17.1	15.3	13.5	11.8	10.2									8.67

TE : Evaporating Temperature (°C)

TA : Ambient Temperature (°C)

Q : Cooling Capacity (kW)

P : Power Input (kW)

DIMENSION DATA

Figure A

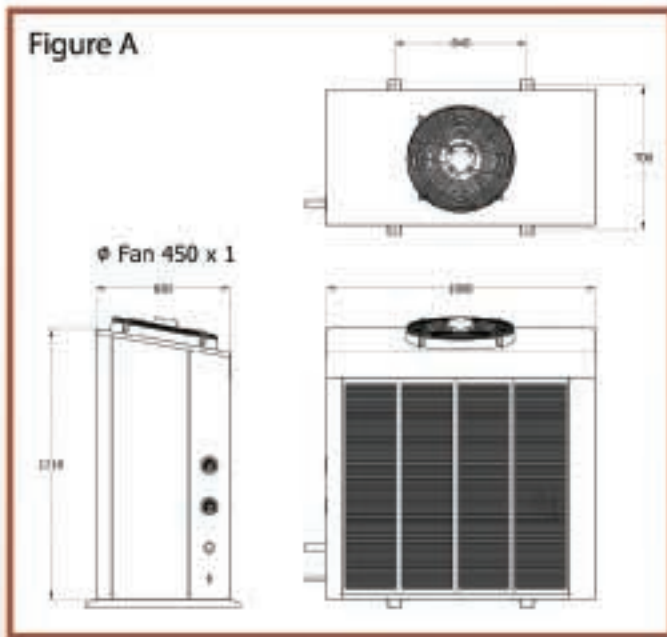


Figure B

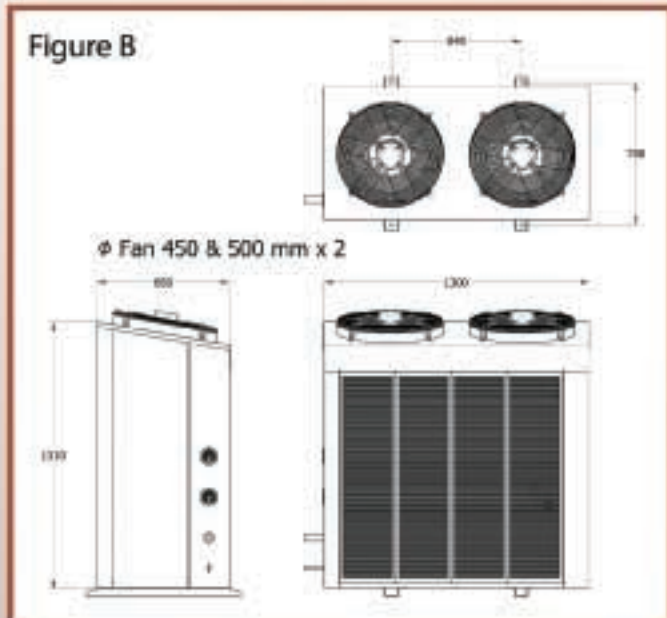
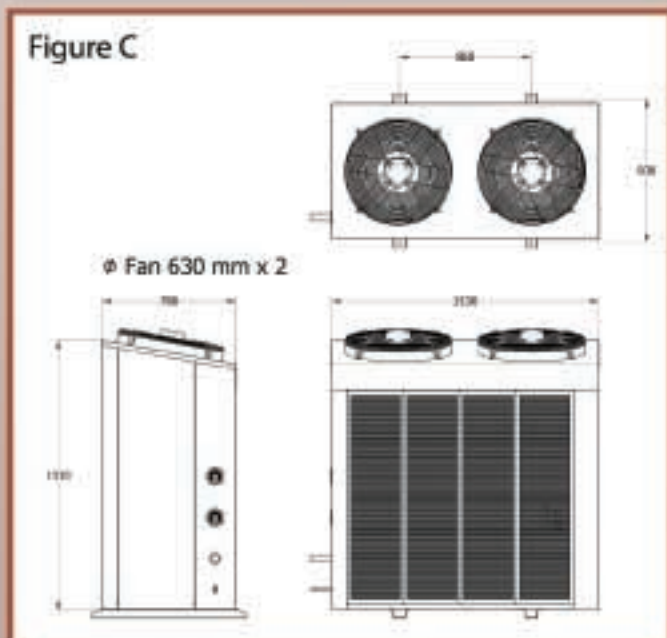


Figure C



MEDIUM TEMPERATURE

Model	Connection		Net Weight Kgs	Dimension Figure
	Suction	Liquid		
WMCU-0005-M	1/2	3/8	160	A
WMCU-0007-M	1/2	3/8	160	A
WMCU-0020-M	5/8	3/8	160	A
WMCU-0032-M	7/8	1/2	195	A
WMCU-0040-M	7/8	1/2	195	A
WMCU-0050-M	7/8	1/2	210	A
WMCU-0060-M	1 1/8	1/2	260	B
WMCU-0070-M	1 1/8	5/8	265	B
WMCU-0090-M	1 1/8	5/8	265	B
WMCU-0120-M	1 3/8	5/8	350	C
WMCU-0150-M	1 5/8	7/8	355	C

MEDIUM TEMPERATURE

WMCU MODEL	COMP. MODEL	WONGSO AIRCOOLED CONDENSER	WONGSO AIRCOOLED EVAPORATOR
WMCU-0005-M	2KES-05Y	WAC 010	WMT 005
WMCU-0007-M	2JEB-07Y		WMT 007
WMCU-0020-M	2HES-2Y	WAC 012	WMT 020
WMCU-0030-M	2DES-3Y	WAC 030	WMT 030
WMCU-0040-M	2CES-4Y	WAC 040	WMT 040
WMCU-0050-M	4FES-6Y		WMT 050
WMCU-0060-M	4EES-6Y	WAC 050	WMT 060
WMCU-0070-M	4DES-7Y	WAC 060	WMT 070
WMCU-0090-M	4CES-8Y	WAC 075	WMT 090
WMCU-0120-M	4TES-12Y	WAC 100	WMT 120
WMCU-0150-M	4PEB-15Y	WAC 120	WMT 150

LOW TEMPERATURE

Model	Connection		Net Weight Kgs	Dimension Figure
	Suction	Liquid		
WMCU-0010-L	5/8	3/8	160	A
WMCU-0020-L	7/8	3/8	160	A
WMCU-0030-L	7/8	1/2	195	A
WMCU-0040-L	1 1/8	1/2	210	A
WMCU-0050-L	1 1/8	1/2	210	A
WMCU-0060-L	1 1/8	1/2	255	A
WMCU-0080-L	1 3/8	5/8	310	B
WMCU-0100-L	1 3/8	5/8	315	B
WMCU-0120-L	1 3/8	7/8	315	B
WMCU-0130-L	1 5/8	7/8	390	C

LOW TEMPERATURE

WMCU MODEL	COMP. MODEL	WONGSO AIRCOOLED CONDENSER	WONGSO AIRCOOLED EVAPORATOR
WMCU-0010-L	2HES-1Y	WAC 010	WLT 010
WMCU-0020-L	2DES-2Y	WAC 015	WLT 020
WMCU-0030-L	4FES-3Y	WAC 030	WLT 030
WMCU-0040-L	4EES-4Y		WLT 040
WMCU-0050-L	4DES-5Y	WAC 040	WLT 050
WMCU-0060-L	4CES-6Y	WAC 050	WLT 060
WMCU-0080-L	4TES-8Y	WAC 060	WLT 080
WMCU-0100-L	4FES-12Y	WAC 075	WLT 100
WMCU-0120-L	4NES-14Y	WAC 100	WLT 130
WMCU-0130-L	4JE-15Y	WAC 120	