

BUZÇELİK

THERMIC EQUIPMENTS INDUSTRY

**ENDÜSTRİYEL TİP
KONDENSERLER**
industrial type
condensers

UK
UY
VUK
VUY
SERIES



www.buzcelik.com.tr

Hakkımızda

Buzçelik, Türkiye'de ısı deęiřtiriciler alanında lider üreticilerden biridir.

Farklı teknolojileri içeren bir ürün portföyünün yanı sıra kapsamlı bir destek sunan Buzçelik, gelişmiş makine parkuru, 30.000 m2'nin üzerinde üretim alanı ve verimli iş gücü ile komple tedarik çevrimi için uzman bir çözüm ortağıdır. 1982 yılında kuruluşundan bu yana, üstün kalite ve kusursuz ürün sunmayı ilke edinerek müşterilerinin memnuniyetini sağlamıştır.

Buzçelik, sürdürülebilir bir soğutma endüstrisi için yenilikçi ürünleri ile stratejik hedef temelleri ışığında yenilikler sunmak adına kalitesini dünya çapında geliştirmektedir. Avrupa standartlarında nitelikli ürünler ve imalat konsepti ile uzun vadeli stratejik hedefleri tanımlarken, küresel alanda güçlü bir profil ortaya koyarken, sadece Türkiye'de deęil küresel pazarda da liderlięi hedefleyen oyuncu olma yolunda emin adımlarla ilerlemektedir.

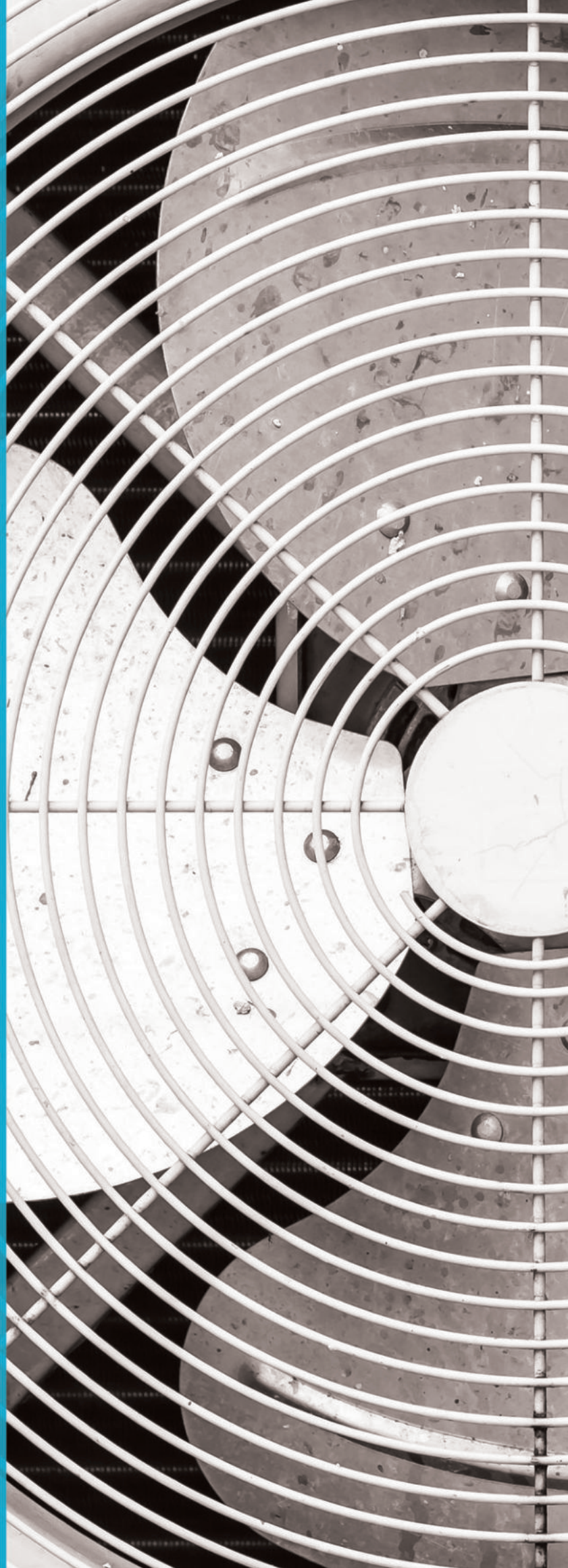
Kuruluşundan bu yana iş ortamıyla uzun vadeli ilişkiler kurmayı temel ilke olarak kabul ederek sektörün önde gelen şirketlerinden biri olmuştur ve kendini sektörde ilerletmek için hayati önlemler almıştır.

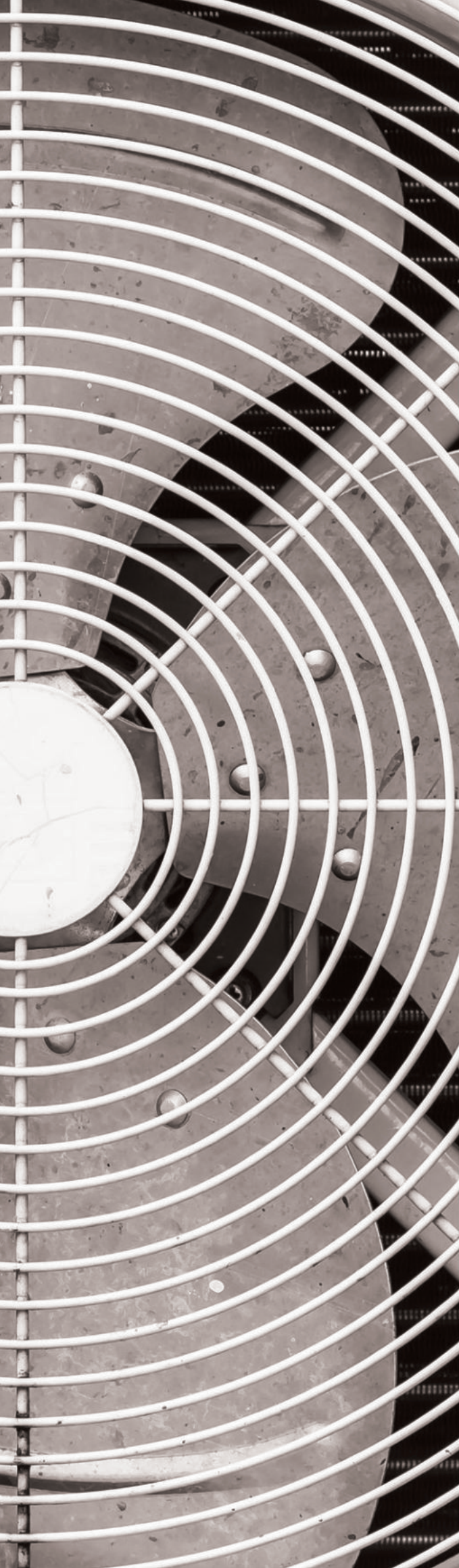
Sektörel koşulları göz önüne alan Buzçelik, bazı önemli özellikleriyle ayrılmaktadır:

- Ar-Ge faaliyetleri sürekli aralıklarla müşteri ihtiyaçlarına göre geliştirilmiş ve genişletilebilir ürün yelpazesini,
- "Profesyonel Yeterlilik" ile birlikte "Makul Maliyet" avantajı sunan fiyat politikası,
- Müşteri gereksinimlerine hızlı cevap veren üretim politikası ve kısa vadede teslimat politikası,
- Müşterilerin ürünleri kolayca görüntüleyebilmelerini ve hem teknik hem de fiyat verilerine ulaşmalarına yardımcı seçim yazılımlarıyla tüm dijital platformları (web, ios, android, masaüstü) destekler.

Standartların belgelendirilmesi sürecinde Buzçelik, rekabetçi bir organizasyon olarak etkin işgücü, müşteriler, bayi-ler ve tedarikçilerle bu hedeflere ulaşmak için çalışır. Buzçelik'in büyümesinin temeli, yenilikçi gücüne bağlıdır ve ana hedefi beklentileri aşarak müşteri memnuniyetini artırmaktır. Buzçelik, müşterilerinin karşılaştığı zorlukları, destek altyapısı kapsamında en doğru çözümü bulana kadar tutku ve sebatla değerlendirebilir.

Buzçelik, gelecekte de müşterilerine, çalışanlarına, sanayiye, topluma ve çevreye katma deęer sağlamaya devam edecek, uzun vadeli planlamalar ve gerekli yatırımları gerçekleştirerek güven sembolü olmaya devam edecektir. Buzçelik'i sektör için güçlü ve güvenilir bir ortak yapan şey budur.





About Us

Buzcelik is one of the leading manufacturers in the field of heat exchanger in Turkey.

With a product portfolio that includes different technologies, as well as a comprehensive offering in support, Buzcelik is an expert solution partner for the complete procurement cycle with the improved machinery park, over 30.000 m2 production site and efficient labor force. Since its inception in the year 1982, it has provided customers' satisfaction faithfully by offering superior quality and faultless products.

Buzcelik improves quality worldwide to deliver innovations for a sustainable cooling industry in the light of the basis on the strategic objective with its innovative products.

While defining long-term strategic objectives with the qualified products and manufacturing concept in European Standards as putting forth powerful profile in the global arena, it is firmly advancing in line to be player aiming leadership not only in Turkey but also in the global market.

It accepts as a basic principle to establish long-term relationships with the business environment since its establishment and has been one of the leading companies in the industry and has taken vital steps to move forward on its own and the sector.

Considering the sectoral conditions Buzcelik is discriminated from the competitors by some significant specifications:

- Improving and expandable product range according to customer requirements by incessantly R&D activities,
- The price policy that offers "Reasonable Money" advantage along with "Professional Value",
- The manufacturing policy that responds to the customer needs rapidly and realize delivery in short term,
- Supporting all digital platforms (web, ios, android, desktop) software that allow the customers to view the products easily and helps reaching both technical and price data.

Certificating the standards Buzcelik, as a competitive organization, increase the effort to reach to these targets with the effective labor force, customers, dealers and suppliers.

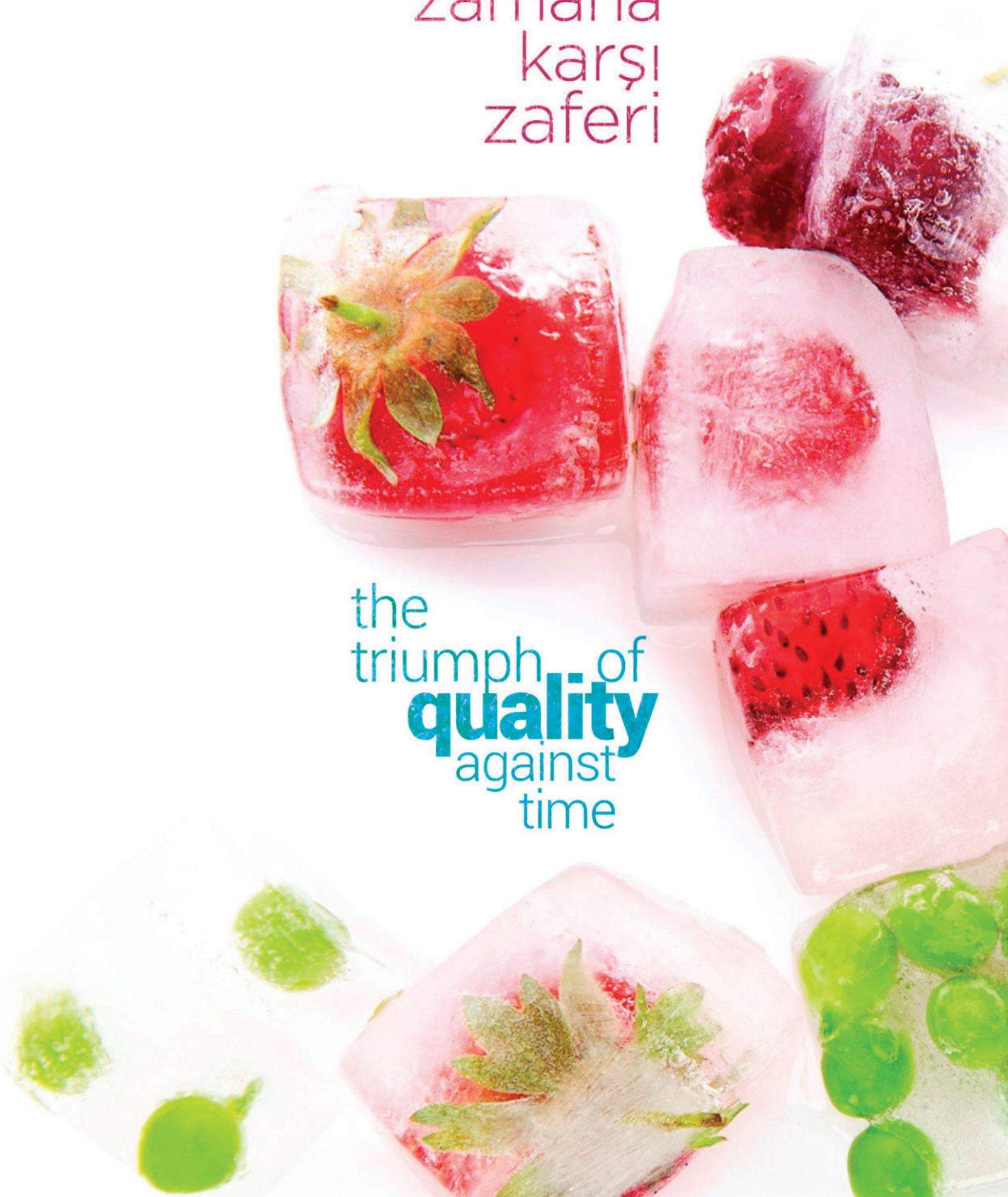
The basis for the Buzcelik's growth depends on its innovative strength and its main goal is to exceed expectations and to improve customer satisfaction. Buzcelik consider its customers' challenges with passion and persistence until the right solution is found on the scope of support infrastructure.

Regardless of the motion task that customers face anywhere in the world, they will always find a Buzcelik solution with the global experience and the appropriate know-how from industry and variety of technologies.

On this continuum Buzcelik will continue to provide value-added for the customers, employees, industry, society and the environment in the coming period and being a symbol of trust by making to plan over the long term and to undertake significant up-front investments in the safeguarding of its future. This is what makes Buzcelik a strong and reliable partner for the industry.

kalitenin
zamana
karşı
zaferi

the
triumph of
quality
against
time



ENDÜSTRİYEL KONDENSERLER

industrial
condensers

UK SERIES
08-13

UY SERIES
14-21

VUK SERIES
22-23

VUY SERIES
24-25



Endüstriyel Kondenser

Industrial Condensers

BATARYA

- Ø3/8", Ø1/2" bakır borulu.
- V-tipi alüminyum lamel.
- Lamel araları 2,1-2,5 mm tasarlanmıştır.
- Giriş – çıkış kolektör malzemesi bakırdır.
- Standart ürünler için izin verilen en yüksek çalışma basıncı Ps=21 Bar.
- Şaşırtmalı boru dizilimi.
- Bataryalarda R404A, R407F, R449A R507C, R22, R134A soğutucu gazlarla çalışmaya uygun tasarım.
- Opsiyonel olarak 1,8mm ile 4mm aralığında farklı hatveler seçeneği.

KASETLEME

- Galvaniz çelik üzerine elektrostatik RAL 7035 boyalıdır.
- Galvanizli Çelik, Paslanmaz Çelik ve Alüminyum levha.
- Fan bölmeleri sac levhalar ile birbirinden ayrılmış ve duran fanların ters dönüş etkisi önlenmiştir.

FAN

- Ø500-Ø630-Ø800 mm / 230V-50Hz-Monofaze 800~1250d/d / 400V-50Hz-Trifaze 650~900d/d fanlar.
- Opsiyonel seçimler Buzçelik Teknik Uzmanı tarafından teyit edilmelidir.
- Standart veya düşük ses seviyeli bakım gerektirmeyen fan seçeneği.
- İsteğe bağlı AC ya da EC fan motor seçenekleri.
- Koruma sınıfı IP54, fan konstrüksiyonu izolasyon malzeme sınıfı F.
- Opsiyonel olarak seçilebilir fan aksesuar çeşitleri (AxiTop Difüzör, FlowGrid gürültü düşürücüler vb.)
- Çalışma aralığı -40°C/+50°C'dir.

KAPASİTE

- Nominal kapasiteler $\Delta T=15^{\circ}\text{C}$ koşulunda R404A gaza göre Eurovent EN 328 standartları dikkate alınarak verilmiştir.

SEÇENEKLER

- Farklı dış kabin rengi,
- Farklı boru et kalınlığı ve hatve,
- Monofaze 220V 1~ 50Hz, Trifaze 400V 3~ 50Hz fan seçeneği.
- Katalogda belirtilmeyen özel ürünler için lütfen satış departmanı ile irtibata geçin.

NOT

- Montaj, Bakım - Taşıma ve Kaldırma detayları için kullanım Kılavuzuna başvurunuz.

AKSESUARLAR

- Paslanmaz çelik kabin,
- Epoxy boya,

Coil

- Ø3/8", Ø1/2" copper tube.
- "V" type aluminum fins.
- The finned coils are designed with aluminum fins spaced at 2,1 or 2,5 mm, crimped onto copper tubes.
- Header inlet and outlet tube connections made of copper.
- Maximum operating pressure 21 bar for standard products.
- Staggered copper tubes.
- The coil circuits are designed for refrigerants R404A, R407F, R449A, R507C, R22, R134A.
- Different fin spacing can be selected as an option for 1,8mm to 4mm.

Casing

- Electrostatic powder coated RAL 7035 galvanized steel.
- Galvanized Steel, Stainless Steel and Aluminum sheet.
- Each fan chamber is separated by internal baffle plates to prevent induced wind milling of off-cycle fans.

Fan

- Ø500-Ø630-Ø800 mm / 230V-50Hz-Monofaze 800~1250d/d / 400V-50Hz-Trifaze 650~900d/d fans.
- Selections should be confirmed by your Buzçelik Technical Specialist.
- Standard or low noise level are available.
- Different kinds of motors available as optional. (EC or AC)
- Motor protection IP54 insulation class F.
- Different kinds of accessories available as optional. (AxiTop Diffuser, FlowGrid etc.)
- Working conditions -40°C/+50°C.

Capacity

- The nominal capacities calculated according to Eurovent EN328 standards that refer to $\Delta T=15^{\circ}\text{C}$ condition and are valid for R404A.

Options

- Different casing color.
- Other tube wall thicknesses and fin spacing on request.
- Mono phase 220V 1~ 50Hz fan or three phase 400V 3~ 50Hz fan.
- Please keep in touch with our sales department about your special needs that are not mentioned in the catalogue.

Note

- Please read "Installation, Operation and Maintenance Instructions" for mounting and maintenance.

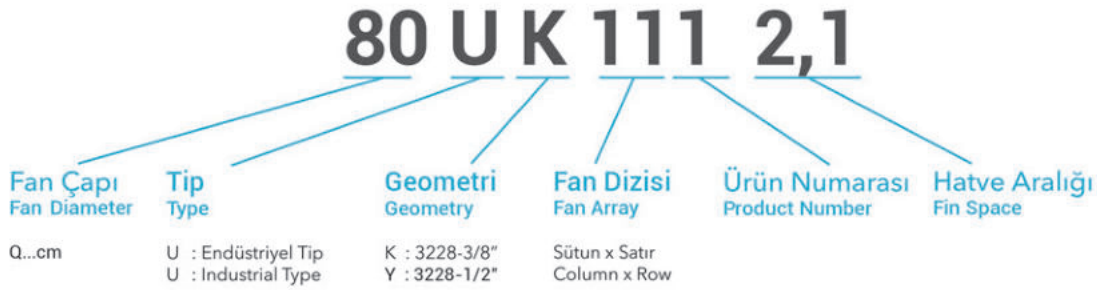
Accessories

- Casing made of stainless steel.
- Epoxy resin coated aluminum fins.

Options As Listed Are Available On Request For Assistance Please Contact Buzçelik Branch



ADLANDIRMA CLASIFICATION



KAPASİTE STANDARTLARI CAPACITY STANDARD

Akışkan : R404A
Hava Giriş Sıcaklığı (Tai) : 25°C
Kondenzasyon Sıcaklığı (Tc) : 40°C
 $\Delta T = T_c - T_{ai} : 40^\circ\text{C} - 25^\circ\text{C} = 15^\circ\text{C}$
Rakım : 0m

KONDENSER SEÇİMİ

Nominal condenser capacity can be calculated by using formulas below.

Formül 1

$$Q_{nk} = [(Q+N) \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

Q_{nk} : Nominal kondenser kapasitesi

Q : Kompresörün soğutma kapasitesi

N : Kompresör motorunun çektiği güç

Q ve N kompresör kataloglarından bulunabilir.

Detaylı bilginin olmadığı durumlarda Formül 2 uygulanır.

Formül 2

$$Q_{nk} = [Q \times f_1 \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

Refrigerant : R404A
Air Inlet Temperature (Tai) : 25°C
Condensation Temperature (Tc) : 40°C
 $\Delta T = T_c - T_{ai} : 40^\circ\text{C} - 25^\circ\text{C} = 15^\circ\text{C}$
Altitude : 0m

KONDENSER SELECTION

Nominal condenser capacity can be calculated by using formulas below.

Formül 1

$$Q_{nk} = [(Q+N) \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

Q_{nk} : Nominal condenser capacity

Q : Refrigerating capacity of compressor

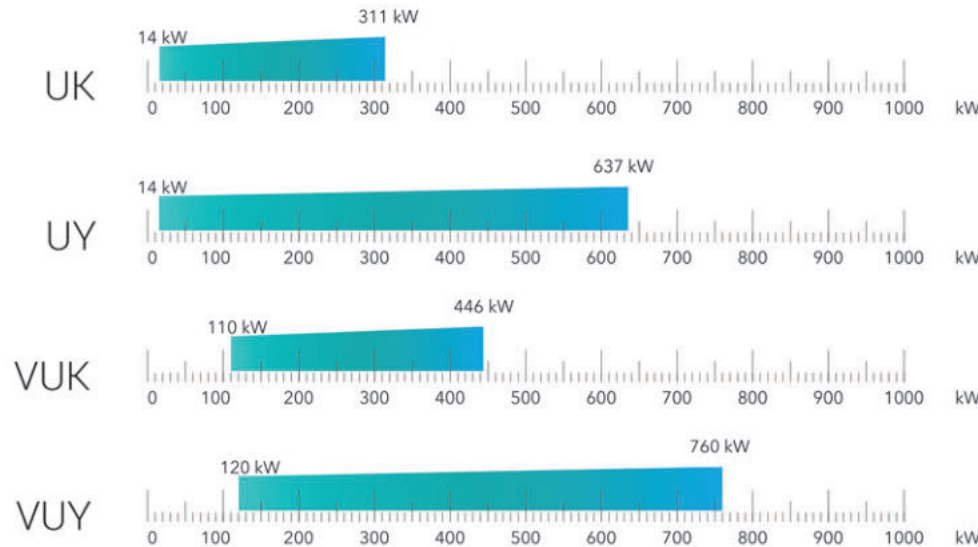
N : Absorbed compressor power

These data can be obtained from the compressor catalogues. If absorbed compressor power is unknown, please use Formula 2.

Formül 2

$$Q_{nk} = [Q \times f_1 \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

ÜRÜN KAPASİTE ARALIĞI CAPACITY RANGE





Endüstriyel Kondenser Industrial Condensers

(f₁) FAKTÖRÜ / (f₁) FACTOR

Açık Kompresör / Open Compressors							
Evaporasyon Sıcaklığı Evaporation Temperature	Kondenzasyon Sıcaklığı / Condensation Temperature °C						
°C	30	35	40	45	50	55	60
-35	1,36	1,41	1,44	-	-	-	-
-30	1,31	1,36	1,40	1,44	-	-	-
-25	1,27	1,32	1,36	1,41	1,45	-	-
-20	1,24	1,28	1,31	1,35	1,39	1,44	-
-15	1,20	1,24	1,27	1,31	1,35	1,39	1,44
-10	1,18	1,21	1,24	1,27	1,31	1,35	1,40
-5	1,15	1,18	1,21	1,24	1,27	1,31	1,36
0	1,13	1,15	1,18	1,21	1,24	1,27	1,31
5	1,10	1,13	1,15	1,18	1,21	1,24	1,28
10	1,08	1,11	1,13	1,15	1,17	1,21	1,24

Hermetik ve Yarı-Hermetik Kompresör Hermetic and Semi-Hermetic Compressors							
Evaporasyon Sıcaklığı Evaporation Temperature °C	Kondenzasyon Sıcaklığı Condensation Temperature °C						
	30	35	40	45	50	55	60
-40	1,64	1,69	1,76	1,86	2,03	-	-
-35	1,56	1,61	1,66	1,73	1,83	-	-
-30	1,48	1,53	1,57	1,62	1,69	-	-
-25	1,42	1,46	1,5	1,54	1,6	1,68	-
-20	1,37	1,4	1,44	1,48	1,53	1,6	-
-15	1,32	1,35	1,38	1,43	1,48	1,53	1,58
-10	1,28	1,31	1,34	1,37	1,42	1,46	1,52
-5	1,23	1,26	1,29	1,33	1,37	1,41	1,45
0	1,2	1,22	1,25	1,28	1,32	1,36	1,39
5	1,16	1,19	1,21	1,24	1,28	1,31	1,34
10	1,13	1,15	1,18	1,21	1,23	1,26	1,29

(f₂) FAKTÖRÜ / (f₂) Factor = 15/T₁

(f₃) FAKTÖRÜ / (f₃) Factor

Hava Giriş Sıcaklığı Faktörü / Air Inlet Temperature Factor								
T(°C)	15	20	25	30	35	40	45	50
f ₃	0,97	0,98	1	1,02	1,04	1,06	1,08	1,1

(f₄) FAKTÖRÜ / (f₄) FACTOR

Soğutucu Akışkan Faktörü / Refrigerant Factor					
R	R134A	R22	R404A/R507	R407A	R407C
f ₄	0,93	0,96	1	0,83	0,87



(f₅) FAKTÖRÜ / (f₅) FACTOR

Rakım Faktörü / Altitude Factor							
H (m)	0	500	1000	1500	2000	2500	3000
f ₅	1	1,04	1,07	1,11	1,16	1,21	1,25

(f₆) FAKTÖRÜ / (f₆) FACTOR

Lamel Malzemesi	Alüminyum	Kaplı Alüminyum	Bakır
Fin Material	Aluminum	Coated Aluminum	Copper
f ₆	1	0,97	1,03

Tablo-4 Lamel Malzemesi için Düzeltme Faktörleri

Table-4 Fin Material Correction Factors			
Lamel Malzemesi	Alüminyum	Kaplı Alüminyum	Bakır
Fin Material	Aluminum	Coated Alumnium	Copper
K ₃	1	0,97	1,03

KONDENSER ÜNİTESİ SEÇİMİ

Nominal condenser kapasitesi aşağıdaki formüller vasıtası ile hesaplanabilir.

Formül 1

$$Q_{nk} = [(Q+N) \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

Q_{nk} : Nominal kondenser kapasitesi

Q : Kompresörün soğutma kapasitesi

N : Kompresör motorunun çektiği güç

Q ve N kompresör kataloglarından bulunabilir.

Detaylı bilginin olmadığı durumlarda Formül 2 uygulanır.

Formül 2

$$Q_{nk} = [Q \times f_1 \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

CONDENSING UNIT SELECTION

Nominal condenser capacity can be calculated by using formulas below.

Formula 1

$$Q_{nk} = [(Q+N) \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

Q_{nk} : Nominal condenser capacity

Q : Refrigerating capacity of compressor

N : Absorbed compressor power

These data can be obtained from the compressor catalogues. If absorbed compressor power is unknown, please use Formula 2.

Formula 2

$$Q_{nk} = [Q \times f_1 \times f_2 \times f_3 \times f_5] / (f_4 \times f_6)$$

ÖRNEK SEÇİM / SELECTION EXAMPLE	
Kompresörün soğutma kapasitesi / Refrigerating Capacity of Compressor	55.800.Watt/h
Kompresör Motorunun Çektiği Güç / Absorbed Compressor Power	17.200.Watt/h
Kompresör Tipi / Compressor type	Semi-Hermetic
Evaporasyon Sıcaklığı / Evaporation Temperature	-10°C
Hava Giriş Sıcaklığı / Air Inlet Temperature	+30°C
Kondenzasyon Sıcaklığı / Condensation Temperature	+40°C
Rakım / Altitude	1000m
Soğutucu Akışkan / Refrigerant	R404A
Lamel Malzemesi / Fin Material	Aluminum
f ₂ =1,5 / f ₃ = 1,02 / f ₄ =1 / f ₅ =1,07 / f ₆ =1	119.500.Watt/h
Seçilen Kondenser / Selected Condenser	50UK322 2,5 (121 Kw)



UK SERİSİ
UK SERIES

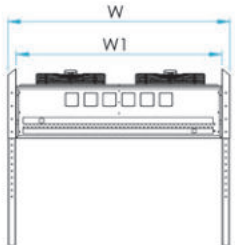
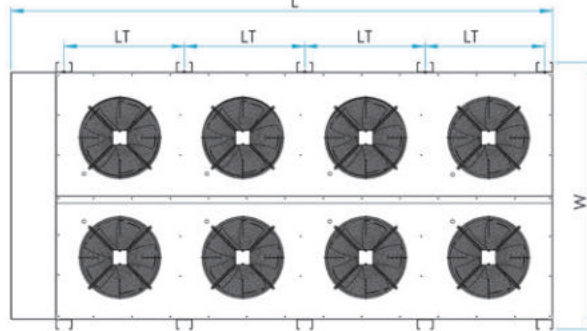
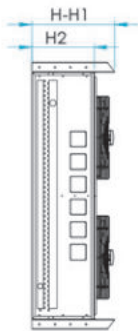
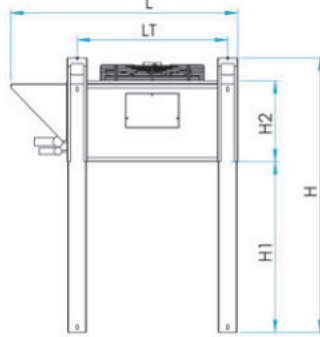
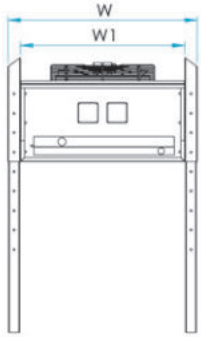
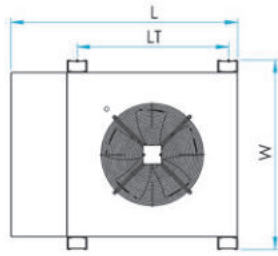
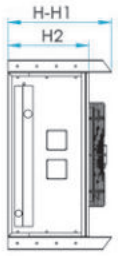
TEKNİK BİLGİLER

Technical Information

Bakır Boru / Copper Tube : 3/8"
Kalıp / Geometry : 32 mm x 28 mm
Hatve / Fin Spacing : 2,1 mm - 2,5 mm

Belirtilen kapasiteler EBM, Ziehl - Abegg ve muadili fanlara göre hesaplanmıştır.

Capacities are calculated according to EBM or Ziehl-Abegg or equivalent brand fans.





Bakır Boru / Copper Tube 3/8"

Kalıp / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 1/ 230V AC 50Hz 1400 rpm	L 3/ 400V AC 50Hz 900 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 1400 rpm	L Hava Debisi Air Flow 3/ 400V AC 900 rpm
			kW	kW			m ³ /h	m ³ /h
50UK111 2,5	39,30	3,5	17	12	1	500	7.881	4.744
50UK111 2,1	46,46	3,5	19	14		500	7.698	4.632
50UK112 2,5	52,41	4,7	21	15		500	7.370	4.445
50UK112 2,1	61,95	4,7	22	16		500	7.161	4.333
50UK211 2,5	78,60	7,0	35	26	2	500	15.760	9.488
50UK121 2,5	78,60	7,0	35	26		500	15.762	9.488
50UK211 2,1	92,92	7,0	38	28		500	15.395	9.264
50UK121 2,1	92,92	7,0	38	28		500	15.500	9.500
50UK122 2,5	104,82	9,4	41	30		500	14.741	8.891
50UK212 2,5	104,82	9,4	42	30		500	14.741	8.872
50UK122 2,1	123,90	9,4	43	30		500	14.040	8.350
50UK212 2,1	123,90	9,4	44	31		500	14.322	8.666
50UK311 2,5	117,90	10,5	53	39	3	500	23.643	14.232
50UK311 2,1	139,38	10,5	58	42		500	23.100	16.110
50UK312 2,5	157,23	14,1	61	44		500	22.131	13.335
50UK312 2,1	185,85	14,1	65	46		500	21.484	13.000

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
50UK111 2,5	120	141	101	80	--	85	43	88	1	22	19
50UK111 2,1	120	141	101	80	--	85	43	88	1	22	19
50UK112 2,5	120	141	101	80	--	85	43	88	1	22	19
50UK112 2,1	120	141	101	80	--	85	43	88	1	22	19
50UK211 2,5	200	141	101	--	160	85	43	88	1	35	28
50UK121 2,5	120	141	178	80	--	85	43	165	1	35	28
50UK211 2,1	200	141	101	--	160	85	43	88	1	35	28
50UK121 2,1	120	141	178	80	--	85	43	165	1	35	28
50UK122 2,5	120	141	178	80	--	85	43	165	1	35	28
50UK212 2,5	200	141	101	--	160	85	43	88	1	35	28
50UK122 2,1	120	141	178	80	--	85	43	165	1	42	35
50UK212 2,1	200	141	101	--	160	85	43	88	1	35	28
50UK311 2,5	280	141	101	80	--	85	43	88	1	42	35
50UK311 2,1	280	141	101	80	--	85	43	88	1	42	35
50UK312 2,5	280	141	101	80	--	85	43	88	1	54	42
50UK312 2,1	280	141	101	80	--	85	43	88	1	54	42

50 UK SERİSİ 50 UK SERIES

Bakır Boru / Copper Tube 3/8"

Kalıp / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 1/ 230V AC 50Hz 1400 rpm	L 3/ 400V AC 50Hz 900 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 1400 rpm	L Hava Debisi Air Flow 3/ 400V AC 900 rpm
			kW	kW			m³/h	m³/h
50UK411 2,5	157,20	14,0	71	52	4 	500	31.524	18.976
50UK221 2,5	157,20	14,0	71	52		500	31.524	18.976
50UK411 2,1	185,84	14,0	77	56		500	30.791	19.000
50UK221 2,1	185,84	14,0	77	56		500	31.000	18.528
50UK412 2,5	209,64	18,8	83	60		500	29.483	18.000
50UK222 2,5	209,64	18,8	83	59		500	29.483	17.744
50UK222 2,1	247,80	18,8	88	62		500	28.650	17.000
50UK412 2,1	247,80	18,8	89	62		500	29.000	17.000
50UK321 2,5	235,80	21,0	106	78	6 	500	47.286	28.464
50UK321 2,1	278,76	21,0	115	83		500	46.187	27.800
50UK322 2,5	314,46	28,2	123	87		500	44.264	26.671
50UK322 2,1	371,70	28,2	131	92		500	43.000	26.000
50UK421 2,5	314,40	28,0	144	106	8 	500	63.000	38.000
50UK421 2,1	371,68	28,0	157	113		500	51.590	37.000
50UK422 2,5	419,28	37,6	167	119		500	59.000	35.487
50UK422 2,1	495,60	37,6	177	125		500	57.200	35.000

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
50UK411 2,5	360	141	101	80	--	85	43	88	1	42	35
50UK221 2,5	200	141	178	--	160	85	43	165	1	42	35
50UK411 2,1	360	141	101	80	--	85	43	88	1	42	35
50UK221 2,1	200	141	178	--	160	85	43	165	1	42	35
50UK412 2,5	360	141	101	80	--	85	43	88	1	54	42
50UK222 2,5	200	141	178	--	160	85	43	165	1	54	42
50UK222 2,1	200	141	178	--	160	85	43	165	1	54	42
50UK412 2,1	360	141	101	80	--	85	43	88	1	54	42
50UK321 2,5	280	141	178	80	--	85	43	165	2	54	42
50UK321 2,1	280	141	178	80	--	85	43	165	2	54	42
50UK322 2,5	280	141	178	80	--	85	43	165	2	64	54
50UK322 2,1	280	141	178	80	--	85	43	165	2	64	54
50UK421 2,5	360	141	178	80	--	85	43	165	2	66	54
50UK421 2,1	360	141	178	80	--	85	43	165	2	66	54
50UK422 2,5	360	141	178	80	--	85	43	165	2	80	64
50UK422 2,1	360	141	178	80	--	85	43	165	2	66	54



Bakır Boru / Copper Tube

3/8"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 1/ 230V AC 50Hz 880 rpm	L 3/ 400V AC 50Hz 620 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 880 rpm	L Hava Debisi Air Flow 3/ 400V AC 620 rpm
			kW	kW			m³/h	m³/h
63UK111 2,5	57,32	5,1	22	18	1	630	9.170	6.820
63UK111 2,1	67,76	5,1	24	20		630	9.000	6.680
63UK112 2,5	76,42	6,9	26	21		630	8.680	6.410
63UK112 2,1	90,34	6,9	27	22		630	8.460	6.230
63UK211 2,5	114,64	10,2	45	37	2	630	18.340	13.650
63UK121 2,5	114,64	10,2	45	37		630	18.340	13.650
63UK211 2,1	135,52	10,2	49	40		630	18.010	13.360
63UK121 2,1	135,52	10,2	49	40		630	18.010	13.360
63UK212 2,5	152,84	13,8	52	42		630	17.360	12.830
63UK122 2,5	152,84	13,8	52	42		630	17.360	12.830
63UK212 2,1	180,68	13,8	55	45		630	16.920	12.470
63UK122 2,1	180,68	13,8	55	45		630	16.920	12.470
63UK311 2,5	171,96	15,3	68	56	3	630	27.510	20.480
63UK311 2,1	203,28	15,3	74	61		630	27.010	20.050
63UK312 2,5	229,26	20,7	79	64		630	26.040	19.240
63UK312 2,1	271,02	20,7	83	67		630	25.380	18.700

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
63UK111 2,5	140	141	114	100	--	85	43	101	1	22	19
63UK111 2,1	140	141	114	100	--	85	43	101	1	22	19
63UK112 2,5	140	141	114	100	--	85	43	101	1	28	22
63UK112 2,1	140	141	114	100	--	85	43	101	1	28	22
63UK211 2,5	240	141	114	--	200	85	43	101	1	35	28
63UK121 2,5	140	141	203	100	--	85	43	190	1	35	28
63UK211 2,1	240	141	114	--	200	85	43	101	1	35	28
63UK121 2,1	140	141	203	100	--	85	43	190	1	35	28
63UK212 2,5	240	141	114	--	200	85	43	101	1	35	28
63UK122 2,5	140	141	203	100	--	85	43	190	1	35	28
63UK212 2,1	240	141	114	--	200	85	43	101	1	35	28
63UK122 2,1	140	141	203	100	--	85	43	190	1	35	28
63UK311 2,5	340	141	114	100	--	85	43	101	1	42	35
63UK311 2,1	340	141	114	100	--	85	43	101	1	42	35
63UK312 2,5	340	141	114	100	--	85	43	101	1	42	35
63UK312 2,1	340	141	114	100	--	85	43	101	1	42	35



63 UK SERİSİ

63 UK SERIES

Bakır Boru / Copper Tube 3/8"

Kalip / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 1/ 230V AC 50Hz 880 rpm	L 3/ 400V AC 50Hz 620 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 880 rpm	L Hava Debisi Air Flow 3/ 400V AC 620 rpm
			kW	kW			m³/h	m³/h
63UK411 2,5	229,28	20,4	91	75	4 	630	36.690	27.310
63UK221 2,5	229,28	20,4	91	75		630	36.690	27.310
63UK411 2,1	271,04	20,4	98	81		630	36.020	26.730
63UK221 2,1	271,04	20,4	98	81		630	36.020	26.730
63UK412 2,5	305,68	27,6	105	85		630	34.720	25.660
63UK222 2,5	305,68	27,6	105	85		630	34.720	25.660
63UK412 2,1	361,36	27,6	111	90		630	33.850	24.940
63UK222 2,1	361,36	27,6	111	90		630	33.850	24.940
63UK321 2,5	343,92	30,6	136	113	6 	630	55.030	40.960
63UK321 2,1	406,56	30,6	148	122		630	54.030	40.100
63UK322 2,5	458,52	41,4	158	128		630	52.090	38.490
63UK322 2,1	542,04	41,4	167	135		630	50.770	37.410
63UK421 2,5	458,56	40,8	182	151	8 	630	73.380	54.620
63UK421 2,1	542,08	40,8	197	163		630	72.040	53.470
63UK422 2,5	611,36	55,2	210	171		630	69.450	51.320
63UK422 2,1	722,72	55,2	222	180		630	67.700	49.880

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
63UK411 2,5	440	141	114	100	--	85	43	101	1	54	42
63UK221 2,5	240	141	203	--	200	85	43	190	1	54	42
63UK411 2,1	440	141	114	100	--	85	43	101	1	54	42
63UK221 2,1	240	141	203	--	200	85	43	190	1	54	42
63UK412 2,5	440	141	114	100	--	85	43	101	1	54	42
63UK222 2,5	240	141	203	--	200	85	43	190	1	54	42
63UK412 2,1	440	141	114	100	--	85	43	101	1	54	42
63UK222 2,1	240	141	203	--	200	85	43	190	1	54	42
63UK321 2,5	340	141	203	100	--	85	43	190	2	66	54
63UK321 2,1	340	141	203	100	--	85	43	190	2	66	54
63UK322 2,5	340	141	203	100	--	85	43	190	2	66	54
63UK322 2,1	340	141	203	100	--	85	43	190	2	66	54
63UK421 2,5	440	141	203	100	--	85	43	190	2	66	54
63UK421 2,1	440	141	203	100	--	85	43	190	2	66	54
63UK422 2,5	440	141	203	100	--	85	43	190	2	66	54
63UK422 2,1	440	141	203	100	--	85	43	190	2	66	54



Bakır Boru / Copper Tube

3/8"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 3/ 400V AC 50Hz 880 rpm	L 3/ 400V AC 50Hz 670 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 3/ 400V AC 880 rpm	L Hava Debisi Air Flow 3/ 400V AC 670 rpm
			kW	kW			m ³ /h	m ³ /h
80UK111 2,5	83,52	7,5	40	35	1	800	19.980	15.330
80UK111 2,1	98,73	7,5	44	38		800	19.450	14.950
80UK112 2,5	111,36	10,0	48	41		800	18.460	14.250
80UK112 2,1	131,64	10,0	51	43		800	17.850	13.810
80UK211 2,5	167,04	15,0	81	70	2	800	39.970	30.670
80UK121 2,5	167,04	15,0	81	70		800	39.970	30.670
80UK211 2,1	197,46	15,0	89	76		800	38.910	29.910
80UK121 2,1	197,46	15,0	89	76		800	38.910	29.910
80UK212 2,5	222,72	20,0	97	82		800	36.930	28.500
80UK122 2,5	222,72	20,0	97	82		800	36.930	28.500
80UK212 2,1	263,28	20,0	103	87	3	800	35.710	27.620
80UK122 2,1	263,28	20,0	103	87		800	35.710	27.620
80UK311 2,5	250,56	22,5	122	105		800	59.950	46.010
80UK311 2,1	296,19	22,5	134	114		800	58.370	44.860
80UK312 2,5	334,08	30,0	146	124	4	800	55.400	42.750
80UK312 2,1	394,92	30,0	155	131		800	53.560	41.430
80UK221 2,5	334,08	30,0	163	140		800	79.940	61.350
80UK221 2,1	394,92	30,0	178	152		800	77.830	59.820
80UK222 2,5	445,44	40,0	194	165	6	800	73.860	57.000
80UK222 2,1	526,56	40,0	207	175		800	71.420	55.240
80UK321 2,5	501,12	45,0	245	211		800	119.910	92.020
80UK321 2,1	592,38	45,0	268	229		800	116.740	89.730
80UK322 2,5	668,16	60,0	292	248	6	800	110.800	85.500
80UK322 2,1	789,84	60,0	311	263		800	107.130	82.860

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
80UK111 2,5	160	141	133	120	--	85	43	120	1	35	28
80UK111 2,1	160	141	133	120	--	85	43	120	1	35	28
80UK112 2,5	160	141	133	120	--	85	43	120	1	35	28
80UK112 2,1	160	141	133	120	--	85	43	120	1	35	28
80UK211 2,5	280	141	133	--	240	85	43	120	1	42	35
80UK121 2,5	160	141	242	120	--	85	43	229	1	35	28
80UK211 2,1	280	141	133	--	240	85	43	120	1	42	35
80UK121 2,1	160	141	242	120	--	85	43	229	1	35	28
80UK212 2,5	280	141	133	--	240	85	43	120	1	42	35
80UK122 2,5	160	141	242	120	--	85	43	229	1	35	28
80UK212 2,1	280	141	133	--	240	85	43	120	1	42	35
80UK122 2,1	160	141	242	120	--	85	43	229	1	35	28
80UK311 2,5	400	141	133	120	--	85	43	120	1	64	54
80UK311 2,1	400	141	133	120	--	85	43	120	1	64	54
80UK312 2,5	400	141	133	120	--	85	43	120	1	64	54
80UK312 2,1	400	141	133	120	--	85	43	120	1	64	54
80UK221 2,5	280	141	242	--	240	85	43	229	1	64	54
80UK221 2,1	280	141	242	--	240	85	43	229	1	64	54
80UK222 2,5	280	141	242	--	240	85	43	229	1	64	54
80UK222 2,1	280	141	242	--	240	85	43	229	1	64	54
80UK321 2,5	400	141	242	120	--	85	43	229	2	80	64
80UK321 2,1	400	141	242	120	--	85	43	229	2	80	64
80UK322 2,5	400	141	242	120	--	85	43	229	2	80	64
80UK322 2,1	400	141	242	120	--	85	43	229	2	80	64



UY SERİSİ UY SERIES

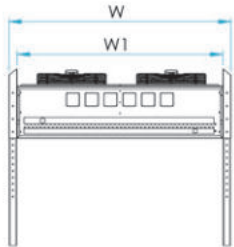
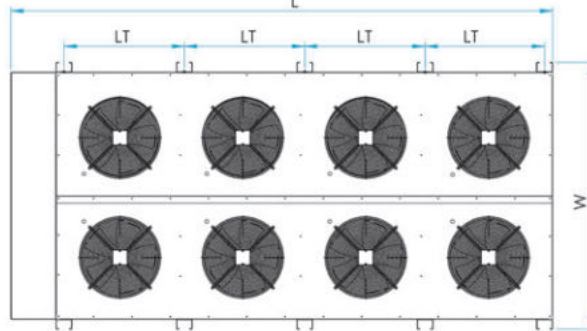
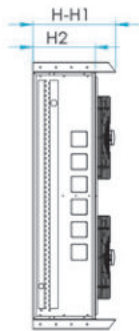
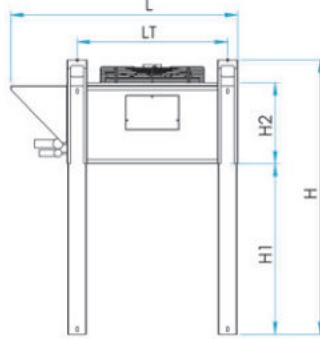
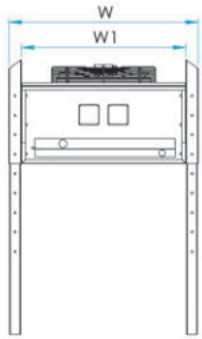
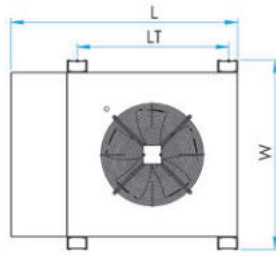
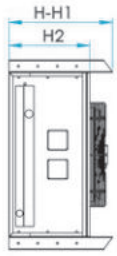
TEKNİK BİLGİLER

Technical Information

Bakır Boru / Copper Tube	: 1/2"
Kalıp / Geometry	: 32 mm x 28 mm
Hatve / Fin Spacing	: 2,1 mm - 2,5 mm

Belirtilen kapasiteler EBM, Ziehl - Abegg ve muadili fanlara göre hesaplanmıştır.

Capacities are calculated according to EBM or Ziehl-Abegg or equivalent brand fans.





Bakır Boru / Copper Tube

1/2"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 1/ 230V AC 50Hz 1400 rpm	L 3/ 400V AC 50Hz 900 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 1400 rpm	L Hava Debisi Air Flow 3/ 400V AC 900 rpm
			kW	kW			m ³ /h	m ³ /h
50UY111 2,5	37,75	6,5	18,38	14,80	1	500	7.210	5.180
50UY111 2,1	44,50	6,5	19,79	15,79		500	7.040	5.050
50UY112 2,5	50,33	8,7	21,09	16,67		500	6.700	4.810
50UY112 2,1	59,33	8,7	22,11	17,34		500	6.480	4.660
50UY211 2,5	75,50	13,0	36,76	29,60	2	500	14.420	10.360
50UY121 2,5	75,50	13,0	36,76	29,60		500	14.420	10.360
50UY211 2,1	89,00	13,0	39,58	31,58		500	14.080	10.100
50UY121 2,1	89,00	13,0	39,58	31,58		500	14.080	10.100
50UY212 2,5	100,66	17,4	42,18	33,34		500	13.400	9.620
50UY122 2,5	100,66	17,4	42,18	33,34		500	13.400	9.620
50UY212 2,1	118,66	17,4	44,22	34,68		500	12.960	9.320
50UY122 2,1	118,66	17,4	44,22	34,68		500	12.960	9.320
50UY311 2,5	113,25	19,5	55,14	44,40	3	500	21.630	15.540
50UY311 2,1	133,50	19,5	59,37	47,37		500	21.120	15.150
50UY312 2,5	150,99	26,1	63,27	50,01		500	20.100	14.430
50UY312 2,1	177,99	26,1	66,33	52,02		500	19.440	13.980

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
50UY111 2,5	120	141	101	80	--	85	43	88	1	22	19
50UY111 2,1	120	141	101	80	--	85	43	88	1	22	19
50UY112 2,5	120	141	101	80	--	85	43	88	1	22	19
50UY112 2,1	120	141	101	80	--	85	43	88	1	22	19
50UY211 2,5	200	141	101	--	160	85	43	88	1	35	28
50UY121 2,5	120	141	178	80	--	85	43	165	1	35	28
50UY211 2,1	200	141	101	--	160	85	43	88	1	35	28
50UY121 2,1	120	141	178	80	--	85	43	165	1	35	28
50UY212 2,5	200	141	101	--	160	85	43	88	1	35	28
50UY122 2,5	120	141	178	80	--	85	43	165	1	35	28
50UY212 2,1	200	141	101	--	160	85	43	88	1	35	28
50UY122 2,1	120	141	178	80	--	85	43	165	1	35	28
50UY311 2,5	280	141	101	80	--	85	43	88	1	42	35
50UY311 2,1	280	141	101	80	--	85	43	88	1	42	35
50UY312 2,5	280	141	101	80	--	85	43	88	1	42	35
50UY312 2,1	280	141	101	80	--	85	43	88	1	42	35



50 UY SERİSİ

50 UY SERIES

Bakır Boru / Copper Tube 1/2"

Kalip / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ\text{C}$		Fanlar Fans			
			S 1/ 230V AC 50Hz 1400 rpm	L 3/ 400V AC 50Hz 900 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 1400 rpm	L Hava Debisi Air Flow 3/ 400V AC 900 rpm
			kW	kW			m ³ /h	m ³ /h
50UY411 2,5	151,00	26,0	73,52	59,20	4 	500	28.840	20.720
50UY221 2,5	151,00	26,0	73,52	59,20		500	28.840	20.720
50UY411 2,1	178,00	26,0	79,16	63,16		500	28.160	20.200
50UY221 2,1	178,00	26,0	79,16	63,16		500	28.160	20.200
50UY412 2,5	201,32	34,8	84,36	66,68		500	26.800	19.240
50UY222 2,5	201,32	34,8	84,36	66,68		500	26.800	19.240
50UY412 2,1	237,32	34,8	88,44	69,36		500	25.920	18.640
50UY222 2,1	237,32	34,8	88,44	69,36		500	25.920	18.640
50UY321 2,5	226,50	39,0	110,28	88,80	6 	500	43.260	31.080
50UY321 2,1	267,00	39,0	118,74	94,74		500	42.240	30.300
50UY322 2,5	301,98	52,2	126,54	100,02		500	40.200	28.860
50UY322 2,1	355,98	52,2	132,66	104,04		500	38.880	27.960
50UY421 2,5	302,00	52,0	147,04	118,40	8 	500	57.680	41.440
50UY421 2,1	356,00	52,0	158,32	126,32		500	56.320	40.400
50UY422 2,5	402,64	69,6	168,72	133,36		500	53.600	38.480
50UY422 2,1	474,64	69,6	176,88	138,72		500	51.840	37.280

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
50UY411 2,5	360	141	101	80	--	85	43	88	1	42	35
50UY221 2,5	200	141	178	--	160	85	43	165	1	42	35
50UY411 2,1	360	141	101	80	--	85	43	88	1	42	35
50UY221 2,1	200	141	178	--	160	85	43	165	1	42	35
50UY412 2,5	360	141	101	80	--	85	43	88	1	42	35
50UY222 2,5	200	141	178	--	160	85	43	165	1	42	35
50UY412 2,1	360	141	101	80	--	85	43	88	1	42	35
50UY222 2,1	200	141	178	--	160	85	43	165	1	42	35
50UY321 2,5	280	141	178	80	--	85	43	165	2	54	42
50UY321 2,1	280	141	178	80	--	85	43	165	2	54	42
50UY322 2,5	280	141	178	80	--	85	43	165	2	54	42
50UY322 2,1	280	141	178	80	--	85	43	165	2	54	42
50UY421 2,5	360	141	178	80	--	85	43	165	2	64	54
50UY421 2,1	360	141	178	80	--	85	43	165	2	64	54
50UY422 2,5	360	141	178	80	--	85	43	165	2	64	54
50UY422 2,1	360	141	178	80	--	85	43	165	2	64	54



Bakır Boru / Copper Tube

1/2"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ\text{C}$		Adet Qty	Fanlar Fans		
			S 1/ 230V AC 50Hz 880 rpm	L 3/ 400V AC 50Hz 620 rpm		Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 880 rpm	L Hava Debisi Air Flow 3/ 400V AC 620 rpm
			kW	kW		mm	m³/h	m³/h
63UY111 2,5	55,05	9,5	23,68	19,27		630	8.700	6.430
63UY111 2,1	64,90	9,5	25,36	20,44		630	8.480	6.250
63UY112 2,5	73,40	12,7	27,06	21,55		630	8.110	5.960
63UY112 2,1	86,53	12,7	28,34	22,39		630	7.880	5.800
63UY211 2,5	110,10	19,0	47,36	38,54		630	17.400	12.860
63UY121 2,5	110,10	19,0	47,36	38,54		630	17.400	12.860
63UY211 2,1	129,80	19,0	50,72	40,88		630	16.960	12.500
63UY121 2,1	129,80	19,0	50,72	40,88		630	16.960	12.500
63UY212 2,5	146,80	25,4	54,12	43,10		630	16.220	11.920
63UY122 2,5	146,80	25,4	54,12	43,10		630	16.220	11.920
63UY212 2,1	173,06	25,4	56,68	44,78		630	15.760	11.600
63UY122 2,1	173,06	25,4	56,68	44,78		630	15.760	11.600
63UY311 2,5	165,15	28,5	71,04	57,81		630	26.100	19.290
63UY311 2,1	194,70	28,5	76,08	61,32		630	25.440	18.750
63UY312 2,5	220,20	38,1	81,18	64,65		630	24.330	17.880
63UY312 2,1	259,59	38,1	85,02	67,17		630	23.640	17.400
63UY411 2,5	220,20	38,0	94,72	77,08		630	34.800	25.720
63UY221 2,5	220,20	38,0	94,72	77,08		630	34.800	25.720
63UY411 2,1	259,60	38,0	101,44	81,76		630	33.920	25.000
63UY221 2,1	259,60	38,0	101,44	81,76		630	33.920	25.000
63UY412 2,5	293,60	50,8	108,24	86,20		630	32.440	23.840
63UY222 2,5	293,60	50,8	108,24	86,20		630	32.440	23.840
63UY412 2,1	346,12	50,8	113,36	89,56		630	31.520	23.200
63UY222 2,1	346,12	50,8	113,36	89,56		630	31.520	23.200

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
63UY111 2,5	140	141	114	100	--	85	43	101	1	28	22
63UY111 2,1	140	141	114	100	--	85	43	101	1	28	22
63UY112 2,5	140	141	114	100	--	85	43	101	1	28	22
63UY112 2,1	140	141	114	100	--	85	43	101	1	28	22
63UY211 2,5	240	141	114	--	200	85	43	101	1	35	28
63UY121 2,5	140	141	203	100	--	85	43	190	1	35	28
63UY211 2,1	240	141	114	--	200	85	43	101	1	35	28
63UY121 2,1	140	141	203	100	--	85	43	190	1	35	28
63UY212 2,5	240	141	114	--	200	85	43	101	1	35	28
63UY122 2,5	140	141	203	100	--	85	43	190	1	35	28
63UY212 2,1	240	141	114	--	200	85	43	101	1	35	28
63UY122 2,1	140	141	203	100	--	85	43	190	1	35	28
63UY311 2,5	340	141	114	100	--	85	43	101	1	42	35
63UY311 2,1	340	141	114	100	--	85	43	101	1	42	35
63UY312 2,5	340	141	114	100	--	85	43	101	1	42	35
63UY312 2,1	340	141	114	100	--	85	43	101	1	42	35
63UY411 2,5	440	141	114	100	--	85	43	101	1	54	42
63UY221 2,5	240	141	203	--	200	85	43	190	1	54	42
63UY411 2,1	440	141	114	100	--	85	43	101	1	54	42
63UY221 2,1	240	141	203	--	200	85	43	190	1	54	42
63UY412 2,5	440	141	114	100	--	85	43	101	1	54	42
63UY222 2,5	240	141	203	--	200	85	43	190	1	54	42
63UY412 2,1	440	141	114	100	--	85	43	101	1	54	42
63UY222 2,1	240	141	203	--	200	85	43	190	1	54	42

63 UY SERİSİ 63 UY SERIES

Bakır Boru / Copper Tube 1/2"

Kalıp / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 1/ 230V AC 50Hz 880 rpm	L 3/ 400V AC 50Hz 620 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 880 rpm	L Hava Debisi Air Flow 3/ 400V AC 620 rpm
			kW	kW			m ³ /h	m ³ /h
63UY321 2,5	330,30	57,0	142,08	115,62	6	630	52.200	38.580
63UY321 2,1	389,40	57,0	152,16	122,64		630	50.880	37.500
63UY322 2,5	440,40	76,2	162,36	129,30		630	48.660	35.760
63UY322 2,1	519,18	76,2	170,04	134,34		630	47.280	34.800
63UY421 2,5	440,40	76,0	189,44	154,16	8	630	69.600	51.440
63UY421 2,1	519,20	76,0	202,88	163,52		630	67.840	50.000
63UY422 2,5	587,20	101,6	216,48	172,40		630	64.880	47.680
63UY422 2,1	692,24	101,6	226,72	179,12		630	63.040	46.400
63UY521 2,5	550,50	95,0	236,80	192,70	10	630	87.000	64.300
63UY521 2,1	649,00	95,0	253,60	204,40		630	84.800	62.500
63UY522 2,5	734,00	127,0	270,60	215,50		630	81.100	59.600
63UY522 2,1	865,30	127,0	283,40	223,90		630	78.800	58.000
63UY621 2,5	660,60	114,0	284,16	231,24	12	630	104.400	77.160
63UY621 2,1	778,80	114,0	304,32	245,28		630	101.760	75.000
63UY622 2,5	880,80	152,4	324,72	258,60		630	97.320	71.520
63UY622 2,1	1038,36	152,4	340,08	268,68		630	94.560	69.600

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
63UY321 2,5	340	141	203	100	--	85	43	190	2	64	54
63UY321 2,1	340	141	203	100	--	85	43	190	2	64	54
63UY322 2,5	340	141	203	100	--	85	43	190	2	64	54
63UY322 2,1	340	141	203	100	--	85	43	190	2	64	54
63UY421 2,5	440	141	203	100	--	85	43	190	2	64	54
63UY421 2,1	440	141	203	100	--	85	43	190	2	64	54
63UY422 2,5	440	141	203	100	--	85	43	190	2	64	54
63UY422 2,1	440	141	203	100	--	85	43	190	2	64	54
63UY521 2,5	540	141	203	100	--	85	43	190	2	80	64
63UY521 2,1	540	141	203	100	--	85	43	190	2	80	64
63UY522 2,5	540	141	203	100	--	85	43	190	2	80	64
63UY522 2,1	540	141	203	100	--	85	43	190	2	80	64
63UY621 2,5	640	141	203	100	--	85	43	190	2	80	64
63UY621 2,1	640	141	203	100	--	85	43	190	2	80	64
63UY622 2,5	640	141	203	100	--	85	43	190	2	80	64
63UY622 2,1	640	141	203	100	--	85	43	190	2	80	64



Bakır Boru / Copper Tube

1/2"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S	L	Adet Qty	Çap Diameter	S	L
			3/ 400V AC 50Hz 880 rpm	3/ 400V AC 50Hz 670 rpm			Hava Debisi Air Flow 3/ 400V AC 880 rpm m³/h	Hava Debisi Air Flow 3/ 400V AC 670 rpm m³/h
	m²	dm³	kW	kW	(n)	mm		
80UY111 2,5	80,21	13,8	43,84	37,23		800	18.530	14.300
80UY111 2,1	94,56	13,8	47,13	39,86		800	17.910	13.860
80UY112 2,5	106,95	18,5	50,43	42,24		800	16.900	13.040
80UY112 2,1	126,09	18,5	53,00	44,05		800	16.270	12.550
80UY211 2,5	160,42	27,6	87,68	74,46		800	37.060	28.600
80UY121 2,5	160,42	27,6	87,68	74,46		800	37.060	28.600
80UY211 2,1	189,12	27,6	94,26	79,72		800	35.820	27.720
80UY121 2,1	189,12	27,6	94,26	79,72		800	35.820	27.720
80UY212 2,5	213,90	37,0	100,86	84,48		800	33.800	26.080
80UY122 2,5	213,90	37,0	100,86	84,48		800	33.800	26.080
80UY212 2,1	252,18	37,0	106,00	88,10		800	32.540	25.100
80UY122 2,1	252,18	37,0	106,00	88,10		800	32.540	25.100
80UY311 2,5	240,63	41,4	131,52	111,69		800	55.590	42.900
80UY311 2,1	283,68	41,4	141,39	119,58		800	53.730	41.580
80UY312 2,5	320,85	55,5	151,29	126,72		800	50.700	39.120
80UY312 2,1	378,27	55,5	159,00	132,15		800	48.810	37.650

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
80UY111 2,5	160	141	133	120	--	85	43	120	1	35	28
80UY111 2,1	160	141	133	120	--	85	43	120	1	35	28
80UY112 2,5	160	141	133	120	--	85	43	120	1	35	28
80UY112 2,1	160	141	133	120	--	85	43	120	1	35	28
80UY211 2,5	280	141	133	--	240	85	43	120	1	54	42
80UY121 2,5	160	141	242	120	--	85	43	229	1	54	42
80UY211 2,1	280	141	133	--	240	85	43	120	1	54	42
80UY121 2,1	160	141	242	120	--	85	43	229	1	54	42
80UY212 2,5	280	141	133	--	240	85	43	120	1	54	42
80UY122 2,5	160	141	242	120	--	85	43	229	1	54	42
80UY212 2,1	280	141	133	--	240	85	43	120	1	54	42
80UY122 2,1	160	141	242	120	--	85	43	229	1	54	42
80UY311 2,5	400	141	133	120	--	85	43	120	1	64	54
80UY311 2,1	400	141	133	120	--	85	43	120	1	64	54
80UY312 2,5	400	141	133	120	--	85	43	120	1	64	54
80UY312 2,1	400	141	133	120	--	85	43	120	1	64	54

80 UY SERİSİ

80 UY SERIES

Bakır Boru / Copper Tube 1/2"

Kalıp / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ\text{C}$		Fanlar Fans			
			S	L	Adet Qty	Çap Diameter	S	L
			3/ 400V AC 50Hz 880 rpm	3/ 400V AC 50Hz 670 rpm			Hava Debisi Air Flow 3/ 400V AC 880 rpm m ³ /h	Hava Debisi Air Flow 3/ 400V AC 670 rpm m ³ /h
	m ²	dm ³	kW	kW	(n)	mm		
80UY411 2,5	320,84	55,2	175,36	148,92	4	800	74.120	57.200
80UY221 2,5	320,84	55,2	175,36	148,92		800	74.120	57.200
80UY411 2,1	378,24	55,2	188,52	159,44		800	71.640	55.440
80UY221 2,1	378,24	55,2	188,52	159,44		800	71.640	55.440
80UY412 2,5	427,80	74,0	201,72	168,96		800	67.600	52.160
80UY222 2,5	427,80	74,0	201,72	168,96		800	67.600	52.160
80UY412 2,1	504,36	74,0	212,00	176,20		800	65.080	50.200
80UY222 2,1	504,36	74,0	212,00	176,20		800	65.080	50.200
80UY321 2,5	481,26	82,8	263,04	223,38	6	800	111.180	85.800
80UY321 2,1	567,36	82,8	282,78	239,16		800	107.460	83.160
80UY322 2,5	641,70	111,0	302,58	253,44		800	101.400	78.240
80UY322 2,1	756,54	111,0	318,00	264,30		800	97.620	75.300

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
80UY411 2,5	520	141	133	120	--	85	43	120	1	64	54
80UY221 2,5	280	141	242	--	240	85	43	229	1	64	54
80UY411 2,1	520	141	133	120	--	85	43	120	1	64	54
80UY221 2,1	280	141	242	--	240	85	43	229	1	64	54
80UY412 2,5	520	141	133	120	--	85	43	120	1	64	54
80UY222 2,5	280	141	242	--	240	85	43	229	1	64	54
80UY412 2,1	520	141	133	120	--	85	43	120	1	64	54
80UY222 2,1	280	141	242	--	240	85	43	229	1	64	54
80UY321 2,5	400	141	242	120	--	85	43	229	2	80	64
80UY321 2,1	400	141	242	120	--	85	43	229	2	80	64
80UY322 2,5	400	141	242	120	--	85	43	229	2	80	64
80UY322 2,1	400	141	242	120	--	85	43	229	2	80	64



Bakır Boru / Copper Tube

1/2"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ\text{C}$		Fanlar Fans			
			S 3/ 400V AC 50Hz 880 rpm	L 3/ 400V AC 50Hz 670 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 3/ 400V AC 880 rpm	L Hava Debisi Air Flow 3/ 400V AC 670 rpm
			kW	kW			m ³ /h	m ³ /h
80UY421 2,5	641,68	110,4	350,72	297,84	8	800	148.240	114.400
80UY421 2,1	756,48	110,4	377,04	318,88		800	143.280	110.880
80UY422 2,5	855,60	148,0	403,44	337,92		800	135.200	104.320
80UY422 2,1	1008,72	148,0	424,00	352,40		800	130.160	100.400
80UY521 2,5	802,10	138,0	438,40	372,30	10	800	185.300	143.000
80UY521 2,1	945,60	138,0	471,30	398,60		800	179.100	138.600
80UY522 2,5	1069,50	185,0	504,30	422,40		800	169.000	130.400
80UY522 2,1	1260,90	185,0	530,00	440,50		800	162.700	125.500
80UY621 2,5	962,52	165,6	526,08	446,76	12	800	222.360	171.600
80UY621 2,1	1134,72	165,6	565,56	478,32		800	214.920	166.320
80UY622 2,5	1283,40	222,0	605,16	506,88		800	202.800	156.480
80UY622 2,1	1513,08	222,0	636,00	528,60		800	195.240	150.600

Model Model	Boyutlar Dimensions								Bağlantılar Connections		
	L	H	W	L _T	L _C	H ₁	H ₂	W ₁	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	cm	cm	cm	ad	mm	mm
80UY421 2,5	520	141	242	120	--	85	43	229	2	108	80
80UY421 2,1	520	141	242	120	--	85	43	229	2	108	80
80UY422 2,5	520	141	242	120	--	85	43	229	2	108	80
80UY422 2,1	520	141	242	120	--	85	43	229	2	108	80
80UY521 2,5	640	141	242	120	--	85	43	229	2	120	108
80UY521 2,1	640	141	242	120	--	85	43	229	2	120	108
80UY522 2,5	640	141	242	120	--	85	43	229	2	120	108
80UY522 2,1	640	141	242	120	--	85	43	229	2	120	108
80UY621 2,5	760	141	242	120	--	85	43	229	2	120	108
80UY621 2,1	760	141	242	120	--	85	43	229	2	120	108
80UY622 2,5	760	141	242	120	--	85	43	229	2	120	108
80UY622 2,1	760	141	242	120	--	85	43	229	2	120	108



VUK SERİSİ
VUK SERIES

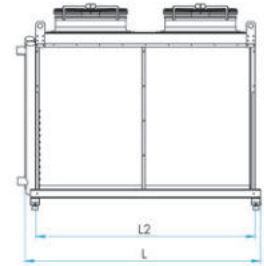
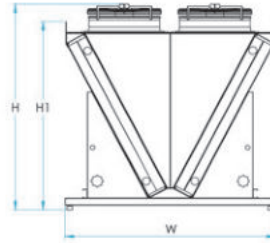
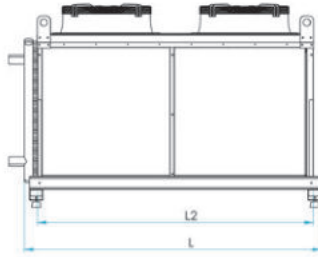
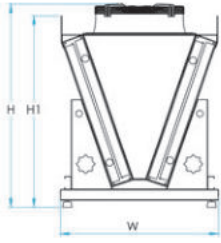
TEKNİK BİLGİLER

Technical Information

Bakır Boru / Copper Tube : 3/8"
Kalıp / Geometry : 32 mm x 28 mm
Hatve / Fin Spacing : 2,1 mm - 2,5 mm

Belirtilen kapasiteler EBM, Ziehl - Abegg ve muadili fanlara göre hesaplanmıştır.

Capacities are calculated according to EBM or Ziehl-Abegg or equivalent brand fans.





Bakır Boru / Copper Tube

3/8"

Kalip / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

63 VUK SERİSİ

63 VUK SERIES

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 3/400V AC 50Hz 1320 rpm	L 1/230V AC 50Hz 880 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 3/400V AC 1320 rpm	L Hava Debisi Air Flow 1/230V AC 880 rpm
			kW	kW			m³/h	m³/h
63VUK211	329,10	25,0	108	72	2	630	37.704	20.258
63VUK212	438,82	33,2	130	82		630	38.156	19.818
63VUK311	493,65	37,5	170	112	3	630	58.104	30.240
63VUK312	658,23	49,8	194	126		630	57.234	30.240
63VUK412	877,64	66,6	259	163	4	630	76.312	39.634

Model Model	Boyutlar Dimensions					Bağlantılar Connections		
	L	H	W	L2	H1	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm			
63VUK211	235	157	120	208.5	145	1	42	35
63VUK212	235	157	120	208.5	145	1	54	42
63VUK311	335	157	120	308.5	145	1	54	42
63VUK312	335	157	120	308.5	145	1	64	54
63VUK412	435	157	120	408.5	145	1	80	64

80 VUK SERİSİ

80 VUK SERIES

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ C$		Fanlar Fans			
			S 3/400V AC 50Hz 880 rpm	L 3/400V AC 50Hz 620 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 3/400V AC 880 rpm	L Hava Debisi Air Flow 3/400V AC 620 rpm
			kW	kW			m³/h	m³/h
80VUK211	492,32	35,2	148	-	2	800	46.888	-
80VUK212	657,58	49,2	168	-		800	45.708	-
80VUK311	738,48	52,8	208	-	3	800	66.128	-
80VUK312	986,36	74,2	243	-		800	64.258	-
80VUK412	1315,16	98,6	350	-	4	800	91.332	-
80VUK221	704,06	53,4	252	-		800	89.728	-
80VUK222	938,76	71,4	301	-	6	800	69.184	-
80VUK321	1056,10	80,0	390	-		800	120.860	-
80VUK322	1408,14	106,8	446	-		800	118.498	-

Model Model	Boyutlar Dimensions					Bağlantılar Connections		
	L	H	W	L2	H1	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm			
80VUK211	275	192	120	248.5	172	1	64	54
80VUK212	275	192	120	248.5	172	1	64	54
80VUK311	395	192	120	368.5	172	1	64	54
80VUK312	395	192	120	368.5	172	1	80	64
80VUK412	515	192	120	488.5	172	1	80	64
80VUK221	275	235	240	248.5	214	1	80	64
80VUK222	275	235	240	248.5	214	1	80	64
80VUK321	395	235	240	368.5	214	1	80	64
80VUK322	395	235	240	368.5	214	1	105	80

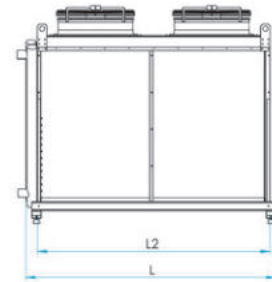
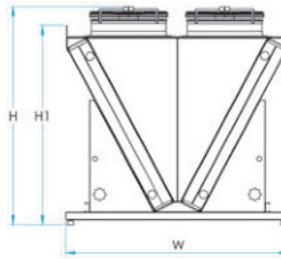
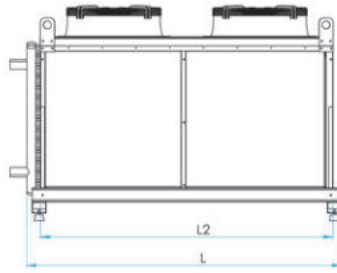
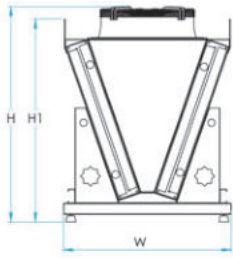
TEKNİK BİLGİLER

Technical Information

Bakır Boru / Copper Tube : 1/2"
Kalıp / Geometry : 32 mm x 28 mm
Hatve / Fin Spacing : 2,1 mm - 2,5 mm

Belirtilen kapasiteler EBM, Ziehl - Abegg ve muadili fanlara göre hesaplanmıştır.

Capacities are calculated according to EBM or Ziehl-Abegg or equivalent brand fans.



Bakır Boru / Copper Tube 1/2"

Kalıp / Geometry 32 mm x 28 mm

Hatve / Fin Spacing 2,1mm-2,5mm

63 VUY SERİSİ 63 VUY SERIES

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ\text{C}$		Adet Qty	Fanlar Fans		
			S 3/400V AC 50Hz 1320 rpm	L 1/230V AC 50Hz 880 rpm		Çap Diameter	S Hava Debisi Air Flow 3/400V AC 1320 rpm	L Hava Debisi Air Flow 1/ 230V AC 880 rpm
			kW	kW		mm	m³/h	m³/h
63VUY211	311,64	46,2	120	78	2	630	38.188	19.869
63VUY212	415,64	61,6	135	85		630	37.358	19.417
63VUY311	467,46	46,2	179	115	3	630	57.282	29.232
63VUY312	628,52	92,2	202	124		630	56.037	28.952
63VUY411	630,44	92,4	239	154	4	630	76.376	39.736
63VUY412	838,02	123,2	269	169		630	74.716	38.834

Model Model	Boyutlar Dimensions					Bağlantılar Connections		
	L	H	W	L2	H1	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm	ad	mm	mm
63VUY211	235	157	120	208.5	145	1	54	42
63VUY212	235	157	120	208.5	145	1	54	42
63VUY311	335	157	120	308.5	145	1	54	42
63VUY312	335	157	120	308.5	145	1	64	54
63VUY411	435	157	120	408.5	145	1	64	54
63VUY412	435	157	120	408.5	145	1	64	54



Bakır Boru / Copper Tube

1/2"

Kalıp / Geometry

32 mm x 28 mm

Hatve / Fin Spacing

2,1mm-2,5mm

80 VUY SERİSİ

80 VUY SERIES

Model Model	Yüzey Area	Boru Hacmi Tube Volume	Kapasite Capacity $\Delta t = T_c - T_a = 15^\circ\text{C}$		Fanlar Fans			
			S 3/400V AC 50Hz 880 rpm	L 3/400V AC 50Hz 620 rpm	Adet Qty	Çap Diameter	S Hava Debisi Air Flow 1/ 230V AC 1210 rpm	L Hava Debisi Air Flow 3/ 400V AC 670 rpm
			kW	kW			m ³ /h	m ³ /h
80VUY211	466,12	65,2	163	-	2	800	45.496	-
80VUY212	621,48	86,8	181	-		800	43.978	-
80VUY311	669,16	97,8	241	-	3	800	66.325	-
80VUY312	934,52	136,8	275	-		800	65.789	-
80VUY411	932,22	143,2	325	-	4	800	90.995	-
80VUY412	1246,02	182,4	367	-		800	87.872	-
80VUY511	1165,28	162,8	406	-	5	800	110.569	-
80VUY512	1557,54	228,0	446	-		800	109.865	-
80VUY221	666,74	95,6	289	-	4	800	85.340	-
80VUY222	890,02	130,0	305	-		800	82.304	-
80VUY321	1010,28	146,6	437	-	6	800	121.586	-
80VUY322	1335,04	195,4	467	-		800	120.862	-
80VUY421	1335,04	204,4	578	-	8	800	170.682	-
80VUY422	1780,04	260,1	609	-		800	164.604	-
80VUY521	1668,78	244,0	727	-	10	800	210.682	-
80VUY522	2225,06	352,8	760	-		800	204.689	-

Model Model	Boyutlar Dimensions					Bağlantılar Connections		
	L	H	W	L2	H1	Adet Qty	Giriş Input	Çıkış Output
	cm	cm	cm	cm	cm			
80VUY211	275	192	120	248.5	172	1	54	42
80VUY212	275	192	120	248.5	172	1	64	54
80VUY311	395	192	120	368.5	172	1	64	54
80VUY312	395	192	120	368.5	172	1	80	64
80VUY411	515	192	120	488.5	172	1	105	80
80VUY412	515	192	120	488.5	172	1	105	80
80VUY511	635	192	120	608.5	172	1	105	80
80VUY512	635	192	120	608.5	172	1	105	105
80VUY221	275	235	240	248.5	214	1	80	64
80VUY222	275	235	240	248.5	214	1	105	80
80VUY321	395	235	240	368.5	214	1	105	80
80VUY322	395	235	240	368.5	214	1	105	80
80VUY421	515	235	240	488.5	214	1	105	105
80VUY422	515	235	240	488.5	214	1	105	105
80VUY521	635	235	240	608.5	214	1	105	105
80VUY522	635	235	240	608.5	214	1	105	105



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