

Wongso Heavy Duty Evaporator

Wongso Heavy Duty Evaporator for Low Temperature (WHDE Series) is 7 mm Fin Spacing evaporator or unit cooler for low-temperature application. WHDE use a special fin pattern design and inner grooved copper tube to make higher heat transfer efficiency. WHDE also use a 500 mm diameter fan motor for high air volume and air throw. Casing with the white coating will prevent from corrosion. Dual drain tray design to avoid water condensation. Easy moving design of side cover for easy maintenance.



MODEL Fin Spacing 7 mm	Capacity SC3 Condition *1	Capacity SC4 Condition *2	Capacity SC5 Condition *3	Exchange Surface m ²	Fan Data 500 mm (DUNLI) (380 V - 415 V / 3 Phase / 50 Hz)					Heater Data (220V / 1 Phase / 50Hz)		Dimension			Inlet Pipe	Outlet Pipe	Net Weight Kg
	R404A	R404A	R404A		No. Fans	Air flow	Air Throw	Total Power	Total Current	Total Power	Total Amps	Length (P)	Width (L)	Height (T)	Expansion Connection	Suction Connection	
	kW	kW	kW		Qty	m ³ /h	meter	W	A	W	A	mm	mm	mm	mm	mm	
WHDE 051	5.94	4.9	4.04	33	1 x 500	8700	18	650	1.3	4600	21	1270	410	1010	5/8	1 3/8	75
WHDE 071	8.61	7.1	5.85	49	1 x 500	8700	18	650	1.3	4600	21	1270	410	1010	5/8	1 3/8	85
WHDE 101	11.88	9.8	8.1	66	2 x 500	17400	20	1300	2.6	9200	42	2220	410	1010	3/4	1 1/2	135
WHDE 131	14.79	12.2	10.1	82	2 x 500	17400	20	1300	2.6	9200	42	2220	410	1010	3/4	1 1/2	150
WHDE 151	17.34	14.3	11.8	98	2 x 500	17400	20	1300	2.6	9200	42	2220	410	1010	3/4	1 1/2	160
WHDE 181	22.19	18.3	15.1	123	3 x 500	26100	22	1950	3.9	13800	63	3170	410	1010	1	2	205
WHDE 221	25.11	20.8	17.14	140	3 x 500	26100	22	1950	3.9	14200	65	3020	410	1010	1	2	230
WHDE 251	28.13	23.1	19.11	155	4 x 500	34800	23	2600	5.2	18100	82	3920	410	1010	1	2	270
WHDE 281	32.01	26.4	21.8	181	4 x 500	34800	23	2600	5.2	16800	76	3320	410	1165	1	2	290
WHDE 341	38.19	31.5	26	223	5 x 500	43500	24	3250	6.5	20700	94	4020	410	1165	1	2	350

Standard Condition	Room Temp.	Evaporation Temp.
SC	(°C)	T _e (°C)
SC3	-18	-25
SC4	-25	-31
SC5	-34	-40

R404A R407C	SST °C	-36	-33	-30	-27	-25	-21	-18	-15	-12
	Factor R404A	0.79	0.85	0.91	0.96	1.00	1.08	1.14	1.22	1.29
	Factor R407C	0.86	0.90	0.94	0.97	1.00	1.05	1.09	1.15	1.21
	Max KTD	3	9	9	9	9	9	9	9	8
	Min KTD	4	4	4	3	3	4	4	4	4

R22 R507	SST °C	-36	-33	-30	-27	-25	-21	-18	-15	-12
	Factor R22	0.83	0.88	0.93	0.97	1.00	1.07	1.13	1.19	1.26
	Factor R507	0.81	0.86	0.91	0.97	1.00	1.08	1.13	1.21	1.28
	Max KTD	8	9	9	9	9	9	9	8	8
	Min KTD	4	4	3	3	3	3	4	4	5

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	R404A	R404A	R404A		No. Fans	Air flow	Air Throw	Total Power	Total Current	Total Power	Total Amps	Length (P)	Width (L)	Height (T)	Expansion Connection	Suction Connection	
	kW	kW	kW		Qty	m ³ /h	meter	W	A	W	A	mm	mm	mm	mm	mm	
WHDE 051	5.94	4.9	4.04	33	1 x 500	9195	18	540	1.2	3800	17	1270	410	1010	5/8	1 3/8	75
WHDE 071	8.61	7.1	5.85	49	1 x 500	9195	18	540	1.2	4600	21	1270	410	1010	5/8	1 3/8	85
WHDE 101	11.88	9.8	8.1	66	2 x 500	18390	20	1080	2.4	9200	42	2220	410	1010	3/4	1 1/2	135
WHDE 131	14.79	12.2	10.1	82	2 x 500	18390	20	1080	2.4	10600	48	2220	410	1010	3/4	1 1/2	150
WHDE 151	17.34	14.3	11.8	98	2 x 500	18390	20	1080	2.4	12100	55	2220	410	1010	3/4	1 1/2	160
WHDE 181	22.19	18.3	15.1	123	3 x 500	27585	22	1620	3.6	18200	83	3170	410	1010	1	2	205
WHDE 221	25.11	20.8	17.14	140	3 x 500	27585	22	1620	3.6	19500	89	3020	410	1010	1	2	230
WHDE 251	28.13	23.1	19.11	155	4 x 500	36780	23	2160	4.8	23000	105	3920	410	1010	1	2	270
WHDE 281	32.01	26.4	21.8	181	4 x 500	36780	23	2160	4.8	26400	120	3320	410	1165	1	2	290
WHDE 341	38.19	31.5	26	223	5 x 500	45975	24	2700	6	29600	135	4020	410	1165	1	2	350

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	Min KTD	4	4	3	3	3	3	4	4	5