

EKE

Performance tables by model

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 21	5	10.0	2.3	9.3	2.5	8.7	2.8	8.1	3.1	7.5	3.4	Ethylene Glycol 5%
	6	10.3	2.3	9.6	2.5	8.9	2.8	8.3	3.1	7.7	3.5	
	7	10.6	2.3	9.9	2.6	9.2	2.8	8.6	3.1	7.9	3.5	Water
	8	10.9	2.4	10.2	2.6	9.5	2.8	8.8	3.1	8.2	3.5	
	9	11.2	2.4	10.5	2.6	9.8	2.9	9.1	3.2	8.4	3.5	
	10	11.5	2.4	10.8	2.6	10.1	2.9	9.4	3.2	8.7	3.5	
	12	12.2	2.4	11.4	2.6	10.7	2.9	9.9	3.2	9.2	3.6	
15	13.2	2.5	12.4	2.7	11.6	3.0	10.8	3.3	10.0	3.7		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 31	5	13.3	2.7	12.4	2.9	11.5	3.3	10.7	3.6	9.9	4.0	Ethylene Glycol 5%
	6	13.7	2.7	12.8	3.0	11.9	3.3	11.0	3.6	10.2	4.0	
	7	14.1	2.7	13.2	3.0	12.2	3.3	11.3	3.7	10.5	4.1	Water
	8	14.5	2.7	13.5	3.0	12.6	3.3	11.7	3.7	10.8	4.1	
	9	14.9	2.8	13.9	3.0	13.0	3.3	12.0	3.7	11.1	4.1	
	10	15.3	2.8	14.3	3.1	13.3	3.4	12.4	3.7	11.5	4.1	
	12	16.2	2.8	15.1	3.1	14.1	3.4	13.1	3.8	12.1	4.2	
15	17.5	2.9	16.4	3.2	15.3	3.5	14.2	3.9	13.2	4.3		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 51	5	18.5	3.9	17.3	4.3	16.1	4.8	14.9	5.3	13.8	5.9	Ethylene Glycol 5%
	6	19.0	4.0	17.8	4.3	16.5	4.8	15.3	5.3	14.2	5.9	
	7	19.6	4.0	18.3	4.4	17.0	4.8	15.8	5.4	14.6	6.0	Water
	8	20.1	4.0	18.8	4.4	17.5	4.9	16.2	5.4	15.0	6.0	
	9	20.6	4.1	19.3	4.5	17.9	4.9	16.6	5.5	15.4	6.1	
	10	21.2	4.1	19.8	4.5	18.4	5.0	17.1	5.5	15.8	6.1	
	12	22.3	4.2	20.8	4.6	19.4	5.1	18.0	5.6	16.7	6.2	
15	23.9	4.3	22.4	4.7	20.9	5.2	19.4	5.8	18.0	6.4		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 81	5	24.5	4.9	23.1	5.3	21.8	5.8	20.6	6.5	19.4	7.2	Ethylene Glycol 5%
	6	25.1	4.8	23.8	5.3	22.4	5.9	21.2	6.5	19.9	7.2	
	7	25.9	4.9	24.5	5.3	23.1	5.9	21.8	6.5	20.5	7.3	Water
	8	26.6	4.9	25.1	5.3	23.7	5.9	22.4	6.6	21.1	7.3	
	9	27.3	4.9	25.8	5.4	24.4	5.9	23.0	6.6	21.6	7.4	
	10	28.0	4.9	26.5	5.4	25.0	6.0	23.6	6.6	22.2	7.4	
	12	29.5	4.9	27.9	5.5	26.4	6.0	24.9	6.7	23.4	7.5	
15	31.9	5.0	30.2	5.6	28.5	6.2	26.9	6.9	25.3	7.6		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 101	5	27.1	5.7	25.6	6.3	24.2	6.9	22.8	7.7	21.5	8.5	Ethylene Glycol 5%
	6	27.8	5.7	26.3	6.3	24.8	7.0	23.4	7.7	22.0	8.6	
	7	28.6	5.7	27.1	6.3	25.5	7.0	24.1	7.8	22.7	8.7	Water
	8	29.4	5.8	27.8	6.3	26.2	7.0	24.7	7.8	23.3	8.7	
	9	30.1	5.8	28.5	6.4	26.9	7.1	25.4	7.9	23.9	8.8	
	10	30.9	5.8	29.3	6.4	27.6	7.1	26.0	7.9	24.5	8.8	
	12	32.5	5.9	30.8	6.5	29.1	7.2	27.4	8.0	25.8	9.0	
15	35.1	6.1	33.2	6.7	31.4	7.4	29.6	8.2	27.8	9.1		

Performance tables by model

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 121	5	32.9	6.5	31.1	7.2	29.3	7.9	27.7	8.8	26.1	9.7	Ethylene Glycol 5%
	6	33.7	6.5	31.9	7.2	30.1	7.9	28.4	8.8	26.8	9.8	
	7	34.7	6.6	32.8	7.2	31.0	8.0	29.2	8.9	27.5	9.9	
	8	35.6	6.6	33.7	7.2	31.8	8.0	30.0	8.9	28.3	9.9	Water
	9	36.6	6.6	34.6	7.3	32.7	8.1	30.8	9.0	29.0	10.0	
	10	37.6	6.6	35.5	7.3	33.6	8.1	31.6	9.0	29.8	10.1	
	12	39.5	6.7	37.4	7.4	35.4	8.2	33.3	9.2	31.4	10.2	
15	42.7	6.9	40.4	7.6	38.2	8.4	36.0	9.4	33.9	10.4		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 151	5	7.1	33.2	7.8	31.3	8.7	29.5	9.6	27.8	10.7	00,0	Ethylene Glycol 5%
	6	7.1	34.1	7.9	32.1	8.7	30.3	9.7	28.5	10.7	00,0	
	7	7.2	35.0	7.9	33.1	8.8	31.2	9.7	29.3	10.8	00,0	
	8	7.2	35.9	7.9	33.9	8.8	32.0	9.8	30.1	10.9	00,0	Water
	9	7.2	36.9	8.0	34.8	8.9	32.8	9.9	30.9	11.0	00,0	
	10	7.3	37.9	8.1	35.7	8.9	33.7	9.9	31.7	11.1	00,0	
	12	7.4	39.8	8.2	37.6	9.1	35.5	10.1	33.4	11.2	00,0	
15	7.6	42.9	8.4	40.5	9.3	38.2	10.3	35.9	11.5	00,0		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 201	5	52.5	10.0	48.5	10.8	44.8	11.7	41.2	12.7	37.7	13.9	Ethylene Glycol 5%
	6	53.7	10.0	49.7	10.8	45.9	11.8	42.3	12.8	38.8	14.0	
	7	55.0	10.1	51.0	10.9	47.2	11.9	43.5	12.9	39.9	14.1	
	8	56.3	10.2	52.3	11.0	48.4	12.0	44.6	13.0	41.0	14.2	Water
	9	57.6	10.3	53.5	11.1	49.6	12.1	45.8	13.1	42.2	14.3	
	10	58.9	10.4	54.8	11.2	50.8	12.2	47.0	13.2	43.3	14.4	
	12	61.6	10.6	57.4	11.4	53.3	12.4	49.3	13.5	45.6	14.7	
15	65.8	10.9	61.4	11.7	57.1	12.7	53.0	13.8	49.0	15.0		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 252	5	56.6	11.5	53.5	12.7	50.5	14.0	47.6	15.6	44.9	17.3	Ethylene Glycol 5%
	6	58.1	11.6	55.0	12.7	51.9	14.1	48.9	15.6	46.1	17.4	
	7	59.7	11.6	56.5	12.8	53.4	14.2	50.3	15.8	47.3	17.5	
	8	61.3	11.7	58.0	12.9	54.8	14.3	51.6	15.9	48.6	17.7	Water
	9	62.9	11.7	59.5	13.0	56.2	14.4	53.0	16.0	49.9	17.8	
	10	64.5	11.8	61.1	13.1	57.7	14.5	54.4	16.1	51.2	17.9	
	12	67.9	12.0	64.3	13.3	60.7	14.7	57.2	16.3	53.8	18.2	
15	73.1	12.4	69.2	13.6	65.4	15.1	61.6	16.7	58.0	18.6		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 302	5	71.7	14.4	67.8	15.8	64.0	17.5	60.4	19.4	56.8	21.6	Ethylene Glycol 5%
	6	73.6	14.4	69.6	15.9	65.8	17.6	62.0	19.5	58.4	21.7	
	7	75.7	14.5	71.6	16.0	67.6	17.7	63.7	19.6	60.0	21.9	
	8	77.7	14.6	73.5	16.1	69.4	17.8	65.4	19.8	61.6	22.0	Water
	9	79.7	14.6	75.5	16.2	71.3	17.9	67.2	19.9	63.2	22.2	
	10	81.8	14.7	77.4	16.3	73.1	18.0	68.9	20.1	64.9	22.3	
	12	86.1	15.0	81.5	16.5	77.0	18.3	72.5	20.4	68.3	22.6	
15	92.7	15.4	87.8	17.0	83.0	18.8	78.2	20.8	73.6	23.1		

ETHYLENE GLYCOL Mixture (Meg) - Correction Factor

If a Meg is used instead of water, it causes a variation in the performance of the unit.

For correct data please use the Correction Factor indicated in the following table:

	0 (water)	Meg 20%	Meg 30%	Meg 40% ⁽¹⁾
Freezing point	0°C	-8,9°C	-15,8°C	-24,8°C
CcCF	1	0,980	0,974	0,965

CcCF: Correction factor for cooling capacity

⁽¹⁾ For Meg = 40% and for data concerning other kind of anti-freeze solutions please contact our Sales Dept.

Notes:
Cc = Cooling capacity [kW]
Pi = Compressor(s) power input [kW]
LWT = Evaporator Leaving Water Temperature

EKE

Performance tables by model

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 352	5	87.5	16.3	82.4	17.7	77.5	19.4	72.7	21.2	68.1	23.3	Ethylene Glycol 5%
	6	89.6	16.4	84.5	17.9	79.5	19.5	74.6	21.4	70.0	23.5	
	7	91.9	16.6	86.7	18.0	81.7	19.7	76.7	21.6	72.0	23.7	
	8	94.2	16.7	88.9	18.2	83.8	19.9	78.8	21.7	74.0	23.8	Water
	9	96.5	16.9	91.1	18.4	85.9	20.0	80.8	21.9	76.0	24.0	
	10	98.8	17.1	93.4	18.5	88.1	20.2	83.0	22.1	78.0	24.2	
	12	103.7	17.4	98.1	18.9	92.7	20.6	87.4	22.5	82.3	24.6	
15	111.3	18.0	105.5	19.5	99.8	21.2	94.3	23.1	89.0	25.2		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 402	5	103.4	18.4	95.8	19.8	88.4	21.5	81.3	23.4	74.6	25.5	Ethylene Glycol 5%
	6	105.8	18.5	98.1	20.0	90.6	21.7	83.5	23.6	76.7	25.7	
	7	108.4	18.7	100.6	20.2	93.1	21.9	85.8	23.8	79.0	26.0	
	8	110.9	18.8	103.1	20.3	95.4	22.1	88.1	24.0	81.1	26.2	Water
	9	113.5	19.0	105.6	20.5	97.8	22.2	90.4	24.2	83.3	26.4	
	10	116.1	19.2	108.1	20.7	100.2	22.4	92.7	24.4	85.5	26.6	
	12	121.3	19.5	113.1	21.1	105.1	22.8	97.4	24.8	90.0	27.0	
15	129.4	20.1	120.9	21.7	112.6	23.4	104.5	25.5	96.8	27.7		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 502	5	112.9	21.6	107.2	23.9	101.0	26.4	94.4	29.2	87.7	32.4	Ethylene Glycol 5%
	6	115.8	21.8	110.0	24.1	103.7	26.6	96.9	29.4	90.0	32.6	
	7	119.0	22.0	113.0	24.3	106.5	26.8	99.6	29.7	92.5	32.8	
	8	122.0	22.2	115.8	24.5	109.2	27.1	102.1	29.9	94.9	33.1	Water
	9	125.1	22.5	118.7	24.7	111.9	27.3	104.7	30.1	97.3	33.3	
	10	128.1	22.7	121.6	25.0	114.6	27.5	107.3	30.4	99.8	33.6	
	12	134.4	23.1	127.5	25.5	120.2	28.0	112.6	30.9	104.7	34.1	
15	143.9	23.9	136.5	26.2	128.7	28.8	120.7	31.8	112.3	35.0		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 602	5	126.0	22.5	120.0	24.8	113.6	27.4	106.5	30.3	99.3	33.5	Ethylene Glycol 5%
	6	129.3	22.7	123.2	25.1	116.6	27.6	109.4	30.5	102.0	33.7	
	7	132.9	23.0	126.7	25.3	119.8	27.9	112.5	30.8	104.9	34.0	
	8	136.4	23.2	129.9	25.5	122.9	28.1	115.4	31.0	107.7	34.2	Water
	9	139.9	23.4	133.3	25.7	126.1	28.3	118.4	31.2	110.5	34.5	
	10	143.4	23.6	136.6	26.0	129.3	28.6	121.4	31.5	113.4	34.7	
	12	150.6	24.1	143.5	26.5	135.7	29.1	127.5	32.0	119.2	35.3	
15	161.8	24.9	154.0	27.2	145.7	29.9	137.0	32.9	128.0	36.2		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 702	5	156.9	29.4	149.8	32.4	141.9	35.7	133.4	39.3	124.4	43.5	Ethylene Glycol 5%
	6	160.9	29.6	153.6	32.6	145.6	35.9	136.9	39.6	127.7	43.7	
	7	165.3	29.9	157.8	32.9	149.6	36.2	140.7	39.9	131.3	44.0	
	8	169.4	30.1	161.8	33.1	153.4	36.4	144.3	40.1	134.8	44.3	Water
	9	173.6	30.3	165.9	33.4	157.3	36.7	147.9	40.4	138.3	44.5	
	10	177.9	30.6	169.9	33.6	161.2	36.9	151.6	40.6	141.9	44.8	
	12	186.5	31.1	178.2	34.1	169.1	37.5	159.2	41.2	149.1	45.4	
15	199.9	31.9	191.0	35.0	181.3	38.3	170.9	42.1	160.1	46.3		

Performance tables by model

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 804	5	215.4	39.5	199.3	42.7	183.9	46.3	169.0	50.5	155.0	55.1	Ethylene Glycol 5%
	6	220.4	39.8	204.2	43.0	188.6	46.7	173.6	50.8	159.4	55.5	
	7	225.9	40.1	209.6	43.4	193.7	47.1	178.5	51.3	164.1	56.0	
	8	231.2	40.4	214.7	43.7	198.7	47.4	183.3	51.6	168.6	56.4	Water
	9	236.6	40.8	219.9	44.1	203.6	47.8	188.0	52.0	173.2	56.8	
	10	242.1	41.1	225.2	44.4	208.7	48.2	192.9	52.5	177.8	57.2	
	12	253.2	41.8	236.0	45.2	219.0	49.0	202.8	53.3	187.2	58.1	
15	270.4	43.0	252.4	46.4	234.8	50.3	217.8	54.6	201.5	59.5		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 1004	5	245.7	46.0	234.2	50.8	221.6	56.1	208.0	62.0	193.8	68.7	Ethylene Glycol 5%
	6	252.3	46.4	240.5	51.2	227.6	56.5	213.6	62.5	199.1	69.1	
	7	259.5	46.9	247.3	51.7	234.0	57.0	219.7	63.0	204.9	69.6	
	8	266.3	47.3	253.8	52.1	240.2	57.4	225.5	63.4	210.3	70.1	Water
	9	273.2	47.7	260.3	52.5	246.4	57.9	231.3	63.9	215.9	70.6	
	10	280.1	48.2	267.0	53.0	252.7	58.4	237.2	64.4	221.6	71.1	
	12	294.4	49.1	280.5	54.0	265.5	59.4	249.4	65.4	233.0	72.2	
15	316.5	50.6	301.4	55.5	285.2	61.0	268.1	67.1	250.6	73.9		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 1204	5	287.7	52.4	274.9	57.9	261.0	63.9	245.8	70.6	229.4	78.2	Ethylene Glycol 5%
	6	295.4	52.8	282.4	58.3	268.1	64.3	252.5	71.0	235.8	78.6	
	7	303.7	53.2	290.4	58.7	275.7	64.7	259.8	71.5	242.7	79.1	
	8	311.7	53.6	298.0	59.1	283.0	65.1	266.7	71.9	249.2	79.5	Water
	9	319.8	54.0	305.8	59.5	290.5	65.6	273.7	72.3	255.9	80.0	
	10	327.9	54.4	313.6	59.9	298.0	66.0	280.9	72.8	262.7	80.4	
	12	344.7	55.2	329.7	60.8	313.3	66.9	295.4	73.7	276.6	81.4	
15	370.6	56.6	354.6	62.2	336.9	68.3	317.8	75.2	298.0	82.9		

Model	LWT	Condenser air intake temperature [°C]										
		20		25		30		35		40		
	°C	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	Cc	Pi	
EKE 1404	5	319.3	60.2	305.1	66.3	289.6	73.1	272.6	80.7	254.4	89.2	Ethylene Glycol 5%
	6	327.6	60.6	313.1	66.8	297.2	73.6	279.9	81.1	261.3	89.7	
	7	336.5	61.0	321.7	67.2	305.5	74.0	287.7	81.6	268.8	90.2	
	8	345.1	61.4	330.0	67.7	313.4	74.5	295.2	82.1	276.0	90.7	Water
	9	353.7	61.9	338.4	68.1	321.4	75.0	302.9	82.6	283.2	91.2	
	10	362.5	62.3	346.9	68.6	329.5	75.5	310.6	83.1	290.6	91.7	
	12	380.5	63.2	364.1	69.5	346.0	76.5	326.3	84.1	305.7	92.8	
15	408.1	64.7	390.7	71.1	371.4	78.0	350.4	85.8	329.0	94.5		

ETHYLENE GLYCOL Mixture (Meg) - Correction Factor

If a Meg is used instead of water, it causes a variation in the performance of the unit.

For correct data please use the Correction Factor indicated in the following table:

	0 (water)	Meg 20%	Meg 30%	Meg 40% ⁽¹⁾
Freezing point	0°C	-8,9°C	-15,8°C	-24,8°C
CcCF	1	0,980	0,974	0,965

CcCF: Correction factor for cooling capacity

⁽¹⁾ For Meg = 40% and for data concerning other kind of anti-freeze solutions please contact our Sales Dept.

Notes:

Cc = Cooling capacity [kW]

Pi = Compressor(s) power input [kW]

LWT = Evaporator Leaving Water Temperature