

Btu Calculation

How BTU is calculated ?

Step1 - Region Coefficients

Mediterranean:445

Eastern Anatolia: 308

Aegean: 423

Southeast Anatolia: 462

Central Anatolia: 346

Black Sea: 385

Marmara: 385

Step2 – Place To Be Used

Result2 = Home = Region Coefficients

Result2 = Office = (Region Coefficients + Region Coefficients 10%)

Result2 = Shop = (Region Coefficients + Region Coefficients 20%)

Step3 – Height

Result3 = (Result2 /3) * Height

Step4 - Square Meters

Result4 = Result3 * Square Meters

Step5 - Number of Persons

Result5 = Number of Persons * 600

Step6 – Lighting Power

Result6 = If the lighting power is over 500W, 3,412 btu/h is added for every 1W.

Step7

$$\text{Result7} = \text{Result4} + \text{Result5} + \text{Result6}$$

Step8 - Sun Intensity

$$\text{Result8} = \text{It Gets Sun} = (\text{Result7} - \text{Result7 } 10\%)$$

$$\text{Result8} = \text{Sun is Normal} (\text{Result7})$$

$$\text{Result8} = \text{Not Getting Sun} (\text{Result7} + \text{Result7 } 10\%)$$

Step9 – Insulation

$$\text{Result9} = \text{Well Insulated} = (\text{Result7} - \text{Result7 } 10\%)$$

$$\text{Result9} = \text{Normal Insulated} = (\text{Result7})$$

$$\text{Result9} = \text{Poorly Insulated} = (\text{Result7} + \text{Result7 } 10\%)$$

Step10

$$\text{Result10} = \text{Result7} + (\text{Result8}) + (\text{Result9})$$

Step11 - Btu To Be Recommended

$$\text{Result10 BTU}$$

Btu Calculation Example

Features

Aegean Region , office , 4 meters high, 25 square meters, 2 person, 520W the lighting power, not getting sun and Well Insulated.

Step1 - Region Coefficients

$$\text{Aegean: } 423$$

Step2 – Place To Be Used

$$\text{Result2} = \text{Office} = (423 + 423 \% 10) = 465,3$$

Step3 – Height

$$\text{Result3} = (465,3/3) * 4 = 620,4$$

Step4 - Square Meters

$$\text{Result4} = 620,4 * 20 = 12.408$$

Step5 - Number of Persons

$$\text{Result5} = 2 * 600 = 1200$$

Step6 – Lighting Power

Result6 = If the lighting power is over 500W, 3,412 btu/h is added for every 1W.

$$\text{Result6} = (520-500)*3,412 = 68,24$$

Step7

$$\text{Result7} = 12.408 + 1200 + 68,24 = 13.676,24$$

Step8 - Sun Intensity

$$\text{Result8} = \text{Not Getting Sun} (13.676,24 + 13.676,24 \% 10) = +15.043,864$$

Step9 – Insulation

$$\text{Result9} = \text{Well Insulated} = (13.676,24 - 13.676,24 \% 10) = -15.043,864$$

Step10

$$\text{Result10} = 13.676,24 + (+15.043,864) + (-15.043,864)$$

Step11 - Btu To Be Recommended

13.676,24 BTU

Since air conditioners have btu rates of 9000 Btu, 12000 Btu, 18000 Btu, 24000 Btu, 36000 Btu, 48000 Btu, etc., we need to offer 18000 Btu to the buyer.

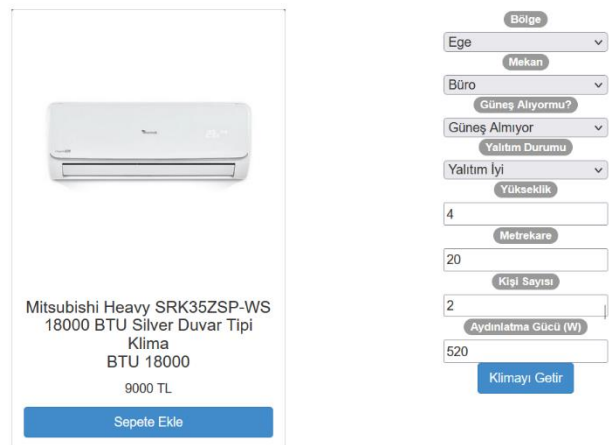


Figure 1. Air conditioner and btu recommended by my site

Site Images

User Panel

The screenshot displays the user panel of the DOLDUR DOLDUR website. At the top, there is a navigation bar with the logo 'DOLDUR DOLDUR' on the left and links for 'Kayıt Ol' (Sign Up) and 'Giriş Yap' (Login) on the right. Below the navigation bar, the page is divided into two main sections: 'Kayıt Ol' (Sign Up) and 'Giriş Yap' (Login). The 'Kayıt Ol' section contains a form with fields for 'İsim' (Name), 'Email', 'Şifre' (Password), 'Şifre (tekrar 8 karakter)' (Repeat Password), 'Telefon Numaranız' (Your Phone Number), 'Şehir' (City), and 'Adresiniz' (Your Address), followed by a 'Kayıt Ol' button. The 'Giriş Yap' section contains a form with fields for 'Email' and 'Şifre', followed by a 'Giriş Yap' button. Below the login form, there is a link 'Hesabın Yok mu? Kayıt Ol'. At the bottom of the page, there is a footer with the text 'Doldur Doldur Klima Tüm Hakları Saklıdır.' (Doldur Doldur Climate All Rights Reserved.)













Figure 2 Sign up and login screen

Ürün Numarası	Ürün Adı	Fiyatı	
1	Bosch B1ZMX12409 Duvar Tipi Inverter Klima 18.000 BTU A++ 1W	10000	Sil
	Toplam Fiyat	10000	Siparişi Tamamla

Satın Alınan Ürün Numarası	Satın Alınan Ürün	Ödenen Fiyat	
1	Mitsubishi SRK50ZS-W Inverter Duvar Tipi Klima	15000	İptal Et


Figure 3 My Cart and My Orders screen

Tüm Ürünler

 <p>Mitsubishi SRK50ZS-W Inverter Duvar Tipi Klima 15.000 TL</p> <p>Sepete Ekle</p>	 <p>Baymak Elegant Prime 12 A++ 12000 BTU Duvar Tipi Inverter Klima 8.000 TL</p> <p>Sepete Ekle</p>	 <p>Bosch B1ZMX12409 Duvar Tipi Inverter Klima 18.000 BTU A++ 1W 10.000 TL</p> <p>Sepete Ekle</p>	 <p>Daikin Shira Plus FTXM50M Limited Edition 18000 BTU/h Inverter Split Duvar Tipi Klima 20.000 TL</p> <p>Sepete Ekle</p>
 <p>Kaira DTXR35E 12000 BTU WiFi A+++ Inverter Duvar Tipi Klima 7000 TL</p> <p>Sepete Ekle</p>	 <p>LG Dual Cool S10ETK S3-W16KL2BA A++ 24000 BTU Inverter Duvar Tipi Klima 9.500 TL</p> <p>Sepete Ekle</p>	 <p>LG Dual Cool S12ETK S3-W12JA2AA A++ 18000 BTU Duvar Tipi Inverter Klima 7.500 TL</p> <p>Sepete Ekle</p>	 <p>Mitsubishi Heavy BTU SRK25ZSP-W 12000 Btu/h Inverter Duvar Tipi Klima 8.000 TL</p> <p>Sepete Ekle</p>
 <p>Mitsubishi Heavy SRK35ZSP-WS 9000 BTU Silver Duvar Tipi Klima 10.200 TL</p> <p>Sepete Ekle</p>	 <p>Mitsubishi Heavy SRK35ZSP-WS 18000 BTU Silver Duvar Tipi Klima 9000 TL</p> <p>Sepete Ekle</p>	 <p>Vessen VTXN25B 9000 BTU Dc A++ Duvar Tipi Inverter Klima 5.500 TL</p> <p>Sepete Ekle</p>	 <p>Vestel Flora Doğa Inverter 242 A++ WiFi 24000 BTU Duvar Tipi Klima 11.000 TL</p> <p>Sepete Ekle</p>

Doldur Doldur Klima Tüm Hakları Saklıdır.

Figure 4 Products Screen



formu doldurun

Form Bekleniyor

Bölge

Akdeniz

Mekan

Ev

Güneş Alıyormu?

Güneş Alıyor

Yalıtım Durumu

Yalıtım İyi

Yükseklik

Örn: 4

Metrekare

Örn: 25

Kişi Sayısı

Örn: 2

Aydınlatma Gücü (W)

Örn: 400

Klimayı Getir

Figure 5 Btu calculation screen

Şifrenizi Sıfırlayın

Şifre Değiştir

Figure 6 Password change screen

Admin Panel

Üyeler




 Kullanıcı id: 20 Kullanıcı Adı: Ahmet Kullanıcı Email: ahmet@gmail.com Kullanıcı Telefon: 00000000000 Kullanıcı Şehir: İstanbul Kullanıcı Adres: İstanbul/beylikduzu	 Kullanıcı id: 21 Kullanıcı Adı: Mustafa Kullanıcı Email: mustafa@gmail.com Kullanıcı Telefon: 00000000000 Kullanıcı Şehir: Ankara Kullanıcı Adres: Ankara/Ulus	 Kullanıcı id: 23 Kullanıcı Adı: eren Kullanıcı Email: eren@gmail.com Kullanıcı Telefon: 5322911632 Kullanıcı Şehir: aydın Kullanıcı Adres: aydın
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Figure 7 Member Information Screen

Alınan Siparişler



 Ürün Adı: Bosch B1ZMX12409 Duvar Tipi Inverter Klima 18.000 BTU A++ 1W Ürün Fiyat: 10000 Alıcı Adı: Mustafa Alıcı Email: mustafa@gmail.com Alıcı Telefon: 00000000000 Alıcı Şehir: Ankara	 Ürün Adı: Mitsubishi SRK50ZS-W Inverter Duvar Tipi Klima Ürün Fiyat: 15000 Alıcı Adı: eren Alıcı Email: eren@gmail.com Alıcı Telefon: 5322911632 Alıcı Şehir: aydın Alıcı Adres: aydın
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Figure 8 Received orders screen

Database















					id	name	email	password	contact	city	address		
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	admin	admin@gmail.com	224cf2b695a5e8ecaecfb9015161fa4b	0000000000	admin	admin
<input type="checkbox"/>		Düzenle		Kopyala		Sil	20	Ahmet	ahmet@gmail.com	224cf2b695a5e8ecaecfb9015161fa4b	0000000000	istanbul	istanbul/beylikduzu
<input type="checkbox"/>		Düzenle		Kopyala		Sil	21	Mustafa	mustafa@gmail.com	224cf2b695a5e8ecaecfb9015161fa4b	0000000000	Ankara	Ankara/Ulus
<input type="checkbox"/>		Düzenle		Kopyala		Sil	23	eren	eren@gmail.com	224cf2b695a5e8ecaecfb9015161fa4b	5322911632	aydin	aydin

Figure 9 Members registered in the database

Seenekler

					id	name	price	BTU		
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	Mitsubishi SRK50ZS-W Inverter Duvar Tipi Klima	15000	9000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	Baymak Elegant Prime 12 A++ 12000 BTU Duvar Tipi I...	8000	12000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	Bosch B1ZMX12409 Duvar Tipi Inverter Klima 18.000 ...	10000	18000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	Daikin Shira Plus FTXM50M Limited Edition 18000 BT...	20000	18000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	Kaira DTXR35E 12000 BTU WiFi A++ Inverter Duvar Ti...	7000	12000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	LG Dual Cool S18ETK S3-W18KL2BA A++ 24000 BTU Inve...	9500	24000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	7	LG Dual Cool S12ETK S3-W12JA2AA A++ 18000 BTU Duva...	7500	18000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	8	Mitsubishi Heavy SRK25ZSP-W 12000 Btu/h Inverter D...	8000	12000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	9	Mitsubishi Heavy SRK35ZSP-WS 9000 BTU Silver Duvar...	10200	9000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	10	Mitsubishi Heavy SRK35ZSP-WS 18000 BTU Silver Duva...	9000	18000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	11	Vessen VTXN25B 9000 BTU Dc A++ Duvar Tipi Inverter...	5500	9000
<input type="checkbox"/>		Düzenle		Kopyala		Sil	12	Vestel Flora Do?a Inverter 242 A++ WIFI 24000 BTU ...	11000	24000

Figure 10 Air conditioners registered in the database

<input type="checkbox"/>		Düzenle		Kopyala		Sil	629	21	3	Confirmed
<input type="checkbox"/>		Düzenle		Kopyala		Sil	643	23	1	Confirmed
<input type="checkbox"/>		Düzenle		Kopyala		Sil	644	23	3	Added to cart

Figure 11 Purchased products registered in the database and added to the cart