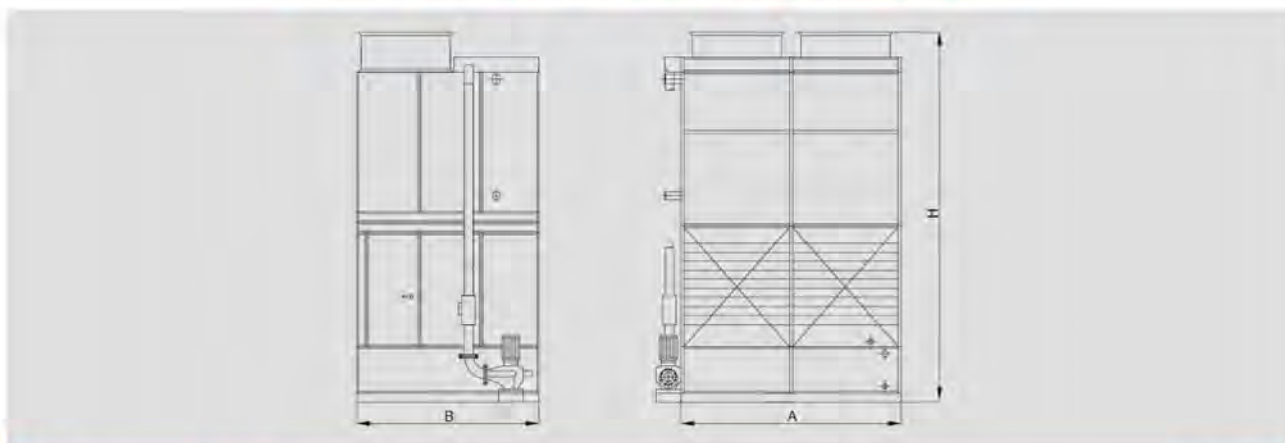


# WXRD COIL EVAPORATIVE CONDENSER



## Technical data

Graph 4

Type	Nominal heat rejection kW	Propeller fan			Water circulating pump		Ammonia charge kg	Weight		Dimension		
		Amount	Blowing rate	Power	Flow rate	Power		Shipping	Operation	A	B	H
		Unit	m <sup>3</sup> /h	kW	m <sup>3</sup> /h	kW		kg	kg	mm	mm	mm
WXRD-300	300	1	1×52800	4.0	53	1.1	20	1750	2620	1200	2230	4255
WXRD-400	400	1	1×52800	4.0	70	1.5	26	2050	3230	1600	2230	4255
WXRD-500	500	1	1×60000	5.5	70	1.5	31	2290	3700	1900	2230	4255
WXRD-600	600	1	1×71000	5.5	100	2.2	37	2510	5000	2300	2230	4255
WXRD-700	700	2	2×52800	4.0	100	2.2	44	3320	5350	2700	2230	4255
WXRD-800	800	2	2×52800	4.0	100	2.2	52	3620	5970	3100	2230	4255
WXRD-900	900	2	2×52800	4.0	100	2.2	60	3760	6220	3240	2230	4255
WXRD-1000	1000	2	2×60000	5.5	100	2.2	68	4360	7410	4000	2230	4255
WXRD-1100	1100	3	3×52800	4.0	150	3.0	73	4650	8010	4400	2230	4255
WXRD-1200	1200	3	3×52800	4.0	150	3.0	84	5350	9020	4800	2230	4255
WXRD-1300	1300	3	3×52800	4.0	180	4.0	92	5695	9675	5200	2230	4255
WXRD-1400	1400	3	3×60000	5.5	180	4.0	100	6040	10335	5600	2230	4255
WXRD-1500	1500	3	3×60000	5.5	180	4.0	108	6250	9765	4600	2230	5000
WXRD-1600	1600	4	4×52800	4.0	233	5.5	115	6510	10260	4900	2230	5000
WXRD-1700	1700	4	4×52800	4.0	233	5.5	123	6860	10850	5200	2230	5000
WXRD-1800	1800	4	4×52800	4.0	233	5.5	130	4885	11340	5500	2230	5000
WXRD-1900	1900	4	4×60000	5.5	233	5.5	137	7445	11890	5800	2230	5000
WXRD-2000	2000	4	4×60000	5.5	233	5.5	143	7400	12475	6600	2230	4255
WXRD-2100	2100	4	4×60000	5.5	233	5.5	145	7710	13090	7000	2230	4255
WXRD-2200	2200	5	5×52800	4.0	2×150	2×3.0	150	8340	14030	7400	2230	4255
WXRD-2400	2400	5	5×52800	4.0	2×150	2×3.0	168	8940	15255	8200	2230	4255
WXRD-2500	2500	5	5×52800	4.0	2×150	2×3.0	170	9245	15870	8600	2230	4255
WXRD-2600	2600	5	5×60000	5.5	2×150	2×3.0	178	9625	16560	9000	2230	4255
WXRD-2800	2800	5	5×60000	5.5	2×180	2×4.0	187	10245	16800	8500	2230	5000
WXRD-3000	3000	6	6×60000	5.5	2×180	2×4.0	193	11195	18210	9100	2230	5000
WXRD-3200	3200	6	6×52800	4.0	2×180	2×4.0	217	11615	19095	9700	2230	5000
WXRD-3400	3400	7	7×52800	4.0	2×180	2×4.0	233	12625	20570	10300	2230	5000
WXRD-3500	3500	7	7×60000	5.5	2×233	2×5.5	239	13120	21300	10600	2230	5000
WXRD-3600	3600	7	7×60000	5.5	2×233	2×5.5	245	13370	21785	10900	2230	5000
WXRD-3800	3800	8	8×60000	5.5	2×233	2×5.5	257	14890	23780	5800	2230×2	5000
WXRD-4000	4000	8	8×60000	5.5	2×233	2×5.5	269	14800	24950	6600	2230×2	4255
WXRD-4200	4200	8	8×60000	5.5	2×233	2×5.5	282	15420	26180	7000	2230×2	4255
WXRD-4400	4400	10	10×52800	4.0	4×150	4×3.0	288	16680	28060	7400	2230×2	4255
WXRD-4800	4800	10	10×52800	4.0	4×150	4×3.0	300	17880	30510	8200	2230×2	4255
WXRD-5000	5000	10	10×52800	4.0	4×150	4×3.0	306	18490	31740	8600	2230×2	4255
WXRD-5200	5200	10	10×60000	5.5	4×180	4×4.0	356	19250	33120	9000	2230×2	4255
WXRD-5600	5600	10	10×60000	5.5	4×180	4×4.0	386	20490	33600	8500	2230×2	5000
WXRD-6000	6000	12	12×60000	5.5	4×180	4×4.0	406	22390	36420	9100	2230×2	5000
WXRD-6400	6400	12	12×60000	5.5	4×233	4×5.5	460	23230	38190	9700	2230×2	5000
WXRD-6800	6800	14	14×60000	5.5	4×233	4×5.5	492	25250	41140	10300	2230×2	5000
WXRD-7200	7200	14	14×60000	5.5	4×233	4×5.5	520	13370	21785	10900	2230×2	5000

### Model selection

1. Determine the required refrigerant, condensing temperature and wet bulb temperature.
2. Calculate total heat rejection that goes through system to condenser.
3. Refer to Graph 5 or Graph 6 to select correction factor.
4. Multiply by correction factor.
5. Look up Graph 4 and select model which one size up or equal.

### For example

1. Refrigerant R717, condensing temp. 36 degree, wet bulb temp.29 degree.
2. Total heat rejection 940kw.  
(including compressor cooling capacity and compressor shaft power )
3. Refer to graph 5, the correction factor is 1.35.
4. Calculate total load of condenser:  $940\text{kw} \times 1.35 = 1269\text{kw}$ .
5. Look up Graph 4, evaporative condenser WXR-1300 is larger than 1296kw.  
Model WXR-1300 was selected.

Contact us at [parts@gordonbrothers.com.au](mailto:parts@gordonbrothers.com.au)

### Heat emission correction index for R717

Graph 5

Condensing temperature (C)	Air inlet wet bulb temperature																			
	10	12	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
29	0.72	0.78	0.86	0.96	1.01	1.09	1.18	1.30	1.43	1.60	1.84	2.16	2.66	-	-	-	-	-	-	-
30	0.68	0.73	0.81	0.88	0.94	1.00	1.07	1.15	1.27	1.40	1.59	1.79	2.13	-	-	-	-	-	-	-
31	0.64	0.68	0.74	0.82	0.86	0.91	0.97	1.04	1.12	1.22	1.36	1.52	1.74	2.06	-	-	-	-	-	-
32	0.61	0.65	0.69	0.74	0.80	0.84	0.89	0.95	1.02	1.10	1.20	1.34	1.49	1.70	2.02	-	-	-	-	-
33	0.57	0.61	0.65	0.70	0.73	0.78	0.82	0.87	0.92	0.99	1.07	1.16	1.29	1.45	1.66	1.97	-	-	-	-
34	0.55	0.58	0.62	0.66	0.69	0.72	0.76	0.80	0.86	0.90	0.96	1.04	1.14	1.27	1.42	1.63	-	-	-	-
35	0.52	0.54	0.58	0.62	0.64	0.67	0.70	0.73	0.78	0.83	0.88	0.94	1.02	1.11	1.23	1.37	1.59	1.86	2.16	2.49
36	0.50	0.52	0.55	0.59	0.61	0.63	0.66	0.69	0.72	0.75	0.81	0.86	0.92	1.00	1.09	1.22	1.35	1.54	1.76	2.05
37	0.47	0.49	0.52	0.55	0.57	0.59	0.61	0.64	0.67	0.70	0.73	0.79	0.84	0.90	0.97	1.06	1.21	1.32	1.52	1.71
38	0.45	0.47	0.49	0.53	0.55	0.56	0.58	0.60	0.62	0.65	0.68	0.72	0.76	0.82	0.88	0.96	1.04	1.19	1.35	1.50
39	0.43	0.45	0.47	0.50	0.52	0.53	0.54	0.56	0.58	0.61	0.63	0.67	0.70	0.74	0.80	0.86	0.95	1.02	1.18	1.28
40	0.42	0.43	0.45	0.48	0.49	0.50	0.52	0.53	0.55	0.58	0.60	0.62	0.66	0.69	0.73	0.78	0.85	0.93	1.01	1.17
41	0.40	0.41	0.43	0.45	0.46	0.47	0.49	0.50	0.52	0.54	0.56	0.58	0.61	0.64	0.67	0.71	0.76	0.83	0.92	1.01
42	0.39	0.40	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.51	0.53	0.55	0.57	0.60	0.62	0.66	0.70	0.74	0.82	0.91
43	0.37	0.38	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.48	0.50	0.51	0.53	0.55	0.58	0.61	0.65	0.69	0.72	0.80
44	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.46	0.47	0.49	0.50	0.52	0.54	0.57	0.60	0.64	0.68	0.71
45	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.46	0.47	0.49	0.51	0.53	0.56	0.59	0.63	0.67

### Heat emission correction index for R22 and R404a

Graph 6

Condensing temperature (C)	Air inlet wet bulb temperature															
	10	12	14	16	18	19	20	21	22	23	24	25	26	28	30	32
29	0.86	0.94	1.03	1.15	1.37	1.43	1.55	1.68	1.92	2.10	2.25	3.10	-	-	-	-
31	0.77	0.83	0.90	0.99	1.10	1.17	1.24	1.34	1.47	1.62	1.83	2.10	2.48	-	-	-
33	0.69	0.73	0.79	0.86	0.94	1.00	1.02	1.10	1.20	1.28	1.40	1.56	1.75	2.38	-	-
35	0.62	0.66	0.70	0.76	0.83	0.86	0.90	0.93	1.00	1.07	1.18	1.25	1.38	1.68	2.12	2.68
37	0.57	0.60	0.63	0.67	0.72	0.76	0.78	0.82	0.85	0.90	0.96	1.02	1.10	1.30	1.56	1.89
39	0.55	0.57	0.59	0.62	0.65	0.68	0.70	0.72	0.75	0.79	0.84	0.88	0.95	1.10	1.26	1.46
41	0.48	0.49	0.52	0.54	0.57	0.59	0.61	0.63	0.66	0.68	0.71	0.75	0.78	0.90	1.03	1.19
43	0.44	0.46	0.48	0.50	0.52	0.54	0.55	0.57	0.59	0.61	0.63	0.66	0.68	0.75	0.86	0.97
45	0.41	0.42	0.44	0.46	0.48	0.49	0.50	0.52	0.53	0.55	0.56	0.58	0.61	0.66	0.74	0.83