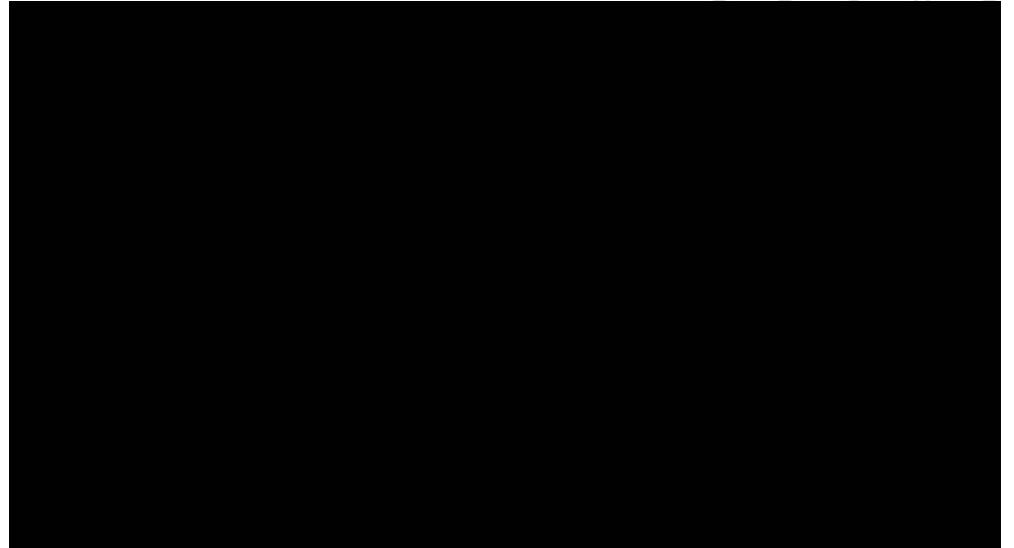
WE MAKE IT HAPPEN

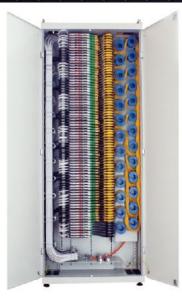


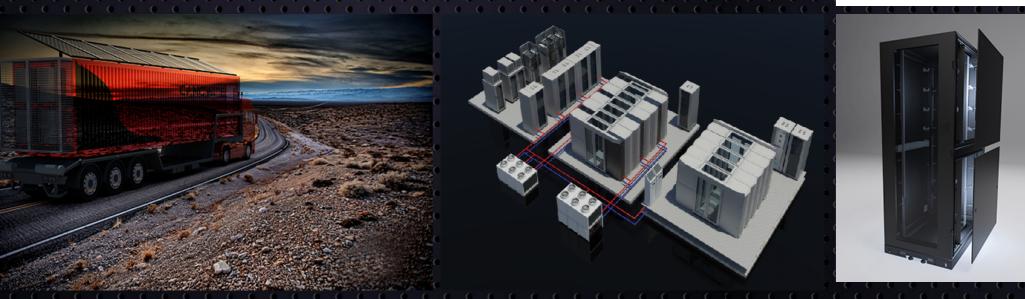


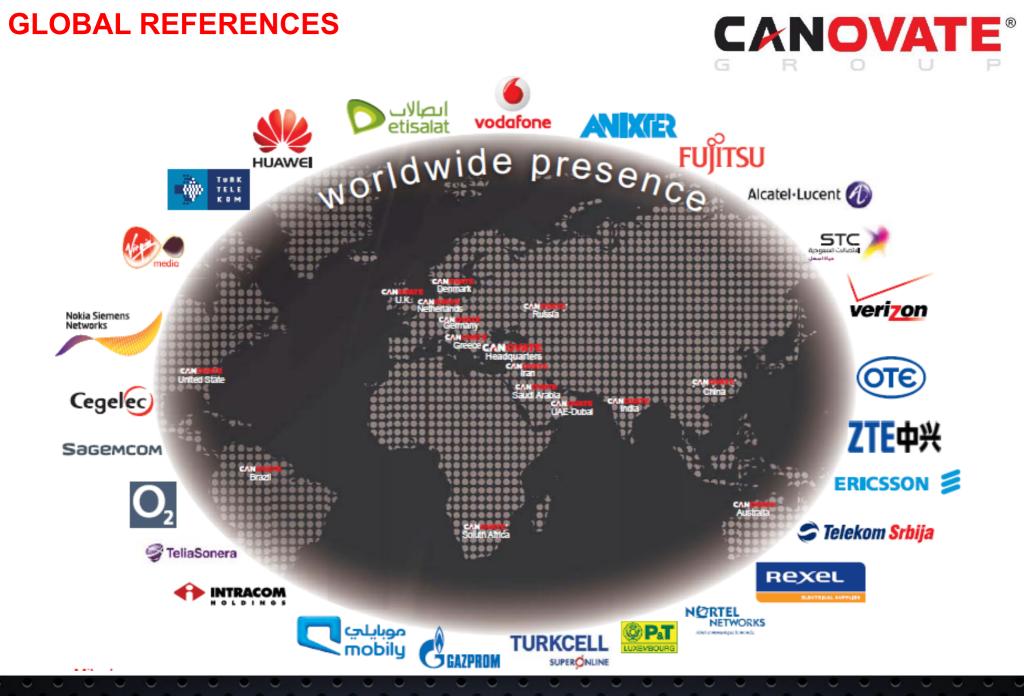


INTRODUCTION

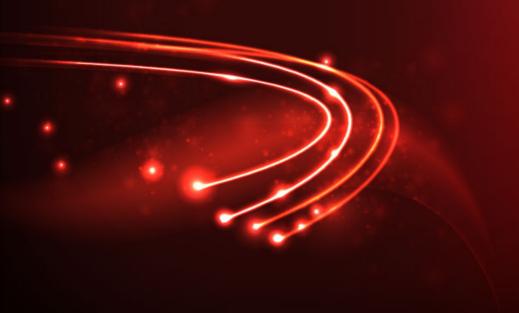
- Products are manufactured in brand new facilities covering 26,000 m2 production area, formerly recognized as Alcatel-Turkey.
- %75 of production is exported to Europe, Russia, Asia Pacific Middle East, North & Sub-Saharan Africa, USA, CIS and Central America
- Branch offices in USA,Greece, Russia, Iran, Indonesia and UAE. 42 Distributors around the globe, coverage of 60 countries











Canovate offers optimized cooling solutions for your datacenter requirements

Scalable Modular

80

- Energy Efficient Green

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Integrated Secure

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www.canovate.com

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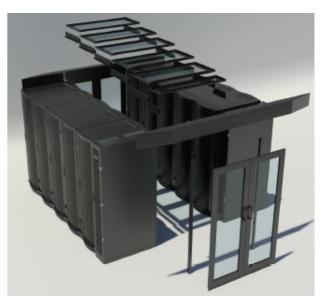


MICRO DC

MINI DC









CONTAINER DC



Why Canovate ?

- Complete datacenter solutions including rack, cooling, power, monitoring and security solutions similar to APC, Emerson and Rittal
- High end aluminum frame racks (up to 2000 kg carying capacity) and economy steel rack series

- In house produced CW -chilled water and DX based inrow cooling systems
- > Innovative energy efficient adiabatic cooling systems
- Cold&Hot Aisle containment systems with inrow cooling
- Micro&Mini Datacenter solutions for SME's and branch offices
- Mobile Container Datacenter's
- Modular UPS systems
- > Best price and performance ratio
- Fast manufacturing time
- Fast Customization capacilities





MICRO DATA CENTER

Micro Data Center withTop Mountable AC





Benefits:

- Cooling up to 4kw with top mountable AC unit.
- Eliminating external cooling unit and raised floor
- Compact datacenter with monitoring, UPS, IP PDU, cooling
- Ideal solution for branch offices (Banks, Police, Schools, Ministries etc.)



MICRO DATA CENTER

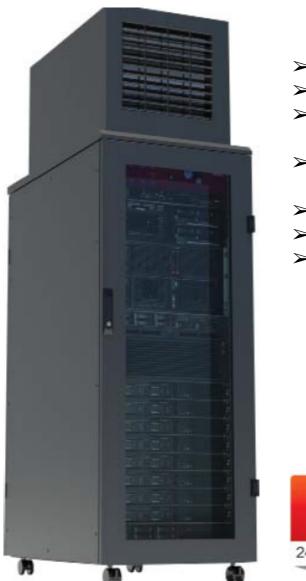
Aplications





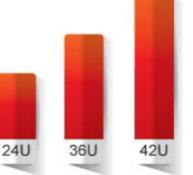
MICRO DATA CENTER





Applications

- > Small and Medium Size Enterprises (SME's)
- > Branch offices of financial institutions (Banks, Insurance companies)
- Branch offices of government institutions and utilities (Police, Army, Schools, Electricity, Water companies etc)
- Companies who wants to connect the cloud instead of investing in a big data center
- > Exchange offices & Hubs of Telco's and GSM companies
- > Remote locations where there is no dedicated IT personnel available
- > Manufacturing companies for automation control and IT services



Micro Data Center Rack

- 24U-36U-42U height
- Steel&Glass front and rear doors
- Aluminum frame carrying capacity up to 2000 kg
- Portable design with wheels or fixed wall mountable
- Cable entrance from the bottom

CAN-BREEZE MICRO DATA CENTER

Micro Data Center with inrack mountable AC



www.carcovate.com



Cooling up to 8-14 KW within 800mm width rack

- > Eliminating raised floor requirement
- Compact datacenter with monitoring, UPS, IP PDU, cooling

CAN-BREEZE MICRO DATA CENTER





Benefits:

- Plug&Play integrated datacenter
- > Easy to maintain

 Ideal solution for SME's and branch offices (Banks, Police, Schools, Ministries etc.)



Benefits of Canovate Micro Datacenter Solutions

> Accelerated Deployment:

Deploy turnkey rack-level infrastructure in max 1 hour time

> Lower CAPEX:

Significantly lower initial investment and construction cost compared to classical Datacenters

> Increased Energy Efficiency:

Dramatically lower your cooling and power OPEX costs

> Customizable:

Can be customized easily according to your cooling and power requirements

> Significant Energy Savings:

You don't need to cool the entire IT room, just cool the Micro DC. Green IT

> Modular:

Additional Micro DC units can be added according to the growth of your IT requirements. **Pay-As-You-Grow!**



Benefits of Canovate Micro Datacenter

> Security:

Keeps mission critical data in a secure environment, increases data and hardware protection and guarantees 24/7 business continuity via integrated fire suppression and EMS systems

> Facility Maintenance:

The ability to minimize IT infrastructure maintenance to lower overall Data Center maintenance labor costs.

Limited Operation Risk:

The complete system is coming as factory tested and ready to install. Plug and Play

> Standardization:

Same standard solution in all your branch offices limits risks of human failure and lowers operating & maintenance costs

> No need for skilled IT personnel :

You don't need to maintain IT personal in every location , hundreds of Micro DC's can be controlled remotely from your Head Quarters.

> Affordable by Small Businesses:

You don't need to worry for a complex DC design and installation work

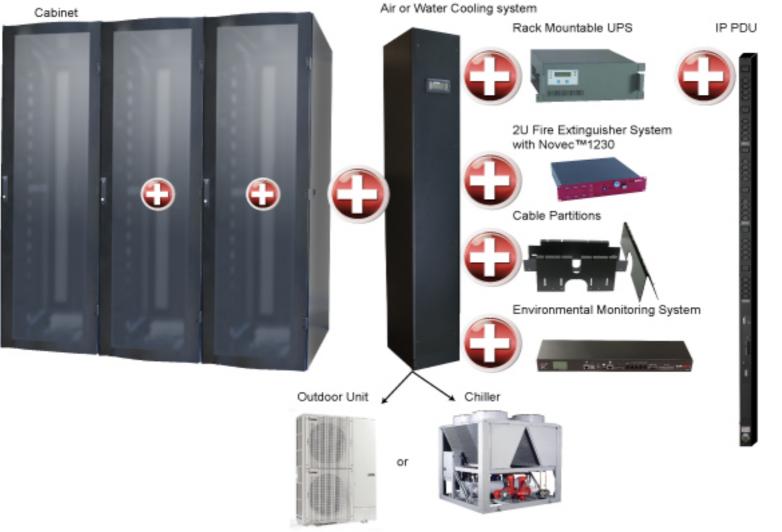












Side Cooling System

DIRECT LIQUID BASED RACK COOLING SIDE COOLER





- > High density hot spot cooling up to 30kW
 > Patented modular and ergonomic design

Ministry of Labour Data Center, Nürnberg Germany with Fujitsu

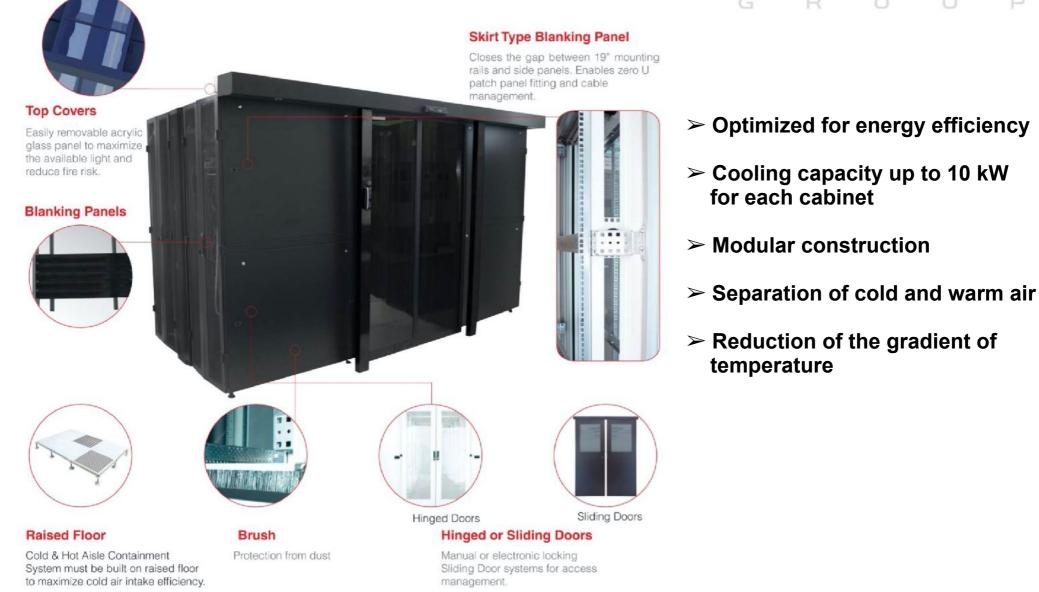






COLD & HOT AISLE SOLUTIONS

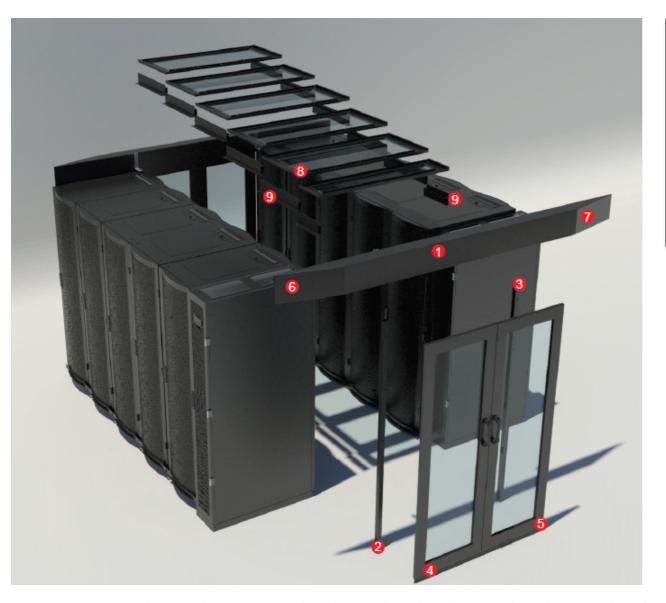














1	Automatic Door Upper Profile Kit
2	Sliding Door Vertical Support Profile (Right)
3	Sliding door vertical support profile (Left)
4	Sliding Door Assembly(Left)
5	Sliding Door Assembly(Right)
6	Door Upper Left Cover
7	Door Upper Right Cover
8	Top Cover Panels
9	Top Cover Panels Support

WATER BASED CW IN-ROW COOLER





- In-row technology
- No need for raised floor
- > Width of 300 mm or 600 mm
- Height 2000 mm / depth 1000-1200 mm
- > 30 kW or 60 kW cooling capacity alternatives
- Pressure controlled
- > EC-technology

- No condensing water due to high inlet-water temperature of 14 °C
- Water-based and DX-Version
- Especially developed for aisle-cooling
- > High efficiency in power management

Gas Based-DX (Refrigerant R 410) Front Cooler

- > 28 kW cooling capacity in 42U 300x1000 Cabinet
- Automatically controlled between 11 to 28 kW by inverter technology for maximum energy efficiency
- > COP ratio is above 4 for maximum energy efficiency
- > External Compressor unit to have better noise level
- > Cooling units work 100% sensible (without condensed water)
- > Specially developed for cold & hot aisle containment applications
- Modular construction
- In-Row cooling technology
- Eliminating raised floor requirement
- > Variable speed fans: EC-Technology
- Modular design: Allowing capacity expansion
- > Hot-swappable fans



Pressure Controlled Ziehl-Abegg / EBM EC Fans



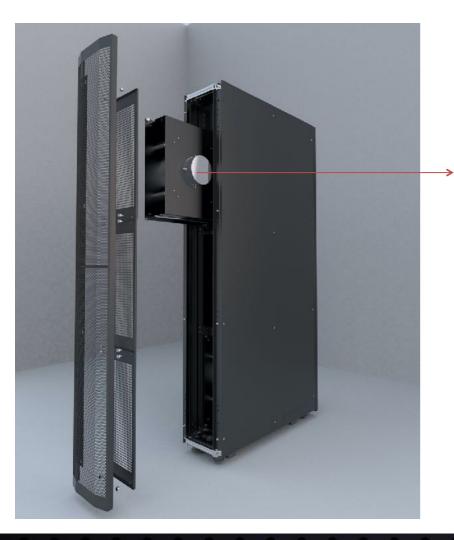




vww.~canovate~.com

Gas Based-DX (Refrigerant R 410) Front Cooler





Hot-swappable EC fan Drawer



Multipoint Injection System



Outdoor Unit-R410A (Combined Compressor & Condenser)

MODULAR UPS



N+1 Redundancy by adding extra module

High Efficiency

Steady operations at 96%

High Availability

Reach 99.9999% uptime, and more

Scalability

Expand as you grow

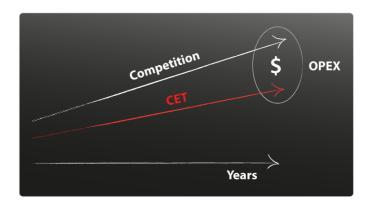
Easy handling

Hot swap, low MTTR, ...





Optimized Financial Impact



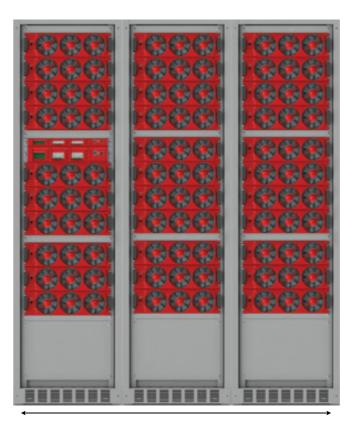






Max 60kVA 600 x 800 x 2100mm MBP included

Max 160kVA 600 x 800 x 2100mm MBP optional



Max 640kVA 1800 x 800 x 2100mm MBP optional and external





CONTAINER DATA CENTER





CONTAINER DATA CENTER



Canovate offers modular and green Container Data Center Solutions

Flexible Modular Energy Efficient Green Integrated Secure

1- Container; Dimensions : 12200x2500x2700mm (LxDxH) 2- Server Rack

- 3- DX Based Inrow Cooler
- 4-Outside Compressor & Condenser Unit
- 5- Modular UPS System
- 6- Battery Rack
- 7- Modular Power Distribution Panel
- 8- Novec Based Fire Suppression Unit
- 9- Cable ducting
- 10- Piping
- 11- Protection Grill for Outdoor Units
- 12- Admin Room

CONTAINER DATA CENTER

Cold Aisle





CERTIFICATE

ISO 9001-ISO 14001-OHSAS 18001



Certi	ficate	Centi	ficate	Certi	ficate
itandard	TS EN ISO 9001:2008	Standard	ISO 14001:2004	Standard	BS OHSAS 18001:2007
Certificate Registr. No	0. 01 100 9011956	Certificate Registr. N	io. D1 104 1317765	Certificate Registr. N	o. 01 90 000633
	TÜV RHEINLAND Ulusiararası Standartlar		TÜV Rheinland Cert GmbH certifies:		TÜV Rheinland TURKEY certifies:
	Sertificazion ve Denetim A.\$. Certification Body certifies:	Certificate Holder:	CANOVATE	Certificate Holder:	CANOVATE'
ertificate Holder:	CANOVATE ELEKTRONIK ENDÜSTRİ TİCARET A.Ş.		Canovate Elektronik Endüstri Ticaret A.Ş. Eksioğlu Mah. Atabey Cad. No:12		Canovate Elektronik Endustri Ticaret A.Ş.
	Ekşioğlu Mah. Atabey Cad. No:12 34794 Çekmeköy - İstanbul- TURKEY		Çekmeköy / İstanbul, TR 34794 TURKEY		Ekşioğlu Mah. Atabey Cad. No:12 Çekmeköy / İstanbul, TR 34794 TURKEY
Scope:	DESIGN, MANUFACTURING, SALES AND AFTER SALES SUPPORT OF DATACENTER SOLUTIONS/SYSTEM ROOM HARDWARE, FIBER OPTIC TRANSMISSION AND ACCESS SYSTEMS, FITX SOLUTIONS, FIBER OPTIC PATCH PANELS, OUTDOOR CABINETS, 19" FLOOR STANDING CABINETS, 19" WALL MOUNT CABINETS, 19" CABINET ACCESSORIES. SUBRACKS, SMART POWER DISTRIBUTION UNITS, COOLING SYSTEMS, ENVIRONMENTAL MONITORING SYSTEMS SALES AND AFTER SALES SUPPORT OF IP KVM SYSTEMS, STRUCTURED CABLING PRODUCTS, UPS, RF CABLE AND	Scope:	DESIGN, MANUFACTURING, SALES AND AFTER SALES SUPPORT OF DATACENTER SOLUTIONS SYSTEM ROOM HARDWARE, FIBER OPTIC TRANSMISSION AND ACCESS SYSTEMS, FTTX SOLUTIONS, FIBER OPTIC PARTCH PANELS, OUTDOOR CABINETS, 19' FLOOR STANDING CABINETS; 19' WALL MOUNT CABINETS; 19' CABINET ACCESSORIES, SUBARCKS, SMART POWER DISTIBUTION UNITS, COOLING SYSTEMS, ENVIRONMENTAL MONITORING SYSTEMS SALES AND AFTER SALES SUPPORT OF IP KVM SYSTEMS, STRUCTURED CABING PRODUCTS, UPS, RF CABLE AND ACCESSORIES	Scope:	DESIGN, MANUFACTURING, SALES AND AFTER SALES SUPP OF DATACENTER SOLUTIONS/SYSTEM ROOM HARDWARE. F OPTIC TRANSMISSION AND ACCESS SYSTEMS, FITX SOLUT FIBER OFTIC PATCH PANELS, OUTDOOR CABINETS, 16° FLO STANDING CABINETS, 15° WALL MOUNT CABINETS, 19° CADIN ACCESSORIES, SUBFACT, SALES SUPPORT OF IP KWI SYSTEMS. SALES AND AFTER SALES SUPPORT OF IP KWI SYSTEMS. STRUCTURED CABING PRODUCTS, UPS, RF CABLE AND ACCESSORIES
	ACCESSORIES An audit was performed, Report No. 9011956 Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled. The due date for all future audits is 04-07(dd.mm).	Validity;	An audit was performed, Report No. 1317765. Proof has been furnished that the requirements according to ISO 14001:2004 are furlied. The due date for all future audits is 03-12 (dd.mm). The certificate is valid from 2013-12-11 until 2016-12-10.		An audit was performed, Report No. 000633 Proof has be furnished that the requirements according to BS OHSAS 18001;2007 system are fulfilled.
alidity:	The certificate is valid from 2013-07-17 until 2016-07-04. First certification 2010		First certification 2013	Validity:	The certificate is valid from 2013-12-11 until 2016-12-10
	2013-07-17 CONTRACTION OF THE PARTY Contribution Body Contraction Body Contraction Body	DGA-ZM-58-95-60	2013-12-11 Torritorenta di Cent G-es-H Am Graven Steer - 51105 Koh		2013-12-11 TOW RHEINLAND TURKE
	ARCOINTS	www.tuv.com	TÜVRheinland [∞] Pracisely Right.	www.tuv.com	TÜVRhei Precisely Rigt

GERTERIGATE 1), UL (UL 60950)



	E OF CONFORMITY TO TURKISH STANDARDS	Certificate Number Report Reference	20140317-E303940 E303940-20060505	
CERTIFICATE	OF CONFORMITT TO TURNISH STANDARDS	Issue Date	2014-MARCH-17	
Matkam TSE veg	In Tanian Description of the Mark	U U Issued to:	CANOVATE ELEKTRONIK ENDUSTRI TIC A S EKSIOGLU MAH. ATABEY CAD. NO:12 34794 TURKEY	
BELGE NUMARASI	14.10.02/TSE-14072			
BELGENIN ILK VERILIŞ TARİHİ DATE OF FIRST ISSVE OF LICENCE	12.01.2010	This is to certify that	Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems	
BELGENIN SON GEÇERLİLİK TARİHİ LICENCE VALIB UNTIL	24.01.2015	representative samples of	Information Technology & Communication (ITC) Equipment	
BELGE SAHİBİ KURULUŞUN ADI NAME DE THE LICENDE HOLDER	CANOVATE ELEKTRONİK ENDÜSTRİ VE TIGARET ANONIM ŞİRKETI		Cabinet, Enclosure and Racks System Models CPN-X-	
BELGE SAHIBI KURULUŞUN ADRESİ ADRESS OF THE LICENCE MOLDER	EKŞICĞLU MAH. ATABEY CAD. NO:12 ÇEKMEKÖY/		YYYYY and CSN-X-YYYYY, where Y can be any alphanumerical character defining physical dimensions.	
URETIM YERI ADI NAME OF THE MANUFACTURING PLACE	CANOVATE ELEKTRONİK ENDÜSTRİ VE TİCARET ANONİM ŞİRKETİ)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	
URETIM YERI ADRESI ADRESS OF THE MANUFACTURING PLACE	EKŞICĞLU MAH, ATABEY CAD, NO:12 ÇEKMEKÖY/ İSTANBULTÜRKİYE		Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.	
IPTAL EDILEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (If any)				
TESCILLİ TİCARİ MARKASI REGISTERED TRADE MARK İLGİLİ TÜRK STANDARDI	CANOVATE TS EN 61587-1 / Elektronik citisztar idin mekanik yspilar – IEC 60917 va	Standard(s) for Safety:	UL 60950-1 and CSA C22.2 No. 60950-1, Information Technology Equipment - Safety - Part 1: General	
RELATED TURKISH STANDARD	IEC 60297 için deneylər – Bölüm 1: Kabinlər, raflar, alt raflar və şəsə için İklimsel deneylər, mekanik deneylər ve güveni kle ilgili hususlar /		Requirements.	
BELGE KAPSAMI SCOPE OF LICENCE	23.03.2010	Additional information:	See the UL Online Certifications Directory at www.ul.com/database for additional information	
TS EN 01507-1 DIKILI TIP, TICARI MODEL-CAN-FSX, K MEKANIK YOK SINIFI, SL7, DINAMIK YO IÇIN MEKANIK YAPILARIKABINLER)	LIMATİK SINIFICT, ENDÜSTRİYEL ORTAM SINIFEAT, STATİK İk SINIDI:DUA, DARBE SINIFEKT, IP2C, ELEKTRONİK DONANIMLAR	being covered by UL's Listing and Fr and Canada. The UL Listing Mark for the US and	Listing Mark for the US and Canada should be considered as llow-Up Service meeting the appropriate requirements for US Canada generally includes: the UL in a circle sympol with "G" and	
STITUSO Soundage		"US" identifiers. " " " " " " " " " " " " " " " " " " "	TED", a control number (may be alphanumer o) assigned by UL; duct identifier) as indicated in the appropriate UL Directory.	
TOUT IT OUT	4.201.2014	Look for the UL Listing Mark on the		
	ZERKINOZATAY TSE ISTANBUL BELGELENDIRME MÓDORÓ V.	Westurn R. Correg	<u>Q</u> QQQQQQQQ	
	in terilediğ getin keşildiğin dağıldır. Daytay Tim İrançon Yan ÇANBONGALIKLI - LI 200722730 - FAR: 2007221466 - Adb: - Ortal Anı zələtində baldı sadal kındı. Karak veşilini naştaraz	Without R. Comp, Standard, Mar Mariana Ce Washington UK Bang, Standard, Mar Mariana Ce Washington UK Bang, Standard and Hard Standard (B. Mar Standard) Soliday a basil UK Standard For compared in Mark Standards	֎֎֎֎֎֎֎	

SFR-RELCATE630), IP PROTECTION (EN 60529)



PV PxBsstau Schösser Wallstraße 41 Fox +49(D)2051/9506-5 pixvelbert@icorline.de und Beschöge Velbert D-42551 Velbert Fax +49(D)2051/9506-69 www.pixvelbert.de

Prüfbescheinigung

Nr. / No. 45-66/12

Der Firma Weisenfim, frat heimanufachuren

wird bescheinigt, dass sie am atthe date of Fujitsu Technology Solutions GmbH D-40472 Düsseldorf 20. September 2012

die Anforderungen analog DIN EN 1630:2011-09/WK 4 (RC4) manueller Werkzeugangriff matherspekeneth in feit able af DIN EN 1630:2011-09/WK4 (RC4), keel ettask

•

für das Produkt for the product Rock Typ 2

Outside

Außenseite

Angriffsseite Side of attacking

erfüllt hat.

Verwendete Bauteile: Used components:

Schrank/ sate: Bezeichnung/ Marking Hersteller/ Manufacturer Anzahl/ Quantity

Türe/ Door: Bezeichnung/ Marking Hersteller/ Marwtodurcr Anzohl/ Quarthy

Wandbauteile/ Wal components: Bezeichnung/ Marking Hersteller/ Marwtadurar Anzahl/ Quantiy

Deckenbauteile/ Calling components: Bezeichnung/ Marking Hersteller/ Marwitadurer Anzahl/ Quarity

Griff/ Handle: Bezeichnung/ Marking Hersteller/ Manufacturer Anzahl/ Quantity

Aktrofisiters Polishela such OPE EN SO/JEC 17025 Aktrofisiters Polishela such OPE EN SO/JEC 17025 Poli-, Dierwachungs- und ZertRisterungsstelle nach den Bayrodiktengesetz (BauPG) Rul-Polishela für Schlisser und ZertRisterungsstelle nach den BauPG/ / E Oberwachungs- und ZertRisterungsstelle nach Londesbausstanung (JJC) Bau-RG-foldstelle für Fahrwerbeiten. OPN CERTCO ausrkannte Holisalle

Rack Typ 2 Canovate

Türe/ Door Canovate

-1

Wandbauteil/ wai component Canavate 3

Deckenbauteil/ Colling component Canavate 1

Türgriff/ Door handle Canovate

Seite/ rogs 1 von/ or 2

Institutale itung: Rainer Ehle, Dipl.-Ing.

Es gelten ansere Geschäftsbedingungen

ev



TEST HOUSE CERTIFICATE

CERTIFICATE NUMBER: PROJECT NUMBER:

CLIENT'S ORDER NUMBER:

TEST ITEM MANUFACTURER

TEST LABORATORY

MODELS

ELECTRICAL RATINGS

NUMBER OF ITEMS TESTED SERIAL NUMBER TEST SPECIFICATION / ISSUE

DATE OF TEST

RESULT OF TEST

Approved by:

Electric box Canovate Elektronik Endustri Ticaret A.S. Merkez Mahallesi, Turgut Ozal Gad. No:4, Alemdar - ISTANBUL

CLIENT:

Canovate Elektronik Endustri

Merkez Mahallesi, Turgut Ozal

Ticaret A.S.

Cad. No:4, Alemdar - ISTANBUL

ESIM Test Hizmetleri A.S. Imes Sanayi Sitesi C Blok 308, Sok. No:46 Y.Dudullu ISTANBUL

CAN-FS-O-1264 12U (533,4mm), 600*450 (identical models are as attached)

S -

Not serialised

TH07001

07P10004

Order dated

15.01.2007

IP 6X test acc.to EN 60529 clause 13.4 and 13.6, IP X5 test acc.to EN 60529 clause 14.2.6

F TEST 16.10.2006

Şeyda Dağdeler

Technical Coordinator

TEST Assessment was based on review of testing carried by ESIM Test Hizmetleri A.Ş. Ali test results were compliant; refer to ESIM Test Reprod Number 106001.657.1.1

refer to ESIM IP Test Report Number L06001-657-1-1 for full details.

Test item complies with IP65.

Date of issued: 16.01.2007

Yildız Posta Cd. No:17 Kat:5 34394 Esentepe / İstanbul

Page 1 of 2



THANK YOU FOR YOUR ATTENTION QUESTIONS?