

ISI KAYBI ÇİZELGESİ

Proje no :
Proje adı : 4-5 HEKİMLİ ASM
Konu : ISI KAYBI HESAPLARI

Sayfa no : 1
Revizyon : 0
Tarih : Salı, 18 Kasım, 2014
Hesaplayan : --
Kontrol : --

DİZAYN BİLGİLERİ

Şehir adı
Bolu

Dış hava sıcaklığı (°C)
-15 °C

Rüzgar durumu
Normal

İşletme durumu
2. işletme

HESAP DEĞERLERİ

İşr.	Yö n	Gen. W(m)	Uzn. L(m)	Yük. H(m)	Alan A(m2)	Adet	Çıkan A(m2)	Net Alan	K (Kcal/hm2°)	tr-to dt(°C)	Kxdt	Q Kısmi	ZD (% W)	Z (% W)	ZH (% W)	Z (% W)	Toplam Q(Kcal/h)
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Z01

LABORATUAR

20 °C

Ça1	0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139
Tdö1	0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67
Dd1 K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107
Dd2 K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29
Dp1 K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241
824

Z02

AŞI BEBEK İZLEME

20 °C

Ça1	0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139
Tdö1	0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67
Dd1 K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107
Dd2 K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29
Dp1 K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241
824

Z03

MUAYENE ODASI

20 °C

Ça1	0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139
Tdö1	0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67
Dd1 K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107
Dd2 K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29
Dp1 K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241
824

Z04

EĞİTİMCİ ODASI

20 °C

Ça1	0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139
Tdö1	0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67
Dd1 K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107
Dd2 K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29
Dp1 K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241

ISI KAYBI ÇİZELGESİ

Proje no :
Proje adı : 4-5 HEKİMLİ ASM
Konu : ISI KAYBI HESAPLARI

Sayfa no : 2
Revizyon : 0
Tarih : Salı, 18 Kasım, 2014
Hesaplayan : --
Kontrol : --

DİZAYN BİLGİLERİ

Şehir adı
Bolu

Dış hava sıcaklığı (°C)
-15 °C

Rüzgar durumu
Normal

İşletme durumu
2. işletme

HESAP DEĞERLERİ

İşr.	Yö n	Gen. W(m)	Uzn. L(m)	Yük. H(m)	Alan A(m2)	Adet	Çıkan A(m2)	Net Alan	K (Kcal/hm2°)	tr-to dt(°C)	Kxdt	Q Kısmi	ZD (% W)	Z (% W)	ZH (% W)	Z (% W)	Toplam Q(Kcal/h)
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824

Z05

EĞİTİM ODASI

20 °C

Ça1	0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139
Tdö1	0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67
Dd1 K	0.34	5.00	3.40	17.00	1	2.08	14.92	0.310	35	10.85	162
Dd2 K	0.26	5.00	0.60	3.00	1		3.00	0.400	35	13.96	42
Dp1 K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144
Dd1 K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107
Dd2 K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29
Dp1 K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144

834 15 0 5 1.20 1,001

Qfuga = (axl) x R x H x (ti-ta) x Ze
26.4 x 0.9 x 0.58 x 35 x 1

482

1,483

Z06

GİRİŞ HOLÜ

20 °C

Ça1	0.40	0.00	0.00	0.00	1		160.00	0.260	35	9.27	1,483
Tdö1	0.36	0.00	0.00	0.00	1		160.00	0.300	15	4.45	712
Dp3 K		2.50	3.00	7.50	2		15.00	1.980	35	69.23	1,038
Dp6 K		6.00	3.00	18.00	1	4.80	13.20	1.980	35	69.23	914
Dk1 K		1.60	3.00	4.80	1		4.80	3.440	35	120.36	578
Dd2 K	0.26	11.00	0.60	6.60	1		6.60	0.400	35	13.96	92

4,817 15 0 5 1.20 5,780

Qfuga = (axl) x R x H x (ti-ta) x Ze
73.8 x 0.9 x 0.58 x 35 x 1

1,348

7,128

Z07

EMZİRME ODASI

20 °C

Ça1	0.40	0.00	0.00	0.00	1		6.00	0.260	35	9.27	56
Tdö1	0.36	0.00	0.00	0.00	1		6.00	0.300	15	4.45	27

83 20 0 0 1.20 100

100

Z08

KAT OFİSİ

20 °C

Ça1	0.40	0.00	0.00	0.00	1		6.00	0.260	35	9.27	56
Tdö1	0.36	0.00	0.00	0.00	1		6.00	0.300	15	4.45	27

83 20 0 0 1.20 100

ISI KAYBI ÇİZELGESİ

Proje no :
Proje adı : 4-5 HEKİMLİ ASM
Konu : ISI KAYBI HESAPLARI

Sayfa no : 3
Revizyon : 0
Tarih : Salı, 18 Kasım, 2014
Hesaplayan : --
Kontrol : --

DİZAYN BİLGİLERİ

Şehir adı
Bolu

Dış hava sıcaklığı (°C)
-15 °C

Rüzgar durumu
Normal

İşletme durumu
2. işletme

HESAP DEĞERLERİ

İşr.	Yö n	Gen. W(m)	Uzn. L(m)	Yük. H(m)	Alan A(m2)	Adet	Çıkan A(m2)	Net Alan	K (Kcal/hm2°)	tr-to dt(°C)	Kxdt	Q Kısmi	ZD (% W)	Z W	ZH (% W)	Z W	Toplam Q(Kcal/h)
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100

Z09

DEPO

18 °C

Ça1		0.40	0.00	0.00	0.00	1		15.00	0.260	33	8.74	131					
Tdö1		0.36	0.00	0.00	0.00	1		15.00	0.300	13	3.86	58					
Dd1	K	0.34	4.50	3.40	15.30	1	2.08	13.22	0.310	33	10.23	135					
Dd2	K	0.26	4.50	0.60	2.70	1		2.70	0.400	33	13.17	36					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	33	65.27	136					

496 15 0 5 1.20 595

$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$
 $13.2 \times 0.9 \times 0.58 \times 33 \times 1$

227

822

Z10

GEBE İZLEME

20 °C

Ça1		0.40	0.00	0.00	0.00	1		20.00	0.260	35	9.27	185					
Tdö1		0.36	0.00	0.00	0.00	1		20.00	0.300	15	4.45	89					
Dd1	K	0.34	6.50	3.40	22.10	1	2.08	20.02	0.310	35	10.85	217					
Dd2	K	0.26	6.50	0.60	3.90	1		3.90	0.400	35	13.96	54					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					
Dd1	K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107					
Dd2	K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					

969 15 0 5 1.20 1,163

$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$
 $26.4 \times 0.9 \times 0.58 \times 35 \times 1$

482

1,645

Z11

MUAYENE ODASI

20 °C

Ça1		0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139					
Tdö1		0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67					
Dd1	K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107					
Dd2	K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					

486 15 0 5 1.20 583

$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$
 $13.2 \times 0.9 \times 0.58 \times 35 \times 1$

241

824

Z12

MUAYENE ODASI

20 °C

Ça1		0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139					
Tdö1		0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67					
Dd1	K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107					

ISI KAYBI ÇİZELGESİ

Proje no :
Proje adı : 4-5 HEKİMLİ ASM
Konu : ISI KAYBI HESAPLARI

Sayfa no : 4
Revizyon : 0
Tarih : Salı, 18 Kasım, 2014
Hesaplayan : --
Kontrol : --

DİZAYN BİLGİLERİ

Şehir adı
Bolu

Dış hava sıcaklığı (°C)
-15 °C

Rüzgar durumu
Normal

İşletme durumu
2. işletme

HESAP DEĞERLERİ

İşr.	Yö n	Gen. W(m)	Uzn. L(m)	Yük. H(m)	Alan A(m2)	Adet	Çıkan A(m2)	Net Alan	K (Kcal/hm2°)	tr-to dt(°C)	Kxdt	Q Kısmi	ZD (% W)	Z (% W)	ZH (% W)	Z (% W)	Toplam Q(Kcal/h)
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Dd2	K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241
824

Z13

MUAYENE ODASI

20 °C

Ça1		0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139					
Tdö1		0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67					
Dd1	K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107					
Dd2	K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241
824

Z14

ACİL MÜDAHALE

20 °C

Ça1		0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139					
Tdö1		0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67					
Dd1	K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107					
Dd2	K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					

486 15 0 5 1.20 583

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$13.2 \times 0.9 \times 0.58 \times 35 \times 1$$

241
824

Z15

MUAYENE ODASI

20 °C

Ça1		0.40	0.00	0.00	0.00	1		15.00	0.260	35	9.27	139					
Tdö1		0.36	0.00	0.00	0.00	1		15.00	0.300	15	4.45	67					
Dd1	K	0.34	5.00	3.40	17.00	1	2.08	14.92	0.310	35	10.85	162					
Dd2	K	0.26	5.00	0.60	3.00	1		3.00	0.400	35	13.96	42					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					
Dd1	K	0.34	3.50	3.40	11.90	1	2.08	9.82	0.310	35	10.85	107					
Dd2	K	0.26	3.50	0.60	2.10	1		2.10	0.400	35	13.96	29					
Dp1	K		0.80	1.30	1.04	2		2.08	1.980	35	69.23	144					

834 15 0 5 1.20 1,001

$$Q_{fuga} = (axl) \times R \times H \times (ti - td) \times Ze$$
$$26.4 \times 0.9 \times 0.58 \times 35 \times 1$$

482
1,483