

Wongso Watercooled Condensing Unit

Wongso Watercooled Condensing Unit (WWCU) is an open design condensing unit. WWCU Series are designed for medium temperature, low temperature, and air blast freezer applications.

Standard product consists of compressor, water cooled condenser, fan, and complete accessories without panel control. WWCU units are available in semi hermetic, open drive, screw, and two stage compressor configurations.

Sea water resistant watercooled condenser also available on request.

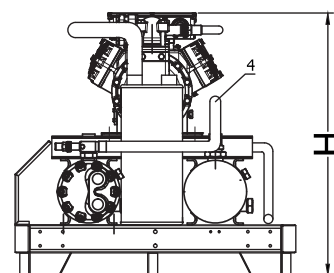
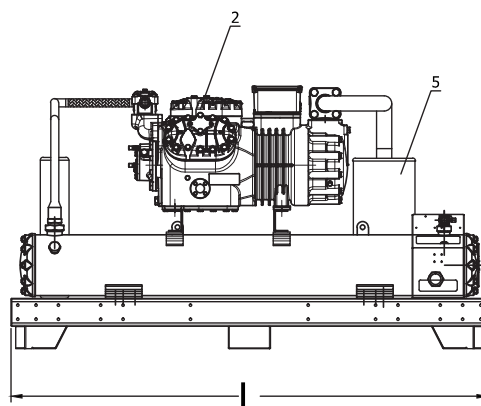
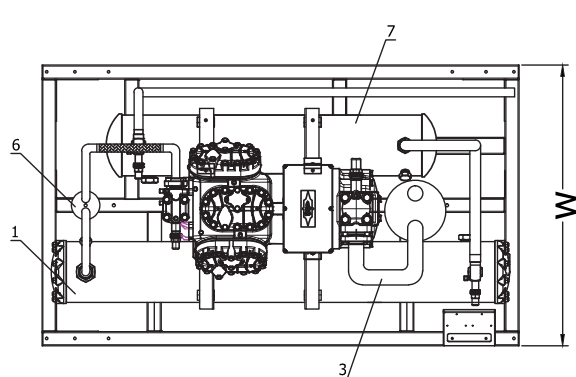


BLAST FREEZER PERFORMANCE DATA

Relating to 20°C suction gas temperature, with 5 K liquid subcooling



Model	Compressor	Condenser	Cooling capacity Qo [Watt]									Dimensions in mm		
			Evaporating temperature °C											
			-25	-30	-35	-40	-45	-50	-55	-60	-65	L	W	H
WWBF-05	S4T-5.2Y	K373H	8820	7370	6090	4960	3990	3150	2430	1830	1320	1287	1000	878
WWBF-08	S4N-8.2Y	K373H	12500	10460	8650	7060	5680	4490	3470	2610	1890	1287	1000	878
WWBF-12	S4G-12.2Y	K573H	18910	16220	13690	11330	9220	7360	5760	4390	3250	1350	1000	963
WWBF-16	S6J-16.2Y	K573H	26500	22800	19330	16100	13170	10570	8320	6400	4780	1350	1000	994
WWBF-20	S6H-20.2Y	K573H	30600	26300	22300	18600	15220	12220	9620	7410	5540	1350	1000	994
WWBF-25	S6G-25.2Y	K813H	34900	30100	25500	21300	17410	13990	11030	8490	6350	1350	1000	994
WWBF-30	S6F-30.2Y	K813H	41500	35700	30300	25300	20700	16660	13150	10140	7580	1350	1000	994



1. Water Condenser Shell and Tube
2. Compressor
3. Suction Line
4. Discharge Line

5. Accumulator
6. Oil Separator
7. Liquid Receiver

MEDIUM TEMPERATURE PERFORMANCE DATA

Relating to 20°C suction gas temperature, with 5 K liquid subcooling, condensing temperature at 40°C



Model	Compres- sor	Con- denser	Cooling capacity Qo [Watt]												Dimensions in mm		
			Evaporating temperature °C														
			7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	L	W	H
WWCU-0005-M	2KES-05Y	K073H	4110	3770	3110	2550	2060	1640	1270	960	690	460	270	110	776	1000	593
WWCU-0007-M	2JES-07Y	K073H	5520	5050	4200	3460	2820	2260	1780	1370	1020	720	460	250	776	1000	593
WWCU-0020-M	2HES-2Y	K073H	7060	6460	5390	4460	3640	2940	2330	1800	1350	970	650	370	776	1000	593
WWCU-0021-M	2GES-2Y	K073H	8040	7370	6150	5100	4180	3390	2700	2110	1610	1180	820	520	776	1000	593
WWCU-0030-M	2FES-3Y	K123H	9960	9130	7620	6310	5170	4180	3330	2600	1970	1440	990	610	1026	1000	615
WWCU-0031-M	2EES-3Y	K123H	12880	1180	9860	8170	6770	5420	4320	3370	2570	1880	1300	810	1026	1000	643
WWCU-0032-M	2DES-3Y	K123H	15330	14050	11750	9750	8020	6510	5200	4080	3120	2310	1620	1040	1026	1000	643
WWCU-0040-M	2CES-4Y	K203H	18760	17210	14430	12010	9900	8070	6490	5130	3960	2960	2120	1410	1037	1000	708
WWCU-0050-M	4FES-5Y	K203H	20800	18980	15790	13040	10680	8650	6920	5460	4230	3220	2380	1700	1037	1000	753
WWCU-0060-M	4EES-6Y	K203H	26100	23900	19860	16380	13380	10820	8630	6770	5220	3930	2870	2010	1037	1000	753
WWCU-0070-M	4DES-7Y	K283H	31300	28600	23900	19720	16160	13100	10480	8270	6410	4860	3580	2540	1037	1000	753
WWCU-0090-M	4CES-9Y	K373H	38000	34800	28900	23900	19520	15780	12590	9610	7620	5730	4000	2910	1287	1000	753
WWCU-0120-M	4TES-12Y	K373H	48800	44500	36900	303033	24600	19770	15640	12170	9260	6850	4880	3300	1287	1000	806
WWCU-0150-M	4PES-15Y	K573H	56400	51300	42400	34800	28000	22300	17510	13460	10090	7300	5040	3230	1350	1000	852
WWCU-0200-M	4NES-20Y	K573H	66500	60700	50300	41300	33600	27000	21400	16630	12670	9400	6740	4600	1350	1000	852
WWCU-0220-M	4JE-22Y	K573H	73300	67100	55900	46200	37800	30500	24200	18880	14350	10350	7350	4730	1350	1000	923
WWCU-0250-M	4HE-25Y	K813H	85700	78500	65500	54300	44600	36200	28900	22700	17490	13060	9370	6320	1350	1000	923
WWCU-0300-M	4GE-30Y	K813H	98100	89900	75200	62300	51200	41600	33400	26300	20300	15300	11090	7620	1350	1000	923
WWCU-0330-M	6JE-33Y	K813H	108800	99500	82800	68400	55800	45000	35800	27800	2110	15510	10830	6980	1350	1000	916
WWCU-0351-M	6HE-35Y	K1053H	125600	115100	96200	79700	65400	53100	42500	33500	25700	19250	13820	9340	1808	1000	915
WWCU-0400-M	6GE-40Y	K1353H	142000	130200	109100	90600	74700	60800	48900	38600	29900	22500	16360	11200	1808	1000	977
WWCU-0500-M	6FE-50Y	K1353H	172500	158300	132700	110500	91100	74300	59800	46300	36700	27700	20000	13640	1808	1000	977

LOW TEMPERATURE PERFORMANCE DATA

Relating to 20°C suction gas temperature, with 5 K liquid subcooling



Model	Compres- sor	Con- denser	Cooling capacity Q _o [Watt]												Dimensions in mm		
			Evaporating temperature °C														
			7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	L	W	H
WWCU-0010-L	2HES-1Y	K073H			5270	4350	3560	2860	2270	1750	1320	940	630	370	776	1000	593
WWCU-0020-L	2FES-2Y	K073H			7660	6340	5190	4200	3340	2600	1970	1440	990	610	776	1000	593
WWCU-0021-L	2EES-2Y	K123H			9860	8170	6770	5420	4320	3370	2570	1880	1300	810	1026	1000	643
WWCU-0022-L	2DES-2Y	K123H			11750	9750	8020	6510	5200	4080	3120	2310	1620	1040	1026	1000	643
WWCU-0030-L	2CES-3Y	K123H			14430	12010	9900	8070	6490	5130	3960	2960	2120	1410	1026	1000	643
WWCU-0031-L	4FES-3Y	K203H			15810	13050	10680	8650	6920	5460	4230	3220	2380	1710	1037	1000	753
WWCU-0040-L	4EES-4Y	K123H			2000	16550	13550	10980	8790	6930	5370	4070	3000	2130	1037	1000	753
WWCU-0050-L	4DES-5Y	K123H			23900	19720	16160	13100	10480	8270	6410	4860	3580	2540	1037	1000	753
WWCU-0060-L	4CES-6Y	K123H			28900	23900	19520	15780	12590	9890	7620	5730	4170	2910	1037	1000	753
WWCU-0080-L	4TES-9Y	K283H			36800	30303	24600	19810	15700	12210	9300	6880	4900	3300	1037	1000	806
WWCU-0100-L	4PES-12Y	K373H			42500	34800	28100	22500	17650	13590	10200	7400	5130	3300	1287	1000	806
WWCU-0120-L	4NES-14Y	K373H			50200	41300	33600	27000	21400	16610	12640	9360	6680	4520	1287	1000	806
WWCU-0130-L	4JE-15Y	K573H			56900	47200	38700	31400	25100	19750	15180	11330	8110	5450	1350	1000	923
WWCU-0150-L	4HE-18Y	K573H			66300	55000	45300	36900	29600	23400	18130	13680	9960	6890	1350	1000	923
WWCU-0200-L	4GE-23Y	K573H			76500	63600	52500	42800	34600	27500	21500	16370	12120	8610	1350	1000	923
WWCU-0220-L	6JE-25Y	K573H			84600	70100	57500	46700	37300	29400	22600	16950	12210	8310	1350	1000	916
WWCU-0250-L	6HE-28Y	K813H			97300	80800	66500	54200	43600	34500	26700	20200	14730	10210	1350	1000	916
WWCU-0300-L	6GE-34Y	K813H			112100	93600	77500	63600	51600	41300	32500	25000	18730	13490	1350	1000	916
WWCU-0400-L	6FE-44Y	K1053H			134800	112500	93100	76300	61700	49200	38500	29400	21700	15220	1808	1000	915

- Additional Cooling 5K
- Additional Cooling + Suction gas super heat ≤ 20K