



Net-IX
COOL

Cooling Systems
Catalogue 2021-2022



DESIGN
+ CONSTRUCTION
+ OPERATION
OF YOUR OWN DEDICATED DATA CENTER



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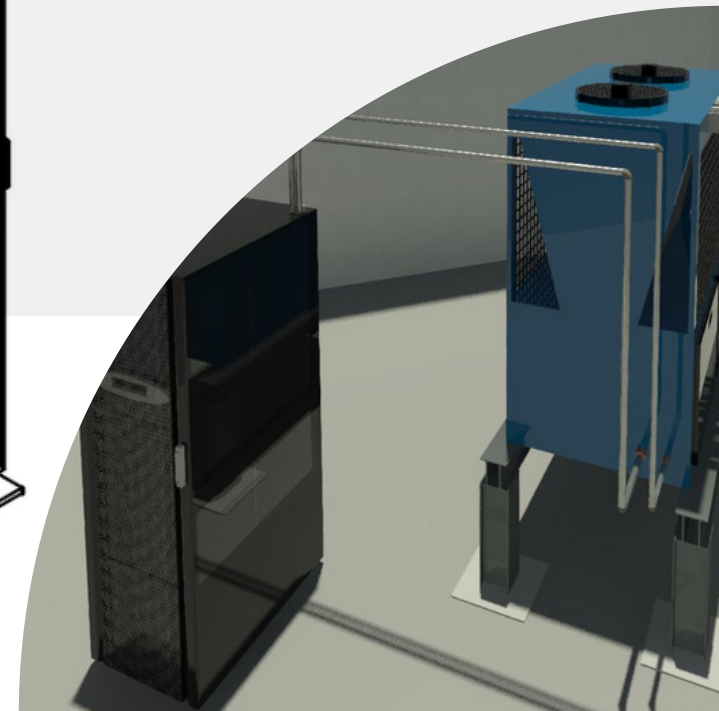
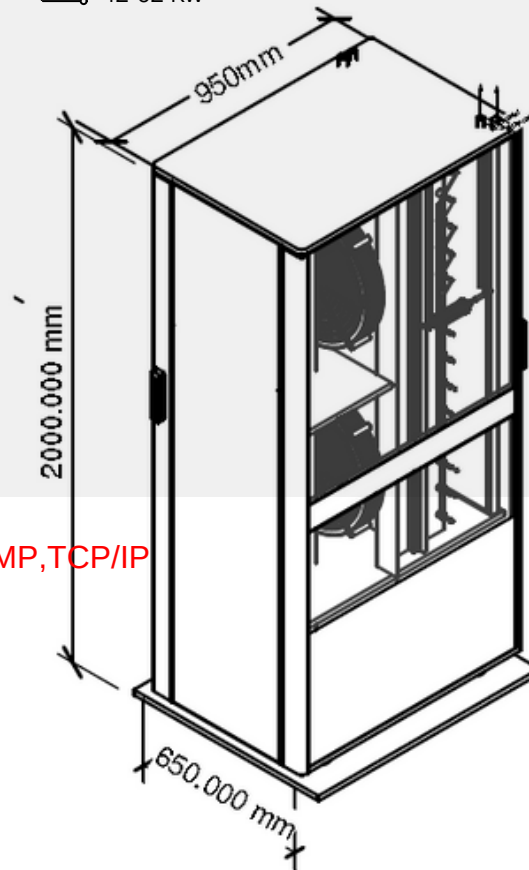
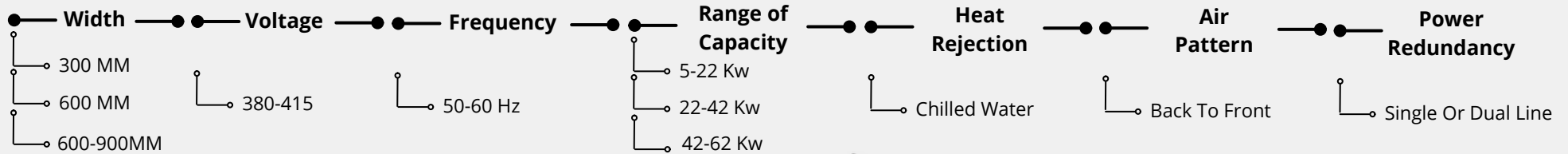
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CHILLER:

A device used to continuously refrigerate large volumes of water. A chiller uses the refrigeration cycle to produce large volumes of chilled water (typically at 46-59°F / 8-15°C) that is distributed to Computer Room Air Handlers (CRAH) units designed to remove heat from the IT environment.

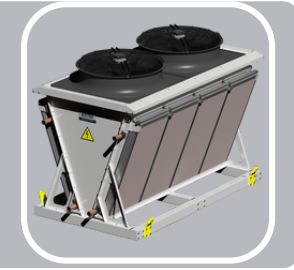
IN-ROW COOLING-NCOOIINC:



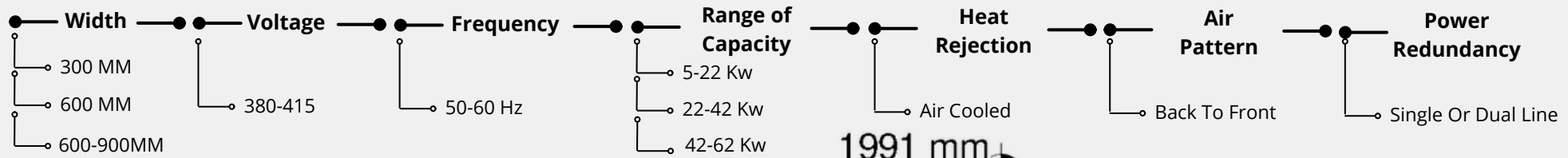
- Ability to connect to monitoring systems through SNMP, TCP/IP
- Modbus protocol support
- Equipped with a monitor
- Automatic troubleshooting
- Ability to add different sensors
- With temperature monitoring capability
- Equipped with a sensor inside the rack
- Has a dedicated web server
- Equipped with electronic expansion valve with drive

CONDENSER OR CONDESING UNIT:

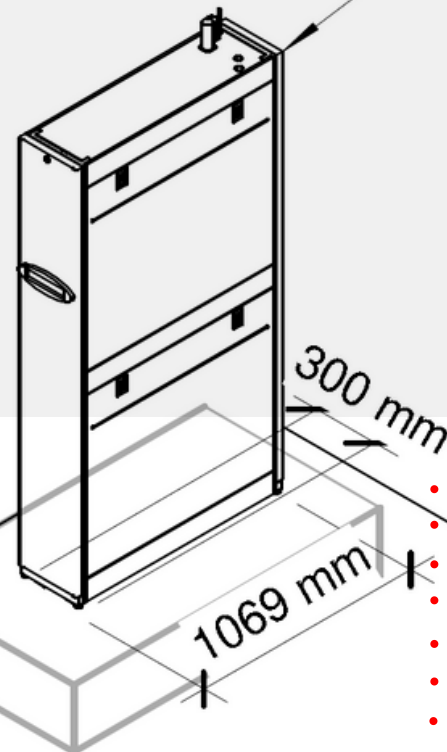
In this type of system the compressor resides in the CRAC unit. However, the compressor may alternatively reside in the condenser. When the compressor resides in the condenser the correct term for the condenser is condensing unit, and the overall system is known as a split system.



DIRECT EXPANSION IN-ROW COOLING-NC002IND:



1991 mm



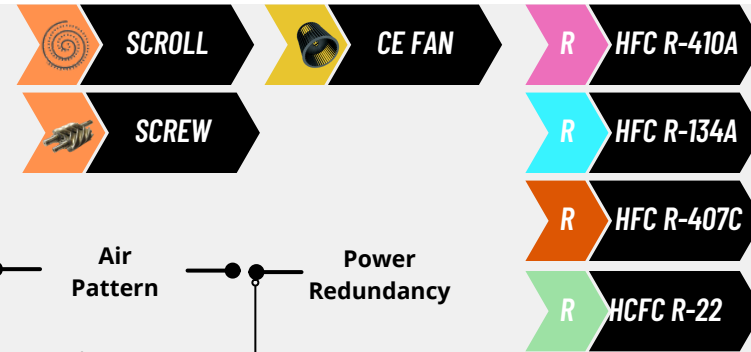
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One of the advantages of this method is that it does not take up space, allowing for white space to be fully utilized for IT equipment.

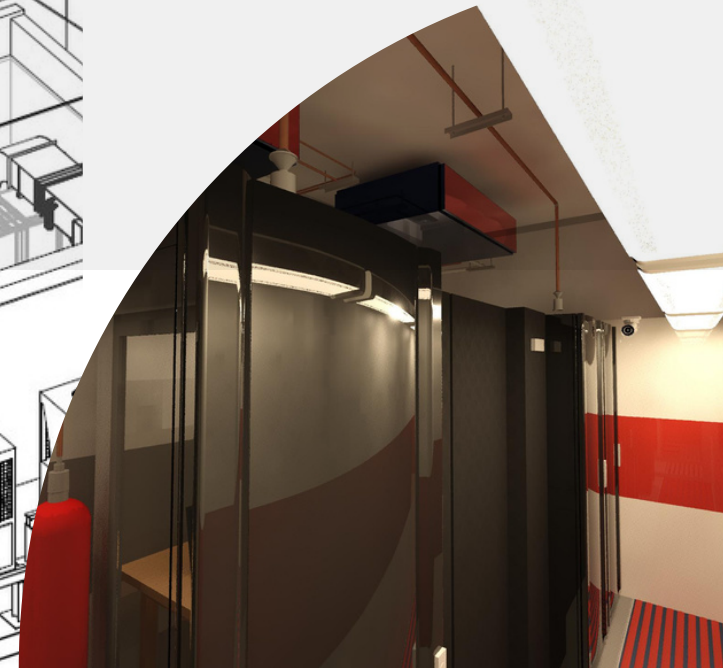
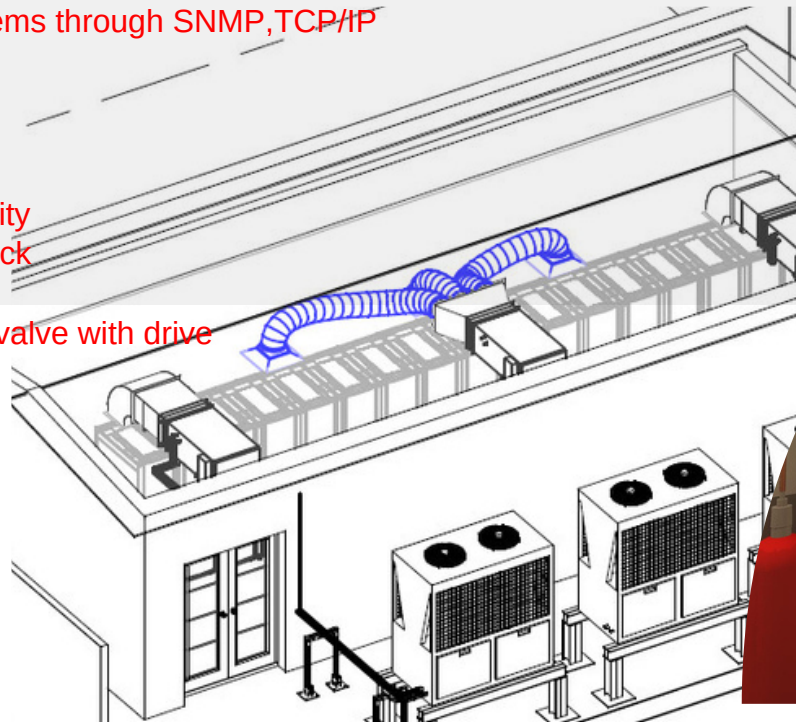
TOP OF RACK COOLING-NC003TOD:

In this model, the indoor unit is located in the false ceiling and the cold air produced through the roof vents enters the cold corridor and the hot air is sucked from the hot corridor.



Dimensi on (mm)	Voltage	Frequency	Range of Capacity	Heat Rejection	Air Pattern	Power Redundancy
<ul style="list-style-type: none"> ○ 1080x400x670 ○ 1080x400x1300 ○ 1080x400x1340 	<ul style="list-style-type: none"> ○ 380-415 	<ul style="list-style-type: none"> ○ 50-60 Hz 	<ul style="list-style-type: none"> ○ 18 Kw ○ 24 Kw ○ 36 Kw 	<ul style="list-style-type: none"> ○ Air Cooled 	<ul style="list-style-type: none"> ○ Back To Front 	<ul style="list-style-type: none"> ○ Single Or Dual Line

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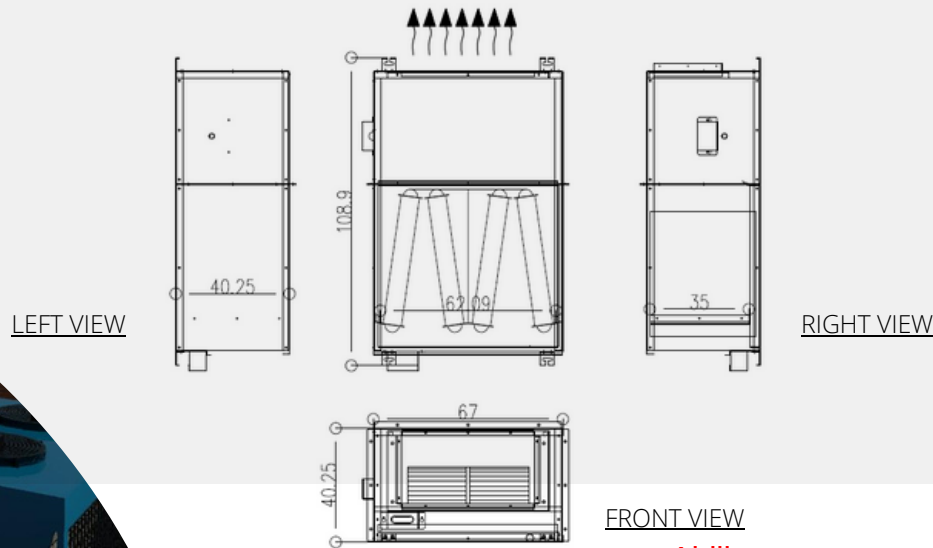
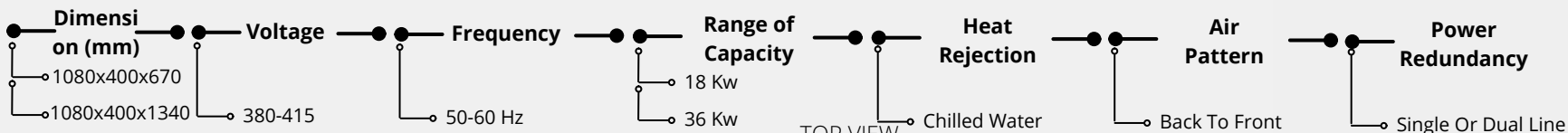
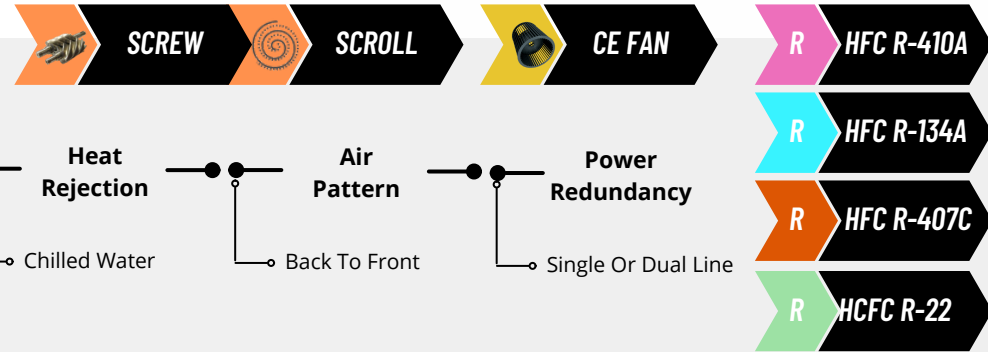


The optimal design of this system is for installation in the least space and without occupying the useful space of the data center.

Included: Free Cooling Mode Optional + Filter + Humidifier + Wide Range (Design & manufacturing)



TOP OF RACK COOLING-NC004TOC:



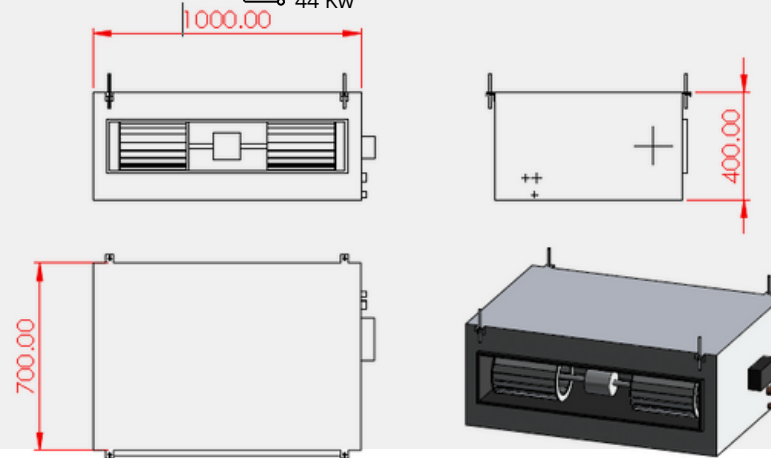
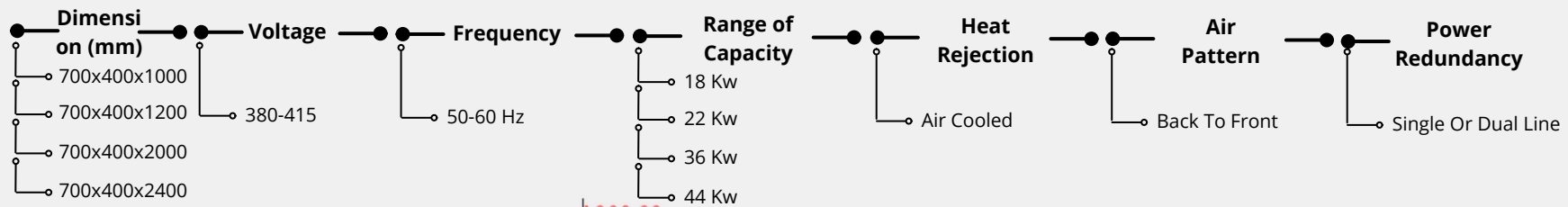
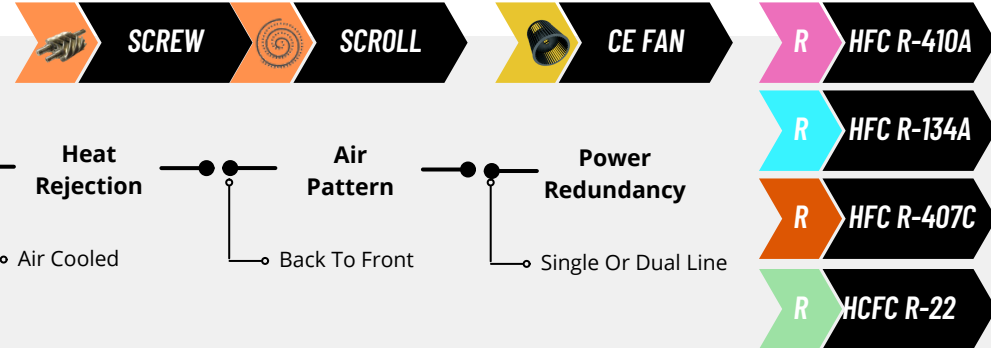
- Ability to connect to monitoring systems through SNMP, TCP/IP
- Modbus protocol support
- Equipped with a monitor
- Automatic troubleshooting
- Ability to add different sensors
- With temperature monitoring capability
- Equipped with a sensor inside the rack
- Has a dedicated web server
- Equipped with electronic expansion valve with drive



TOP OF RACK:

The optimal design of this system is for installation in the least space and without occupying the useful space of the data center.

TOP OF RACK COOLING UNIT-NC0042TOD:



- Ability to connect to monitoring systems through SNMP,TCP/IP
- Modbus protocol support
- Equipped with a monitor
- Automatic troubleshooting
- Ability to add different sensors
- With temperature monitoring capability
- Equipped with a sensor inside the rack
- Has a dedicated web server
- Equipped with electronic expansion valve with drive

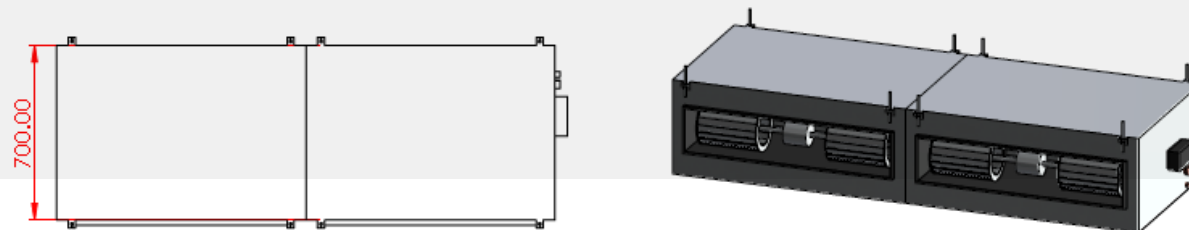
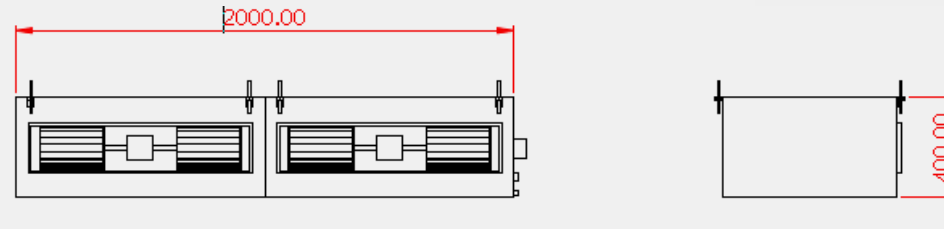
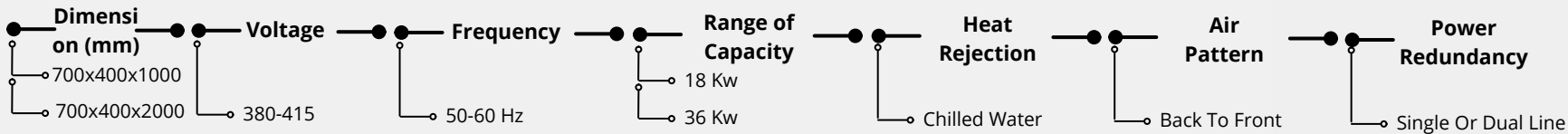


The optimal design of this system is for installation in the least space and without occupying the useful space of the data center.

Included: Free Cooling Mode Optional + Filter + Humidifier + Wide Range (Design & manufacturing)



TOP OF RACK COOLING-NC0045TOC:



- Ability to connect to monitoring systems through SNMP, TCP/IP
- Modbus protocol support
- Equipped with a monitor
- Automatic troubleshooting
- Ability to add different sensors
- With temperature monitoring capability
- Equipped with a sensor inside the rack
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- Equipped with electronic expansion valve with drive

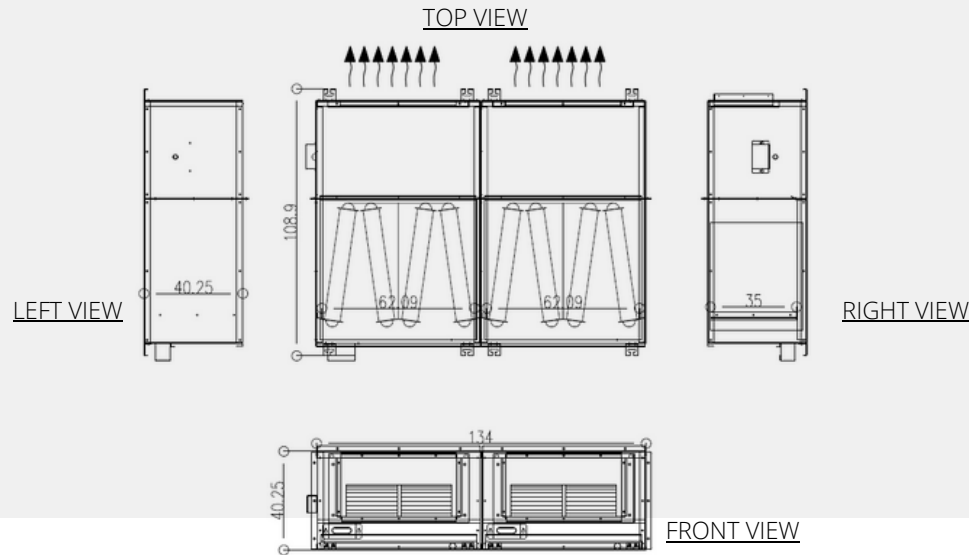
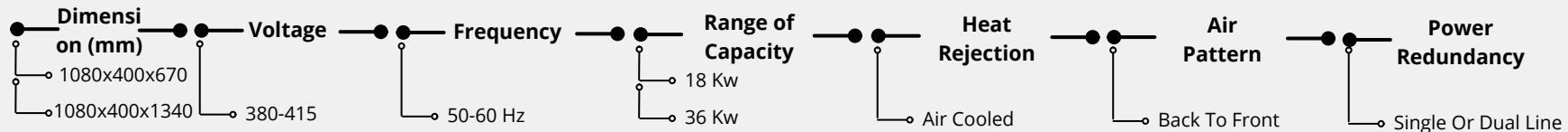
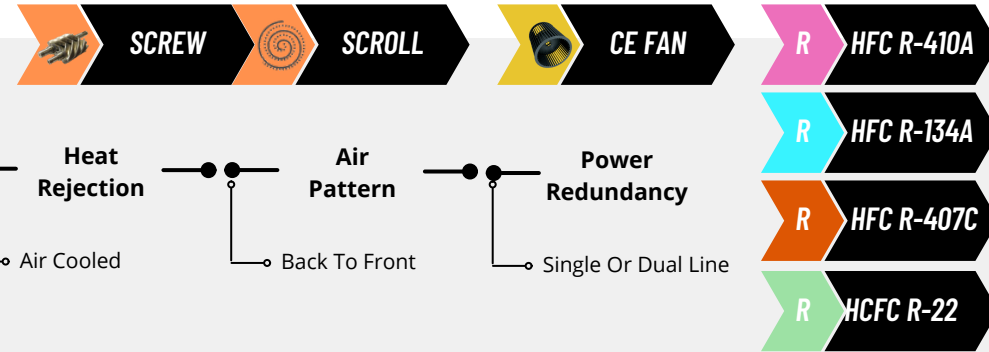


DOWN FLOW:

Cold air flows from the bottom of the racks and enters the cold corridor.

Included: Free Cooling Mode Optional + Filter + Humidifier + Wide Range (Design & manufacturing)

DOWN FLOW COOLING UNIT-NC005DFD:



- Ability to connect to monitoring systems through SNMP, TCP/IP
- Modbus protocol support
- Equipped with a monitor
- Automatic troubleshooting
- Ability to add different sensors
- With temperature monitoring capability
- Equipped with a sensor inside the rack
- Has a dedicated web server
- Equipped with electronic expansion valve with drive



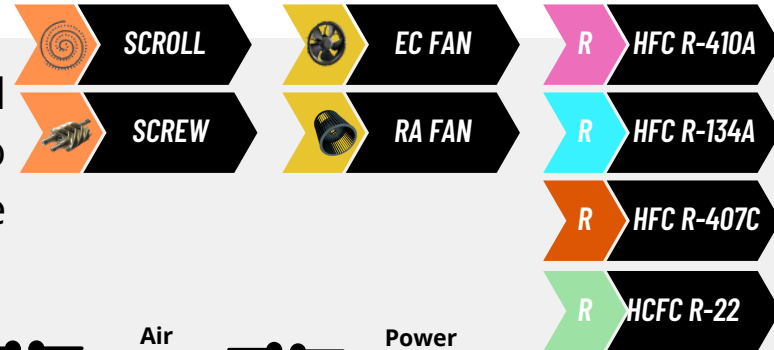
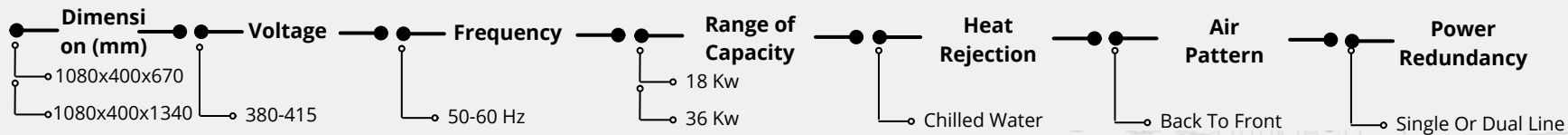
DOWN FLOW:

In this type of system the compressor resides in the CRAC unit. However, the compressor may alternatively reside in the condenser. When the compressor resides in the condenser the correct term for the condenser is condensing unit, and the overall system is known as a split system.

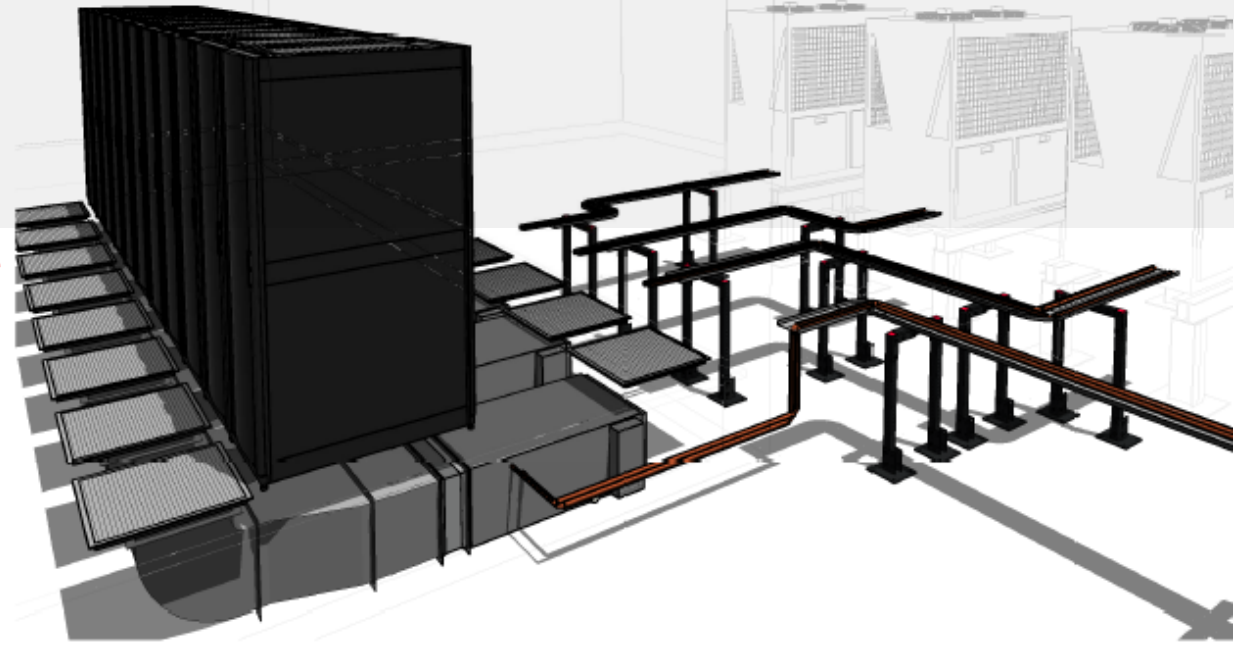


DOWN FLOW COOLING UNIT-NC006DFC:

In this method, the indoor unit CRAC Or CRAH is located under the floor of the data center and directs the cold air to the cold corridor and the hot air is sucked again from the hot corridor and this cycle continues.



- Ability to connect to monitoring systems through SNMP,TCP/IP
- Modbus protocol support
- Equipped with a monitor
- Automatic troubleshooting
- Ability to add different sensors
- With temperature monitoring capability
- Equipped with a sensor inside the rack
- Has a dedicated web server
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NET-IX APPLICATION FOR ANDROID SYSTEM:

(From from ASHRAE/IESNA Standard 90.1-2007) A duct and damper arrangement and automatic control system that together allow a cooling system to supply outdoor air to reduce or eliminate the need for mechanical cooling during mild or cold weather.

DATA CENTER COOLING SYSTEM CONTROL:

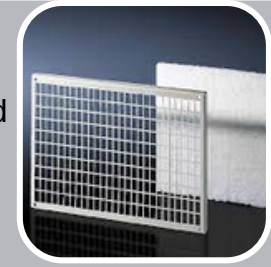
Simultaneously with the latest technology, **Net-IX** has designed an application for fast and easy control of data centers.

With this software, the user will be able to easily control the temperature, humidity and cooling system capacity and system errors.



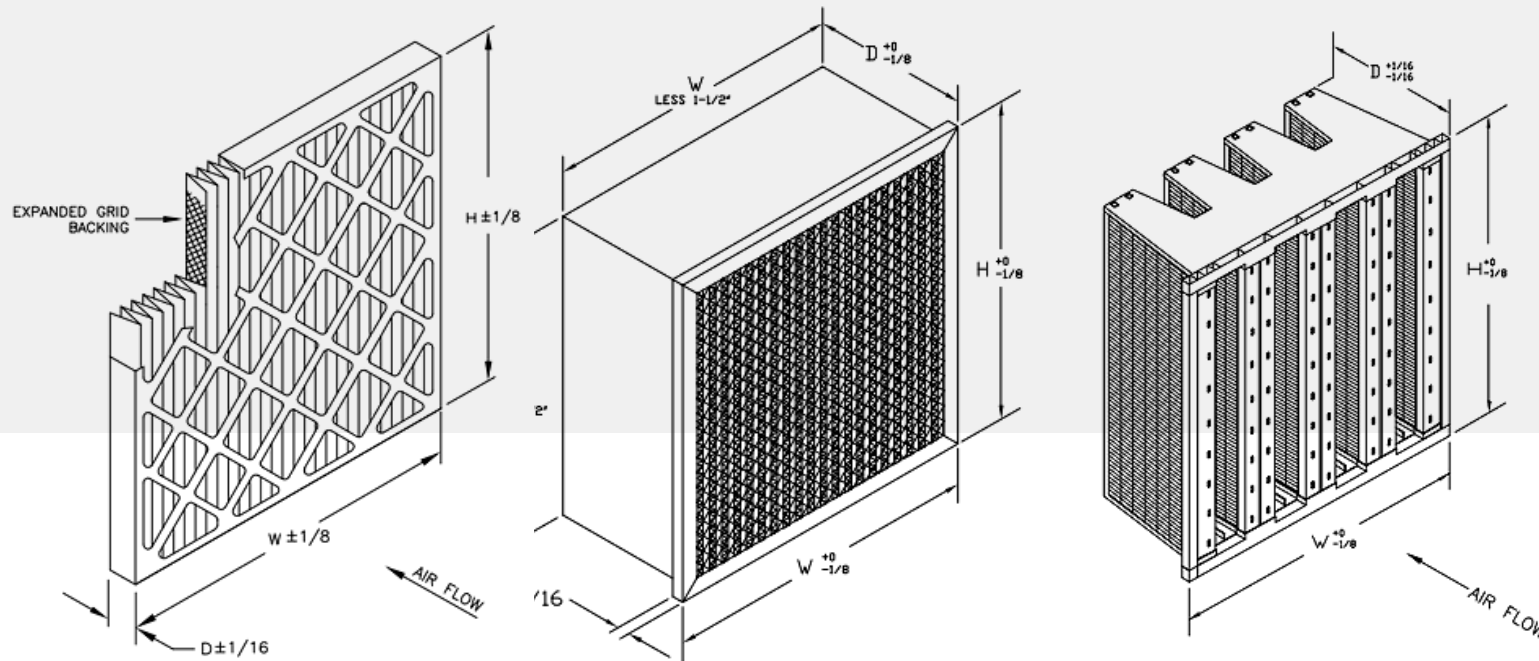
ASHRAE 52.1:

ASHRAE Standard 52.1 is a document describing the evaluation and performance of air filters used in data centers and equipment rooms.



AIR & DUST FILTERS:

The use of washable metal filters is recommended, particularly in environments with dusty or oily ambient air. If air or steam condenses on the metal surfaces, any particles that may be present will adhere to the metal and are easily washed out with water or grease-dissolving detergents.





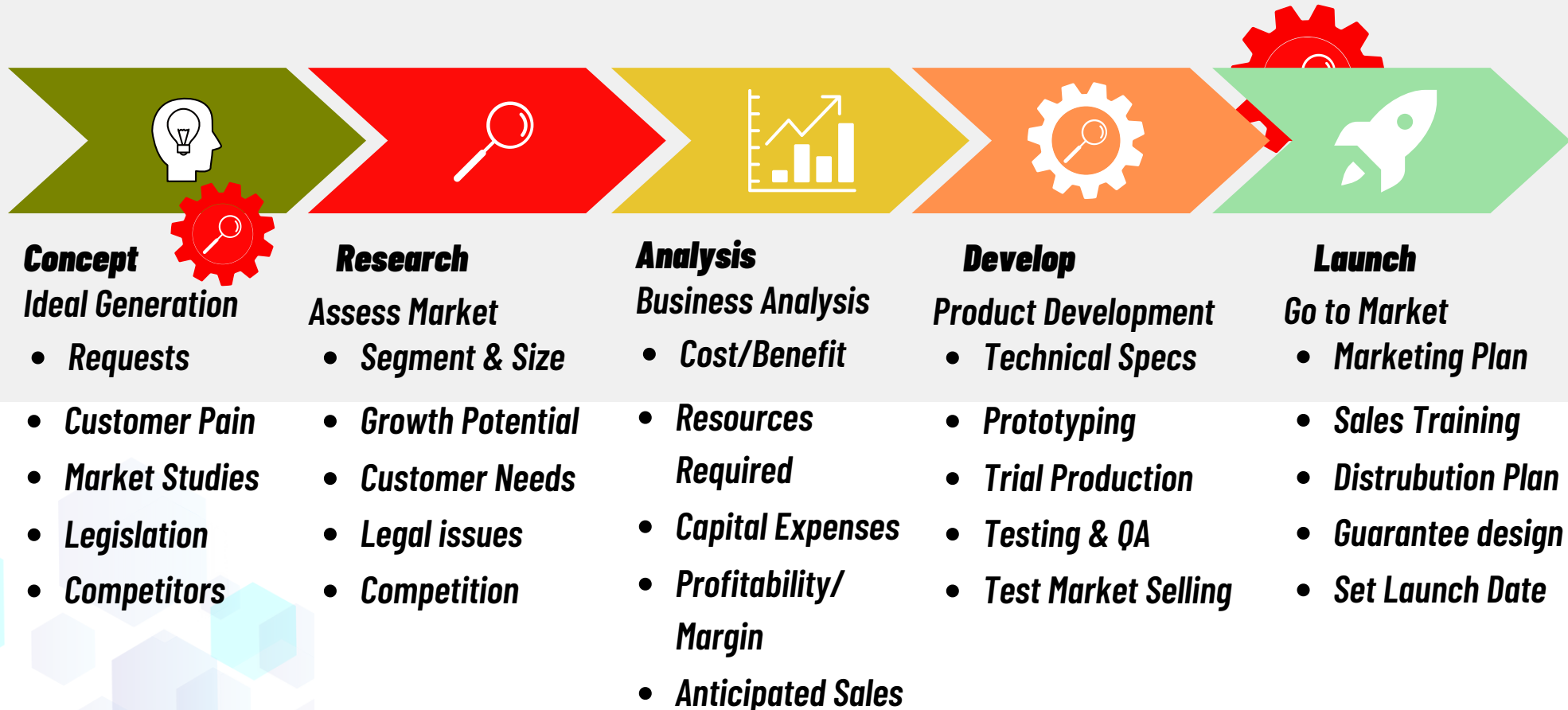
R&D:

Overall, it has been found that there is a positive and direct relationship between research and development, and company productivity in all sectors, but this positive relationship is far stronger in high-tech companies than in low-tech companies.

WORK PROCESS:

One of the most important parts of the research and development department is to achieve the most ideal methods and the highest efficiency in order to meet the cooling needs of data centers.

This department consists of the following sections, each section has its own defined tasks:





Your needs are our challenges, so our solution is your success.

CUSTOMAIZED SOLUTIONS:

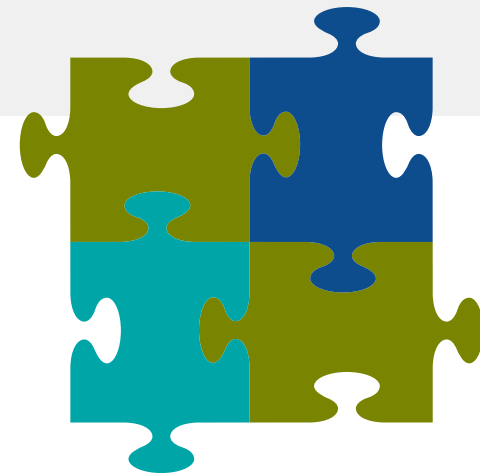
In the R&D department, after examining the special needs of customers and projects, we have proposed appropriate solutions for cooling data centers, which have economic and technical advantages.

Highly efficient solutions perfectly adapted to your needs

At the beginning of our collaboration, we develop the precise profile of requirements and define the specifications together with you. Our consultation is focused particularly on products and system solutions that are both highly efficient and economical.

Following a detailed planning stage, our engineering and design specialists create a prototype at our Technology Center, which is subsequently manufactured in the production facilities in Parand and subject to thorough quality testing.

In search of the optimum solution, no challenge is too great for our experts





ACCURATE COOLING:

Design and production of cooling products according to customer needs

POPULAR IN-ROW MODELS:



Model Number	Cooling Capacity	Voltage	Dimension(HxWxD)	Heat Rejection	Power Redundancy	Air Pattern
NC002IND-185-300	18.5 Kw	380-415 (50-60 Hz)	2000x300x1070	Air Cooled	Single Or Dual Line	Back To Front
NC002IND-220-300	22 Kw		2000x600x1070			
NC002IND-335-600	33.5 Kw			2000x300x1070		
NC002IND-420-600	42 Kw		2000x600x1070			
NC001INC-185-300	18.5 Kw			Chilled Water		
NC001INC-220-300	22 Kw					
NC001INC-335-600	33.5 Kw					
NC001INC-420-600	42 Kw					

****It is possible to change the specifications without prior notice.***

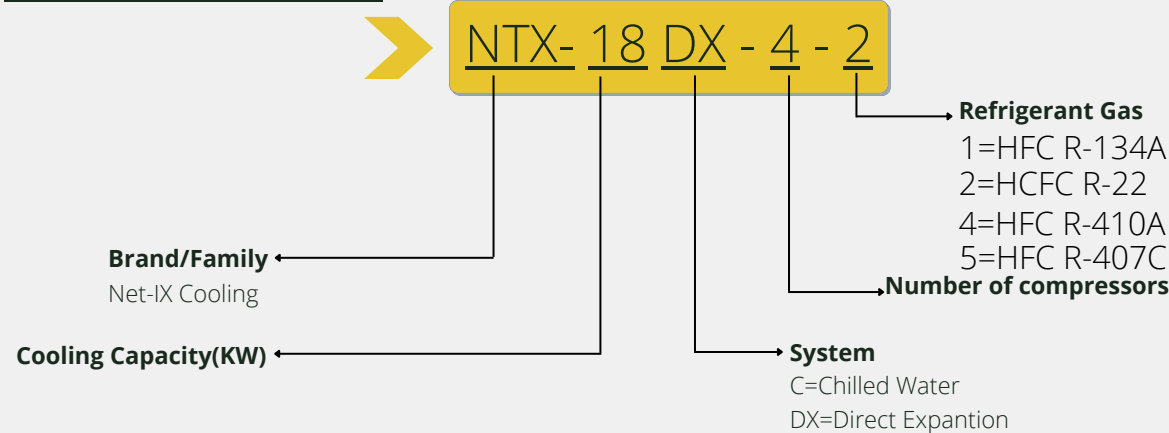
****Dimension(mm)***

To choose the desired product, you should use the following guide.

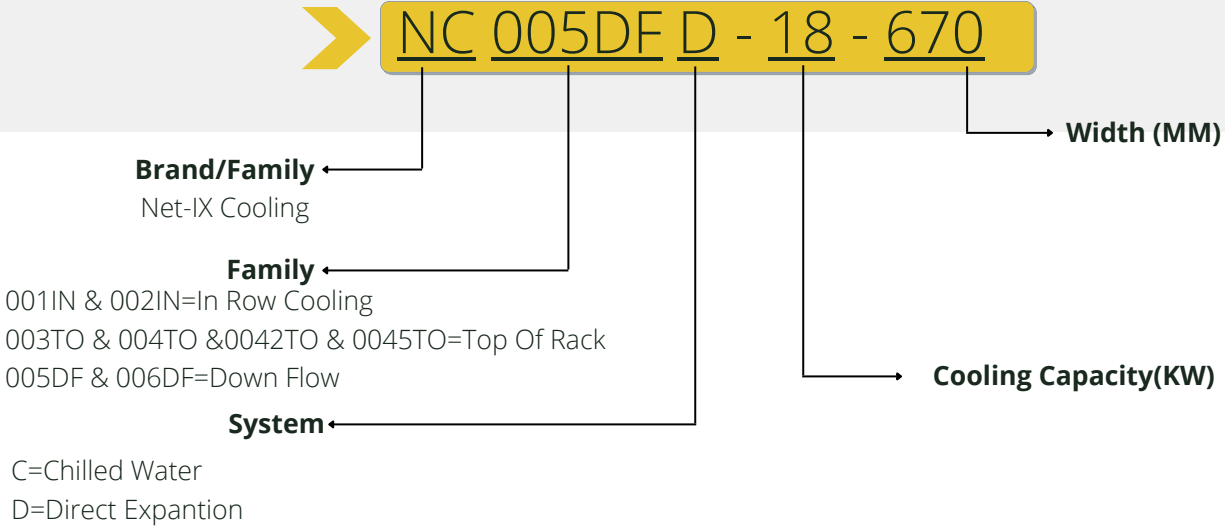


MODEL NOMENCLATURE:

Outdoor Unit Model



Indoor Unit Model



بخشی از رزومه شرکت نوآوران توسعه ایده کسب

نمایی کلی از رزومه و فعالیت های شرکت در حوزه های مختلف صنعت کشور



شرکت Net-IX Cool در حوزه مشاوره، طراحی، ساخت، اجراء، فروش و خدمات بعد از فروش و ممیزی انرژی سیستم های تهویه مطبوع و سرمایش در مراکز داده (DataCenter / صنعتی / تجاری / مسکونی / بیمارستانی) فعال می باشد. در این زمینه موارد ذیل قابل ذکر می باشد:

▶ طراحی و ساخت سیستم های سرمایش و تهویه مطبوع را با توجه به استاندارد های بین المللی را دارا می باشد. امکان طراحی و اجراء فانه های کارا انرژی .

▶ ممیزی انرژی در حوزه صنایع و ساختمان های مسکونی .

▶ توانایی طراحی و آنالیز و جانمایی محصولات را بر اساس مدل های دینامیک سیالات محاسباتی (CFD) داخلی و خارجی در راستای افزایش بهره وری.

▶ استفاده از تکنولوژی های نو را در طراحی و تولید برفی محصولات را با اتکاء به سیستم دانش بنیان خود و با توجه به نیاز های پروژه ها و شرایط اقلیمی.

▶ استفاده از مداخلت توان فنی و مهندسی داخل کشور در راستای تقویت تولید ملی.

▶ ارائه کلیه خدمات طراحی ، ساخت ، استقرار ، راه اندازی و سرویس و نگهداری سیستم های تهویه مطبوع و سرمایش تا سطح مورد درخواست با نیاز مشتری.

بخشی از رزومه شرکت نوآوران توسعه ایده کسب

نمایی کلی از رزومه و فعالیت های شرکت در حوزه های مختلف صنعت کشور



مراکز بیمارستانی

5 بیمارستان به ظرفیت 2000 تن برودت

مراکز دیتا سنتر

23 دیتا سنتر به ظرفیت 800 تن برودت

مراکز مسکونی و تجاری

18 مرکز به ظرفیت 1500 تن برودت

مراکز دولتی

9 مرکز به ظرفیت 6000 تن برودت



برخی از پروژه های سرمایه‌ش در حوزه مراکز داده

3x16Kw	مشاوره رتبه بندی تهران
3x17Kw	شرکت رتبه بندی شرکت ها و موسسات (بانک مرکزی)
3x20Kw	بیمه کوثر
6x22Kw	سازمان سپرده گذاری اوراق بهادار
9x20Kw 10x24Kw 3x14Kw 10x20Kw 3x14Kw	پروژه های ایزایران و صایران
14x30Kw	بانک پاسارگاد (فناپ - ابرآروان) سایت فرودگاه پیام
3x20Kw	شرکت سپانیر
3x20Kw	آموزش و پرورش استان سمنان

9x33Kw	سازمان امور مالیاتی تهران
9x33Kw	سازمان امور مالیاتی قزوین
3x33Kw	سازمان جنگل ها و مراتع وآبخیزداری کشور
6x22Kw	سازمان سپرده گذاری اوراق بهادار
21x20Kw	مراکز مناطق بانک تجارت
3x20Kw	بانک اقتصاد نوین(شرکت پرداخت نوین)
6x22Kw	دانشگاه علوم پزشکی تبریز
3x20Kw	دانشگاه علوم پزشکی شیراز
5x15Kw	دانشگاه علوم پزشکی بوشهر
3x20Kw	دانشگاه علوم پزشکی جیرفت
6x22Kw 3x20Kw	شرکت صنایع الکترونیکی زعیم
3x22Kw	آموزش و پرورش استان تهران

برخی از پروژه های سرمایه‌ش در حوزه مراکز دولتی و بیمارستانی، نظامی و ...



100 Ton	چیلر تراکمی و فن کویل بیمارستان دوز دوزان آذربایجان شرقی / میانه
تهران	طراحی و اجراء اتاق تمییز 1 صنایع دفاع ارتش
تهران	طراحی و اجراء اتاق تمییز 2 صنایع دفاع ارتش
شهرک صنعتی نظر آباد	طراحی و اجراء تونل انجماد شرکت آمون
قزوین	بروزرسانی پکیج های مجتمع سیمان آبیگ
اصفهان	بروزرسانی پکیج های مجتمع فولاد مبارکه
نقده	طراحی و اجراء سیستم تهویه مطبوع کارخانه گیاهان دارویی
3x160 Ton	چیلر تراکمی بیمارستان خاتم الانبیاء آذربایجان شرقی / میانه

2x1750 Ton	چیلر جذبی حرم مطهر امام خمینی(ره)
2x25 MW	بروزرسانی سیستم CHP ستاد اجرایی فرمان امام(ره)
1x100 Ton	چیلر تراکمی مرکز کنترل ترافیک زنجان
1x90 TON	شرکت خدمات داده ورزی سداد تهران
2x650 Ton	چیلر جذبی وزارت راه و شهرسازی تهران
2x24 Ton	چیلر تراکمی و فن کویل هتل پتروشیمی خراسان رضوی / مشهد
4x13000 CFM	هواساز هایژنیک بیمارستان امام رضا(ع) خراسان رضوی / مشهد
80 Ton	چیلر تراکمی کلینیک نصر آذربایجان شرقی / میانه
3x160 Ton	چیلر تراکمی بیمارستان امام خمینی(ره) آذربایجان شرقی / میانه



بخشی از پروژه های مسکونی و تجاری

6x6 Ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای افضل
1x160 Ton 1x120 Ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای مهندس غفاری
2x160 Ton	پروژه طراحی و ساخت چیلر تراکمی، هواساز و فن کویل جناب آقای دکتر امیری
داکت اسپلیت	پروژه 160 واحدی جناب آقای مقدم
داکت اسپلیت	پروژه 60 واحدی جناب آقای مقدم
داکت اسپلیت	پروژه 56 واحدی جناب آقای مقدم
داکت اسپلیت	پروژه 48 واحدی جناب آقای مقدم

1x20 Ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای دکتر سعیدی
1x60 Ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای روحانی
6x10 Ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای قربانی
1x24 Ton	پروژه طراحی و ساخت چیلر و فن کویل تراکمی جناب آقای حاتمی
1x12 Ton	پروژه طراحی و ساخت چیلر و فن کویل تراکمی جناب آقای فنونی
10x6 Ton 1x6 Ton 2x24 ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای حسینی
12x5 Ton	پروژه طراحی و ساخت چیلر تراکمی جناب آقای بنکدار



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