

چیلر های Keyter اسپانیا



Keyter



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تهران-ابتدای بزرگراه آشناسان- میدان اول شهران- پلاک 41-

ساختمان آفتاب- واحد ۱



- قابلیت سفارش به همراه پمپ، منبع انبساط و بافر تانک
- مجهز به کنترلر میکروپروسسوری
- مجهز به کندانسور مسی V-Type
- بهره گیری از فن EC بامصرف برق و سطح صدای پایین
- قابلیت کارکرد از ۸- تا ۴۸ درجه سانتیگراد به صورت استاندارد
- جنس بدنه از آهن گالوانیزه با پوشش رنگ پلی استر
- مناسب برای کاربری های مسکونی، تجاری و صنعتی
- با قابلیت تولید آب گرم جهت مصارف بهداشتی
- با قابلیت عملکرد در حالت چهار لوله (گرمایش و سزمایش همزمان)
- قابلیت کارکرد در آب و هوای گرمسیری تا دمای ۵۲ درجه سانتیگراد
- اواپراتور صفحه ای با راندمان بالا (قابلیت سفارش با اواپراتور پوسته لوله ای)

نحوه نام گذاری

Codification:



Specifications

KWGEuro model (Version R)			2035	2039	2045	3052	3060	3070	3080	3090	3100	
COOLING ONLY VERSION (R)												
Cooling capacity	Cooling power (1)	kW	32,3	37,2	42,3	50,8	56,4	63,4	74,1	80,2	89,2	
		TR	9,5	11,0	12,5	14,5	16,5	18,5	21,5	23,0	25,5	
		kBTU/h	114	132	150	174	198	222	258	276	306	
	Absorbed power (2)	kW	11,3	12,2	13,4	16,8	17,7	21,3	23,1	27,9	31,9	
	EER (3)	kW/kW	2,9	3,0	3,2	3,0	3,2	3,0	3,2	2,9	2,8	
		BTU/(h*W)	10,1	10,8	11,2	10,4	11,2	10,4	11,2	9,9	9,6	
	SEER (4)	kWh/kWh	4,2	4,2	4,2	4,7	4,8	4,7	4,7	4,4	4,5	
	η _{s,c} (4) (5)	%	166%	164%	164%	186%	188%	185%	186%	173%	178%	
	SEPR (7°C) (6)	kWh/kWh	5,2	5,2	5,2	5,7	5,8	5,7	5,7	5,4	5,5	
	SEPR (-8°C) (4) (6)	kWh/kWh	3,3	3,2	3,2	3,8	3,8	3,8	3,8	3,5	3,6	
	IPLV (7)	kW/TR	0,74	0,76	0,76	0,63	0,62	0,63	0,63	0,70	0,67	
		kBtu/kWh	15,72	15,43	15,43	18,62	18,91	18,48	18,62	16,74	17,46	
HEAT PUMP VERSION (I)												
Cooling mode	Cooling power (1)	kW	-	-	-	49,9	55,4	62,2	72,8	78,9	88,2	
	Absorbed power (2)	kW	-	-	-	17,0	17,8	21,6	23,3	28,2	32,0	
	EER (3)	W/W	-	-	-	2,9	3,1	2,9	3,1	2,8	2,8	
	SEER (4)	kWh/kWh	-	-	-	4,6	4,6	4,6	4,7	4,3	4,5	
	η _{s,c} (4)	%	-	-	-	179%	182%	181%	184%	170%	176%	
	SEPR (7°C) (4)	kWh/kWh	-	-	-	5,5	5,6	5,6	5,7	5,3	5,5	
	SEPR (-8°C) (4)	kWh/kWh	-	-	-	3,6	3,7	3,7	3,7	3,4	3,5	
		IPLV (7)	kW/TR	-	-	-	0,66	0,65	0,65	0,64	0,72	0,68
			kBtu/kWh	-	-	-	17,61	18,04	17,90	18,33	16,30	17,17
	Heating mode	Heating power (8)	kW	-	-	-	55,7	66,4	74,3	83,9	92,2	105,2
Absorbed power (2)		kW	-	-	-	16,5	19,3	21,7	25,5	29,2	31,8	
COP (3)		W/W	-	-	-	3,4	3,4	3,4	3,3	3,2	3,3	
SCOP _a , average climate (4)		kWh/kWh	-	-	-	3,4	3,4	3,3	3,3	3,2	3,3	
η _{s,h} , average climate (4) (5)		%	-	-	-	134%	131%	130%	129%	126%	128%	
TECHNICAL FEATURES												
Power supply			400V / III / 50HZ with neutral									
Cooling circuit	Inner water flow rate	kg CO ₂	R410A / 2088									
	No. circuits/compressors		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/3	
	No. power stages		2	2	2	2	2	2	2	2	3	
Hydraulic circuit	Inner water flow rate	m ³ /h	5,6	6,4	7,3	8,8	9,7	10,9	12,8	13,8	15,4	
	Type of heat exchanger		stainless steel brazed plates									
	Ø hydraulic connections		1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2 1/2"	
	Buffer tank capacity (H)	litres	200	200	200	200	200	200	200	200	200	
Outdoor fan	Outdoor airflow with microchannel coil	m ³ /h	16000	16000	16000	19500	19500	19500	32000	32000	32000	
	Outdoor airflow with Cu-Al coil	m ³ /h	18500	18500	18500	19500	19500	19500	35000	35000	35000	
	Number of fans		1	1	1	1	1	1	2	2	2	
	Ø and type of fan	mm	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	
	Fan speed	rpm	900/700	900/700	900/700	900/700	900/700	900/700	900/700	900/700	900/700	
Equipment sound pressure (Lp10) (9)		dB(A)	55,2	57,6	58,1	60,6	61,6	62,6	61,6	62,0	62,3	
Weights (S version)	Empty weight (R mode)	kg	359	365	380	430	432	446	470	483	581	
	In-service weight (R mode)	kg	369	376	392	442	445	459	483	498	599	
	Empty weight (I mode)	kg	-	-	-	471	473	487	511	524	622	
	In-service weight (I mode)	kg	-	-	-	488	491	505	529	544	647	



Modelo KWG Euro (Version R)			3120	4130	4140	4150	4180	4210	4240	
COOLING ONLY VERSION (R)										
Cooling capacity	Cooling power (1)	kW	100,0	105,0	118,1	139,3	155,2	182,9	209,1	
		TR	28,5	30,0	34,0	40,0	44,5	52,5	59,5	
	Absorbed power (2)	kWh/h	342	360	408	480	534	630	714	
		kW	34,8	35,7	39,3	48,8	56,3	63,1	73,1	
	EER (3)	kW/kW	2,9	2,9	3,0	2,9	2,8	2,9	2,9	
		BTU/(h*W)	9,8	10,1	10,4	9,8	9,5	10,0	9,8	
	SEER (4)	kWh/kWh	4,5	4,6	4,7	4,3	4,2	4,6	4,5	
		%	175%	179%	185%	168%	165%	180%	176%	
	SEPR (7°C) (4) (6)	kWh/kWh	5,4	5,5	5,7	5,3	5,2	5,6	5,5	
		kWh/kWh	3,5	3,6	3,8	3,3	3,3	3,6	3,5	
SEPR (-8°C) (4) (6)	kWh/kWh	0,69	0,66	0,63	0,73	0,75	0,66	0,68		
	kWh/kWh	17,03	17,61	18,48	16,01	15,58	17,75	17,17		
HEAT PUMP VERSION (I)	Cooling power (1)	kW	98,8	104,5	117,5	138,6	154,4	-	-	
		kW	35,2	36,5	40,2	50,0	57,0	-	-	
	EER (3)	W/W	2,8	2,9	2,9	2,8	2,7	-	-	
		kWh/kWh	4,4	4,5	4,3	4,2	4,1	-	-	
	SEER (4)	kWh/kWh	4,4	4,5	4,3	4,2	4,1	-	-	
		%	173%	176%	170%	165%	162%	-	-	
	SEPR (7°C) (6)	kWh/kWh	5,4	5,5	5,3	5,2	5,1	-	-	
		kWh/kWh	3,5	3,5	3,4	3,3	3,2	-	-	
	SEPR (-8°C) (6)	kWh/kWh	0,70	0,68	0,72	0,75	0,77	-	-	
		kWh/kWh	16,74	17,17	16,30	15,58	15,14	-	-	
Heating mode	Heating power (8)	kW	119,2	121,9	136,1	160,7	181,1	-	-	
		kW	36,1	37,7	42,1	52,2	60,6	-	-	
	COP (3)	W/W	3,3	3,2	3,2	3,1	3,0	-	-	
		kWh/kWh	3,2	3,3	3,3	3,3	3,2	-	-	
	SCOP, average climate (4)	%	125%	127%	127%	127%	125%	-	-	
TECHNICAL FEATURES	Power supply		400V / III / 50HZ with neutral							
	Cooling circuit		R410A / 2088							
	Inner water flow rate	kg CO ₂	1/3	1/3	1/3	2/4	2/4	2/6	2/6	
		No. circuits/compressors	3	3	3	4	4	6	6	
	Hydraulic circuit	Inner water flow rate	m ³ /h	17,2	18,1	20,3	24,0	26,7	31,5	36,0
		Type of heat exchanger	stainless steel brazed plates							
		Ø hydraulic connections	2 1/2"	DN 80	DN 80	DN 80	DN 80	DN 80	DN 80	
		Buffer tank capacity (H)	litres	200	200	200	200	200	200	
	Outdoor fan	Outdoor airflow with microchannel coil	m ³ /h	32000	39000	39000	64000	64000	64000	64000
		Outdoor airflow with Cu-Al coil	m ³ /h	35000	39000	39000	70000	70000	64000	64000
Number of fans			2	2	2	4	4	4	4	
Ø and type of fan		mm	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	800-6 AC	
Fan speed		rpm	900/700	900/700	900/700	900/700	900/700	900/700	900/700	
Equipment sound pressure (Lp10) (9)	dB(A)	62,7	63,6	64,0	66,1	66,5	66,9	67,3		
Weights (S version)	Empty weight (R mode)	kg	587	1051	1060	1182	1202	1443	1463	
	In-service weight (R mode)	kg	605	1070	1080	1201	1224	1469	1490	
	Empty weight (I mode)	kg	628	1181	1190	1305	1326	-	-	
	In-service weight (I mode)	kg	653	1207	1217	1332	1353	-	-	

(6) Seasonal Energy Performance Ratio (SEPR) values for chillers for high-temperature processes (12/7°C) in line with Ecodesign Regulation EU 2016/2281. Seasonal Energy Performance Ratio (SEPR) values for chillers for medium-temperature processes (-2/-8°C) in line with Ecodesign Regulation EU 2015/1095

(7) Seasonal Energy Efficiency Ratio in line with AHRI Standards 550/590

(8) Nominal heating capacity for a water inlet/outlet temp. of 40/45°C and outdoor air temp. of 7°C DB/6°C WB. Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10⁻⁴ (m² · K / W)

(9) Sound pressure level in dB(A) measured in a free field at 10 m from the source and with directivity 1



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Ambient Temp (°C)	Correction Factor
35	1
37	0/97
40	0/92
42	0/88
45	0/84
48	0/79

Altitude (m)	Correction Factor
0	1
500	0/98
1000	0/95
1500	0/92

Dimensions

Dimensions Versions S & P (mm)	Series 1	Series 2	Series 3	Series 4
L	1235	1350	2235	2525
W	1050	1100	1050	2100
H	1620	2025	1695	1695

Dimensions H version (mm)	Series 1	Series 2	Series 3	Series 4
L	1735	1850	2525	2525
W	1050	1100	1050	2100
H	1620	2025	1695	1695



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- بهره وری از فن های AC و EC با مصرف برق پایین به همراه Axitop به منظور کاهش صدا
- مجهز به کندانسور مسی V-Type
- قابلیت سفارش با کمپرسور اینورتر
- قابلیت کارکرد از ۱۲- تا ۵۵ درجه سانتیگراد به صورت استاندارد
- جنس بدنه از آهن گالوانیزه با پوشش رنگ پلی استر
- مناسب برای کاربری های مسکونی، تجاری و صنعتی
- با قابلیت تولید آب گرم به صورت جزئی (Partial) جهت مصارف بهداشتی
- قابلیت کارکرد در آب و هوای گرمسیری تا دمای ۵۷ درجه سانتیگراد
- قابلیت اتصال دستگاه ها به یکدیگر از طریق PLC
- مطابق با استاندارد ERP 2018 و ERP 2021
- قابلیت اتصال به BMS از طریق پروتکل های BACnet و LonWorks

Specifications

KWT Model			2075	3100	3125	4150	4160	6180	6210	6240	
COOLING ONLY VERSION (R)											
Cooling capacity	Cooling power (1)	kW	274.6	378.6	488.9	527.8	549.1	605.8	757.2	867.3	
		TR	78.5	108.0	139.5	150.5	156.5	172.5	215.5	247.0	
		kBTU/h	942	1296	1674	1806	1878	2070	2586	2964	
	Absorbed power (2)	kW	105.2	139.5	186.1	220.2	225.8	204.0	309.7	341.0	
		EER (3)	kW/kW	2.6	2.7	2.6	2.4	2.4	3.0	2.4	2.5
		BTU/W*h	9.0	9.3	9.0	8.2	8.3	10.1	8.4	8.7	
SERP (7°C) (4) (6)	kwh/kwh	5.56	5.54	5.56	5.54	5.55	5.67	5.56	5.57		
SERP (-8°C) (4) (6)	kwh/kwh	3.29	3.46	3.30	3.29	3.29	3.62	3.30	3.31		
TECHNICAL FEATURES											
Power supply			400V / III / 50HZ without neutral								
Cooling circuit	Refrigerant fluid / GWP	kg CO ₂	R134a / 1345								
	Type of compressor		semi-hermetic screw compressor								
	No. circuits / compressors		1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	
	No. power stages		4	4	4	4	8	4	8	8	
Hydraulic circuit	Inner water flow rate	m ³ /h	47.3	65.2	84.2	90.9	94.6	104.3	130.4	149.4	
	Type of heat exchanger		shell and tube heat exchanger								
	Ø hydraulic connections		DN150 VIC	DN150 VIC	DN150 VIC	DN150 VIC	DN150 VIC	DN150 VIC	DN150 VIC	DN200 VIC	
Outdoor fan	Outdoor airflow	m ³ /h	80000	120000	120000	160000	160000	240000	240000	240000	
	No. fans		4	6	6	8	8	12	12	12	
	Ø and type of fan	mm	800 Axial AC + VDF								
Equipment sound pressure (Lp10) (6)		dB(A)	68.0	68.4	68.5	68.9	69.1	68.6	69.9	70.0	
Weights	Empty weight (S version)	kg	2650	3660	3680	4670	4700	6455	6765	6785	
	In-service weight (S version)	kg	2746	3768	3824	4814	4892	6743	6981	7037	



KWT Model			6260	8250	8300	9320	9350	9375	9400	
COOLING ONLY VERSION (R)										
Cooling capacity	Cooling power (1)	kW	978.1	963.5	1055.9	1135.4	1244.8	1355.9	1466.5	
		TR	278.5	274.0	300.5	323.0	354.0	386.0	417.0	
		kBTU/h	3342	3288	3606	3876	4248	4632	5004	
	Absorbed power (2)	kW	372.7	319.2	440.0	464.2	496.0	526.9	558.4	
		EER (3)	kW/kW	2.6	3.0	2.4	2.4	2.5	2.6	2.6
		BTU/W*h	9.0	10.3	8.2	8.4	8.6	8.8	9.0	
		SERP (7°C) (4) (6)	kwh/kwh	5.51	5.71	5.51	5.61	5.61	5.63	5.65
SERP (-8°C) (4) (6)	kwh/kwh	3.36	3.67	3.27	3.34	3.39	3.42	3.47		
TECHNICAL FEATURES										
Power supply			400V / III / 50HZ without neutral							
Cooling circuit	Refrigerant fluid / GWP	kg CO ₂	R134a / 1345							
	Type of compressor		semi-hermetic screw compressor							
	No. circuits / compressors		2/2	2/2	2/2	3/3	3/3	3/3	3/3	
	No. power stages		8	8	8	12	12	12	12	
Hydraulic circuit	Inner water flow rate	m ³ /h	168.5	166.0	181.9	195.6	214.4	233.5	252.6	
	Type of heat exchanger		shell and tube heat exchanger							
	Ø hydraulic connections		DN200 VIC	DN250 VIC	DN250 VIC	DN250 VIC	DN250 VIC	DN250 VIC	DN250 VIC	
Outdoor fan	Outdoor airflow	m ³ /h	240000	320000	320000	360000	360000	360000	360000	
	No. fans		12	16	16	18	18	18	18	
	Ø and type of fan	mm	800 Axial AC + VDF							
Equipment sound pressure (Lp10) (6)		dB(A)	70.2	70.0	71.2	71.6	71.8	72.0	72.2	
Weights	Empty weight (S version)	kg	6800	8750	8845	9925	9940	9965	9985	
	In-service weight (S version)	kg	7088	9086	9133	10141	10156	10217	10273	

(1) Nominal cooling power for a water inlet/outlet temp. of 12/7°C and outdoor air temp. of 35°C. Capacities calculated with a fouling factor in the heat exchanger of 0.43·10E-4 (m² · K / W)

(2) Nominal power input by compressors and outdoor fans

(3) EER calculated based on regulation EN: 14511-2018

(4) Seasonal Efficiency calculated based on standard EN 14825:2018

(5) Seasonal Energy Performance Ratio (SEPR) values given for chillers for high-temperature processes (12/7°C) in line with Ecodesign Regulation EU 2016/2281. Seasonal Energy Performance Ratio (SEPR) values for chillers for medium-temperature processes (-2/-8°C) in line with Ecodesign Regulation EU 2015/1095

(6) Sound pressure level in dB(A) measured in a free field at 10 m from the source and with directivity 1

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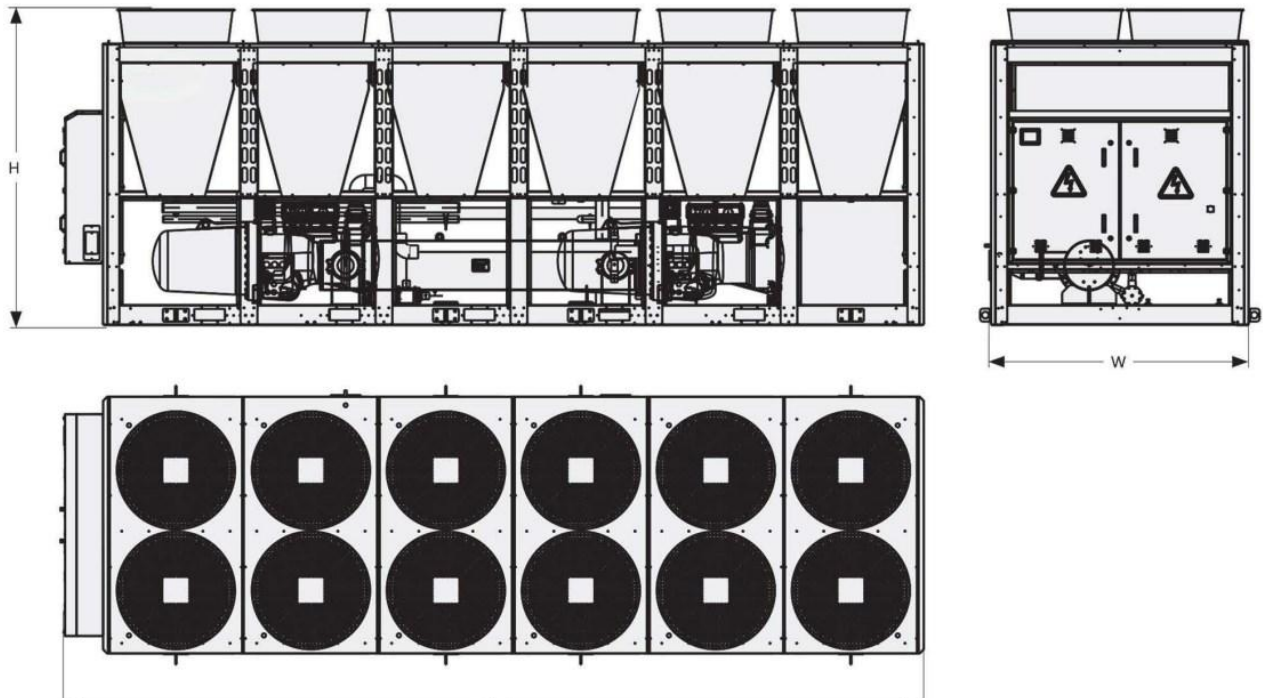
Ambient Temp (°C)	Correction Factor
35	1/00
37	0/97
40	0/92
42	0/89
45	0/84

Altitude (m)	Correction Factor
0	1/00
500	0/97
1000	0/95
1500	0/92



Dimensions

Standard version:



Dimensions of KWT standard (mm)						
	Series 2	Series 3	Series 4	Series 6	Series 8	Series 9
L	2710	3810	4910	7110	9310	10410
W	2100	2100	2100	2100	2100	2100
H	2600	2600	2600	2600	2600	2600
H with optional AxiBlade fan	2650	2650	2650	2650	2650	2650
H with optional AxiTop	2780	2780	2780	2780	2780	2780

Dimensions of KWT + Full Recovery optional (mm)						
	Series 2	Series 3	Series 4	Series 6	Series 8	Series 9
L	3810	4910	6010	8210	10410	11510
W	2100	2100	2100	2100	2100	2100
H	2600	2600	2600	2600	2600	2600
H with optional AxiBlade fan	2650	2650	2650	2650	2650	2650
H with optional AxiTop	2780	2780	2780	2780	2780	2780

For transportation in containers, the outer nozzles are shipped unassembled for subsequent on-site installation. The AxiTop is a removable element and it can be installed on-site. The optional hydraulic unit with a pump is supplied in a separate module (please see the technical documentation).

