

WONGSO

AIRCOOLED CONDENSING UNIT

WACU SERIES



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

WONGSO "WACU SERIES" has been designed for low and medium temperature. start with capacity from **0.5 HP to 50 HP** using semi hermetic compressor, believe that product will suit customer's requirement for industrial.

STANDARD PRODUCT

- Semi hermetic Bitzer compressor
- Aircooled condenser horizontal air discharge
- 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

- 2 Stage and open drive compressor
- Semi hermetic : Copeland, Bock, Frascold, Dorin, etc.
- Scroll hermetic : Danfoss, Copeland
- Hermetic piston : Tecumseh, Maneurop
- Aircooled condenser vertical air discharge
- Aluminium or stainless steel casing
- Coated aluminium fin or copper fin
- Water cooled condenser
- Multiple compressors
- Panel control
- Suction filter
- Suction flexible hose pipe



Medium Temperature Performance Data



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

Model	Compressor			Fan Condenser (A)	TE	TA	Capacity R404a (kW)						
	Type	HP	Max. Operating Current (A)				0	-5	-10	-15	-20	-25	-30
WACU-0005-M	2KES-05Y	0.5	4,9/2,8	0.3	27	Q	2.72	2.34	1.98	1.64	1.34	1.06	0.81
						P	0.99	0.92	0.85	0.78	0.71	0.64	0.57
					32	Q	2.48	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
					43	Q	1.97	1.68	1.41	1.15	0.92	0.705	0.51
						P	1.15	1.05	0.95	0.86	0.76	0.66	0.56
WACU-0007-M	2JES-07Y	0.7	6,4/3,7	0.3	27	Q	3.32	2.89	2.48	2.09	1.73	1.4	1.1
						P	1.46	1.32	1.2	1.09	0.89	0.87	0.76
					32	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
					43	Q			1.79	1.49	1.22	0.96	0.725
						P			1.34	1.19	1.04	0.89	0.75
WACU-0020-M	2HES-2Y	2	7,8/4,5	0.3	27	Q	4.51	3.92	3.35	2.82	2.33	1.89	1.49
						P	1.81	1.65	1.51	1.37	1.23	1.09	0.96
					32	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
					43	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
WACU-0021-M	2GES-2Y	2	8,7/5,0	0.3	27	Q	4.9	4.28	3.69	3.13	2.62	2.14	1.71
						P	2.21	2.01	1.81	1.63	1.45	1.28	1.12
					32	Q	4.48	3.92	3.38	2.86	2.38	1.94	1.54
						P	2.32	2.1	1.88	1.68	1.49	1.31	1.14
					43	Q			2.7	2.28	1.89	1.52	1.19
						P			2.05	1.81	1.59	1.37	1.16
WACU-0030-M	2FES-3Y	3	10,7/6,1	0.58	27	Q	6.28	5.48	4.71	3.99	3.32	2.7	2.15
						P	2.66	2.41	2.18	1.96	1.75	1.56	1.36
					32	Q	5.73	5	4.3	3.64	3.02	2.45	1.93
						P	2.8	2.53	2.28	2.04	1.81	1.59	1.38
					43	Q		3.96	3.41	2.88	2.38	1.91	1.48
						P		2.78	2.48	2.19	1.91	1.65	1.4
WACU-0031-M	2EES-3Y	3	13,4/7,5	1.1	27	Q	9.46	8.1	6.84	5.71	4.68	3.76	2.95
						P	2.79	2.58	2.37	2.15	1.94	1.73	1.52
					32	Q	8.71	7.46	6.3	5.24	4.29	3.44	2.68
						P	2.94	2.71	2.47	2.24	2	1.77	1.54
					43	Q	7.03	6.01	5.06	4.2	3.41	2.7	2.07
						P	3.19	2.92	2.64	2.36	2.09	1.82	1.55
WACU-0032-M	2DES-3Y	3	15,0/8,6	1.1	27	Q	10.82	9.32	7.93	6.65	5.49	4.44	3.51
						P	3.46	3.18	2.90	2.62	2.35	2.08	1.82
					32	Q	9.95	8.58	7.29	6.11	5.04	4.07	3.2
						P	3.63	3.32	3.02	2.72	2.43	2.14	1.86
					43	Q	8	6.9	5.86	4.89	4.01	3.21	2.49
						P	3.93	3.58	3.23	2.88	2.54	2.2	1.88
WACU-0040-M	2CES-4Y	4	17,4/10,0	1.1	27	Q	13.7	11.77	10	8.38	6.92	5.61	4.45
						P	4.15	3.83	3.51	3.19	2.88	2.57	2.27
					32	Q	12.64	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
					43	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
WACU-0050-M	4FES-5Y	5	18,8/10,8	1.1	27	Q	14.68	12.58	10.64	8.88	7.3	5.9	4.68
						P	4.49	4.17	3.84	3.51	3.17	2.83	2.50
					32	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
					43	Q	10.85	9.34	7.93	6.64	5.46	4.4	3.48
						P	5.13	4.74	4.33	3.92	3.50	3.08	2.67
WACU-0060-M	4EES-6Y	6	23,7/13,6	1.4/0.94	27	Q	17.31	14.94	12.73	10.68	8.82	7.16	5.7
						P	5.96	5.47	4.97	4.49	4.01	3.54	3.08
					32	Q	15.9	13.74	11.7	9.82	8.11	6.57	5.22
						P	6.23	5.70	5.18	4.66	4.14	3.64	3.16
					43	Q	12.75	11.05	9.43	7.91	6.52	5.27	4.15
						P	6.70	6.11	5.52	4.93	4.35	3.78	3.23
WACU-0070-M	4DES-7Y	7	28,7/16,5	1.4/0.77	27	Q	21.2	18.27	15.54	13.04	10.78	8.77	7
						P	7.04	6.48	5.91	5.35	4.79	4.25	3.73
					32	Q	19.57	16.86	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
					43	Q	15.89	13.72	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
WACU-0090-M	4CES-9Y	9	35,1/20,2	1.4/0.77	27	Q	25.35	21.85	18.56	15.57	12.87	10.46	8.34
						P	8.80	8.02	7.26	6.51	5.79	5.09	4.42
					32	Q	23.45	20.2	17.14	14.35	11.84	9.6	7.62
						P	9.23	8.39	7.75	6.77	5.99	5.23	4.52
					43	Q	19.12	16.5	14.01	11.71	9.62	7.75	6.09
						P	10.10	9.09	8.15	7.22	6.33	5.47	4.66

TE : Evaporating Temperature (°C)

TA : Ambient Temperature (°C)

Q : Cooling Capacity (kW)

P : Power Input (kW)

Medium Temperature Performance Data

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



WONGSO

Model	Compressor			Fan Condenser (A)	TE TA		Capacity R404a (kW)						
	Type	HP	Max. Operating Current (A)				0	-5	-10	-15	-20	-25	-30
WACU-0120-M	4TES-12Y	12	25.1	2.7/1.88	27	Q	29.75	25.8	22.1	18.6	15.41	12.52	9.96
						P	11.2	10.1	8.98	7.94	6.96	6.03	5.16
					32	Q	27.3	23.7	20.3	17.05	14.09	11.42	9.04
						P	11.7	10.5	9.31	8.2	7.15	6.16	5.24
					43	Q			16.32	13.7	11.27	9.05	7.08
						P			9.94	8.7	7.52	6.42	5.39
WACU-0150-M	4PES-15Y	15	28.7	2.7/1.9	27	Q	39.45	33.55	28.15	23.3	18.93	15.09	11.75
						P	11.7	10.7	9.62	8.59	7.58	6.6	5.65
					32	Q	36.35	30.85	25.8	21.3	17.25	13.68	10.57
						P	12.3	11.1	10	8.88	7.78	6.72	5.7
					43	Q	29.5	25	20.8	17.05	13.67	10.69	8.11
						P	13.4	12	10.7	9.38	8.1	6.88	5.72
WACU-0200-M	4NES-20Y	20	33.2	2.8/1.5	27	Q	44.85	38.45	32.5	27.15	22.3	17.97	14.19
						P	14.3	13	11.7	10.4	9.23	8.07	6.96
					32	Q	41.35	35.4	29.9	24.9	20.4	16.41	12.89
						P	15	13.6	12.2	10.8	9.52	8.27	7.09
					43	Q	33.65	28.8	24.3	20.15	16.42	13.08	10.15
						P	16.4	14.8	13.1	11.6	10.1	8.66	7.33
WACU-0220-M	4JE-22Y	22	37.2	2.8/1.5	27	Q	48.45	41.85	35.65	29.9	24.75	20.05	15.88
						P	16.2	14.7	13.3	11.9	10.5	9.24	8.02
					32	Q	44.65	38.55	32.8	27.5	22.65	18.28	14.39
						P	16.9	15.3	13.7	12.2	10.8	9.43	8.12
					43	Q	36.2	31.3	26.6	22.2	18.13	14.45	11.16
						P	18.2	16.4	14.6	12.9	11.2	9.65	8.15
WACU-0250-M	4HE-25Y	25	44.0	2.8/1.5	27	Q	53.9	46.95	40.35	34.2	28.5	23.3	18.66
						P	19.8	17.9	16.1	14.4	12.7	11.2	9.71
					32	Q	49.55	43.2	37.15	31.45	26.15	21.35	17.02
						P	20.5	18.5	16.6	14.8	13.1	11.4	9.86
					43	Q		34.95	30.05	25.4	21.1	17.08	13.46
						P		19.7	17.6	15.6	13.6	11.7	10
WACU-0300-M	4GE-30Y	30	51.2	2.8/1.5	27	Q	70.59	60.71	50.83	42.84	35.06	28.28	22.41
						P	20.55	16.86	17.37	15.66	14.12	12.56	11.01
					32	Q	65.55	55.4	47.29	39.2	32.1	25.89	20.49
						P	21.56	19.93	18.08	16.38	14.67	12.96	11.29
					43	Q	52.62	44.48	38.22	31.72	26.01	21	16.59
						P	23.75	21.72	19.55	17.52	15.51	13.53	11.61
WACU-0330-M	6JE-33Y	33	53.2	2.8/1.5	27	Q	76.45	65.42	54.48	45.68	37.14	30.28	23.78
						P	22.1	20.38	18.82	16.99	15.28	13.46	11.74
					32	Q	71	59.61	50.56	41.58	34.42	27.49	21.49
						P	23.2	21.52	19.55	17.71	15.71	13.82	11.94
					43	Q	57.16	49	40.61	33.26	27.56	21.86	16.89
						P	25.54	23.23	21.04	18.79	16.46	14.22	12.03
WACU-0350-M	4FE-35Y	35	62.1	6.4/4.4	27	Q	80.94	69.99	58.91	49.92	41.09	33.89	27.05
						P	26.11	23.96	22.03	19.83	17.81	15.67	13.69
					32	Q	74.95	63.73	54.77	45.69	38.36	31.16	24.85
						P	27.39	25.32	22.93	20.74	18.38	16.19	14.04
					43	Q	59.61	52.15	44.11	36.95	31.29	25.46	20.25
						P	30.2	27.42	24.81	22.18	19.46	16.91	14.42
WACU-0351-M	6HE-35Y	35	64.4	6.4/4.4	27	Q	85.57	73.58	62.67	52.8	43.17	34.78	28.01
						P	27.19	25.01	22.79	20.58	18.54	16.48	14.34
					32	Q	79.19	68.18	57.02	48.13	39.33	32.28	25.48
						P	28.5	26.13	23.96	21.53	19.27	16.91	14.7
					43	Q	62.95	54.45	46.67	38.6	31.52	25.95	20.36
						P	31.37	28.53	25.71	23.04	20.37	17.67	15.11
WACU-0400-M	6GE-40Y	40	73.9	6.4/4.4	27	Q	93.24	80.52	68.86	58.24	48.62	39.29	31.74
						P	32.29	29.65	27.01	24.37	21.78	19.39	16.93
					32	Q	85.8	74.27	63.67	53.98	44.3	36.5	28.94
						P	33.71	30.87	28.02	25.21	22.6	19.88	17.35
					43	Q	68.75	59.93	50.41	43.09	35.42	29.37	23.21
						P	36.54	33.24	30.16	26.91	23.84	20.75	17.83
WACU-0500-M	6FE-50Y	50	96.2	6.4/4.4	27	Q	106.62	94.38	80.98	68.69	57.5	47.37	37.63
						P	41.36	37.52	34.08	30.66	27.29	24.02	20.97
					32	Q	97.42	84.76	74.63	63.5	52.23	43.14	34.9
						P	42.91	39.17	35.17	31.53	28.1	24.59	21.24
					43	Q	78.67	69.03	58.32	50.13	42.46	34.38	27.84
						P	45.57	41.33	37.31	33.13	29.07	25.18	21.42

TE : Evaporating Temperature (°C)
TA : Ambient Temperature (°C)

Q : Cooling Capacity (kW)
P : Power Input (kW)

Dimension Sheet & Product Cross Reference

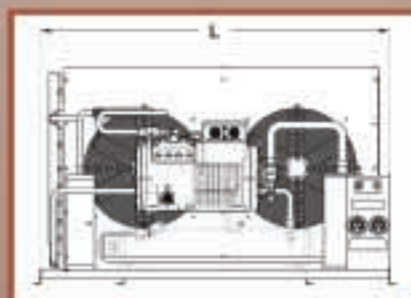
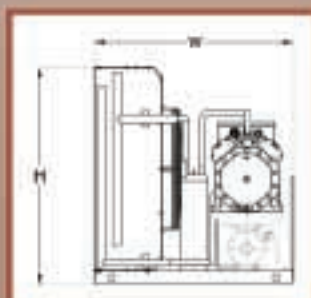
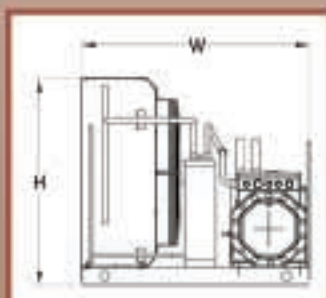
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Medium Temperature

Model	Connection		Net Weight	Dimension (mm)			Product Cross Reference						Wongso Aircooled Evaporator
	Suction	Liquid		L	W	H	Bitzer	Bock	Copeland Discuss	Copeland Fusion/Stream	Fracosold	Dorin	
WACU-0005-M	1/2	3/8	77	700	740	605	2KES-05Y					H850C	WMT 005
WACU-0007-M	1/2	3/8	77	700	740	605	2JES-07Y	HGX12P/60-45	DKJ-15X		A07-5Y	H101CC	WMT 007
WACU-0020-M	5/8	3/8	80	700	740	605	2HES-2Y	HGX12P/75-45	DKJ-15X		A1.5-7Y	H151CC	WMT 020
WACU-0021-M	5/8	3/8	80	700	740	605	2OES-2Y	HGX12P/90-4	DKJ-15X		A1.5-8Y	H181CC	WMT 021
WACU-0030-M	5/8	3/8	89	700	740	605	2FES-3Y	HGX12P/110-45	DKSL-20X		B2-10.1Y	H201CC	WMT 030
WACU-0031-M	7/8	1/2	143	910	850	655	2EES-3Y	HGX22P/125-45	DLE-20X		D2-11.1Y	H281CC	WMT 031
WACU-0032-M	7/8	1/2	143	910	850	655	2DES-3Y	HGX22P/160-45	DLF-30X		D3-13.1Y	H300CC	WMT 032
WACU-0040-M	7/8	1/2	147	1060	950	655	2CES-4Y	HGX22P/190-45	DLJ-30X		D4-16.1Y	H380CC	WMT 040
WACU-0050-M	7/8	1/2	166	1060	950	655	4FES-6Y	HGX34P/215-45	DLL-40X		Q5-19.1Y	H403CC	WMT 050
WACU-0060-M	1 1/8	1/2	166	1060	950	905	4EES-6Y	HGX34P/225-45	D2SA-55X		Q5-24.1Y	H503CC	WMT 060
WACU-0070-M	1 1/8	5/8	221	1140	1030	905	4DES-7Y	HGX34P/315-45	D2DB-75X	QF115AE	Q7-28.1Y	H701CC	WMT 070
WACU-0090-M	1 1/8	5/8	240	1140	1030	950	4CES-9Y	HGX34P/380-45	D3DA-75X	QF125AE	Q7-33.1Y	H1002CC	WMT 090
WACU-0120-M	1 3/8	5/8	297	1550	1030	950	4TES-12Y	HGX4/465-45	D3SC-100X	QF185AE	S12-42Y	H1201CC	WMT 120
WACU-0150-M	1 5/8	7/8	364	1550	1030	950	4PEB-18Y	HGX4/555-45	D3SS-150X		S15-51Y	H1501CC	WMT 150
WACU-0200-M	1 5/8	7/8	367	2070	1180	950	4NES-20Y	HGX4/650-45	D4SA-200X		S20-56Y	H2001CC	WHD 210
WACU-0220-M	1 5/8	7/8	408	2070	1180	950	4JE-22Y	HGX5/725-45		4MA-22X		H2201CC	WHD 255
WACU-0250-M	2 1/8	7/8	422	2070	1180	1050	4HE-26Y	HGX5/830-45	D4SH-250X	4MH-25X		H2500CC	WHD 290
WACU-0300-M	2 1/8	7/8	507	2370	1230	1250	4GE-30Y	HGX5/945-45	D6SA-300X	4MI-30X	V30-84Y	H3000CC	WHD 340
WACU-0330-M	2 1/8	7/8	535	2370	1230	1250	6JE-33Y	HGX6/1080-45		4MU-33X		H3400CC	
WACU-0350-M	2 1/8	7/8	496	2370	1230	1250	4FE-35Y					H3400CC	WHD 470
WACU-0351-M	2 1/8	7/8	539	2370	1230	1250	6HE-36Y	HGX6/1240-45	D6SH-350X			H3500CC	
WACU-0400-M	2 1/8	7/8	542	2370	1230	1250	6GE-40Y	HGX6/1410-45	D6SJ-400X	6MI-40X		H4500CC	
WACU-0500-M	2 1/8	1 1/8	546	2370	1230	1250	8FE-50Y	HGX7/1620-45	D8DH-500X	6MI-50X	Z50-154Y	H5000CC	WHD 500

Low Temperature

Model	Connection		Net Weight	Dimension (mm)			Product Cross Reference						Wongso Aircooled Evaporator	
	Suction	Liquid		L	W	H	Bitzer	Bock	Copeland Discuss	Copeland Fusion/Stream	Fracosold	Dorin		
WACU-0010-L	5/8	3/8	78	700	740	605	2HES-1Y	HGX12P/75-4	DKJ-10X		A1-7Y	H101CS	WLT 010	
WACU-0020-L	5/8	3/8	88	700	740	605	2FES-2Y	HGX12P/110-4	DKSL-15X		B1.5-10Y	H181CS	WLT 020	
WACU-0021-L	7/8	3/8	109	700	740	605	2EES-2Y	HGX22P/125-4	DLE-20X		D2-11.1Y	H251CS	WLT 021	
WACU-0022-L	7/8	3/8	127	700	740	605	2DES-2Y	HGX22P/160-4	DLF-20X		D2-13.1Y	H290CS	WLT 022	
WACU-0030-L	7/8	1/2	141	910	850	655	2CES-3Y	HGX22P/190-4	DLJ-20X		D3-16.1Y	H300CS	WLT 030	
WACU-0031-L	7/8	1/2	154	910	850	655	4FES-3Y	HGX34P/215-4	DLL-30X		Q4-20.1Y	H390CS	WLT 031	
WACU-0040-L	1 1/8	1/2	156	910	850	655	4EES-4Y	HGX34P/225-4	D2SA-45X		Q4-24.1Y	H403CS	WLT 040	WHDE 060
WACU-0050-L	1 1/8	1/2	169	1060	950	655	4DES-6Y	HGX34P/315-4	D2SC-55X	QF115AE	Q5-28.1Y	H701CS	WLT 080	WHDE 070
WACU-0060-L	1 1/8	1/2	174	1060	950	905	4CES-6Y	HGX34P/380-4	D2SK-65X	QF125AE	Q5-33.1Y	H751CS	WLT 080	WHDE 080
WACU-0080-L	1 3/8	5/8	273	1140	1030	905	4TES-9Y	HGX4/465-4	D3SC-75X	QF145AE		H801CS	WLT 080	WHDE 100
WACU-0100-L	1 3/8	5/8	295	1140	1030	950	4PEB-12Y			QF175AE		H1001CS	WLT 100	
WACU-0120-L	1 3/8	7/8	338	1550	1030	950	4NES-14Y			QF205AE		H1501CS	WLT 130	WHDE 130
WACU-0130-L	1 5/8	7/8	408	1550	1030	950	4JE-15Y			4MF-13X		H1601CS		
WACU-0150-L	1 5/8	7/8	418	2070	1180	950	4HE-18Y			4ML-15X	V15-71Y	H2000CS		WHDE 150
WACU-0200-L	2 1/8	7/8	410	2070	1180	950	4GE-23Y			4MM-20X	V20-84Y	H2500CS		WHDE 180
WACU-0220-L	2 1/8	7/8	450	2070	1180	1050	6JE-25Y			4MT-22X		H3000CS		WHDE 220
WACU-0250-L	2 1/8	7/8	450	2070	1180	1050	6HE-28Y			4MU-25X	Z25-106Y	H3000CS		
WACU-0280-L	2 1/8	7/8	496	2070	1180	1050	4FE-38Y			4MU-25X		H3500CS		
WACU-0300-L	2 1/8	7/8	531	2370	1180	1250	6GE-34Y			6MM-30X	Z30-126Y	H4000CS		WHDE 280
WACU-0400-L	2 1/8	1 1/8	543	2370	1180	1250	8FE-44Y			6MU-40X	Z40-154Y	H5000CS		WHDE 340



Low Temperature Performance Data



WONGSO

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

Model	Compressor			Fan Condenser (A)	TE TA	Capacity R404a (kW)					
	Type	HP	Max. Operating Current (A)			-5	-10	-15	-20	-25	-30
WACU-0010-L	2HES-1Y	1	6.7/3.8	0.3	27	Q	3.83	3.28	2.76	2.29	1.85
						P	1.68	1.53	1.35	1.21	1.07
					32	Q	3.5	2.99	2.52	2.07	1.67
						P	1.75	1.56	1.39	1.23	1.08
					43	Q	2.79	2.45	1.98	1.62	1.28
						P	1.89	1.65	1.46	1.27	1.09
WACU-0020-L	2FES-2Y	2	9.2/5.3	0.3	27	Q	5.49	4.72	4	3.33	2.71
						P	2.43	2.21	1.99	1.75	1.57
					32	Q	5.01	4.3	3.64	3.02	2.45
						P	2.55	2.31	2.07	1.81	1.61
					43	Q	3.97	3.42	2.89	2.38	1.91
						P	2.82	2.52	2.24	1.96	1.7
WACU-0021-L	2EES-2Y	2	10.4/6.0	0.3	27	Q	6.57	5.71	4.88	3.36	3.36
						P	2.9	2.59	2.3	1.76	1.76
					32	Q	5.98	5.2	4.45	3.05	3.05
						P	2.98	2.66	2.35	1.79	1.79
					43	Q		4.09	3.49	2.36	2.36
						P		2.75	2.42	1.79	1.79
WACU-0022-L	2DES-2Y	2	13.4/7.5	0.58	27	Q	7.9	6.87	5.88	4.94	4.06
						P	3.55	3.17	2.82	2.48	2.16
					32	Q	7.21	6.27	5.37	4.5	3.7
						P	3.66	3.27	2.89	2.54	2.2
					43	Q		4.94	4.22	3.53	2.88
						P		3.41	3.00	2.6	2.23
WACU-0030-L	2CES-3Y	3	15.8/9.1	1.1	27	Q	10.9	9.35	7.92	6.59	5.39
						P	4.12	3.72	3.34	2.98	2.63
					32	Q	10.01	8.6	7.28	6.05	4.94
						P	4.31	3.88	3.47	3.08	2.71
					43	Q	8.02	6.89	5.83	4.83	3.92
						P	4.65	4.16	3.69	3.24	2.81
WACU-0031-L	4FES-3Y	3	16.5/9.5	1.1	27	Q	11.55	9.9	8.35	6.93	5.65
						P	4.50	4.09	3.68	3.29	2.91
					32	Q	10.59	9.09	7.68	6.38	5.2
						P	4.68	4.25	3.83	3.41	3.00
					43	Q	8.44	7.27	6.16	5.13	4.18
						P	5.00	4.53	4.05	3.58	3.12
WACU-0040-L	4EES-4Y	4	21.2/12.2	1.1	27	Q	13.54	11.73	10	8.38	6.89
						P	6.03	5.41	4.82	4.25	3.71
					32	Q	12.4	10.75	9.17	7.69	6.32
						P	6.25	5.61	4.98	4.38	3.81
					43	Q		8.58	7.34	6.16	5.06
						P		5.94	5.25	4.59	3.96
WACU-0050-L	4DES-5Y	5	25.2/14.5	1.1	27	Q	17.09	14.67	12.41	10.33	8.46
						P	6.92	6.24	5.58	4.95	4.34
					32	Q	15.72	13.5	11.42	9.51	7.77
						P	7.22	6.49	5.79	5.12	4.48
					43	Q	12.67	10.91	9.23	7.68	6.26
						P	7.76	6.95	6.17	5.41	4.68
WACU-0060-L	4CES-6Y	6	30.8/17.7	1.4/0.94	27	Q	19.47	16.79	14.27	11.93	9.8
						P	8.54	7.64	6.78	5.97	5.20
					32	Q	17.91	15.45	13.12	10.96	8.98
						P	8.84	7.90	7.00	6.14	5.33
					43	Q			10.61	8.84	7.21
						P			7.38	6.42	5.52
WACU-0080-L	4TES-9Y	8	19.9	1.4/0.77	27	Q	24.5	21.15	17.93	14.94	12.21
						P	10.7	9.43	8.25	7.17	6.16
					32	Q	22.45	19.36	16.42	13.66	11.13
						P	11.1	9.75	8.51	7.36	6.3
					43	Q		15.49	13.12	10.87	8.79
						P		10.4	9.01	7.73	6.54

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			Fan Condenser (A)	TE TA	Capacity R404a (kW)					
	Type	HP	Max. Operating Current (A)			-5	-10	-15	-20	-25	-30
WACU-0100-L	4PES-12Y	10	22.7	1.4/0.77	27	Q	28.1	24.1	20.35	16.89	13.72
						P	11.7	10.4	9.1	7.9	6.78
					32	Q	25.65	22.05	18.59	15.37	12.42
						P	12.1	10.6	9.3	8.04	6.86
					43	Q		17.48	14.7	12.07	9.65
						P		11.1	9.57	8.18	6.87
WACU-0120-L	4NES-14Y	12	26.6	2.7/1.88	27	Q	34.15	29.35	24.8	20.65	16.82
						P	14.1	12.6	11.1	9.7	8.39
					32	Q	31.3	26.9	22.7	18.85	15.32
						P	14.5	12.9	11.4	9.91	8.53
					43	Q		21.45	18.08	14.95	12.05
						P		13.5	11.8	10.1	8.6
WACU-0130-L	4JE-15Y	13	30.8	2.7/1.9	27	Q	42.5	36.35	30.65	25.45	20.75
						P	15.3	13.8	12.3	10.9	9.64
					32	Q	39.25	33.55	28.2	23.4	19
						P	15.9	14.3	12.8	11.3	9.87
					43	Q	32	27.35	22.95	18.91	15.23
						P	17.1	15.3	13.5	11.8	10.2
WACU-0150-L	4HE-18Y	15	36.7	2.8/1.5	27	Q	47.35	40.85	34.7	29	23.85
						P	18.8	16.8	15	13.2	11.6
					32	Q	43.65	37.65	31.95	26.7	21.9
						P	19.5	17.4	15.5	13.6	11.9
					43	Q		30.55	25.95	21.65	17.65
						P		18.6	16.4	14.3	12.3
WACU-0200-L	4GE-23Y	20	43.9	2.8/1.5	27	Q	51.9	45.2	38.8	32.7	27.1
						P	23.1	20.5	18.1	15.9	13.8
					32	Q	47.7	41.6	35.7	30.1	24.95
						P	23.9	21.2	18.7	16.4	14.2
					43	Q			28.9	24.4	20.2
						P			19.8	17.2	14.8
WACU-0220-L	6JE-25Y	22	46.4	2.8/1.5	27	Q	55.8	48.4	41.35	34.7	28.65
						P	24	21.4	19	16.7	14.5
					32	Q	51.4	44.55	38	31.9	26.2
						P	24.7	22.1	19.5	17.1	14.8
					43	Q			30.7	25.7	20.95
						P			20.4	17.7	15.2
WACU-0250-L	6HE-28Y	25	53.2	2.8/1.5	27	Q	60.2	52.9	45.7	38.8	32.3
						P	29.4	26.1	23.1	20.2	17.5
					32	Q	55.1	48.5	41.9	35.6	29.6
						P	30.3	26.9	23.7	20.6	17.8
					43	Q				28.55	23.7
						P				21.3	18.2
WACU-0280-L	4FE-28Y	28	52.8	2.8/1.5	27	Q	70.48	59.36	50.34	41.5	34.3
						P	24.49	22.52	20.28	18.23	16.04
					32	Q	64.35	55.27	46.13	38.75	31.52
						P	25.9	23.46	21.23	18.82	16.6
					43	Q	51.79	44.79	37.45	30.95	25.78
						P	28.32	25.45	22.76	20.09	17.4
WACU-0300-L	6GE-34Y	30	65.5	2.8/1.5	27	Q	83.42	71.57	60.8	50.21	41.63
						P	31.88	28.84	25.86	23.2	20.4
					32	Q	75.84	65.24	55.58	46.81	38.2
						P	33.8	30.44	27.18	24.04	21.21
					43	Q	61.87	53.57	44.86	38.07	31.14
						P	36.94	33.03	29.47	25.84	22.51
WACU-0400-L	6FE-44Y	40	83.2	6.4/4.4	27	Q	94.66	81.36	70.46	59.16	48.13
						P	39.25	35.67	31.86	28.43	25.25
					32	Q	87.18	75.12	64.05	53.93	44.75
						P	40.71	36.88	33.1	29.39	28.82
					43	Q	69.98	60.75	52.18	43.14	36.01
						P	43.51	39.14	34.86	30.81	26.77

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